

CICS® Transaction Server for OS/390®



# CICS Data Areas

*Release 3*



CICS® Transaction Server for OS/390®



# CICS Data Areas

*Release 3*

**Note!**

Before using this information and the product it supports, be sure to read the general information under "Notices" on page ix.

### **Fourth edition (November 2000)**

This edition applies to Release 3 of CICS Transaction Server for OS/390, program number 5655-147, and to all subsequent versions, releases, and modifications until otherwise indicated in new editions. Make sure you are using the correct edition for the level of product.

Changes since the third edition are marked by the '#' sign to the left of the changes. Changes made for the third edition, or earlier, are unmarked.

This edition replaces and makes obsolete the previous edition, LY33-6089-02. The CICS Transaction Server for OS/390 Release 2 edition remains applicable and current for users of that release, and may be ordered using its order number, LY33-6089-01.

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# Contents

<b>Notices</b> . . . . .	ix
Programming interface information . . . . .	xi
Trademarks . . . . .	xi
<b>Preface</b> . . . . .	xiii
What this book is about . . . . .	xiii
Who this book is for . . . . .	xiii
What you need to know to understand this book . . . . .	xiii
How to use this book . . . . .	xiii
Determining if a publication is current . . . . .	xiii
CICS Transaction Server for OS/390 . . . . .	xiv
CICS books for CICS Transaction Server for OS/390 . . . . .	xiv
CICSplex SM books for CICS Transaction Server for OS/390 . . . . .	xv
Other CICS books . . . . .	xv
<b>Chapter 1. CICS® Transaction Server for OS/390® Data Areas</b> . . . . .	1
How the data areas are presented . . . . .	1
AFCB Authorized function blocks . . . . .	2
AFCT Application file control table . . . . .	4
AID Automatic initiate descriptor . . . . .	6
APLI Program language block . . . . .	8
APSTG Application domain global statistics . . . . .	9
APXDC Application domain trandef extension . . . . .	11
ATD Attach table . . . . .	12
A03 VTAM global statistics . . . . .	14
A04 Autoinstall statistics . . . . .	15
A06 Terminal statistics . . . . .	16
A08 LSR pool statistics . . . . .	17
A09 File specific statistics . . . . .	19
A14 ISC/IRC statistics . . . . .	20
A16 Table manager statistics . . . . .	22
A17 File control statistics . . . . .	23
A20 ISC/IRC mode entry statistics . . . . .	25
A21 ISC LUIT & sna management statistics . . . . .	26
A22 Fepi pool statistics . . . . .	27
A23 Fepi connection statistics . . . . .	28
A24 Fepi target statistics . . . . .	29
BRARC Brxa definition . . . . .	30
CDBLK Convdata block . . . . .	45
CFS6D Cfdt server cf statistics . . . . .	46
CFS7D Cfdt server table statistics . . . . .	47
CFS8D Cfdt server request statistics . . . . .	48
CFS9D Cfdt server storage statistics . . . . .	49
CLT Command list table . . . . .	50
CRB Cross region block . . . . .	51
CSA Common system area generator . . . . .	52
CTXPA DL/I general purpose macro . . . . .	63
CWE DL/I general purpose macro . . . . .	64
DBU DBCTL unsolicited statistics . . . . .	64

DBWMS	XRF/DBCTL last message sent	65
DCR	Transaction dump record formats	66
DCT	Destination control table	69
DGB	DBCTL-CICS global block	75
DHTX	Document handler template exitpgm interface	77
DIB	Data interchange block	78
DLP	DL/I general purpose macro	80
DSB	DBCTL scheduling block	81
DSG	Dispatcher statistics	85
DSN	File control dataset name	87
DUA	Dump domain control blocks	89
DUAFB	Dump domain authorised parameter block	98
DUGS	Dump domain global statistics	100
DUTD	Dump domain transaction dump statistics	101
DWE	Deferred work element	102
DXPS	XRF/DBCTL DGB extension	103
DXQEL	XRF/DBCTL subtask storage	104
DXUEP	Cics-dbctl XRF user exit parameter list	105
D2GDS	Cics/db2 global statistics	106
D2RDS	Cics/db2 resource statistics	108
ECA	Event control area	109
EDF	EDF communication area	110
EIB	EXEC interface block	112
EIC	EXEC interface communications area	113
EICD1	Language definition table	114
EIPDS	Command level interface dsects	118
EIS	EXEC interface structure	122
EISTG	EXEC interface dynamic storage	125
EIUS	EXEC interface user structure	125
ETC	EXEC terminal control	127
FCE	File control EXEC argument list	128
FCENT	File control transformer table entries	134
FCLGC	File control log record format	135
FCS	File control static storage	139
FCT	File control table entry layout	145
FCTSR	File control shared resources	149
FFL	Fast file locate	151
FIOA	File input/output area	152
FLABC	File lasting access block	153
FMH	Function management headers	156
FMI	Function and module identifiers	166
FRABC	File request anchor block	167
FRTEC	File request thread element	170
ICE	Interval control element	172
ICUE	Interval control EXEC parameter list	174
IMSDS	Function request shipping message	186
IRC	Interregion control blocks	187
IRRDS	Interregion session recovery	193
JCA	Journal control area	194
KCS	Transaction manager static storage	195
KERRD	Kernel error data	196
KPLEC	Keypoint list element	199
LDGDS	Loader statistics	200

LDRDS	Loader statistics for programs . . . . .	201
LFM	LIFO parameter list and standard DSA . . . . .	202
LGGF	General log format . . . . .	204
LGMS	SMF log format . . . . .	207
LGRDS	Log manager journal statistics . . . . .	209
LGSDS	Log manager logstream statistics . . . . .	210
LLDC	Tc local logical device code table . . . . .	211
LUC	Parameter list . . . . .	211
LUM	Parameter list . . . . .	217
LUSDS	Zcp LU services manager parameter . . . . .	218
MAP	BMS map object DSECT . . . . .	219
MBCA	Transient data buffer control . . . . .	222
MCA	Map control area description . . . . .	224
MCB	BMS message control block . . . . .	226
MCR	BMS message control record DSECT . . . . .	228
MCTDR	Monitoring dictionary entry . . . . .	229
MGM	MGM format of prototype messages . . . . .	230
MNEMP	Monitoring domain user EMP structure . . . . .	232
MNEXC	Monitoring exception record . . . . .	233
MNG	Monitoring domain statistics . . . . .	234
MNSMF	SMF header and SMF product section . . . . .	235
MNT	Transaction monitoring data . . . . .	236
MRC	Transient data VSAM control . . . . .	240
MWCB	Transient data wait control . . . . .	242
NCS4D	Named counter server cf statistics . . . . .	243
NCS5D	Named counter server storage statistics . . . . .	244
NEPCA	Node error program commarea . . . . .	245
NQG	Enqueue manager global statistics . . . . .	247
NQUE	Enq/deq EXEC parameter list . . . . .	248
OSPWA	BMS work area . . . . .	251
PCE	Program control EXEC argument list . . . . .	256
PCUES	Program control user exits DSECT . . . . .	260
PDA	Monitoring performance data record . . . . .	261
PEP	Program error program commarea . . . . .	265
PFT	Profile table entry . . . . .	266
PGA	BMS page control area DSECT . . . . .	268
PGACC	Program manager autoinstall commarea . . . . .	269
PGGPC	Program manager statistics . . . . .	271
PLT	Program list table entry . . . . .	271
PSD	Partition set definition block . . . . .	272
PSG	System spooling interface . . . . .	273
PSP	Printer spooling subsystem . . . . .	275
RCS	Recovery control static storage . . . . .	277
RMG	Recovery manager global statistics . . . . .	278
RMUXC	Recovery manager domain inline access . . . . .	279
RPD	DL/I general purpose macro . . . . .	279
RSB	DL/I general purpose macro . . . . .	280
RSB	DL/I general purpose macro . . . . .	283
SAA	Storage accounting area . . . . .	286
SAB	Subsystem anchor block . . . . .	286
SDG	Dump domain global statistics . . . . .	287
SDR	Dump domain system dump statistics . . . . .	288
SETCC	Set storage control . . . . .	289

SIP	System initialisation program	290
SIT	System initialisation table	292
SKA	Skp subtask control area	304
SKRQ	Subtask management parameter block	307
SKW	Skp work queue element	308
SLDC	System logical device code table	309
SMD	Domain subpool storage statistics	310
SMF	SMF header and SMF product section	311
SMS	Pagepool storage statistics	313
SMT	Storage subpool storage statistics	315
SNEX	Signon extension block	316
SNGN	Gntran stub parameter list for cegn	319
SNGS	Goodnight transaction parameter list	320
SNSTA	Sign-on LUIT and SNT statistics	321
SORDS	Tcp/ip service	322
SPI	Task local storage definition	323
SRA	SRB interface mapping	325
SRB	Service request block	326
SRED	System recovery error data	328
SRT	System recovery table	329
SSA	Static storage area address list	329
STG	Statistics domain statistics	330
STI	Statistics record identifiers	331
TACB	Transaction abend control block	332
TACLE	Terminal abnormal condition line entry	333
TCA	Task control area	334
TCADY	Task control area - system area	353
TCPRA	Receive any control element	357
TCRWE	Remote install work element	358
TCTFX	Terminal control table prefix	359
TCTLE	Terminal control table line entry	368
TCTTE	TCT terminal entry	370
TCTWA	TCT transaction work area	414
TCTWE	VTAM autoinstall work element	415
TCV29	XRF mapping session state vector '29'	418
TCX	TCA extension for LU6.2	421
TDCI	Transient data control intervals	421
TDIA	Transient data input area	422
TDOA	Transient data output area	423
TDST	Transient data static storage	424
TDUE	Transient data EXEC parameter list	426
TEPCA	TEP commarea mapper and descriptor	431
TIE	Task interface element	432
TIOA	Terminal input/output area	435
TMDEL	Table manager directory element	436
TMDSG	Table manager directory segment	437
TMELD	Table manager read lock block	438
TMRQ	Table manager parameter list	439
TMS	Table manager static storage area	440
TMSKT	Table manager scatter table	442
TPE	Terminal partition extension	443
TQG	Transient data global statistics	444
TQR	Transient data statistics	445



TRA	Trace domain - common structures	447
TRAP	Trace parameter list	449
TRBL	Trace domain - common structures	450
TREN	Trace entry	451
TRFCA	Trace formatting control area	452
TRFTE	Feature trace entry header	458
TRGTW	Global trap working storage	459
TSG	Temporary storage domain statistics	460
TSIOA	Temporary storage input/output area	461
TST	Temporary storage table	461
TSUE	Temporary storage EXEC parameter list	462
TTP	Terminal type parameter	467
UEFD	User exit file and dataset information	471
UEPAR	Task related user exit plist	473
UEPAR	Global user exit plist	476
UEPB	User exit program block	497
UEPL	User exit program link	498
UETE	User exit table entry	499
UETH	User exit table header	500
URL	User supplied route list entry	501
VMID	Module identifier	502
VSWA	Fc VSAM work area	502
WBCDC	Web interface converter parms	505
WBTDC	Web interface analyzer parms	510
WBTLC	Web interface template manager	514
WCG	XRF global control block	515
WCS	XRF CAVM static control block	517
WDG	XRF process block	518
WDI	XRF dispatcher interface	519
WDL	XRF LIFO workspace	520
WFG	XRF CAVM file control block	521
WMG	XRF message manager global area	522
WMI	XRF internal interface block	524
WMM	XRF message queue anchor block	526
WMQ	XRF message request queue	527
WMR	XRF message record	528
WMS	XRF message manager request	529
WMT	XRF message manager message	531
WNF	XRF CAVM notify exit	532
WSA	XRF CAVM surveillance status	534
WSC	XRF CAVM time-of-day clock difference	537
WSM	XRF CAVM state manager record description	538
WSN	XRF entry points table	540
WSR	XRF CAVM surveillance	541
WSS	XRF CAVM state manager parameter list	542
WST	XRF takeover parameter area	543
WSX	XRF CAVM surveillance exits	544
WS2	XRF parameter list	545
WS3	XRF parameter list	546
WTA	XRF takeover initiation argument block	547
WTG	XRF trace control area	550
WTR	XRF trace interface	551
WXB	XRF process block	554

WXL	XRF LIFO stack area . . . . .	555
XCTRC	Parameter list definition . . . . .	556
XFIOA	Transformed MRO function . . . . .	561
XFR	Function shipping request control block . . . . .	563
XLT	Transaction list table . . . . .	565
XMCDS	Transaction manager TCLASS stats . . . . .	565
XMGDS	Transaction manager global stats . . . . .	566
XMRDS	Transaction manager transaction stats . . . . .	567
XMRSC	Transaction restart program commarea . . . . .	568
XQS1D	Shared ts queue server cf statistics . . . . .	569
XQS2D	Shared ts queue server buffer statistics . . . . .	570
XQS3D	Shared ts queue server storage statistics . . . . .	571
XRH	Extended recovery facility . . . . .	572
XRS	XRF static storage definition . . . . .	574
XRW	XRF work element definition . . . . .	577
ZCCPS	CICS client . . . . .	578
ZCQ	Builder parameter set . . . . .	582
ZEPD	TCP modules address list . . . . .	589
ZGDC	Domain subroutine equates . . . . .	591
ZGRP	Persistent sessions control blocks . . . . .	600
ZLUIT	Zcp local userid table definition . . . . .	606
ZRPL	CICS VTAM rpl extension . . . . .	608
ZXQOD	XRF tracking queue organiser . . . . .	609
ZXTR	XRF tracking record header . . . . .	610
<b>Index</b>	. . . . .	<b>613</b>

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## Programming interface information

This book is intended to help you diagnose problems in your CICS system, and primarily documents Diagnosis, Modification, or Tuning Information.

**Warning:** Do not use this Diagnosis, Modification, or Tuning Information as a programming interface.

However, this book also documents General-use Programming Interface and Associated Guidance Information and Product-sensitive Programming Interface and Associated Guidance Information provided by CICS.

General-use programming interfaces allow the customer to write programs that obtain the services of CICS.

General-use Programming Interface and Associated Guidance Information is identified where it occurs by an introductory statement to a data area.

Product-sensitive programming interfaces allow the customer installation to perform tasks such as diagnosing, modifying, monitoring, repairing, tailoring, or tuning of CICS. Use of such interfaces creates dependencies on the detailed design or implementation of the IBM software product. Product-sensitive programming interfaces should be used only for these specialized purposes. Because of their dependencies on detailed design and implementation, it is to be expected that programs written to such interfaces may need to be changed in order to run with new product releases or versions, or as a result of service.

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## Preface

### What this book is about

This book lists the major data storage areas used by CICS®, and indicates the storage layout and usage of each area.

### Who this book is for

This book is for anyone who needs to look at a CICS dump or trace:

- IBM® service personnel
- CICS system programmers
- CICS application programmers.

### What you need to know to understand this book

It is assumed that you have an understanding of CICS. You need to know how data is represented in storage. To understand the general approach to CICS problem-solving, you should look at the *CICS Problem Determination Guide*. The *CICS Diagnosis Reference* includes a list of CICS modules and the data areas used by each.

### How to use this book

You should use this reference book when you are trying to solve a problem with a CICS system.

This book includes the tables that define and control a CICS system and its resources, as well as input and output areas and work areas used by CICS functions and application programs. The contents may be determined at system generation or system initialization time, or they may be set dynamically while CICS is running.

**Note:** You may see references in this book to items that belong to other CICS products, such as CICS/DOS/VS, CICS/OS/VS, CICS/MVS®, CICS/ESA®, or CICS/VSE®. These items are in source used by all versions of CICS, and have no effect in this version.

### Determining if a publication is current

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Subsequent updates will probably be available in softcopy before they are available in hardcopy. This means that at any time from the availability of a release, softcopy versions should be regarded as the most up-to-date.

For CICS Transaction Server books, these softcopy updates appear regularly on the *Transaction Processing and Data Collection Kit* CD-ROM, SK2T-0730-xx. Each reissue of the collection kit is indicated by an updated order number suffix (the -xx

part). For example, collection kit SK2T-0730-06 is more up-to-date than SK2T-0730-05. The collection kit is also clearly dated on the cover.

Updates to the softcopy are clearly marked by revision codes (usually a "#" character) to the left of the changes.

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## CICS Transaction Server for OS/390

<i>CICS Transaction Server for OS/390: Planning for Installation</i>	GC33-1789
<i>CICS Transaction Server for OS/390 Release Guide</i>	GC34-5352
<i>CICS Transaction Server for OS/390 Migration Guide</i>	GC34-5353
<i>CICS Transaction Server for OS/390 Installation Guide</i>	GC33-1681
<i>CICS Transaction Server for OS/390 Program Directory</i>	GC33-1706
<i>CICS Transaction Server for OS/390 Licensed Program Specification</i>	GC33-1707

## CICS books for CICS Transaction Server for OS/390

### General

<i>CICS Master Index</i>	SC33-1704
<i>CICS User's Handbook</i>	SX33-6104
<i>CICS Glossary (softcopy only)</i>	GC33-1705

### Administration

<i>CICS System Definition Guide</i>	SC33-1682
<i>CICS Customization Guide</i>	SC33-1683
<i>CICS Resource Definition Guide</i>	SC33-1684
<i>CICS Operations and Utilities Guide</i>	SC33-1685
<i>CICS Supplied Transactions</i>	SC33-1686

### Programming

<i>CICS Application Programming Guide</i>	SC33-1687
<i>CICS Application Programming Reference</i>	SC33-1688
<i>CICS System Programming Reference</i>	SC33-1689
<i>CICS Front End Programming Interface User's Guide</i>	SC33-1692
<i>CICS C++ OO Class Libraries</i>	SC34-5455
<i>CICS Distributed Transaction Programming Guide</i>	SC33-1691
<i>CICS Business Transaction Services</i>	SC34-5268

### Diagnosis

<i>CICS Problem Determination Guide</i>	GC33-1693
<i>CICS Messages and Codes</i>	GC33-1694
<i>CICS Diagnosis Reference</i>	LY33-6088
<i>CICS Data Areas</i>	LY33-6089
<i>CICS Trace Entries</i>	SC34-5446
<i>CICS Supplementary Data Areas</i>	LY33-6090

### Communication

<i>CICS Intercommunication Guide</i>	SC33-1695
<i>CICS Family: Interproduct Communication</i>	SC33-0824
<i>CICS Family: Communicating from CICS on System/390</i>	SC33-1697
<i>CICS External Interfaces Guide</i>	SC33-1944
<i>CICS Internet Guide</i>	SC34-5445

### Special topics

<i>CICS Recovery and Restart Guide</i>	SC33-1698
<i>CICS Performance Guide</i>	SC33-1699
<i>CICS IMS Database Control Guide</i>	SC33-1700
<i>CICS RACF Security Guide</i>	SC33-1701
<i>CICS Shared Data Tables Guide</i>	SC33-1702
<i>CICS Transaction Affinities Utility Guide</i>	SC33-1777
<i>CICS DB2 Guide</i>	SC33-1939



## CICSplex SM books for CICS Transaction Server for OS/390

### General

<i>CICSplex SM Master Index</i>	SC33-1812
<i>CICSplex SM Concepts and Planning</i>	GC33-0786
<i>CICSplex SM User Interface Guide</i>	SC33-0788
<i>CICSplex SM View Commands Reference Summary</i>	SX33-6099

### Administration and Management

<i>CICSplex SM Administration</i>	SC34-5401
<i>CICSplex SM Operations Views Reference</i>	SC33-0789
<i>CICSplex SM Monitor Views Reference</i>	SC34-5402
<i>CICSplex SM Managing Workloads</i>	SC33-1807
<i>CICSplex SM Managing Resource Usage</i>	SC33-1808
<i>CICSplex SM Managing Business Applications</i>	SC33-1809

### Programming

<i>CICSplex SM Application Programming Guide</i>	SC34-5457
<i>CICSplex SM Application Programming Reference</i>	SC34-5458

### Diagnosis

<i>CICSplex SM Resource Tables Reference</i>	SC33-1220
<i>CICSplex SM Messages and Codes</i>	GC33-0790
<i>CICSplex SM Problem Determination</i>	GC33-0791

## Other CICS books

<i>CICS Application Programming Primer (VS COBOL II)</i>	SC33-0674
<i>CICS Application Migration Aid Guide</i>	SC33-0768
<i>CICS Family: API Structure</i>	SC33-1007
<i>CICS Family: Client/Server Programming</i>	SC33-1435
<i>CICS Family: General Information</i>	GC33-0155
<i>CICS 4.1 Sample Applications Guide</i>	SC33-1173
<i>CICS/ESA 3.3 XRF Guide</i>	SC33-0661



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## Chapter 1. CICS® Transaction Server for OS/390® Data Areas

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### How the data areas are presented

The data areas are listed in alphabetical order of their shortened names. The shortened name usually, but not always, matches the first few characters of the data area name, disregarding the DFH prefix; for example DFHTCA is shortened to TCA. Some data areas are grouped together according to usage. If you do not find a data area under the expected short name, you should look in the table of contents or the index for the full name of the area or for the name of the macro or copy book that generates the area.

For each field in each data area, the following information is listed:

- The hexadecimal offset, in parentheses
- The data type and for bitstring values, the bit representation
- The length in bytes (decimal)
- The name (symbolic label)
- A brief description of the function

Where the name of a field is shown as an asterisk ( \* ), the field is reserved.

Where bit settings are indicated, the symbolic labels that have been equated to the bit settings are given. These labels are used to refer to the numeric values in programs that use the data area, and are included in this book to help you understand the program listings. The offset given for one of these fields applies only to the symbolic label assigned to the field as a unit; it does not apply to the labels equated to bit settings (hex values).

Where a storage definition has a duplication factor, for example DCREGS (16), the length of the field is the length of each element of the storage. The total length of the storage is this length multiplied by the duplication factor which is shown in parentheses after the name.

For EQUATE statements, the operand is shown in quotation marks in the description.

### Use of the index

- All fields are listed in the index at the back of this book.
- Each field name listed in the index is followed by:
  - the hexadecimal offset of the field, shown in parentheses,
    - If the field name applies to a bit value, this is indicated by the word **BIT** in place of the hexadecimal offset.
  - the field length, shown in square brackets,
  - the short name of the area in which it appears,
  - and the page number.

Use the index to find where this book shows the field that you are seeking, in a Data Area. Don't use the index for anything else — for example, you will probably not find enough information in the index to diagnose a problem.

## AFCB Authorized function blocks

CONTROL BLOCK NAME = DFHAFCB/AFTSTART/DFHAFCS.  
DESCRIPTIVE NAME = CICS (SVC) Authorised Function Blocks.  
FUNCTION = AUTHORISED FUNCTION CONTROL BLOCK.

The CICS AFCB/AFT/AFCS structure consists of three types of control block:

1. The AFCS. One per CICS Address Space.  
Addressed from AFTAFCB.

2. The AFCB/AFT. One per authorised TCB.  
Addressed from TCBCAUF.

A(AFT) = A(AFCB)+AFLENG+OFFSET(AFLSTBEG)

LIFETIME = CICS Job.

STORAGE CLASS =

LOCATION =

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS =

MODULE TYPE = Control block definition

PRODUCT-SENSITIVE PROGRAMMING INTERFACE

The following field forms part of the Product-Sensitive

Programming Interface:

AFCSA

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	224	DFHAFCB	
(0)	CHARACTER	4	AFIDENT	Eyecatcher: 'AFCX'
(4)	UNSIGNED	1	AFVER	Version and Release level.
(5)	UNSIGNED	1	AFSVCNO	CICS SVC no.
(6)	HALFWORD	2	AFLENG	Length of the AF List vector.
(8)	ADDRESS	4	AFCSA	ADDRESS OF CICS CSA
(C)	ADDRESS	4	AFAICB	ADDRESS OF APPL INTERFACE BLOCK
(10)	CHARACTER	208	AFLSTBEG	START OF ENTRIES
(10)	ADDRESS	4	AFPF	PAGE FIX/FREE
(14)	ADDRESS	4	AFCHAIN	FIX/FREE RECORD CHAIN ANCHOR
(18)	ADDRESS	4	AFSRB	HPO SRB
(1C)	ADDRESS	4	AFHPSRB	TYPE 6 SVC ROUTINE - HPO SRB
(20)	ADDRESS	4	AFIRSVC	ADDRESS OF INTER-REGION SVC
(24)	ADDRESS	4	AFIRSUDB	Address of SUDB if logged on
(28)	ADDRESS	4	AFMON	MONITORING ROUTINE
(2C)	ADDRESS	4	AFMONCB	MONITORING CONTROL BLOCK ANCHOR
(30)	ADDRESS	4	AFSEC	SECURITY ROUTINE
(34)	ADDRESS	4	*	Security Anchor now in AFCS.
(38)	ADDRESS	4	AF7770	ADDRESS OF THE 7770 ROUTINE
(3C)	ADDRESS	4	*	..RESERVED
(40)	ADDRESS	4	AFDEQ	ADDRESS OF THE DEQ ROUTINE
(44)	ADDRESS	4	AFDEQCB	ADD. OF DEQ WORK BLOCK
(48)	ADDRESS	4	AFPXT	Old VSAM subtask postexit -
(4C)	ADDRESS	4	AFPXTXA	- keep for coexistence with 2.1
(50)	ADDRESS	4	AFSKP	Subtask Manager Routine.
(54)	ADDRESS	4	*	...Reserved.
(58)	ADDRESS	4	AFPSS	Spooler Routine.
(5C)	ADDRESS	4	AFPSSCB	Spooler Anchor.
(60)	ADDRESS	4	AFSDU	Old SDUMP. Keep for coexistence
(64)	ADDRESS	4	*	...Reserved.
(68)	ADDRESS	4	AFXRF	Xrf Routine.
(6C)	ADDRESS	4	*	...Reserved.
(70)	ADDRESS	4	AFINIT	AFCB Initial Authorisation.
(74)	ADDRESS	4	*	...Reserved.
(78)	ADDRESS	4	AFINH	AFCB Inherit Authorisation.
(7C)	ADDRESS	4	*	...Reserved.
(80)	ADDRESS	4	AFLODR	Loader Routine.
(84)	ADDRESS	4	*	...Reserved.
(88)	ADDRESS	4	AFMFI	Monitoring Routine.
(8C)	ADDRESS	4	AFMFICB	Monitoring Auth Facil Anchor *
(90)	ADDRESS	4	AFSMR	Storage Management Routine
(94)	ADDRESS	4	*	...Reserved.
(98)	ADDRESS	4	AFAPR	AP Domain Bind Routine.
(9C)	ADDRESS	4	*	...Reserved.
(A0)	ADDRESS	4	AFDSP	Dispatcher Auth Facil routine
(A4)	ADDRESS	4	AFDSPTB	Dispatcher Auth block (DSAUTB)
(A8)	ADDRESS	4	AFDTSVC	Data Tables SVC routine
(AC)	ADDRESS	4	AFDTRGNP	Data Tables Region Anchor
(B0)	ADDRESS	4	AFXCINIT	INIT for EXCI environment
(B4)	ADDRESS	4	AFXCG	XCGLOBAL addr
(B8)	ADDRESS	4	AFXCSMDMP	SDUMP routine for EXCI
(BC)	ADDRESS	4	*	Reserved
(C0)	ADDRESS	4	AFKESVC	Kernel SVC
(C4)	ADDRESS	4	*	Reserved
(C8)	ADDRESS	4	AFDUSVC	Dump SVC
(CC)	ADDRESS	4	*	Reserved

Offset Hex	Type	Len	Name (Dim)	Description
(D0)	ADDRESS	4	AFDMSVC	Domain mgr SVC
(D4)	ADDRESS	4	AFCBDMAN	DM ENF Anchor(-->DMAFS)
(D8)	ADDRESS	4	AFRXSVC	RX domain SVC routine
(DC)	ADDRESS	4	AFRXANCR	RX domain Anchor
(E0)	CHARACTER		*	Ensure Double-Word length.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	AFTSTART	Authorised Functions Trailer
(0)	HALFWORD	2	AFTLENG	Length of AFCB Trailer.
(2)	BITSTRING	1	AFTFLG1	Flag Byte.

NOTE that the following flag (AFTQR) been renamed from AFTMAIN, which indicated job-step from 3.1, but QR pre-3.1. It was never referenced from 3.1 and has now reverted to its original use

	1... ....		AFTQR	AFT for the QR TCB
	.1.. ....		AFTEXCI	AFCB belongs to an EXCI env
(3)	BITSTRING	1	*	Reserved
(4)	ADDRESS	4	AFTAFCS	Address of AFCS.
(8)	ADDRESS	4	AFTKTCB	Address of Kernel TCB Block.
(C)	ADDRESS	4	*	Reserved
(10)	CHARACTER		*	Ensure Double-Word length.

**AUTHORISED FUNCTION COMMON CONTROL BLOCK**

The authorised function common control block (AFCS) is used to control the authorised functions of the operating system. It is an anchor for the storage that can be shared by tasks using the CICS SVC paths. There is one AFCS per CICS address space. Each AFCB points to the single AFCS. Storage for the AFCS is obtained at initialization by DFHCSVC (MVS getmain from key 0 subpool 253), invoked from the Kernel.

Offset Hex	Type	Len	Name (Dim)	Description	
(0)	STRUCTURE	136	DFHAFCS	Auth Functions Common CB.	
(0)	CHARACTER	4	AFCSID	Eye-catcher: 'AFCS'	
(4)	UNSIGNED	1	AFCSVER	Version Number: 1, now.	
(5)	BITSTRING	1	AFCS_FLAGS	Various Flags	
#	1... ....		AFCS_ARM_REGISTERED	ARM register status	
#				<b>APAR PQ33485</b>	
#				added AFCS_3QSSBKND_XM_SUPPORTED	
#	.1.. ....		AFCS_3QSSBKND_XM_SUPPORTED	When 1, DFH3QSS's back-end routine resides in commonly-addressable storage and supports callers in cross-memory mode (PASN == HASN)	
(6)	HALFWORD	2	AFCSLEN	Length of this Block.	
(8)	ADDRESS	4	AFCSKCB	Kernel Anchor.	
(C)	HALFWORD	2	AFCSCSVC	CICS Service SVC: X'0ANN'.	
(E)	UNSIGNED	1	AFCSXRFD	-0 => Some WTI Services Disabled	
(F)	UNSIGNED	1	AFCS_CICS_KEY	CICS key N in X'N0' format	
(10)	ADDRESS	4	AFCSSEC	Security Block Anchor.	
(14)	ADDRESS	4	AFCSDSP	Dispatcher global anchor (DSAUSB)	
(18)	ADDRESS	4	AFCSCSAA	AP Domain CSA Address.	
(1C)	CHARACTER	8	AFCSGAPD	Generic Applid.	
(24)	CHARACTER	8	AFCSAPD	Specific Applid.	
(2C)	CHARACTER	8	AFCSCLTN	CLT Name.	
(34)	ADDRESS	4	AFCSMFI	Monitoring Block Anchor.	
(38)	CHARACTER	8	AFCSAXIN	Alternate Xrf Ids Table Name	
(40)	ADDRESS	4	AFCSDXHP	-> DXH (SM domain)	
(44)	ADDRESS	4	AFCSDMAN	-> DFHDMAPS (ENF anchor)	
(48)	BITSTRING	4	AFCSCTKN	MVS WLM Connect token	
(4C)	ADDRESS	4	AFCS_CEECTCB	A(CEECTCB (LE init module))@LJC	
#				<b>APAR PQ33485</b>	
#				replaced the next fourteen field descriptions	
#	(50)	FULLWORD	4	*	Reserved for CICS 3.3 SMSVC (DO NOT USE)
#	(54)	FULLWORD	4	*	Reserved for CICS 3.3 SMSVC (DO NOT USE)
#	(58)	FULLWORD	4	*	Reserved for CICS 3.3 SMSVC (DO NOT USE)
#	(5C)	FULLWORD	4	*	Reserved for CICS 3.3 SMSVC (DO NOT USE)
#	(60)	FULLWORD	4	*	Reserved for CICS 3.3 SMSVC (DO NOT USE)
#	(64)	FULLWORD	4	*	Reserved for CICS 3.3 SMSVC (DO NOT USE)
#	(68)	FULLWORD	4	*	Reserved for AFCS_CEECTCB, whose current field is used by SMSVC in CICS 3.3
#	(6C)	FULLWORD	4	AFCS_3QSSBKND	A(Back-end module for DFH3QSS) No such module exists yet, but this slot must be kept for its use
#	(70)	FULLWORD	4	*	Reserved for future use
#	(74)	FULLWORD	4	*	Reserved for future use
#	(78)	FULLWORD	4	*	Reserved for future use

Offset Hex	Type	Len	Name (Dim)	Description
# (7C)	FULLWORD	4	*	Reserved for future use
# (80)	ADDRESS	4	*	Reserved for future use
# (84)	ADDRESS	4	*	Reserved for future use
(88)	CHARACTER		*	alignment

### Constants

Len	Type	Value	Name	Description
1	DECIMAL	1	AFVER1	AFCB version (Field AFVER) - CICS 1.7, 2.1
1	DECIMAL	2	AFVER2	AFCB version (Field AFVER) - CICS 3.1

## AFCT Application file control table

CONTROL BLOCK NAME = DFHAFCTP  
 DESCRIPTIVE NAME = CICS/ESA Application File Control Table.  
 FUNCTION =  
 Definition of a file to AP.  
 The AFCT belongs to the AP domain. It defines local and remote files that application programs can use.  
 There is one entry per file.  
 Each AFCT entry (AFCTE) for a LOCAL file has a corresponding entry in the FCT owned by File Control.  
 AFCTEs for REMOTE files do not have FCT entries.  
 LIFETIME =  
 Created by DFHFRCR during initialization from either the assembled FCT or the definition on the catalog.  
 Also created / updated by RDO INSTALL of file definition by DFHAFMT.  
 STORAGE CLASS =  
 File Control general above the line subpool.  
 LOCATION =  
 By DFHAFMTM FUNCTION(INQUIRE\_FILE) call to DFHAFMT.  
 Located Internally by DFHFCEI in file request processing.  
 INNER CONTROL BLOCKS =  
 None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
 None  
 DATA AREAS =  
 None  
 CONTROL BLOCKS =  
 None  
 GLOBAL VARIABLES (Macro pass) =  
 None  
 Application File Control Table Entry

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	88	DFHAFCTE	AFCT definition
Common part of table entry				
(0)	CHARACTER	32	AFCTCOMM	
(0)	CHARACTER	8	AFCTEID	Block identifier - >AFCTE<
(0)	CHARACTER	8	AFCTEGRP	(RDO GROUP name at assembly)
(8)	CHARACTER	8	AFCTNAME	Local name of file
(10)	HALFWORD	2	AFCTELEN	Length of this entry
File status information				
(12)	BITSTRING	1	AFCTSTAT	Status byte
	1... ..		AFCTREMT	REMOTE indicator
	.1.. ..		*	reserved
	..1. ....		*	reserved
	...1 ....		*	reserved
	.... 1...		*	reserved
	.... .1..		*	reserved
	.... ..1		*	reserved
	.... ...1		*	reserved
(13)	UNSIGNED	1	*	Reserved
Local file token				

Offset Hex	Type	Len	Name (Dim)	Description
(14)	CHARACTER	8	AFCTCNCT	FC_CONNECT_TOKEN
(14)	ADDRESS	4	AFCTCNCP	Pointer part of token
(18)	FULLWORD	4	AFCTCNCN	Count part of token
(1C)	FULLWORD	4	*	Reserved
End of common part of table entry Remote file information extension				
(20)	CHARACTER	56	AFCTRMTE	Remote AFCT overlay
(20)	CHARACTER	8	AFCTRNAM	Name of file on remote system
(28)	CHARACTER	4	AFCTRSYS	Name of remote system
Statistics fields				
(2C)	FULLWORD	4	AFCTRDEL	Number of deletes
(30)	FULLWORD	4	AFCTREAD	Number of reads
(34)	FULLWORD	4	AFCTGETU	Number of get updates
(38)	FULLWORD	4	AFCTWRA	Number of adds
(3C)	FULLWORD	4	AFCTWRU	Number of updates
(40)	FULLWORD	4	AFCTBRWS	Number of browses
(44)	FULLWORD	4	AFCTBRWU	Number of upd. browses
Data information for remote transfer				
(48)	HALFWORD	2	AFCTRRSZ	Record size
(4A)	UNSIGNED	1	AFCTRKLN	Key length
(4B)	BITSTRING	1	*	Flags
	1... ..		AFCT_NOT_AUTH	Last CONNECT attempt failed with 'not authorised'
	.1.. ....		AFCT_OPEN	Connected to remote SDT
	..1. ....		AFCT_CONN_FAIL	Last CONNECT attempt failed - retry later.
	...1 ....		AFCT_LINK_FAIL	Last CONNECT attempt failed link security check
	.... 1...		AFCT_408_ISSUED	Message 0408 issued - shipped request was successful
	.... .1..		AFCT_408_NEEDED	Message 0408 needed if shipped request is successful
	.... ..1.		AFCT_FORCE	Force users off
	.... ..1		*	Reserved
(50)	CHARACTER	8	AFCT_STCK	Value of shared table
(50)	UNSIGNED	4	AFCT_LH_STCK	clock at last CONNECT attempt.
(54)	CHARACTER	4	AFCT_LINK_ERROR	CONNECT link fail error

## Constants

Len	Type	Value	Name	Description
2	DECIMAL	32	AFCTELLN	
Length of remote file entry				
2	DECIMAL	88	AFCTERLN	
Control block id				
8	CHARACTER	>AFCTE<	AFCT_ENTRY_ID	Eye catcher

## AID Automatic initiate descriptor

CONTROL BLOCK NAME = DFHAIDDS  
 DESCRIPTIVE NAME = CICS Automatic Initiate Descriptor (AID).  
 FUNCTION =  
 LIFETIME =  
 STORAGE CLASS =  
 LOCATION =  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
 DATA AREAS =  
 CONTROL BLOCKS =  
 GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	148	DFHAIDDS	AID control block
(0)	CHARACTER	16	AIDPRFX	AID prefix
(0)	UNSIGNED	2	AIDLEN	AID length
(2)	CHARACTER	6	AIDBLKID	Eye-catcher ('>DFHAP')
(8)	CHARACTER	8	AIDBLKNM	Control block name ('AID')
(10)	CHARACTER	132	AIDBODY	AID body
(10)	ADDRESS	4	AIDCHNF	Forward chain pointer
(14)	ADDRESS	4	AIDCHNB	Backward chain pointer
(18)	CHARACTER	124	AIDDATA	AID data

### Substructure of AIDDATA

Offset Hex	Type	Len	Name (Dim)	Description
(18)	STRUCTURE	128	AIDDATA_STRUCTURE	
(18)	CHARACTER	4	AIDTRMID	Terminal id
(1C)	CHARACTER	4	AIDTRNID	Transaction identification
(20)	CHARACTER	1	*	Reserved
(21)	CHARACTER	4	AIDSHSYS	Shipped via sysid
(25)	CHARACTER	4	AIDCURTR	Current terminal id
(29)	CHARACTER	4	AIDDEST	TD destination
(2D)	CHARACTER	1	AIDTYPE	Type of AID
(2E)	BITSTRING	1	AIDSTATI	AID status indicator
	1... ..		AIDPRIV	AID is for privileged allocate
	.1.. ..		AIDSENT	This AID has been sent to TOR
	..1. ....		AIDCANCL	Cancel remote AID
	...1 ....		AIDROUTP	AID not yet routed to AOR
	.... 1...		AIDSHIPD	Prevent duplicate send to tor
	.... .1..		AIDREMX	AID for a remote transaction
	.... ..1.		AIDREMT	AID for a remote terminal
	.... ...1		AIDSTTSK	Task initiated
(2F)	CHARACTER	1	*	Reserved
(30)	ADDRESS	4	AIDTCTA	TCTTE address
(30)	ADDRESS	4	AIDTCTSA	Skeleton TCTTE addr if terminal remotely owned
(34)	CHARACTER	8	AIDDATID	Data identification
(34)	CHARACTER	2	*	Request id
(36)	CHARACTER	1	*	x'FD' for BMS
(37)	CHARACTER	4	AIDMCRID	MCR identifier
(37)	CHARACTER	3	AIDMSGID	Msg identifier
(3A)	CHARACTER	1	AIDTC	Terminal code
(3B)	CHARACTER	1	*	Reserved
(3C)	CHARACTER	8	AIDOVLY	overlay area
(3C)	CHARACTER	8	AIDNETSY	Netname/Sysid from XICTENF exit
(3C)	CHARACTER	8	AIDNETNM	Netname from XICTENF exit (from ICP to ALP via ICE)
(3C)	CHARACTER	8	*	Reserved
(3C)	CHARACTER	4	*	Reserved
(40)	CHARACTER	4	AIDSYSID	Sysid from XICTENF exit (from ICP to ALP via ICE)
(3C)	CHARACTER	8	*	AIDOVLY when AIDTYPE = AIDISC
(3C)	ADDRESS	4	AIDTCAA	Address of suspended TCA
(40)	CHARACTER	4	*	Reserved
(44)	CHARACTER	8	AIDMODEN	LU6.2 mode name
(4C)	CHARACTER	1	AIDTR	Transaction routing indicator
(4D)	CHARACTER	1	AIDFS	Function shipping indicator
(4E)	BITSTRING	1	AIDFLAGS	Flags
	1... ..		AIDSZ	Startcode SZ for FEPI
	.1.. ..		AIDNPUR	Non purgeable allocate aid
	..1. ....		AIDPURGD	Aid purged



Offset Hex	Type	Len	Name (Dim)	Description
	.... 1...		AIDDYNTR	Dynamic transaction
	.... 1...		AIDRECOV	PUT AID with recoverable TS data
	.... .1..		AIDCRSRT	CRSR rescheduling bit
	.... .1..		AID_REROUTED	Aid is being rerouted to another TOR
#	.... .1..		AIDRTST	Routable start
#				APAR PQ26539
#				added AIDFLAG2 and AIDMRSCH
#	(4F) BITSTRING	1	AIDFLAG2	Flags
#	1... ..		AIDMRSCH	AID may be re-scheduled
#	.111 1111		*	Reserved
	(50) CHARACTER	4	AIDSYST	System id of first system in route to terminal owner (usually = terminal owner)
	(54) CHARACTER	4	AIDTIMST	Time stamp
	(58) CHARACTER	4	AIDSYSX	System id of first system in route to transaction owner (usually = transaction owner)
	(5C) BITSTRING	1	AIDVER	Verification flags for aid
	1... ..		AIDVERUN	Unchained
#	.1.. ..		AIDVERFR	Freed aid's storage
#				APAR PQ26157
#				added AIDLTRM
#	.1. ....		AIDLTRM	AIDTRMID unknown
#	.1. 1111		*	Reserved
	(5D) CHARACTER	8	AID_TERMINAL_ NETNAME	Netname of target term
	(65) CHARACTER	8	AID_TOR_ NETNAME	Netname of TOR
	(6D) CHARACTER	8	AID_TOR_ NETNAMEO	Original TOR netname
	(76) HALFWORD	2	AID_START_ DATA_LEN	Start data length
#	(78) CHARACTER	16	*	Reserved
#				APAR PQ26157
#				added AIDLTID
#	(88) CHARACTER	4	AIDLTID	Unknown TERMID
	(8C) CHARACTER	12	AIDVDATA	Variant structure, depending on AIDTYPE
	(8C) CHARACTER	12	AIDBMS_ STRUCTURE	AIDVDATA when AIDTYPE=AIDBMS
	(8C) BITSTRING	1	AIDOCTYP	Type of operator check reqd
	1111 11..		*	Reserved
	.... .1..		AIDOCCL	Check operator class
	.... .1..		AIDOCID	Check operator id
	(8D) CHARACTER	3	AIDOPCHK	Operator check field
	(90) CHARACTER	4	AIDBMSTS	BMS time stamp
	(94) BITSTRING	1	AIDBMSCC	BMS control information
	1... ..		AIDBMSMT	Message title is present
	.111 1111		*	Reserved
	(95) CHARACTER	3	*	Reserved
	(8C) CHARACTER	12	AIDCRRD_ STRUCTURE	AIDVDATA when AIDTYPE=AIDCRRD
	(8C) CHARACTER	8	AIDNETNA	Netname
	(94) CHARACTER	4	*	Reserved
	(8C) CHARACTER	12	AIDPUT_ STRUCTURE	AIDVDATA when AIDTYPE = AIDPUT
	(8C) CHARACTER	8	*	Reserved
	(94) ADDRESS	4	AID_TRANNUM	TRANNUM of transaction that has been attached for this AID

## Constants

Len	Type	Value	Name	Description
4	DECIMAL	148	AIDAD	AID length
Possible values of AIDTYPE				
1	HEX	80	AIDBMS	BMS - schedule request
1	HEX	50	AIDPUT	PUT - start with data
1	HEX	40	AIDINT	INT - start without data
1	HEX	10	AIDTDP	TDP - schedule request
1	HEX	08	AIDISC	ISC - allocate request
1	HEX	04	AIDCRRD	REMDL - remote delete
Values used in DFHIC get wait requests				
1	DECIMAL	0	AID_GW_DATA	Resumed due to new data
1	DECIMAL	4	AID_GW_SHUTDOWN	Resumed due to shutdown

# APLI Program language block

-

This copybook contains the declarations for the Program Language Block.

CONTROL BLOCK Name = DFHLILBC  
 DESCRIPTIVE NAME = CICS Program Language Block  
 This Copy Book describes the Program Language Block  
 FUNCTION = Holds Language details needed during the running of an application program.  
 LIFETIME = Task  
 Storage CLASS = CICS.  
 Notes :  
 Dependencies = S/370  
 Restrictions =  
 Module Type = Control block definition

Offset Hex	Type	Len	Name (Dim)	Description	
#				<b>APAR PQ39052</b>	
#				changed length of PLB	
#	(0)	STRUCTURE	76	PLB	
	(0)	CHARACTER	8	PLB_PROGRAM_NAME	
	(8)	FULLWORD	4	PLB_USE_COUNT	
	(C)	CHARACTER	1	PLB_SUNDRY_FLAGS	
	(C)	BITSTRING	1	*	
		1... ..		PLB_DYING	
		.1. ....		PLB_DATALOC_ ANY	datalocation any applies
		.1. ....		PLB_EXECKEY_ CICS	execution key = cics
#				<b>APAR PQ34321</b>	
#				replaced PLB_AMODE31 with PLB_JAVA	
#		...1 ....		PLB_JAVA	Java program object, or JVM program
		.... 1...		PLB_ENQ_LOCK	ENQ lock is active
		.... .1..		PLB_JVM	program runs under Java Virtual Machine
		.... .1.		PLB_JVM_DEBUG	JVM debug
#				<b>APAR PQ31328</b>	
#				added PLB_HOTPOOL	
#		.... ..1		PLB_HOTPOOL	program hotpool
	(D)	CHARACTER	1	PLB_USERS_ LANGUAGE	lang as defined by user
	(E)	CHARACTER	2	PLB_PROGRAM_MODE	TCB mode for program
	(10)	ADDRESS	4	PLB_LOAD_POINT	
	(10)	ADDRESS	4	PLB_JVM_ CLASS_PTR	address of class data for JVM programs
#				<b>APAR PQ31328</b>	
#				added PLB_MAIN_CLASS_PTR	
#	(10)	ADDRESS	4	PLB_MAIN_CLASS_PTR	main class name in JAVA program object
#	(14)	ADDRESS	4	PLB_ENTRY_POINT	
#				<b>APAR PQ31328</b>	
#				added PLB_MAIN_CLASS_LEN	
#	(14)	ADDRESS	4	PLB_MAIN_CLASS_LEN	main class name length in JAVA program object
	(18)	FULLWORD	4	PLB_PROGRAM_ LENGTH	
	(1C)	CHARACTER	28	PLB_PGMINFO2	ERTLI program extension
	(1C)	FULLWORD	4	PLB_PRGINLEN	ERTLI extension length
	(20)	CHARACTER	4	PLB_RWA31	31bit run-unit w/a length
	(20)	BITSTRING	1	*	
		1... ..		PLB_RWA31_ ABOVE	ON=31-bit stg reqd (C/370)
	(21)	UNSIGNED	3	PLB_RWA31_LEN	
	(24)	FULLWORD	4	PLB_RWA24	24bit run-unit w/a length
	(28)	CHARACTER	4	PLB_LANGUAGE	language flags
	(28)	BITSTRING	1	PLB_LANG1	
		1... ..		PLB_CEE_ ENABLED	
		.1. ....		PLB_LANGUAGE_ KNOWN	
		..1. ....		PLB_MIXED_ LANGUAGE	
		...1 ....		PLB_COMPATIBILITY	
		.... 1...		PLB_CEE_ EXECUTABLE	
		.... .1..		PLB_ASSEMBLER	
		.... .1.		PLB_C370	
		.... ..1		PLB_COBOL2	
	(29)	BITSTRING	1	PLB_LANG2	
		1... ..		PLB_OSCOBOL	
		.1. ....		PLB_PLI	

Offset Hex	Type	Len	Name (Dim)	Description
	..11 1111		*	reserved
(2A)	BITSTRING	1	*	reserved
(2B)	BITSTRING	1	*	reserved
(2C)	FULLWORD	4	PLB_MEMID	language member id
(30)	ADDRESS	4	PLB_GLOBAL_OPTIONS	addr of CEECOPT
(34)	ADDRESS	4	PLB_USER_OPTIONS	addr of CEEUOPT
(38)	CHARACTER	12	OSCOBOL_EXTENSION	
(38)	UNSIGNED	2	PLB_TGT_SIZE	size of Task Global Table
(3A)	UNSIGNED	2	PLB_TGT_WS_SIZE	size of Task Global Table + Working Storage
(3C)	ADDRESS	4	PLB_TGT_ADDRESS	original TGT address
(40)	HALFWORD	2	PLB_BLL_CELL_DISP	offset to 1st BLL cell
(42)	CHARACTER	2	PLB_OSCOBOL_VERSION	compiler version

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	257	PLB_JVM_CLASS	
(0)	HALFWORD	2	PLB_JVM_CLASS_LENGTH	
(2)	CHARACTER	255	PLB_JVM_CLASS_DATA	

## APSTG Application domain global statistics

CONTROL BLOCK NAME = DFHAPSTG  
 DESCRIPTIVE NAME = CICS AP Statistics Global Storage Block  
 FUNCTION = This control block contains the time at which AP domain statistics were last reset and also a map of statistics resource types, statistics modules, module entry points and module status to enable DFHAPST to manage the collection of statistics in the AP domain.

This module is part of the APPLICATION DOMAIN (AP).  
 This control block is created the first time that DFHAPST is called to perform a statistics function in the AP domain. The control block persists until CICS is shutdown (whether literally or 'logically' via the 'end-of-day' command).

LIFETIME = This control block is created by DFHAPST the first time it is called. The control block is not explicitly deleted by DFHAPST but the pointer to it is lost when CICS is terminated.

STORAGE CLASS = n/a  
 LOCATION = The address field CSAAPSTG in the CSAOPFL points to the beginning of this control block.

INNER CONTROL BLOCKS = none

NOTES :

DEPENDENCIES = S/370  
 RESTRICTIONS = n/a  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = none  
 DATA AREAS = none  
 CONTROL BLOCKS = none  
 GLOBAL VARIABLES (Macro pass) = none

AP STATISTICS GLOBAL STORAGE BLOCK, consists of:  
 Standard header tag so that the block can be found in storage.  
 Last-reset-time field which contains the time in MVS STCK format when statistics counters in the AP domain were last reset.  
 A map of:  
 Restype---->  
     Module---->  
         Entry point---->  
             Status

The map relates resource types to the modules that access the statistics for those resource types and to an entry point for the module and to a status which shows whether statistics for that resource type/id are available.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	14600	APST_GLOBAL_STORAGE	
(0)	CHARACTER	16	STORAGE_PREFIX	
(0)	HALFWORD	2	STORAGE_LENGTH	
(2)	CHARACTER	1	STANDARD_ARROW	
(3)	CHARACTER	3	STANDARD_DFH	
(6)	CHARACTER	2	STORAGE_DOMAIN_ID	

Offset Hex	Type	Len	Name (Dim)	Description
(8)	CHARACTER	8	STORAGE_BLOCK_NAME	
(10)	CHARACTER	8	AP_LAST_RESET_TIME	
(18)	CHARACTER	24	RESOURCE_STATE_MAP	
(18)	CHARACTER	8	RESOURCE_NAME	
(20)	CHARACTER	8	RESOURCE_MODULE	
(28)	ADDRESS	4	RESOURCE_MODULE_ENTRY_POINT	
(2C)	BITSTRING	1	RESOURCE_STATUS	
(108)	CHARACTER	14336	STATS_BUFFER_LARGE	

## Constants

Len	Type	Value	Name	Description
1	CHARACTER	>	ARROW	
Resource names are <=8 char, padded to 8 char with blanks Module names are <=8 char, padded to 8 char with blanks Status of resource type/id can be one of the following				
1	BIT	00000000	NO_STATS_AVAILABLE	
1	BIT	01000000	ID_STATS_UNAVAILABLE	
1	BIT	10000000	TYPE_STATS_UNAVAILABLE	
1	BIT	11000000	ALL_STATS_AVAILABLE	
These two variables are used to define the storage required for the AP stats control block. They are used in the call to Storage Domain to obtain the storage.				
8	CHARACTER	APSTGBST	CONTROL_BLOCK_NAME	
2	DECIMAL	14600	CONTROL_BLOCK_LENGTH	
Total number of mappings is the number of resources in the AP domain for which statistics are collected.				
2	DECIMAL	10	TOTAL_MAPPINGS	*
Offsets in mapping used for module loading optimisation.				
2	DECIMAL	6	TERMINAL_MAP_OFFSET	*
2	DECIMAL	8	VTAM_MAP_OFFSET	*

## APXDC Application domain trandef extension

CONTROL BLOCK NAME = DFHAPXDC  
 DESCRIPTIVE NAME = CICS (AP) Transaction definition extension  
 FUNCTION = This copybook describes the AP domain transaction definition related control block.  
 This copy book describes the control block which is anchored from the AP domain token in the transaction definition. The main purpose of the control block is to allow AP domain to optimize AP actions at attach/detach.  
 There will be one instance of this control block for every transaction definition instance in the region.  
 LIFETIME = associated with a transaction definition instance  
 STORAGE CLASS = SUBPOOL(CSAAPXDS)  
 CICS key, 31 bit, Fixed length  
 LOCATION = This control block addressed via the first word in the AP domain transaction definition related token and can be addressed using the DFHMXDI macro.  
 INNER CONTROL BLOCKS = none  
 NOTES :  
 DEPENDENCIES = S/390  
 RESTRICTIONS = none  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = none  
 DATA AREAS = none  
 CONTROL BLOCKS = none  
 GLOBAL VARIABLES (Macro pass) = none

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	72	DFHAPXDC	AP trandef extension
(0)	CHARACTER	16	APXD_EYE	Standard eye catcher
(0)	HALFWORD	2	APXD_EYE_LEN	control block length
(2)	CHARACTER	14	APXD_EYE_NAME	>DFHAP_APXD
(10)	FULLWORD	4	APXD_COUNT	check count for serviceability
(14)	BITSTRING	1	APXD_FLAGS1	Various flags
			1... ..	Txn uses CEE work area
			.1.. ..	Txn uses taskdataloc(any)
(15)	BITSTRING	1	APXD_TDLA	Reserved
(16)	UNSIGNED	2	APXD_USTG_SIZE	total size of AP_USER_TXN
(18)	CHARACTER	8	APXD_SUBPOOL	TCA subpool token
(20)	CHARACTER	8	APXD_PPF	Profile area
(20)	UNSIGNED	4	APXD_PPF_CHANGECOUNT	validation counter
(24)	ADDRESS	4	APXD_PPF_PTR	profile address
(28)	CHARACTER	8	APXD_TRPPF	Tran routing profile area
(28)	UNSIGNED	4	APXD_TRPPF_CHANGECOUNT	validation counter
(2C)	ADDRESS	4	APXD_TRPPF_PTR	profile address
(30)	CHARACTER	8	APXD_TCTS	Tran routing tcse area
(30)	UNSIGNED	4	APXD_TCTS_CHANGECOUNT	validation counter
(34)	ADDRESS	4	APXD_TCTS_PTR	TCSE address
(38)	CHARACTER	8	APXD_D2_TOKEN	CICS/DB2 token
(38)	UNSIGNED	4	APXD_D2_TOKEN_COUNT	validation counter
(3C)	ADDRESS	4	APXD_D2_TOKEN_PTR	RCTE addr (entry pool cmd)L1A
(40)	CHARACTER	8	APXD_RUWA_TOKEN	LE ruwa token
(40)	UNSIGNED	4	APXD_RUWA_ONESIZE	size of one ruwa
(44)	UNSIGNED	4	APXD_RUWA_POOLSIZ	size of ruwa pool
(48)	CHARACTER		*	end

**ATD Attach table**

CONTROL BLOCK NAME = DFHXTSPS  
 DESCRIPTIVE NAME = CICS (TERMSHR) TRANSFORMER  
 FUNCTION =  
     DSECT for PLAS callers of DFHXTSP  
 LIFETIME =  
     Same as lifetime of caller's stack storage  
 STORAGE CLASS =  
     STACK  
 LOCATION =  
     In stack-storage of XTP's caller  
 INNER CONTROL BLOCKS =  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
     DATA AREAS =  
     CONTROL BLOCKS =  
     GLOBAL VARIABLES (Macro pass) =

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	124	DFHXTSPS	
(0)	CHARACTER		XTSTART	
(0)	CHARACTER		XTSBEGIN	
(0)	ADDRESS	4	XTSATEL	ADDR OF TCTTE TO BE USED FOR THIS CONVERSATION
(4)	ADDRESS	4	XTSATIOA	ADDR OF TIOA FOR REQUEST TO BE SHIPPED ACROSS LINK
(8)	ADDRESS	4	XTSATTES	ADDR OF SURROGATE TCTTE
(8)	ADDRESS	4	XTSATTEU	ADDR OF USERS TCTTE
(C)	ADDRESS	4	XTSMCRA	ADDRESS OF MCR
(10)	ADDRESS	4	XTSLUCPL	Address of LUC parameter list
(14)	CHARACTER	6	*	
(14)	ADDRESS	4	XTSINBPS	-> ZC BPS FOR INSTALL
(14)	CHARACTER	6	XTSPAGDS	PAGE DATA
(14)	ADDRESS	4	XTSPAGDA	ADDRESS OF PAGE DATA
(18)	CHARACTER	2	XTSPLDCM	LDC mnemonic for BMS page
(1C)	CHARACTER	2	XTSLDCM	LDC mnemonic for non BMS
(1E)	CHARACTER	1	XTSFORMN	TRANSFORMATION REQUIRED
(1F)	BITSTRING	1	XTSRQFRM	REQUEST FORMAT
(20)	CHARACTER	31	XTSRTEDS	ROUTE DATA
(20)	ADDRESS	4	XTSTTLA	ADDRESS OF TITLE
(24)	ADDRESS	4	XTSRTELA	ADDRESS OF ROUTE LIST
(28)	CHARACTER	2	XTSREQID	BMS REQUEST ID
(2A)	CHARACTER	12	XTSFQERT	FULLY QUALIFIED TERMINAL ID OF BMS ERROR TERMINAL ( IE NETNAME.TERMID )
(36)	CHARACTER	2	XTSETLDC	BMS ERRTERM LDC
(38)	CHARACTER	2	XTSMCFL	MESSAGE CONTROL FLAGS
(38)	BITSTRING	1	XTSMCFL1	MESSAGE CONTROL FLAGS 1
	1... ..		XTSRELSE	CTRL=RELEASE, OVERLAYS TITLE
	.1. ....		XTSWBCUR	WRBRK=CURRENT, EQU MCRWBCUR.
	.1. ....		XTSWBALL	WRBRK=ALL, EQU MCRWBALL.
	...1 ....		XTSEODOP	EODPURG=OPER, EQU MCREODOP.
	... 1..		XTSPAGE	CTRL=PAGING, EQU MCRPAGE.
	.... .1..		XTSAUTOP	CTRL=AUTOPAGE, EQU MCRAUTOP.
	.... .1.		*	
	.... ...1		XTSRRTAIN	CTRL=RETAIN, EQU MCRRTAIN.
(39)	BITSTRING	1	XTSMCFL2	MESSAGE CONTROL FLAGS 2
	1... ..		*	
	.1. ....		*	
	.1. ....		*	
	...1 ....		*	
	.... 1..		XTSSCSA	ALTERNATE SCREEN SIZE USED, EQU MCRSCSA.
	.... .1..		*	
	.... ...1		XTSBMSSM	BMS SYSTEM MESSAGE, EQU MCRBMSSM.
	.... ...1		*	
(3A)	BITSTRING	1	XTSMCTRL	FLAGS FOR TCAMSTR6
(3B)	BITSTRING	1	XTSRSDV	RESERVED
(3C)	CHARACTER	3	XTSOCL	OPERATOR CLASS
(3F)	CHARACTER	4	XTSSYSID	
(43)	CHARACTER	6	XTSTPOS1	COPY OF TCATPOS1 etc.
(49)	CHARACTER	2	XTSTPCON	COPY OF TCATPCON & TCATPOC3 *
(49)	CHARACTER	1	*	
(4A)	CHARACTER	1	XTSTPOC3	COPY OF TCATPOC3
(4B)	CHARACTER	1	XTSRPOS2	REQUEST SHIPPED
(4C)	BITSTRING	1	XTSTCOPC	TC OPERATION CODE
	1... ..		*	
	.1. ....		*	
	.1. ....		*	
	...1 ....		XTSTCRD	TC READ
	.... 1..		*	
	.... .1..		*	

Offset Hex	Type	Len	Name (Dim)	Description
	.... ..1.		XTSTCCNV	TC CONVERSE
	.... ...1		XTSTCWRT	TC WRITE
(4D)	BITSTRING	1	XTSSTAT	TRANSFORM STATUS
	1... ....		XTSSTATR	REQUEST TRANSFORM
	.1.. ....		XTSSTATA	ATTACH TRANSFORM
	..1. ....		XTSSTATD	DETACH TRANSFORM
	...1 ....		XTSSTATF	FLUSH TRANSFORM
	.... 1... *		*	
	.... ..1. *		*	
	.... ...1		XTSSTAT	Time-out supported
	.... ...1		XTSSTATC	Terminal-owner is cold
(4E)	CHARACTER	4	XTSTRNID	REMOTE TRANSACTION ID
(52)	BITSTRING	1	XTSZIRSP	ZC RESPONSE
(53)	CHARACTER	8	XTSTPPNM	Prog. name for ISSUE LOAD
(5C)	CHARACTER	10	*	
(5C)	CHARACTER	8	XTSLUNAM	LU name of target system
(64)	UNSIGNED	2	XTSDATAL	Length of logon data
(66)	CHARACTER	1	XTSLOGEX	LOGMODE EXISTENCE
(67)	CHARACTER	8	XTSLOGMD	LOGMODE FOR NEW SESS
(70)	FULLWORD	4	XTSDATAA	Address of logon data
(74)	CHARACTER	8	XTSTNNAM	Terminal netname

## Constants

Len	Type	Value	Name	Description
1	HEX	00	XTSTRAN1	Transformation 1
1	HEX	02	XTSTRAN2	Transformation 2
1	HEX	04	XTSTRAN3	Transformation 3
1	HEX	06	XTSTRAN4	Transformation 4
Values of XTSRQFRM				
1	HEX	00	XTSRQRLY	Relay
TCTTE address for user terminal/surrogate is passed in XTSATTEU. Data is sent over the link with a X'438000' FMH.				
1	HEX	01	XTSRQTIQ	Inquire terminal
The terminal entry associated with this conversation is INQUIRED.				
1	HEX	02	XTSRQTIN	Install terminal
Address of Builder Parameter Set is passed in XTSINBPS. The BPS is sent over the link with a X'438002' FMH. This is not supported as the FMH 43 following a Task Attach.				
1	HEX	03	XTSRQTDE	Delete terminal
The REMOTE entries named in the list (if any) attached to the system entry for the link TCTTE are to be deleted. This is only supported with a Task Attach.				
1	HEX	04	XTSRQZIR	ZC install response message

## A03 VTAM global statistics

CONTROL BLOCK NAME = DFHA03DS  
 DESCRIPTIVE NAME = CICS VTAM global Statistics.  
 FUNCTION = This DSECT describes VTAM global statistics.  
 The data described by this DSECT is placed in storage by DFHSTVT, one of the the statistics modules in the AP domain. It contains VTAM global statistics.  
 The same DSECT describes the system and user copies of the statistics. Several copies of the statistics may exist until the callers request has been satisfied.  
 LIFETIME = The storage area is created when a request for VTAM global stats is received. It is released when the caller has acknowledged receipt of the data .  
 LOCATION = Caller is passed a pointer to the storage.  
 INNER CONTROL BLOCKS = none  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = none  
 DATA AREAS = none  
 CONTROL BLOCKS = DFHTCTFX TCTVRAHC  
                   DFHTCTFX TCTVRANT  
                   DFHTCTTE TCTEDVSC  
                   DFHTCTFX TCTVDOC  
 GLOBAL VARIABLES (Macro pass) = none

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHA03DS	VTAM statistics (Global)
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	A03LEN	Length of data area
	...1 .1.1		A03IDE	"0021" VTAM global stats mask
(2)	ADDRESS	2	A03ID	VTAM global storage id
	.... ..1		A03VERS	"X'01" DSECT version number mask
(4)	CHARACTER	1	A03DVERS	VTAM stats version number
(5)	CHARACTER	3		Reserved
(8)		4	A03RPLXT	Times at RPL max
(C)		2	A03RPLX	Max RPLs posted
(E)	BITSTRING	2	A03VTSOS	VTAM SOS
(10)	HALFWORD	2	A03DOC	Dynamic open count
(12)	HALFWORD	2		Reserved
(14)	FULLWORD	4	A03LUNUM	Current LUs in session
(18)	FULLWORD	4	A03LUHWM	HWM LUs in session
(1C)	FULLWORD	4	A03PSIC	PRSS inquire count
(20)	FULLWORD	4	A03PSNC	PRSS nib count
(24)	FULLWORD	4	A03PSOC	PRSS opndst count
(28)	FULLWORD	4	A03PSUC	PRSS unbind count
(2C)	FULLWORD	4	A03PSEC	PRSS error count
	..11 ....		A03END	""
	..11 ....		A03CLEN	""-A03LEN" Length of DSECT



## A04 Autoinstall statistics

CONTROL BLOCK NAME = DFHA04DS  
 DESCRIPTIVE NAME = CICS Autoinstall Statistics.  
 FUNCTION = This DSECT describes Autoinstall statistics.  
 + Shipped remote definition statistics.  
 The data described by this DSECT is placed in storage by DFHAPST, the statistics module in the AP domain.  
 It contains autoinstall statistics.  
 The same DSECT describes the system and user copies of the statistics. Several copies of the statistics may exist until the callers request has been satisfied.  
 LIFETIME = The storage area is created when a request for autoinstall global stats is received. It is released when the caller has acknowledged receipt of the data .  
 LOCATION = Caller is passed a pointer to the storage.  
 INNER CONTROL BLOCKS = none  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = none  
 DATA AREAS = none  
 CONTROL BLOCKS = DFHTCTFX TCTVADAT  
                   DFHTCTFX TCTVADRJ  
                   DFHTCTTE TCTVADLO  
                   DFHTCTFX TCTVADPK  
                   DFHTCTFX TCTVADPX  
                   DFHTCTFX TCTVADQT  
                   DFHTCTFX TCTVADQK  
                   DFHTCTFX TCTVADQX  
 GLOBAL VARIABLES (Macro pass) = none

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHA04DS	Autoinstall statistics (Global)
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	A04LEN	Length of data area
	...1 1...		A04IDE	"0024" Autoinstall global stats mask
(2)	ADDRESS	2	A04ID	Autoinstall global storage id
	.... ...1		A04VERS	"X'01" DSECT version number mask
(4)	CHARACTER	1	A04DVERS	stats version number
(5)	CHARACTER	3		Reserved
(8)	HALFWORD	2	A04VADAT	Total attempts
(A)	HALFWORD	2	A04VADSH	Times setlogon hold issued
(C)	FULLWORD	4	A04VADRJ	Total rejected
(10)	FULLWORD	4	A04VADLO	Total deleted
(14)	HALFWORD	2	A04VADPK	Peak concurrent attempts
(16)	HALFWORD	2	A04VADPX	Times peak reached
(18)	FULLWORD	4	A04VADQT	No. queued logons
(1C)	HALFWORD	2	A04VADQK	Peak of Q'd logons
(1E)	HALFWORD	2	A04VADQX	No. times peak is reached

Remote statistics - shipped definitions

(20)		4	A04RDINT	Shipped delete interval
(24)		4	A04RDIDL	Shipped delete idle time
(28)	FULLWORD	4	A04SKBLT	Remote terminals built
(2C)	FULLWORD	4	A04SKINS	Remote terminals installed
(30)	FULLWORD	4	A04SKDEL	Remote terminals deleted
(34)	FULLWORD	4	A04TIEXP	Times interval expired
(38)	FULLWORD	4	A04RDREC	# remdels received
(3C)	FULLWORD	4	A04RDISS	# remdels issued
(40)	FULLWORD	4	A04RDEDEL	# remdel deletes
(44)	FULLWORD	4	A04CIDCT	Current idle count
(48)	CHARACTER	8	A04CIDLE	Current idle time
(50)	CHARACTER	8	A04CMAXI	Current maximum idle time
(58)	FULLWORD	4	A04TIDCT	Total idle count
(5C)	CHARACTER	8	A04TIDLE	Total idle time
(64)	CHARACTER	8	A04TMAXI	Maximum idle time
	.11. 11..		A04END	***
	.11. 11..		A04CLEN	**-A04LEN" Length of DSECT

## A06 Terminal statistics

CONTROL BLOCK NAME = DFHA06DS  
 DESCRIPTIVE NAME = CICS Terminal Statistics.  
 FUNCTION = This DSECT describes the terminal statistics maintained in the AP domain.  
 The data represents the statistics maintained for each terminal. It is used by DFHAPST to map the data in the statistics domain call data buffer. It is also used by DFHSTUP and user programs to map the same data.  
 LIFETIME = Duration of the domain call.  
 LOCATION = Caller is passed a pointer to the head of the block.  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = None  
 CONTROL BLOCKS = DFHTCTTE TCTLENP  
 DFHTCTTE TCTTETI  
 DFHTCTTE TCTTENI  
 DFHTCTTE TCTTETO  
 DFHTCTTE TCTTETE  
 DFHTCTTE TCTTEOT  
 DFHTCTTE TCTTEOE  
 DFHTCTTE TCTTESVC  
 DFHTCTTE TCTETCNT  
 DFHTCTTE TCTEMCNT  
 DFHTCTTE TCTECCNT  
 DFHTCTTE TCTTETT  
 DFHTCTTE TCTEAMIB  
 GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHA06DS	Terminal Stats DSECT (RESID & TOTAL)
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	A06LEN	Length of data area
	.1. .1.		A06IDR	"34" Terminal RESID stats id mask
	.1.1 .1.		A06IDL	"82" BTAM line stats id mask.

The next field should be loaded with one of the two previous values

(2)	ADDRESS	2	A06ID	Terminal stats id
	.... .1		A06VERS	"X'01" DSECT version number mask
(4)	CHARACTER	1	A06DVERS	Terminal statistics version number
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	4	A06TETI	Terminal id
(C)	BITSTRING	1	A06TETT	Terminal type (cf TCTTTET)
(D)	BITSTRING	1	A06EAMIB	Access method (cf TCTEAMIB)
(E)	CHARACTER	2		Reserved
(10)		4	A06LENP	Number of polls
(14)	BITSTRING	4	A06TENI	Input messages
(18)	BITSTRING	4	A06TENO	Output messages
(1C)	BITSTRING	4	A06TEOT	Number of transactions
(20)	FULLWORD	4	A06CSVC	Storage violations
(24)	BITSTRING	4	A06TETE	Transmission errors
(28)	BITSTRING	4	A06TEOE	Transaction errors
(2C)	FULLWORD	4	A06TCNT	Pipeline messages (Total)
(30)	FULLWORD	4	A06SCNT	Pipeline messages (Groups)
(34)	HALFWORD	2	A06MCNT	Pipeline messages (Max consec)
(36)	HALFWORD	2		Reserved
(38)	CHARACTER	8	A06LUNAM	LU Name
(40)	CHARACTER	1	A06PRTY	Terminal Priority
(41)	CHARACTER	3		Reserved
(44)	FULLWORD	4	A06STG	TIOA Storage
(48)	CHARACTER	4	A06SYSID	Owning SYSID of terminal/session
(4C)	BITSTRING	8	A06ONTM	Autoinstall logon time (Local)
(54)	BITSTRING	8	A06OFFTM	Autoinstall logoff time (Local)
(5C)	BITSTRING	8	A06GONTM	Autoinstall logon time (GMT)
(64)	BITSTRING	8	A06GOFTM	Autoinstall logoff time (GMT)
	.11. 11..		A06END	***
	.11. 11..		A06CLEN	**-A06LEN" Length of DSECT

## A08 LSR pool statistics

CONTROL BLOCK NAME = DFHA08DS  
 DESCRIPTIVE NAME = CICS Statistics for LSR Pools.  
 FUNCTION = This data block describes the LSR Pool Statistics  
 for a specified LSR Pool and totals for all pools.  
 The data described here is placed in storage by DFHAPST.  
 This DSECT is also used by DFHSTUP and user programs to  
 to map the statistics block.  
 LIFETIME = The storage area is created when a request for AP  
 domain File Control statistics is received. It is  
 released when the caller has acknowledged receipt of  
 the data.  
 LOCATION = The caller is passed a pointer to the head of the block.  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = None  
 CONTROL BLOCKS = DFHFCTSR FCTSRPID  
 DFHFCSBK FSCBKCTD  
 DFHFCSBK FSCBKDTD  
 DFHFCSBK FCSBKLYL  
 DFHFCSBK FCSBKSTN  
 DFHFCSBK FCSBKHSW  
 DFHFCSBK FCSBKHAS  
 DFHFCSBK FCSBKBSZ  
 DFHFCSBK FCSBKBFN  
 DFHFCSBK FCSBKBFH  
 DFHFCSBK FCSBKFRD  
 DFHFCSBK FCSBKUIW  
 DFHFCSBK FCSBKNUW  
 GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHA08DS	LSRPOOL statistics (RESID & TOTALS)
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	A08LEN	Length of data area
	..1. .111		A08IDR	"39" LSR pool stats RESID id mask

The next field should be loaded with the previous value

(2)	ADDRESS	2	A08ID	LSR pool id
	.... .1		A08VERS	"X'01" DSECT version number mask
(4)	CHARACTER	1	A08DVERS	Statistics version number
(5)	CHARACTER	3		Reserved
(8)	ADDRESS	1	A08SRPID	LSR pool number
(9)	BITSTRING	1	A08FLAGS	Flags
	1... ..		A08IDSEP	"X'80" Separate index and data pools
(A)	CHARACTER	2		Reserved
(C)	CHARACTER	8	A08LBKCD	Time pool created (Local STCK)
(14)	CHARACTER	8	A08LBKDD	Time pool deleted (Local STCK)
(1C)	CHARACTER	8	A08GBKCD	Time pool created (GMT STCK)
(24)	CHARACTER	8	A08GBKDD	Time pool deleted (GMT STCK)
(2C)	HALFWORD	2	A08BKLYL	Max key length
(2E)	HALFWORD	2	A08BKSTN	No. of strings
(30)	HALFWORD	2	A08BKHSW	Peak reqs waiting on string
(32)	HALFWORD	2		Reserved
(34)	FULLWORD	4	A08BKTSW	Total No. reqs waiting on string
(38)	HALFWORD	2	A08BKHAS	Peak No. conc active FC strings
(3A)	HALFWORD	2		Reserved
	.... 1.11		A08NBS	"11" Number of buffer sizes
(3C)	FULLWORD	4	A08TOBFN_DATA	Total no. of data buffers
(40)	FULLWORD	4	A08TOHBN_DATA	Total data hiperspace buffs
(44)	FULLWORD	4	A08TOBFF_DATA	Total no. successful look asides
(48)	FULLWORD	4	A08TOFRD_DATA	Total no. buffer reads
(4C)	FULLWORD	4	A08TOUIW_DATA	Total no. user initiated writes
(50)	FULLWORD	4	A08TONUW_DATA	Total no. non-user initiated writes
(54)	FULLWORD	4	A08TOCRS_DATA	Total no. successful CREAD
(58)	FULLWORD	4	A08TOCWS_DATA	Total no. successful CWRITE
(5C)	FULLWORD	4	A08TOCRF_DATA	Total no. failing CREAD
(60)	FULLWORD	4	A08TOCWF_DATA	Total no. failing CWRITE
(64)	FULLWORD	4	A08TOBFN_IND	Total no. of index buffers
(68)	FULLWORD	4	A08TOHBN_IND	Total indx hiperspace buffs
(6C)	FULLWORD	4	A08TOBFF_IND	Total no. successful look asides
(70)	FULLWORD	4	A08TOFRD_IND	Total no. buffer reads
(74)	FULLWORD	4	A08TOUIW_IND	Total no. user initiated writes
(78)	FULLWORD	4	A08TONUW_IND	Total no. non-user initiated writes
(7C)	FULLWORD	4	A08TOCRS_IND	Total no. successful CREAD
(80)	FULLWORD	4	A08TOCWS_IND	Total no. successful CWRITE

Offset Hex	Type	Len	Name (Dim)	Description
(84)	FULLWORD	4	A08TOCRF_IND	Total no. failing CREAD
(88)	FULLWORD	4	A08TOCWF_IND	Total no. failing CWRITE
	1... 11..		A08END	***
	1... 11..		A08CLEN	**-A08LEN" Length of common part of DSECT
(8C)	CHARACTER	1	A08BSTAT	Buffer size statistics for data and index buffers
(8C)			A08DLEN	**-A08LEN" Length of DSECT

The following DSECT is repeated for each buffer size in the pool. If separate index and data buffers are NOT being used, there will be A08NBS repeats of this DSECT, one for each buffer. If separate data and index buffers are being used (A08IDSEP flag set) there will be A08NBS 2 repeats of this DSECT (A08NBS for the data buffers followed by A08NBS for the index buffers).

Offset Hex	Type	Len	Name (Dim)	Description
(0)			A08BSSDS	Statistics by buffer size
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	ADDRESS	2	A08BKBSZ	Buffer size
(2)	HALFWORD	2	A08BKBFN	No. of buffers
(4)	FULLWORD	4	A08BKHBN	No. of hiperspace buffers
(8)	FULLWORD	4	A08BKBFN	No. successful look asides
(C)	FULLWORD	4	A08BKFRD	No. buffer reads
(10)	FULLWORD	4	A08BKUIW	No. user initiated buffer writes
(14)	FULLWORD	4	A08BKNUW	No. non-user initiated buffer writes
(18)	FULLWORD	4	A08BKCRS	No. successful CREAD
(1C)	FULLWORD	4	A08BKCWS	No. successful CWRITE
(20)	FULLWORD	4	A08BKCRF	No. failing CREAD
(24)	FULLWORD	4	A08BKCWF	No. failing CWRITE
	..1. 1...		A08BEND	*** End of Buffer stats
	..1. 1...		A08BLEN	**-A08BSSDS" Length of stats for a buffer size

## A09 File specific statistics

CONTROL BLOCK NAME = DFHA09DS  
 DESCRIPTIVE NAME = CICS File specific Statistics for LSR Pools.  
 FUNCTION = This data block describes the LSR Pool file related Statistics for a specified LSR Pool and totals for all files in the pool.  
 The data described here is placed in storage by DFHAPST.  
 This DSECT is also used by DFHSTUP and user programs to map the statistics block.  
 LIFETIME = The storage area is created when a request for AP domain Transient data statistics is received. It is released when the caller has acknowledged receipt of the data.  
 LOCATION = The caller is passed a pointer to the head of the block.  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = None  
 CONTROL BLOCKS = DFHFCTDS FCTDSDBN  
                   DFHFCTDS FCTDSID  
                   DFHFCTDS FCTDSIBN  
                   DFHFCTDS FCTDSCBW  
                   DFHFCTDS FCTDShBW  
                   DFHFCTDS FCTDStBW  
 GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHA09DS	LSRPOOL statistics (File specifics)
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	A09LEN	Length of data area
	..1. 1...		A09IDR	"40" LSR pool file stats RESID id mask
	..1. 1..1		A09IDT	"41" LSR pool file stats TOTALS id mask

The next field should be loaded with one of the two previous values

(2)	ADDRESS	2	A09ID	LSR pool id
	.... ..1		A09VERS	"X'01" DSECT version number mask
(4)	CHARACTER	1	A09DVERS	Statistics version number
(5)	CHARACTER	3		Reserved
(8)	HALFWORD	2	A09SRPID	LSR pool number
(A)	CHARACTER	8	A09DSID	Filename
(12)	HALFWORD	2	A09DBN	Data buffer size
(14)	HALFWORD	2	A09IBN	Index buffer size
(16)	HALFWORD	2		Reserved

If this is a totals record only the next field contains data

(18)	FULLWORD	4	A09TBW	Total buffer waits
(1C)	HALFWORD	2	A09HBW	Highest buffer waits
	...1 111.		A09END	""
	...1 111.		A09CLEN	""-A09LEN" Length of DSECT

## A14 ISC/IRC statistics

```

CONTROL BLOCK NAME = DFHA14DS
DESCRIPTIVE NAME = CICS ISC/IRC Statistics - system entries.
FUNCTION = This DSECT describes ISC/IRC statistics.
    The data described by this DSECT is placed in storage by
    DFHSTLK, the statistics module in the AP domain.
    It contains IRC Batch statistics.
    The same DSECT describes the system and user copies of the
    statistics. Several copies of the statistics may exist until
    the callers request has been satisfied.
    Mode entry statistics are described in the DFHA20DS DSECT.
LIFETIME = The storage area is created when a request for
ISC/IRC Stats is received. It is released
    when the caller has acknowledged receipt of the data .
LOCATION = Caller is passed a pointer to the storage.
INNER CONTROL BLOCKS = none
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS = none
    MODULE TYPE = Control block definition
EXTERNAL REFERENCES = none
DATA AREAS = none
CONTROL BLOCKS = DFHTCTTE TCTTETI
    DFHTCTTE TCSEALL
    DFHTCTTE TCSESALL
    DFHTCTTE TCSEBID
    DFHTCTTE TCSESTAM
    DFHTCTTE TCSE1HWM
    DFHTCTTE TCSE2HWM
    DFHTCTTE TCSEBHWM
    DFHTCTTE TCSES1
    DFHTCTTE TCSES2
    DFHTCTTE TCSESBID
    DFHTCTTE TCSESTAS
    DFHTCTTE TCSESTAQ
    DFHTCTTE TCSESTAF
    DFHTCTTE TCSESTAO
    DFHTCTTE TCSESTFC
    DFHTCTTE TCSESTIC
    DFHTCTTE TCSESTTD
    DFHTCTTE TCSESTTS
    DFHTCTTE TCSESTDL
    DFHTCTTE TCSESTTC
    DFHTCTTE TCSEALRJ
    DFHTCTTE TCSEQPCT
    DFHTCTTE TCSEMXTQ
    DFHTCTTE TCSEALIM
    DFHTCTTE TCSEMQPC
    DFHTCTTE TCSEZQRJ
    DFHTCTTE TCSEZQPU
    DFHTCTTE TCSEZQPC
    DFHTCTTE TCSESID
    DFHTCTTE TCSACCM
    DFHTCTTE TCSEFLGS
    DFHTCTTE TCSESECN
    DFHTCTTE TCSEPRMN
    DFHTCTTE TCSE1RY
    DFHTCTTE TCSE2RY
GLOBAL VARIABLES (Macro pass) = none
    
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHA14DS	ISC/IRC statistics
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	A14LEN	Length of data area
	..11 .1..		A14IDR	"0052" ISC/IRC RESID stats mask
	..11 .1.1		A14IDT	"0053" ISC/IRC Stats Totals Mask
The next field should be loaded to one of the two previous values				
(2)	ADDRESS	2	A14ID	ISC/IRC id
	.... ...1		A14VERS	"X'01" DSECT version number mask
(4)	CHARACTER	1	A14DVERS	ISC/IRC stats version number
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	4	A14CNTN	Connection name
(C)	HALFWORD	2	A14EALL	Aids in chain
(E)	HALFWORD	2	A14ESALL	Generic AIDS in chain
(10)	HALFWORD	2	A14EBID	Current bids
(12)	HALFWORD	2	A14ESTAM	Max outstanding allocates
(14)	HALFWORD	2	A14E2HWM	Max secondaries
(16)	HALFWORD	2	A14EBHWM	Max bids
(18)	FULLWORD	4	A14ES1	ATIs satisfied by primaries

Offset Hex	Type	Len	Name (Dim)	Description
(1C)	FULLWORD	4	A14ES2	ATIs satisfied by secondaries
(20)	FULLWORD	4	A14ESBID	Bids sent
(24)	FULLWORD	4	A14ESTAS	Total allocates
(28)	FULLWORD	4	A14ESTAQ	Queued allocates
(2C)	FULLWORD	4	A14ESTAF	Failed link allocates
(30)	FULLWORD	4	A14ESTAO	Failed - other reasons
(34)	FULLWORD	4	A14ESTFC	File control function shipping reqs
(38)	FULLWORD	4	A14ESTIC	Intv control function shipping reqs
(3C)	FULLWORD	4	A14ESTTD	TD function shipping reqs
(40)	FULLWORD	4	A14ESTTS	TS function shipping reqs
(44)	FULLWORD	4	A14ESTDL	DL/I function shipping reqs
(48)	FULLWORD	4	A14ESTTC	Terminal sharing reqs
(4C)	HALFWORD	2	A14E1HWM	Max primaries
(4E)	HALFWORD	2	A14EQPCT	MAXQTIME purge count
(50)	FULLWORD	4	A14EALRJ	Allocates rejected (QLIMIT)
(54)	HALFWORD	2	A14EMXQT	Max queue time
(56)	HALFWORD	2	A14EALIM	Allocate queue limit
(58)	FULLWORD	4	A14EZQRJ	XZIQUE rejects
(5C)	HALFWORD	2	A14EZQPU	XZIQUE purge count
(5E)	HALFWORD	2	A14EZQPC	XZIQUE allocates purged
(60)	HALFWORD	2	A14EMQPC	MAXQTIME allocates purged
(62)	CHARACTER	6		Reserved
(68)	DBL WORD	8	A14GACT	AI GMT conn create time
(70)	DBL WORD	8	A14AICT	AI conn create time
(78)	DBL WORD	8	A14GADT	AI GMT conn delete time
(80)	DBL WORD	8	A14AIDT	AI conn delete time
(88)	FULLWORD	4		Reserved
(8C)	CHARACTER	8	A14ESID	Connection netname
(94)	BITSTRING	1	A14ACCM	Access method
(95)	BITSTRING	1	A14EFLGS	Protocol
(96)	HALFWORD	2	A14ESECN	Send session count
(98)	HALFWORD	2	A14EPRMN	Receive session count
(9A)	HALFWORD	2	A14E1RY	Primaries currently used
(9C)	HALFWORD	2	A14E2RY	Secondaries currently used
(9E)	CHARACTER	2		Reserved
(A0)	FULLWORD	4	A14ESTPC	Program Control funct ship reqs
	1.1. .1..		A14END	""
	1.1. .1..		A14CLEN	""-A14LEN" Length of DSECT
<hr/>				
Equates for testing A14ACCM. (Access Method)				
	.... ...1		A14VTAM	"1"
	.... ..1.		A14IRC	"2"
	.... ...11		A14XM	"3"
	.... ..1..		A14XCF	"4"
<hr/>				
Equates for testing A14EFLGS. (Protocol)				
	.... ...1		A14APPC	"1"
	.... ..1.		A14LU61	"2"
	.... ...11		A14EXCI	"3"

## A16 Table manager statistics

CONTROL BLOCK NAME = DFHA16DS  
 DESCRIPTIVE NAME = CICS Statistics for Table manager  
 FUNCTION = This data block describes the global table manager Statistics.  
 The data described here is placed in storage by DFHAPST  
 This DSECT is also used by DFHSTUP and user programs to map the statistics block.  
 LIFETIME = The storage area is created when a request for AP domain Table manager statistics is received. It is released when the caller has acknowledged receipt of the data.  
 LOCATION = The caller is passed a pointer to the head of the block.  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = None  
 CONTROL BLOCKS = DFHTMSKT SKTNUMDS  
                   DFHTMSKT SKTLNTH  
                   DFHTMSKT SKTINFO  
                   DFHTMSSA TMNDESG  
 GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHA16DS	Table manager statistics (GLOBAL)
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	A16LEN	Length of data area
	..11 1111		A16IDE	"63" Table manager stats id mask
(2)	ADDRESS	2	A16ID	Table manager id
	.... ..1.		A16VERS	"X'02" DSECT version number mask
(4)	CHARACTER	1	A16DVERS	Statistics version number
(5)	CHARACTER	3		Reserved
	...1 ...1		A16NTAB	"17" Number of tables
	.... 1...		A16END	***
	.... 1...		A16CLEN	**"-A16LEN" Length of DSECT

The following section is repeated for each of the 17 tables

Offset Hex	Type	Len	Name (Dim)	Description
(0)			A16STATS	Stats for each table
(0)	CHARACTER	4	A16TNAM	Table name
(4)	FULLWORD	4	A16TSIZE	Table size
	.... 1...		A16SEND	***
	.... 1...		A16SCLEN	**"-A16STATS" Length of DSECT



## A17 File control statistics

CONTROL BLOCK NAME = DFHA17DS  
 DESCRIPTIVE NAME = CICS File control Statistics  
 FUNCTION = This DSECT describes File Control statistics.  
 The data described by this DSECT is placed in storage by DFHAPST, the statistics module in the AP domain. It contains File Control statistics.  
 The same DSECT describes the system and user copies of the statistics. Several copies of the statistics may exist until the callers request has been satisfied.  
 LIFETIME = The storage area is created when a request for file control global stats is received. It is released when the caller has acknowledged receipt of the data .  
 LOCATION = Caller is passed a pointer to the storage.  
 INNER CONTROL BLOCKS = none  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = none  
 DATA AREAS = none  
 CONTROL BLOCKS = DFHFCTDS FCTDSRD  
                   DFHFCTDS FCTDSGU  
                   DFHFCTDS FCTDSBR  
                   DFHFCTDS FCTDSWRA  
                   DFHFCTDS FCTDSWRU  
                   DFHFCTDS FCTDSDEL  
                   DFHFCTDS FCTRMDEL  
                   DFHFCTDS FCTDSXCP  
                   DFHFCTDS FCTDSIXP  
 GLOBAL VARIABLES (Macro pass) = none  
                           CHAR(8)

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHA17DS	File control statistics
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	A17LEN	Length of data area
	.1.. .11		A17IDR	"0067" File control stats mask
The next field should be loaded with the previous value.				
(2)	ADDRESS	2	A17ID	File control id
	.... .1		A17VERS	"X'01" DSECT version number mask
(4)	CHARACTER	1	A17DVERS	File stats version number
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	A17FNAM	File name
(10)	CHARACTER	1	A17FLOC	Set to "R" if remote
(11)	CHARACTER	1	A17DT	Set to "R","S","T","L","K" or "X" if data table fields present
	11.1 1..1		A17DTRMT	"C'R" Table fields for remote table
	111. .1.		A17DTASS	"C'S" Table fields for associated file
	111. .11		A17DTPRS	"C'T" SDT fields present
	11.1 .11		A17DTCFL	"C'L" Coupling Facility data table fields present(locking model)
	11.1 .1.		A17DTCFC	"C'K" Coupling Facility data table fields present(contention model)
	111. .111		A17DTAIX	"C'X" Table fields for updates via AIX
(12)	CHARACTER	1	A17DSRLS	RLS/Non-RLS Indicator "R" = RLS mode blank = non-RLS mode
	11.1 1..1		A17RLS	"C'R" RLS file
	.1.. ....		A17NORLS	"C' " non-RLS file
(13)	CHARACTER	5		Reserved
(18)		4	RESFLD1	Reserved
(1C)		4	RESFLD2	Reserved
(20)	CHARACTER	44	A17DSNAM	Dataset name
(4C)	FULLWORD	4	A17DSRD	GET requests
(50)	FULLWORD	4	A17DSGU	GET update requests
(54)	FULLWORD	4	A17DSBR	BROWSE requests
(58)	FULLWORD	4	A17DSWRA	ADD requests
(5C)	FULLWORD	4	A17DSWRU	UPDATE requests
(60)	FULLWORD	4	A17DSDEL	DELETE requests local
(64)	FULLWORD	4	A17RMDEL	DELETE requests remote
(68)	FULLWORD	4	A17DSXCP	VSAM EXCP requests - data
(6C)	FULLWORD	4	A17DSIXP	VSAM EXCP requests - index
(70)	FULLWORD	4	A17DSTSW	Wait on string total
(74)	HALFWORD	2	A17DSHSW	Wait on string highest
(76)	HALFWORD	2		Reserved
(78)	CHARACTER	1	A17DTTYP	Set to "C","S","U","X","L" or "K" for close
	11.. .11		A17DTTC	"C'C" CICS maintained table close
	111. .1.		A17DTTS	"C'S" USER table source close
	11.1 .111		A17DTTP	"C'P" CICS table partial close
	111. .1..		A17DTTU	"C'U" USER maintained table close
	11.1 .11		A17DTTL	"C'L" Coupling Facility table close @L8C (locking model)
	11.1 .1.		A17DTTK	"C'K" Coupling Facility table close (contention model)
(79)	CHARACTER	3		Reserved

Offset Hex	Type	Len	Name (Dim)	Description
(7C)	FULLWORD	4	A17DTRDS	Read/browse requests
(80)	FULLWORD	4	A17DTRNF	Source reads issued
(84)	FULLWORD	4	A17DTAVR	ADDs resulting from READs
(88)	FULLWORD	4	A17DTADS	ADD requests
(8C)	FULLWORD	4	A17DTARJ	ADDs rejected by exit
(90)	FULLWORD	4	A17DTATF	ADDs when table full
(94)	FULLWORD	4	A17DTRWS	REWRITE requests
(98)	FULLWORD	4	A17DTDLS	DELETE requests
(9C)	FULLWORD	4	A17DTSHI	Highest table record count
(A0)	FULLWORD	4	A17DTSIZ	Current table record count
(A4)	FULLWORD	4	A17DTALT	Storage allocated - total (KB)
(A8)	FULLWORD	4	A17DTUST	Storage in-use - total (KB)
(AC)	FULLWORD	4	A17DTALE	Storage allocated - entries (KB)
(B0)	FULLWORD	4	A17DTUSE	Storage in-use - entries (KB)
(B4)	FULLWORD	4	A17DTALI	Storage allocated - index (KB)
(B8)	FULLWORD	4	A17DTUSI	Storage in-use - index (KB)
(BC)	FULLWORD	4	A17DTALD	Storage allocated - data (KB)
(C0)	FULLWORD	4	A17DTUSD	Storage in-use - data (KB)
(C4)	FULLWORD	4	A17DTRRS	Read Retries for a SDT
(C8)	HALFWORD	2	A17DSDNB	No Buffers - Data
(CA)	HALFWORD	2	A17DSINB	No Buffers - Index
(CC)	BITSTRING	1	A17POOL	LSRPOOL Id
(CD)	BITSTRING	1		Reserved
(CE)	HALFWORD	2	A17STRNO	No Strings
(D0)	CHARACTER	8	A17RNAME	Remote Name
(D8)	CHARACTER	4	A17RSYS	Remote Sysid
(DC)	CHARACTER	1	A17DSTYP	Dataset Type
(DD)	CHARACTER	3		Reserved
(E0)	CHARACTER	44	A17BDSNM	Base Dataset Name
(10C)	HALFWORD	2	A17DSASC	No Active Strings
(10E)	HALFWORD	2	A17DSASW	No String Waits
(110)	CHARACTER	8	A17LOPNT	File open time (Local STCK)
(118)	CHARACTER	8	A17LCLST	File close time (Local STCK)
(120)	CHARACTER	8	A17GOPNT	File open time (GMT STCK)
(128)	CHARACTER	8	A17GCLST	File close time (GMT STCK)
(130)	FULLWORD	4	A17DSBRU	Browse for update count
(134)	FULLWORD	4	A17RLSWT	RLS request wait timeouts
(138)	FULLWORD	4	A17DTCON	Number of CHANGED responses for a CFDT using contention, number of lock waits for a CFDT using locking.
(13C)	CHARACTER	8	A17DTCFP	Coupling Facility Data Table Pool Name
(144)	FULLWORD	4	A17DTLDS	Number of LOADING responses
(144)			A17END	***
(144)			A17CLEN	**-A17LEN" Length of DSECT

## A20 ISC/IRC mode entry statistics

CONTROL BLOCK NAME = DFHA20DS  
 DESCRIPTIVE NAME = CICS ISC/IRC Statistics - mode entries.  
 FUNCTION = This DSECT describes ISC/IRC mode entry statistics.  
 The data described by this DSECT is placed in storage by DFHSTLK, the statistics module in the AP domain.  
 It contains IRC mode entry statistics.  
 The same DSECT describes the system and user copies of the statistics. Several copies of the statistics may exist until the callers request has been satisfied.  
 System entry statistics are described in the DFHA14DS DSECT.  
 LIFETIME = The storage area is created when a request for ISC/IRC mode entry stats is received. It is released when the caller has acknowledged receipt of the data .  
 LOCATION = Caller is passed a pointer to the storage.  
 INNER CONTROL BLOCKS = none  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = none  
 DATA AREAS = none  
 CONTROL BLOCKS = DFHTCTTE TCMEBID  
 DFHTCTTE TCMESTAM  
 DFHTCTTE TCME1HWM  
 DFHTCTTE TCME2HWM  
 DFHTCTTE TCMEBHWM  
 DFHTCTTE TCMES1  
 DFHTCTTE TCMES2  
 DFHTCTTE TCMESBID  
 DFHTCTTE TCMESTAS  
 DFHTCTTE TCMESTAQ  
 DFHTCTTE TCMESTAF  
 DFHTCTTE TCMESTAG  
 DFHTCTTE TCMESTAP  
 DFHTCTTE TCMESTAO  
 DFHTCTTE TCMESTFC  
 DFHTCTTE TCMESTIC  
 DFHTCTTE TCMESTTD  
 DFHTCTTE TCMESTTS  
 DFHTCTTE TCMESTDL  
 DFHTCTTE TCMESTTC  
 DFHTCTTE TCMEMODE  
 DFHTCTTE TCTETTI  
 DFHTCTTE TCMEZQPC  
 DFHTCTTE TCMELMAX  
 DFHTCTTE TCMEMCON  
 DFHTCTTE TCMEMAXS  
 DFHTCTTE TCMECONW  
 DFHTCTTE TCMECONL  
 DFHTCTTE TCME1RY  
 DFHTCTTE TCME2RY  
 GLOBAL VARIABLES (Macro pass) = none

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHA20DS	ISC/IRC mode entry statistics
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	A20LEN	Length of data area
	.1.. 11..		A20IDR	"0076" ISC/IRC RESID mode entry stats mask
	.1.. 11.1		A20IDT	"0077" ISC/IRC Stats Totals mask

The next field should be loaded to one of the two previous values

(2)	ADDRESS	2	A20ID	ISC/IRC mode entry id
	.... ...1		A20VERS	"X'01" DSECT version number mask
(4)	CHARACTER	1	A20DVERS	ISC/IRC mode entry stats vers No.
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	4	A20SYSN	System name
(C)	CHARACTER	8	A20MODE	Mode name
(14)	HALFWORD	2	A20ESTAM	Max outstanding allocates
(16)	HALFWORD	2	A20E2HWM	Max secondaries
(18)	HALFWORD	2	A20EBHWM	Max bids
(1A)	HALFWORD	2	A20E1HWM	Peak contention losers
(1C)	FULLWORD	4	A20ES1	ATIs satisfied by primaries
(20)	FULLWORD	4	A20ES2	ATIs satisfied by secondaries
(24)	FULLWORD	4	A20ESBID	Bids sent
(28)	FULLWORD	4	A20ESTAS	Total allocates
(2C)	FULLWORD	4	A20ESTAQ	Queued allocates
(30)	FULLWORD	4	A20ESTAF	Failed link allocates
(34)	FULLWORD	4	A20ESTAO	Failed - other reasons
(38)	FULLWORD	4	A20ESTAG	Generic allocates

Offset Hex	Type	Len	Name (Dim)	Description
(3C)	FULLWORD	4	A20ESTAP	Specific allocates
(40)	HALFWORD	2	A20EBID	Current bids
(42)	HALFWORD	2	A20EQPCT	XZIQUE purge count
(44)	HALFWORD	2	A20EZQPC	XZIQUE allocates purged
(46)	HALFWORD	2	A20ELMAX	Max session count
(48)	HALFWORD	2	A20EMCON	Max contention winners acceptable
(4A)	HALFWORD	2	A20EMAXS	Current Max session count
(4C)	HALFWORD	2	A20ECONW	Current CNOS contention winners
(4E)	HALFWORD	2	A20ECONL	Current CNOS contention losers
(50)	HALFWORD	2	A20E1RY	Primaries currently used
(52)	HALFWORD	2	A20E2RY	Secondaries currently used
	.1.1 .1..		A20END	***
	.1.1 .1..		A20CLEN	**-A20LEN" Length of DSECT

## A21 ISC LUIT & sna management statistics

CONTROL BLOCK NAME = DFHA21PS  
 DESCRIPTIVE NAME = CICS/ESA ISC statistics - LUIT management  
 FUNCTION = This copybook describes ISC statistics associated with Persistent Verification and management of entries in the LUIT tables.  
 The data described by this copybook is placed in storage by DFHSTLK, one of the statistics modules in the AP Domain. The same copybook describes the system and user copies of the statistics. Several copies of the statistics may exist in the system until the caller's request has been satisfied.  
 LIFETIME = The storage area is created when a request for ISC stats is received. It is released when the caller has acknowledged receipt of the data.  
 LOCATION = Caller is passed a pointer to the storage  
 INNER CONTROL BLOCKS = none  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = none  
 DATA AREAS = none  
 CONTROL BLOCKS = DFHCSAPS CSA\_LTIME  
                   DFHNSSTA LUIT\_TOTAL\_REUSES  
                   DFHNSSTA LUIT\_TOTAL\_TIMEOUTS  
                   DFHNSSTA LUIT\_AV\_REUSE\_TIME  
 GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	36	DFHA21PS	ISC Statistics
(0)	HALFWORD	2	A21_STATS_LENGTH	Length of data area
(2)	HALFWORD	2	A21_STATS_ID	Statistics id
(4)	UNSIGNED	1	A21_STATS_VERSION	Stats version number
(5)	UNSIGNED	3	*	Reserved
(8)	UNSIGNED	2	*	Reserved
(A)	HALFWORD	2	A21_SIT_LUIT_TIME	Delay time for LUIT table
(C)	FULLWORD	4	*	Reserved
(10)	FULLWORD	4	*	Reserved
(14)	FULLWORD	4	*	Reserved
(18)	FULLWORD	4	A21_LUIT_TOTAL_REUSES	Total number of entries * * reused in LUIT table
(1C)	FULLWORD	4	A21_LUIT_TOTAL_TIMEOUTS	Total number of entries * * timed out in LUIT table
(20)	FULLWORD	4	A21_LUIT_AV_REUSE_TIME	Average reuse time between * * entries in the LUIT table

## Constants

Len	Type	Value	Name	Description
1	HEX	01	A21_STATS_DCL_VERSION	Version number
2	DECIMAL	54	A21_STATS_DCL_RESID	stats id (RESID)

## A22 Fepi pool statistics

CONTROL BLOCK NAME = DFHA22DS  
 DESCRIPTIVE NAME = CICS FEPI pool statistics  
 FUNCTION =  
 This data block describes the block of storage containing the statistics for a FEPI pool.  
 The data described by this DSECT is placed in storage by DFHAPST, the statistics module in the AP domain.  
 The same DSECT describes the system and user copies of the statistics. Several copies of the statistics may exist until the callers request has been satisfied.  
 LIFETIME = The storage area is created when a request for FEPI pool stats is received. It is released when the caller has acknowledged receipt of the data .  
 STORAGE CLASS =  
 LOCATION = Caller is passed a pointer to the storage.  
 INNER CONTROL BLOCKS = none  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = none  
 DATA AREAS = none  
 CONTROL BLOCKS = in the FEPI RM  
 GLOBAL VARIABLES (Macro pass) = none  
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHA22DS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHA22DS	FEPI pool statistics
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	A22LEN	Length of data area
	...1 ....		A22IDR	"0016" FEPI pool RESID stats mask
(2)	ADDRESS	2	A22ID	FEPI pool id
	.... ...1		A22VERS	"X'01" DSECT version number
(4)	CHARACTER	1	A22DVERS	Pool statistics version number
(5)	CHARACTER	3		Filler
(8)	CHARACTER	8	A22POOL	Pool name
(10)	FULLWORD	4	A22TRGCT	# targets
(14)	FULLWORD	4	A22NDCT	# nodes
(18)	FULLWORD	4	A22CONCT	# connections
(1C)	FULLWORD	4	A22CONPK	Peak # connections
(20)	FULLWORD	4	A22ALLOC	# conversation allocates
(24)	FULLWORD	4	A22PKALL	Peak # concurrent allocates
(28)	FULLWORD	4	A22WAIT	Current # allocates waiting
(2C)	FULLWORD	4	A22TOTWT	Total # allocates waited
(30)	FULLWORD	4	A22PKWT	Peak # allocates waiting
(34)	FULLWORD	4	A22TIOUT	# allocates that timed out
	..11 1...		A22END	**"
	..11 1...		A22CLEN	**"-A22LEN" Length of DSECT

## A23 Fepi connection statistics

CONTROL BLOCK NAME = DFHA23DS  
 DESCRIPTIVE NAME = CICS FEPI connection statistics  
 FUNCTION =  
 This data block describes the block of storage containing the statistics for a FEPI connection.  
 The data described by this DSECT is placed in storage by DFHAPST, the statistics module in the AP domain.  
 The same DSECT describes the system and user copies of the statistics. Several copies of the statistics may exist until the callers request has been satisfied.  
 LIFETIME = The storage area is created when a request for FEPI connection stats is received. It is released when the caller has acknowledged receipt of the data .  
 STORAGE CLASS =  
 LOCATION = Caller is passed a pointer to the storage.  
 INNER CONTROL BLOCKS = none  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = none  
 DATA AREAS = none  
 CONTROL BLOCKS = in the FEPI RM  
 GLOBAL VARIABLES (Macro pass) = none  
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHA23DS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHA23DS	FEPI connection statistics
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	A23LEN	Length of data area
	...1 ...1		A23IDR	"0017" FEPI connection RESID stats mask
(2)	ADDRESS	2	A23ID	FEPI connection id
	.... ...1		A23VERS	"X'01" DSECT version number
(4)	CHARACTER	1	A23DVERS	Connection statistics version number
(5)	CHARACTER	3		Filler
(8)	CHARACTER	8	A23POOL	Pool name
(10)	CHARACTER	8	A23TARG	Target name
(18)	CHARACTER	8	A23NODE	Node name
(20)	FULLWORD	4	A23ACQ	# acquires for connection
(24)	FULLWORD	4	A23CNV	# conversations
(28)	FULLWORD	4	A23USI	# unsolicited inputs received
(2C)	FULLWORD	4	A23CHOUT	# characters sent on connection
(30)	FULLWORD	4	A23CHIN	# characters received on connection
(34)	FULLWORD	4	A23RTOUT	# receive timeouts
(38)	FULLWORD	4	A23ERROR	# error conditions
	..11 11..		A23END	""
	..11 11..		A23CLEN	""-A23LEN" Length of DSECT

## A24 Fepi target statistics

CONTROL BLOCK NAME = DFHA24DS  
 DESCRIPTIVE NAME = CICS FEPI target statistics  
 FUNCTION =  
 This data block describes the block of storage containing the statistics for a FEPI target.  
 The data described by this DSECT is placed in storage by DFHAPST, the statistics module in the AP domain.  
 The same DSECT describes the system and user copies of the statistics. Several copies of the statistics may exist until the callers request has been satisfied.  
 LIFETIME = The storage area is created when a request for FEPI target stats is received. It is released when the caller has acknowledged receipt of the data .  
 STORAGE CLASS =  
 LOCATION = Caller is passed a pointer to the storage.  
 INNER CONTROL BLOCKS = none  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = none  
 DATA AREAS = none  
 CONTROL BLOCKS = in the FEPI RM  
 GLOBAL VARIABLES (Macro pass) = none  
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHA24DS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHA24DS	FEPI target statistics
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	A24LEN	Length of data area
	...1 ..1.		A24IDR	"0018" FEPI target RESID stats mask
(2)	ADDRESS	2	A24ID	FEPI target id
	.... ..1		A24VERS	"X'01" DSECT version number
(4)	CHARACTER	1	A24DVERS	Target statistics version number
(5)	CHARACTER	3		Filler
(8)	CHARACTER	8	A24TARG	Target name
(10)	CHARACTER	8	A24POOL	Pool name
(18)	CHARACTER	8	A24APPL	Applid
(20)	FULLWORD	4	A24NDCT	# nodes
(24)	FULLWORD	4	A24ALLOC	# conversation allocates
(28)	FULLWORD	4	A24TOTWT	Total # allocates waited
(2C)	FULLWORD	4	A24WAIT	Current # allocates waiting
(30)	FULLWORD	4	A24PKWT	Peak # allocates waiting
(34)	FULLWORD	4	A24TIOUT	# allocates that timed out
	..11 1...		A24END	""
	..11 1...		A24CLEN	""-A24LEN" Length of DSECT

**BRARC Brxa definition**

This is the description of the BRXA passed to the Bridge Exit as its COMMAREA.

The BRXA header contains the following fields:

**BRXA\_HEADER\_EYECATCHER**

An eyecatcher to identify the area as an BRXA. This is initialised by CICS to the value BRXA\_HEADER\_EYE (>BRAREA '), which is defined in the DFHBRACx copy book.

**BRXA\_HEADER\_LENGTH**

The length of the header.

**BRXA\_HEADER\_VERSION\_NO**

The version number of the BRXA. This allows future releases to extend the BRXA. This is initialised by CICS to brxa\_current\_version\_no.

**BRXA\_TRANSACTION\_AREA\_PTR**

The address of the BRXA\_TRANSACTION\_AREA, which contains information relating to the Bridge Transaction and the User Transaction. This will be set by CICS, and should not be modified by the Bridge or LT Exit code.

**BRXA\_TRANSACTION\_AREA\_LEN**

The length of the BRXA\_TRANSACTION\_AREA. This will be set by CICS, and should not be modified by the Bridge or LT Exit code.

**BRXA\_COMMAND\_AREA\_PTR**

The address of the BRXA\_COMMAND\_AREA, which contains information relating to the command causing the Bridge Exit to be driven. This will be set by CICS, and should not be modified by the Bridge Exit code.

**BRXA\_COMMAND\_AREA\_LEN**

The length of the BRXA\_COMMAND\_AREA. This will be set by CICS, and should not be modified by the Bridge or LT Exit code.

**BRXA\_USER\_AREA\_PTR**

A user field which allows the address of a user area to be saved across Bridge Exit calls within a task. The user area should be obtained using an EXEC CICS GETMAIN.

**BRXA\_USER\_AREA\_LEN**

A user fields which can be used to save the length of the user area. TRANSACTION.

**BRXA\_INPUT\_MSG\_PTR**

A field used to save the address of an input message. This field is intended to be used in conjunction with a formatter.

**BRXA\_INPUT\_MSG\_LEN**

A field used to save the current length of the input message.

**BRXA\_OUTPUT\_MSG\_PTR**

A field used to save the address of an output message. This field is intended to be used in conjunction with a formatter.

**BRXA\_OUTPUT\_MSG\_LEN**

A field used to save the current length of the output message.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	56	BRXA_HEADER	
(0)	CHARACTER	8	BRXA_HEADER_ EYECATCHER	
(8)	FULLWORD	4	BRXA_HEADER_ LENGTH	
(C)	UNSIGNED	4	BRXA_HEADER_ VERSION_NO	
(10)	ADDRESS	4	BRXA_TRANSACTION_ AREA_PTR	
(14)	FULLWORD	4	BRXA_TRANSACTION_ AREA_LEN	
(18)	ADDRESS	4	BRXA_COMMAND_ AREA_PTR	
(1C)	FULLWORD	4	BRXA_COMMAND_ AREA_LEN	
(20)	ADDRESS	4	BRXA_USER_ AREA_PTR	
(24)	FULLWORD	4	BRXA_USER_ AREA_LEN	
new for CTS 1.3				
(28)	ADDRESS	4	BRXA_INPUT_ MSG_PTR	
(2C)	FULLWORD	4	BRXA_INPUT_ MSG_LEN	
(30)	ADDRESS	4	BRXA_OUTPUT_ MSG_PTR	
(34)	FULLWORD	4	BRXA_OUTPUT_ MSG_LEN	



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The BRXA transaction area contains information about the invoking Bridge transaction and the linked to transaction. This area is not meaningful when executing within the Bridge transaction and should not be referenced there. This information is completed by CICS for each invocation of the Bridge Exit. The transaction area contains the following information:

**BRXA\_TRAN\_AREA\_EYECATCHER**

An eyecatcher to identify the area as an BRXA Transaction Area.

This will be set by CICS, before passing control to the Bridge Exit, to the value BRXA\_TRAN\_AREA\_EYE (>BRTRANA), which is defined in the DFHBRACx copy book.

**BRXA\_BRIDGE\_TRANID**

The transaction id of the Bridge Transaction.

**BRXA\_TRANID**

The transaction id of the user transaction.

**BRXA\_NEXTTRANID**

The transaction id of the next transaction.

**BRXA\_ABEND\_CODE**

If the User Transaction abends, then the abend code is placed here. If the transaction hasn't abended this field is blanks.

**BRXA\_CALLING\_PROG**

The name of the program in the User Transaction which issued the command causing the Bridge Exit to be invoked. For the

BRXA\_INIT, BRXA\_BIND, BRXA\_TERM and BRXA\_ABEND calls this field is set to blanks.

**BRXA\_USERID**

specifies the userid under whose authority the Linked Transaction is to run.

**BRXA\_STARTCODE**

specifies the type of method which would normally be used to start this transaction. This value is returned in the assign command, but has no other effect on processing. The following values are allowed:

**S**

START command without data

**SD**

START command with data

**TD**

Terminal Input (this is the default value)

If an invalid value is specified the value TD is assumed.

On invocation of the Bridge Exit for TERM and ABEND processing, this field contains the start code appropriate to the BRXA\_NEXTTRANID value.

**BRXA\_LOAD\_ADS\_DESCRIPTOR**

If this one character field is set to 'Y' by the Bridge Transaction, then for BMS SEND MAP and RECEIVE MAP, CICS will load the mapset and locate the ADS descriptor for the map, and the address of this descriptor will be passed to the LT exit in the command area. The format of this descriptor is defined in ADS\_descriptor. If this field has any value other than 'Y', then CICS will not attempt to load the mapset and locate the descriptor, and brxa\_ADS\_descriptor\_ptr will be set to null.

**BRXA\_TRACE**

This field is set to 'Y' if level 2 tracing is set on for BR.

The exit should use this flag to trace important information for diagnostic purposes. In particular the input and output data should be traced. Note that for BR level 2 tracing, the BRXA is already traced by CICS on input and output.

**BRXA\_FACILITYLIKE**

The name of an installed 3270 terminal to be used as a template terminal definition for constructing the bridge facility.

If a value is not specified CICS will look for a value specified as FACILITYLIKE in the user transaction's profile. If this value is also blanks, CICS will use the new CICS-supplied definition CBRF (based on model DFHLU2).

If the specified FACILITYLIKE does not exist the Bridge CICS abends the transaction ABRJ.

It is not possible to change the FACILITYLIKE definition after the terminal has been created, so this parameter is ignored if FACILITYTYPE is specified.

If the template terminal definition is defined with QUERY(COLD) or QUERY(ALL) this will be ignored, and the predefined characteristics used.

**BRXA\_ FACILITY\_ KEEP\_ TIME**

This field specifies the time (in seconds) that the Bridge Facility will be kept after the User transaction terminates. If a non zero value is set in this field the Bridge Facility, and its pseudo conversational data will remain.

This field is initially set to zero on the BRXA\_ INIT call. The exit only needs to set the value in the BRXA\_ TERM call.

The maximum value is 1 week (604800 seconds). If a value larger than this is specified, CICS will keep the Bridge Facility for 1 week.

**BRXA\_ FACILITYTYPE**

A token representing the Bridge Facility to be used. This value can be set on the BRXA\_ INIT call.

Specifying a value implies reusing a Bridge Facility kept when a previous Bridge ran a user transaction, and kept the terminal.

The default value of nulls will result in CICS dynamically allocating a new Bridge Facility.

The name of the Bridge facility used is accessible to the user transaction in the EIBTRMID field of the EIB. No other TERMID's in the system will be the same, although the name may be re-used almost immediately when the user transaction finishes.

**BRXA\_ SCREEN\_ HEIGHT**

The current screen height

**BRXA\_ SCREEN\_ WIDTH**

The current screen width

**BRXA\_ ALTERNATE\_ SCREEN\_ HEIGHT**

The alternate screen height

**BRXA\_ ALTERNATE-SCREEN\_ WIDTH**

The alternate screen width

**BRXA\_ IDENTIFIER**

a 48 character field which can be used by the exit routine to associate the request with the specific use of the exit (for example, the MQ correlator for the MQ bridge, and the TCP/IP id for the Web).

**BRXA\_ FORMATTER**

An 8 byte character field to be used by the exit routine to specify the name of a formatter. If a value is specified in this field, then the formatter is called for BMS, TC, and IC requests. The bridge exit is only called for XM, SYNC and MSG requests.

**BRXA\_ CALL\_EXIT\_ FOR\_SYNC**

Should the bridge exit be called for syncpoint.

**BRXA\_ NEXTTRANID\_SOURCE**

How was the next transid created?

BRXA\_ IMMEDIATE By a RETURN TRANSID IMMEDIATE command

BRXA\_ STARTED By a START TRANSID command

BRXA\_ NORMAL By a RETURN TRANSID or SET NEXTTRANID command

**BRXA\_ BRDATA\_PTR**

Address of the data specified by the BRDATA parameter on the START TRANSID BREXIT command.

**BRXA\_ BRDATA\_LEN**

Length of the BRDATA, as given on the START TRANSID BREXIT command.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	180	BRXA_TRANSACTION_ AREA	
(0)	CHARACTER	8	BRXA_TRAN_ AREA_EYECATCHER	
(8)	CHARACTER	4	BRXA_BRIDGE_ TRANID	
(C)	CHARACTER	4	BRXA_TRANID	
(10)	CHARACTER	4	BRXA_NEXTTRANID	
(14)	CHARACTER	4	BRXA_ABEND_CODE	
(18)	CHARACTER	8	BRXA_CALLING_ PROG	
(20)	CHARACTER	8	BRXA_USERID	
(28)	CHARACTER	8	*	reserved applid
(30)	CHARACTER	2	BRXA_STARTCODE	
(32)	CHARACTER	1	BRXA_LOAD_ ADS_DESCRIPTOR	
(33)	CHARACTER	1	BRXA_TRACE	
(34)	CHARACTER	4	BRXA_FACILITYLIKE	
(38)	UNSIGNED	4	BRXA_FACILITY_ KEEP_ TIME	

Offset Hex	Type	Len	Name (Dim)	Description
(3C)	CHARACTER	8	BRXA_FACILITY_ TOKEN	
(44)	HALFWORD	2	BRXA_SCREEN_ HEIGHT	
(46)	HALFWORD	2	BRXA_SCREEN_ WIDTH	
(48)	HALFWORD	2	BRXA_ALTERNATE_ SCREEN_ HEIGHT	
(4A)	HALFWORD	2	BRXA_ALTERNATE_ SCREEN_ WIDTH	
(4C)	CHARACTER	48	BRXA_IDENTIFIER	
new for CTS 1.3				
(7C)	CHARACTER	8	BRXA_FORMATTER	
(84)	CHARACTER	1	BRXA_CALL_ EXIT_FOR_SYNC	
(85)	CHARACTER	1	BRXA_NEXTTRANID_ SOURCE	
(86)	CHARACTER	6	*	
(8C)	CHARACTER	8	*	reserved
(94)	ADDRESS	4	BRXA_BRDATA_PTR	
(98)	FULLWORD	4	BRXA_BRDATA_LEN	
(9C)	CHARACTER	4	BRXA_INTERVAL	
(A0)	CHARACTER	4	BRXA_TIME	
(A4)	FULLWORD	4	BRXA_HOURS	
(A8)	FULLWORD	4	BRXA_MINUTES	
(AC)	FULLWORD	4	BRXA_SECONDS	
(B0)	CHARACTER	1	BRXA_START_AFTER	
(B1)	CHARACTER	1	BRXA_START_AT	
(B2)	CHARACTER	2	*	For alignment
(B4)	CHARACTER		*	

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The command area contains information relating to the command which has caused the Bridge Exit to be called.

Some fields are common for all commands, and there are some fields for specific commands.

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The common fields of the command area are:

**BRXA\_COMMAND\_AREA\_EYECATCHER**

An eyecatcher to identify the area as an LT Command Area. This will be set by CICS, before passing control to the Bridge Exit, to the value BRXA\_COMMAND\_AREA\_EYE (>BRCOMMA), which is defined in the DFHBRACx copy book.

**BRXA\_FUNCTION\_CODE**

A two character code identifying the CICS function for which the Bridge Exit is called. For calls for Initialise Transaction, Terminate Transaction and Abend Transaction this is 'XM'. For all other requests, this is the value in the first byte of EIBFN converted to character form. Valid EBCDIC characters are used for the function and command code to simplify testing of the values in User Transaction Exit programs written in all the supported languages, and to simplify passing of the codes to other systems. Constants with meaningful names are provided for all the supported languages to simplify testing.

**BRXA\_COMMAND\_CODE**

A two character code identifying the CICS command for which the Bridge Exit is called. For Initialise Transaction this is 'IN', for Terminate Transaction this is 'TM' and, for Abend Transaction this is 'AB'. For all other requests, this is the value in the second byte of EIBFN converted to character form. Valid EBCDIC characters are used for the function and command code to simplify testing of the values in User Transaction Exit programs written in all the supported languages, and to simplify passing of the codes to other systems. Constants with meaningful names are provided for all the supported languages to simplify testing.

**BRXA\_USER\_ABEND\_CODE**

If this field is set to a non blank value (the default), CICS will generate a transaction abend with this code.

Note that if the exit issues an EXEC CICS ABEND requests, this will result in a CICS DUMP, and will disable the exit.

**BRXA\_FROM\_PTR**

The address of the FROM data in SEND, CONVERSE, SEND MAP, SEND TEXT and START commands. This will be zero for other commands, or if FROM not specified on the command.

**BRXA\_FROM\_LEN**

The length of the FROM data in SEND, CONVERSE, SEND MAP, SEND TEXT and START commands. This will be zero for other commands, or if FROM not specified on the command. The length is a fullword.

**BRXA\_INT0\_PTR**

The address of the INTO data in RECEIVE, CONVERSE, RECEIVE MAP and RETRIEVE commands. This must be set by the User Transaction Exit, and CICS will copy data from this address into the INTO area specified on the command, or will copy the address into the SET parameter specified on the command.

**BRXA\_INT0\_LEN**

The length of the INTO data in RECEIVE, CONVERSE, RECEIVE MAP and RETRIEVE commands. This must be set by the User Transaction Exit, and CICS will copy this value into LENGTH, FLENGTH or INTOLENGTH parameter specified on the command, and use the value when copying data into the INTO area. The length is a fullword.

NOTE: CONVERSE is the only command which has both FROM and INTO, and the BRXA\_FROM\_PTR and BRXA\_INT0\_PTR (and corresponding lengths) could be replaced by a single BRXA\_DATA\_PTR (and BRXA\_DATA\_LEN), and in the case of CONVERSE the exit would replace the FROM address and length by the INTO address and length.

**BRXA\_RESP**

The resp code to be set (by CICS) in EIBRESP. This will be set to zero by CICS before calling the exit, and the exit must set this value if anything other than a normal response is required.

CICS will generate an ABRN transaction abend if the value returned is not one that could normally be produced by CICS for this command. If this value is zero, CICS may itself set the EIBRESP value and raise a condition.

**BRXA\_RESP2**

The resp code to be set (by CICS) in EIBRESP2. This will be set to zero by CICS before calling the exit, and the exit must set this value if anything other than a normal response is required.

CICS does not check the value specified for consistency with the command. If this value is zero, CICS may itself set the EIBRESP value and raise a condition.

**BRXA\_CPOSN**

The cursor position to be set (by CICS) in EIBCPOSN for RECEIVE, CONVERSE, RECEIVE MAP commands. This will be set to zero by CICS before calling the exit, and the exit must set this value, if the User Transaction uses the value in EIBCPOSN.

**BRXA\_AID**

The attention id (PF key code) to be set (by CICS) in EIBAID for RECEIVE, CONVERSE, RECEIVE MAP commands. This will be set to ENTER (X'7D') by CICS before calling the exit, and the exit must set this value, if the User Transaction uses the value in EIBAID. The exit can use the values defined in DFHAID copy books to set the value (these are EBCDIC values of the 3270 AID characters).

**BRXA\_ERASE\_INDICATOR**

A one character value which is set (by CICS) to indicate whether ERASE, ERASE ALTERNATE or ERASE DEFAULT is specified on SEND, CONVERSE SEND MAP, SEND TEXT or SEND CONTROL commands. Constants with meaningful names are provided for all languages to allow the Bridge Exit to test this value if necessary.

**BRXA\_LAST\_INDICATOR**

a one character field indicating whether LAST specified on SEND command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

**BRXA\_WAIT\_INDICATOR**

a one character field indicating whether WAIT specified on SEND, RETRIEVE or ISSUE ERASEAUP. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

**BRXA\_FMT\_RESPONSE**

This field is used by the formatter to tell the CICS that the bridge exit should be called to read or write a message.

Possible values are:

**BRXA\_FMT\_NONE**

No action. The formatter has processed the request.

**BRXA\_FMT\_OUTPUT\_BUFFER\_FULL**

There is no room to add the next vector. Call the bridge exit to write the message, clear the buffer, then call the formatter again.

**BRXA\_FMT\_WRITE\_MESSAGE**

The request required data to be flushed. Call the bridge exit to write the message.

**BRXA\_FMT\_REQUEST\_NEXT\_MESSAGE**

The formatter has run out of data in the message. Call the bridge exit to read a message, then call the formatter again.

**BRXA\_FMT\_READ\_MESSAGE\_NOWAIT**

The formatter has run out of data in the message. Check to see if there is a new message before requesting any further input. Call the bridge exit to read a message, then call the formatter again.

**BRXA\_READ\_NOWAIT\_ISSUED**

This field is used by the formatter to check if it has already returned a brxa\_fmt\_read\_message\_nowait for this command.

**BRXA\_NO**

A brxa\_fmt\_read\_message\_nowait has not been returned for this command.

**BRXA\_YES**

A brxa\_fmt\_read\_message\_nowait has been returned for this command.

**BRXA\_REQUEST\_NEXT\_ISSUED**

This field is used by the formatter to check if it has already returned a brxa\_fmt\_request\_next\_message for this command.

**BRXA\_NO**

A brxa\_fmt\_request\_next\_message has not been returned for this command.

**BRXA\_YES**

A brxa\_fmt\_request\_next\_message has been returned for this command.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	48	BRXA_COMMAND_COMMON	
(0)	CHARACTER	8	BRXA_COMMAND_ AREA_EYECATCHER	
(8)	CHARACTER	2	BRXA_FUNCTION_CODE	
(A)	CHARACTER	2	BRXA_COMMAND_CODE	
(C)	CHARACTER	4	BRXA_USER_ ABEND_CODE	
(10)	ADDRESS	4	BRXA_FROM_PTR	
(14)	FULLWORD	4	BRXA_FROM_LEN	
(18)	ADDRESS	4	BRXA_INTO_PTR	
(1C)	FULLWORD	4	BRXA_INTO_LEN	
(20)	HALFWORD	2	BRXA_RESP	
(22)	HALFWORD	2	BRXA_RESP2	
(24)	HALFWORD	2	BRXA_CPOSN	
(26)	CHARACTER	1	BRXA_AID	
(27)	CHARACTER	1	BRXA_ERASE_INDICATOR	
(28)	CHARACTER	1	BRXA_LAST_INDICATOR	
(29)	CHARACTER	1	BRXA_WAIT_INDICATOR	
<hr/>				
new for CTS 1.3				
(2A)	CHARACTER	1	BRXA_FMT_RESPONSE	
(2B)	CHARACTER	1	BRXA_READ_ NOWAIT_ISSUED	
(2C)	CHARACTER	1	BRXA_REQUEST_ NEXT_ISSUED	
(2D)	CHARACTER	3	*	reserved

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This command area defines actions at the initialisation and termination of the bridge. There are four functions:

**Init**  
The purpose of this call is for the Bridge Exit pass CICS various parameters to run the transaction. Typically the BRDATA will be used to obtain this information.

The following values can be set in the transaction and common areas area for this request.

- BRXA\_STARTCODE
- BRXA\_LOAD\_ADS\_DESCRIPTOR
- BRXA\_FACILITYLIKE
- BRXA\_FACILITY\_TOKEN
- BRXA\_USER\_ABEND\_CODE
- BRXA\_IDENTIFIER
- BRXA\_FORMATTER

Requests using recoverable resources can not be made in this call.

**Bind**  
The purpose of this call is for the Bridge Exit to obtain data to answer 3270 requests in subsequent calls.

Recoverable requests can be made in this call.

The exit must not use the TWA, as this is not setup for the Bridge.

The following values can be set in the transaction and common areas area for this request.

- BRXA\_STARTCODE
- BRXA\_LOAD\_ADS\_DESCRIPTOR
- BRXA\_FACILITY\_KEEP\_TIME
- BRXA\_USER\_ABEND\_CODE
- BRXA\_IDENTIFIER

**Term**  
The purpose of this call is to inform the Bridge Exit that the user transaction is terminating. It also identifies the next transaction if this has been specified by the user transaction.

This call is not made if the user transaction abends.

Recoverable requests can be made in this call.

The following values can be set in the transaction and common areas area for this request.

- BRXA\_FACILITY\_KEEP\_TIME
- BRXA\_USER\_ABEND\_CODE

**Abend**  
In the event of the user transaction abending this call allows the Bridge Exit to issue non recoverable requests to the external resource, for example a non-syncpointing MQPUT can be issued for the MQ Bridge.

The call can also change the abend code.

Recoverable requests can not be made in this call.

The following values can be set in the transaction and common areas area for this request Any other values are ignored.

- BRXA\_FACILITY\_KEEP\_TIME
- BRXA\_USER\_ABEND\_CODE

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	48	BRXA_XM_COMMAND	
(0)	CHARACTER	48	*	
(30)	CHARACTER		*	

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The Terminal Control command interface overlays the common command interface, and defines some Terminal Control specific parameters.

Commands supported are SEND, RECEIVE and CONVERSE.

The terminal control specific parameters are

#### BRXA\_CTLCHAR

The 3270 Write Control Character (WCC) passed on SEND and CONVERSE commands as CTLCHAR. If not specified on the command the default value (X'C3'- unlock keyboard, reset MDT flags) is passed to the exit.

#### BRXA\_BUFFER\_INDICATOR

a one character field indicating whether BUFFER specified on RECEIVE command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

(BUFFER is not allowed on CONVERSE - diagnosed by translator)

#### BRXA\_STRFIELD\_INDICATOR

a one character field indicating whether STRFIELD specified on SEND or CONVERSE command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

#### BRXA\_DEFRESP\_INDICATOR

a one character field indicating whether DEFRESP specified on SEND or CONVERSE command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

#### BRXA\_INVITE\_INDICATOR

a one character field indicating whether INVITE specified on SEND command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	53	BRXA_TC_COMMAND	
(0)	CHARACTER	48	*	
(30)	CHARACTER	1	BRXA_CTLCHAR	
(31)	CHARACTER	1	BRXA_BUFFER_ INDICATOR	
(32)	CHARACTER	1	BRXA_STRFIELD_ INDICATOR	
(33)	CHARACTER	1	BRXA_DEFRESP_ INDICATOR	
(34)	CHARACTER	1	BRXA_INVITE_ INDICATOR	



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The BMS command interface overlays the common command interface, and defines some BMS specific parameters.

Commands supported are SEND MAP, SEND TEXT, SEND CONTROL and RECEIVE MAP.

The BMS specific parameters are:

**BRXA\_MAPSET**

The (unaffixed) mapset name specified on SEND MAP or RECEIVE MAP.

**BRXA\_MAP**

The map name specified on SEND MAP or RECEIVE MAP.

**BRXA\_ADS\_DESCRIPTOR\_PTR**

The address of the ADS descriptor for BMS SEND MAP and RECEIVE MAP commands. This will be set by the interface code, if the Bridge has set the flag in the BRXA indicating that the descriptor should be loaded, and if the relevant mapset has been regenerated to include the descriptor. Otherwise this pointer will be set to 0.

**BRXA\_CURSOR**

A halfword value containing the CURSOR position specified on SEND MAP, SEND TEXT or SEND CONTROL command, which identifies where the cursor is to be positioned on the 3270 screen. A value of -1 is passed if the application specified CURSOR with no value on SEND MAP command, indicating that symbolic cursor positioning is required, that is, that the cursor is to be positioned in the first field in the application data structure that has a value of -1 in the corresponding length field. A value of -2 is passed if the application did not specify CURSOR on the SEND MAP command.

**BRXA\_MSR\_DATA**

The four character value specified in MSR on SEND MAP, SEND CONTROL or SEND TEXT command. Constants are provided in the copy book DFHMSRCA which will allow the exit to test the values specified.

NOTE: If we can assume that a BFB will always be constructed as if its TYPETERM was defined with MSRCONTROL(NO), then this parameter could be omitted, as for a 3270 terminal for which MSRCONTROL(NO) is specified, BMS ignores the MSR field specified on the command.

**BRXA\_DATA\_INDICATOR**

a one character field indicating whether DATAONLY, MAPONLY or neither are specified on the SEND MAP command. Valid values are 'D' (DATAONLY), 'M' (MAPONLY) or 'N' (neither specified) and constants are provided for the exit to test this field. (Note that if MAPONLY is specified, the FROM pointer and length will be zero, as there is no Application Data Structure in this case.)

**BRXA\_ERASEAUP\_INDICATOR**

a one character field indicating whether ERASAUP is specified on a SEND MAP or SEND CONTROL command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

**BRXA\_FREEKB\_INDICATOR**

a one character field indicating whether FREEKB is specified on a SEND MAP SEND TEXT or SEND CONTROL command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

**BRXA\_ALARM\_INDICATOR**

a one character field indicating whether ALARM is specified on a SEND MAP, SEND TEXT or SEND CONTROL command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

**BRXA\_MSR\_INDICATOR**

a one character field indicating whether MSR is specified on a SEND MAP, SEND TEXT or SEND CONTROL command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

**BRXA\_FRSET\_INDICATOR**

a one character field indicating whether FRSET is specified on a SEND MAP or SEND CONTROL command. Valid values are 'Y' or 'N', and constants are provided for the exit to test this field.

**BRXA\_TEXT\_TYPE**

a one character field indicating whether NOEDIT or MAPPED is specified on a SEND TEXT command. Valid values are '' (neither NOEDIT nor MAPPED specified), 'N' (NOEDIT specified) and 'M' (MAPPED specified) and constants are provided for the exit to test this field.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	81	BRXA_BMS_COMMAND	
(0)	CHARACTER	48	*	
(30)	CHARACTER	7	BRXA_MAPSET	
(37)	CHARACTER	1	*	reserved
(38)	CHARACTER	7	BRXA_MAP	
(3F)	CHARACTER	1	*	reserved
(40)	ADDRESS	4	BRXA_ADS_	
			DESCRIPTOR_PTR	
(44)	HALFWORD	2	BRXA_CURSOR	
(46)	CHARACTER	4	BRXA_MSR_DATA	
(4A)	CHARACTER	1	BRXA_DATA_INDICATOR	
(4B)	CHARACTER	1	BRXA_ERASEAUP_	
			INDICATOR	
(4C)	CHARACTER	1	BRXA_FREEKB_	
			INDICATOR	
(4D)	CHARACTER	1	BRXA_ALARM_INDICATOR	
(4E)	CHARACTER	1	BRXA_FRSET_INDICATOR	
(4F)	CHARACTER	1	BRXA_MSR_INDICATOR	
(50)	CHARACTER	1	BRXA_TEXT_TYPE	

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The Interval Control command interface overlays the common command interface, and defines some Interval Control specific parameters.

The only command supported is RETRIEVE.

The Interval Control specific parameters are:

#### BRXA\_RTERMID

The value of RTERMID specified on START command. For the RETRIEVE command this is a field that the Bridge Exit can set to pass the RTERMID value back to the application issuing the RETRIEVE.

#### BRXA\_RTRANSID

The value of RTRANSID specified on START command. For the RETRIEVE command this is a field that the Bridge Exit can set to pass the RTRANSID value back to the application issuing the RETRIEVE.

#### BRXA\_QUEUE

The value of QUEUE specified on START command. For the RETRIEVE command this is a field in which the Bridge Exit can set the QUEUE value to be used by the application issuing the RETRIEVE.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	64	BRXA_IC_COMMAND	
(0)	CHARACTER	48	*	
(30)	CHARACTER	4	BRXA_RTERMID	
(34)	CHARACTER	4	BRXA_RTRANSID	
(38)	CHARACTER	8	BRXA_QUEUE	

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This command area defines actions at syncpoint and syncpoint rollback. brxa\_ explicit is used to indicate whether this request originated from an explicit EXEC CICS SYNCPOINT command, or whether it is an implicit syncpoint generated by CICS. It will be set to 'Y' or 'N' prior to invoking the exit, and constants are provided for the exit to test this field. Valid values for rollback are 'Y' or 'N', and constants are provided for the exit to test this field.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	50	BRXA_SYNC_COMMAND	
(0)	CHARACTER	48	*	
(30)	CHARACTER	1	BRXA_EXPLICIT	
(31)	CHARACTER	1	BRXA_ROLLBACK	

```
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-  
  
This command area defines actions when the bridge exit is called  
to read or write a message. These functions are only used if the  
bridge exit specified a formatter on initialisation.  
  
This command area defines the following functions:  
  
Init  
The purpose of this call is for the Bridge Exit pass CICS  
various parameters to run the transaction. Typically the BRDATA  
will be used to obtain this information.  
  
The following values can be set in the transaction and common  
areas area for this request.  
  
- BRXA_ STARTCODE  
  
- BRXA_ LOAD_ADS_ DESCRIPTOR  
  
- BRXA_ FACILITYLIKE  
  
- BRXA_ FACILITY_TOKEN  
  
- BRXA_ USER_ABEND_CODE  
  
- BRXA_ IDENTIFIER
```

Offset	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	48	BRXA_MSG_COMMAND	
(0)	CHARACTER	48	*	

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The ADS descriptor is provided to allow interpretation of the BMS Application Data Structure - that is, the structure used by the application program for the data in SEND and RECEIVE MAP requests - by an exit program, without requiring the exit program to include the relevant copy book at compile time.

The ADS descriptor is only available if the map load module has been reassembled to include the descriptor, and CICS only attempts to locate the descriptor if the brxa\_load\_ADS\_ descriptor indicator is set to brxa\_ yes in the Bridge Exit initialisation call.

The ADS descriptor contains a header containing general information about the map, together with a field descriptor for every field which appears in the ADS, that is every named field in the map definition macro.

The header consists of the following information

#### ADSD\_LENGTH

The length of the ADS descriptor

#### ADSD\_EYECATCHER

An eyecatcher ('ADSD') to identify this as an ADS descriptor

#### ADSD\_MAP\_INDEX

The index of the map within the mapset. This is needed to determine the HTML template corresponding to the map.

#### ADSD\_FIELD\_COUNT

the number of fields within the ADS, that is the number of named fields in the map definition macros. A separate field is counted for each element of an array defined with the OCCURS parameter, but subfields of group fields (GRPNAME) are not counted. The field count may be zero, in which case there are no field descriptors following the header.

#### ADSD\_STRUCTURE\_LENGTH

the length of the application data structure

#### ADSD\_ATTRIBUTE\_NUMBER

the number of extended attributes in each field of the ADS, that is the number of attributes specified in DSATTS in the map definition.

#### ADSD\_ATTRIBUTE\_TYPE\_CODES

one character code for the attribute types in each field, in order, derived from DSATTS

- C = COLOR

- P = PS

- H = HILIGHT

- V = VALIDN

- O = OUTLINE

- S = SOSI

- T = TRANSP

#### ADSD\_MAP\_JUSTIFY\_HOR

the horizontal justification for the map, either L (LEFT) or R (RIGHT) from JUSTIFY operand on map definition.

#### ADSD\_MAP\_JUSTIFY\_VER

the vertical justification for the map, from JUSTIFY operand on map definition. This can have the values F (FIRST), L (LAST) or B (BOTTOM) or blank (no vertical JUSTIFY operand).

#### ADSD\_MAP\_STARTING\_LINE

the starting line for the map, from LINE operand on DFHMDI macro (LINE = NEXT will give a value of 255, LINE = SAME will give a value of 254)

#### ADSD\_MAP\_STARTING\_COLUMN

the starting column for the map, from COLUMN operand on DFHMDI macro (COLUMN = NEXT will give a value of 255, COLUMN = SAME will give a value of 254)

#### ADSD\_MAP\_LINES

the number of lines in the map from SIZE= operand

#### ADSD\_MAP\_COLUMNS

the number of columns in the map from SIZE= operand

#### ADSD\_WRITE\_CONTROL\_CHAR

the 3270 encoded WCC derived from CONTROL= operand

#### ADSD\_FIRST\_FIELD

the first field descriptor occurs here. Use the address of ADSD\_FIRST\_FIELD as the initial value of the pointer for the field descriptor (unless ADSD\_field\_count is 0).

The field descriptor for each field within the map consists of

ADSD\_FIELD\_NAME  
 the unaffixed field name padded with blanks  
 ADSD\_FIELD\_NAME\_LEN  
 the number of characters in the field name  
 ADSD\_OCCURS\_INDEX  
 when OCCURS is specified for a field definition there will be a separate field descriptor for each element of the array, and occurs\_ index will indicate the array index for the particular field if OCCURS not specified, then occurs\_ index will be 0  
 ADSD\_FIELD\_OFFSET  
 the offset of the field within the ADS the offset is to the beginning of the (halfword) length field, and users must add 2 (for the length field) + 1 (for the 3270 attribute) + attribute\_ number (for the extended attributes specified in DSATTS) to get the offset of the data part of the field  
 ADSD\_FIELD\_DATA\_LEN  
 the length of the field in the ADS  
 ADSD\_FIELD\_JUSTIFY  
 indicates whether the data is to be justified left (L) or right (R) if the supplied length is less than the length in the ADS  
 ADSD\_FIELD\_FILL\_CHAR  
 the character (blank or '0') to be used to fill the remainder of the field in the ADS.  
 ADSD\_NEXT\_FIELD  
 the next field descriptor occurs here. Use the address of ADSD\_ NEXT\_FIELD to update the pointer for the field descriptor.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	ADS_DESCRIPTOR	
(0)	HALFWORD	2	ADSD_LENGTH	
(2)	CHARACTER	4	ADSD_EYECATCHER	
(6)	HALFWORD	2	ADSD_MAP_INDEX	
(8)	HALFWORD	2	ADSD_FIELD_COUNT	
(A)	HALFWORD	2	ADSD_STRUCTURE_LENGTH	
(C)	HALFWORD	2	ADSD_ATTRIBUTE_NUMBER	
(E)	CHARACTER	1	ADSD_ATTRIBUTE_TYPE_CODES (12)	
(1A)	CHARACTER	1	ADSD_MAP_JUSTIFY_HOR	
(1B)	CHARACTER	1	ADSD_MAP_JUSTIFY_VER	
(1C)	HALFWORD	2	ADSD_MAP_STARTING_LINE	
(1E)	HALFWORD	2	ADSD_MAP_STARTING_COLUMN	
(20)	HALFWORD	2	ADSD_MAP_LINES	
(22)	HALFWORD	2	ADSD_MAP_COLUMNS	
(24)	CHARACTER	1	ADSD_WRITE_CONTROL_CHAR	
(25)	CHARACTER	1	*	
(26)	CHARACTER	*	ADSD_FIRST_FIELD	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	ADS_FIELD_DESCRIPTOR	
(0)	CHARACTER	32	ADSD_FIELD_NAME	
(20)	HALFWORD	2	ADSD_FIELD_NAME_LEN	
(22)	HALFWORD	2	ADSD_OCCURS_INDEX	
(24)	HALFWORD	2	ADSD_FIELD_OFFSET	
(26)	HALFWORD	2	ADSD_FIELD_DATA_LEN	
(28)	CHARACTER	1	ADSD_FIELD_JUSTIFY	
(29)	CHARACTER	1	ADSD_FIELD_FILL_CHAR	
(2A)	CHARACTER	*	ADSD_NEXT_FIELD	

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Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	ADS_LONG_DESCRIPTOR	
(0)	FULLWORD	4	ADSDL_LENGTH	
(4)	CHARACTER	4	ADSDL_EYECATCHER	
(8)	FULLWORD	4	ADSDL_MAP_INDEX	

Offset Hex	Type	Len	Name (Dim)	Description
(C)	FULLWORD	4	ADSDL_FIELD_COUNT	
(10)	FULLWORD	4	ADSDL_STRUCTURE_LENGTH	
(14)	FULLWORD	4	ADSDL_ATTRIBUTE_NUMBER	
(18)	CHARACTER	1	ADSDL_ATTRIBUTE_TYPE_CODES (12)	
(24)	CHARACTER	1	ADSDL_MAP_JUSTIFY_HOR	
(25)	CHARACTER	1	ADSDL_MAP_JUSTIFY_VER	
(26)	CHARACTER	2	*	
(28)	FULLWORD	4	ADSDL_MAP_STARTING_LINE	
(2C)	FULLWORD	4	ADSDL_MAP_STARTING_COLUMN	
(30)	FULLWORD	4	ADSDL_MAP_LINES	
(34)	FULLWORD	4	ADSDL_MAP_COLUMNS	
(38)	CHARACTER	1	ADSDL_WRITE_CONTROL_CHAR	
(39)	CHARACTER	3	*	
(3C)	CHARACTER	*	ADSDL_FIRST_FIELD	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	ADS_LONG_FIELD_DESCRIPTOR	
(0)	CHARACTER	32	ADSDL_FIELD_NAME	
(20)	FULLWORD	4	ADSDL_FIELD_NAME_LEN	
(24)	FULLWORD	4	ADSDL_OCCURS_INDEX	
(28)	FULLWORD	4	ADSDL_FIELD_OFFSET	
(2C)	FULLWORD	4	ADSDL_FIELD_DATA_LEN	
(30)	CHARACTER	1	ADSDL_FIELD_JUSTIFY	
(31)	CHARACTER	1	ADSDL_FIELD_FILL_CHAR	
(32)	CHARACTER	2	*	
(34)	CHARACTER	*	ADSDL_NEXT_FIELD	

## CDBLK Convdata block

CONTROL BLOCK NAME = DFHCDBLK  
 DESCRIPTIVE NAME = CICS CONVDATA Block.  
 FUNCTION = CONVDATA interface block

This data area is specified on the CONVDATA option in GDS commands (see the CICS Distributed Transaction Processing Guide for a description of GDS commands for LU6.2).  
 An application program can include the Assembler or C versions of the copybook to define the area.

LIFETIME =  
 STORAGE CLASS =  
 LOCATION =  
 INNER CONTROL BLOCKS =

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES =  
 DATA AREAS =  
 CONTROL BLOCKS =  
 GLOBAL VARIABLES (Macro pass) =

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	24	DFHCDBLK	CONVDATA BLOCK
(0)	CHARACTER	1	CDBCAMPL	X'FF' DATA COMPLETE
(1)	CHARACTER	1	CDBSYNC	X'FF' SYNCPOINT REQUESTED
(2)	CHARACTER	1	CDBFREE	X'FF' FREE REQUESTED
(3)	CHARACTER	1	CDBRECV	X'FF' RECEIVE REQUIRED
(4)	CHARACTER	1	CDBSIG	X'FF' SIGNAL RECEIVED
(5)	CHARACTER	1	CDBCONF	X'FF' CONFIRM REQUESTED
(6)	CHARACTER	1	CDBERR	X'FF' ERROR RECEIVED
(7)	CHARACTER	4	CDBERRCD	ERROR CODE RECEIVED
(B)	CHARACTER	1	CDBSYNRB	X'FF' SYNC ROLLBACK REQUESTED
(C)	CHARACTER	12	CDBRSVD	RESERVED

## CFS6D Cfdt server cf statistics

CONTROL BLOCK NAME = DFHCFS6D  
 DESCRIPTIVE NAME = CICS (CFDT) Statistics for list structure.  
 FUNCTION = CF Statistics for list structure usage and access.  
 LIFETIME = N/A  
 STORAGE CLASS = N/A  
 LOCATION = N/A  
 N/A  
 NOTES :  
 DEPENDENCIES = S/370  
 MODULE TYPE = Control block definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHCFS6D	, CF list structure statistics record
(0)	FULLWORD	4	S6 (0)	Start of record
(0)	HALFWORD	2	S6LEN	Length of data area
	.111 111.		S6IDE	"0126" List structure stats mask
(2)	ADDRESS	2	S6ID	List structure stats id
	.... ...1		S6VERS	"X'01" DSECT version number mask
(4)	CHARACTER	1	S6DVERS	List structure stats version number
(5)	CHARACTER	3		Reserved

### Coupling facility list structure status information.

(8)	CHARACTER	16	S6NAME (0)	Full name of list structure
(8)	CHARACTER	8	S6PREF	First part of structure name
(10)	CHARACTER	8	S6POOL	Pool name part of structure name
(18)	CHARACTER	16	S6CNNAME (0)	Name for connection to structure
(18)	CHARACTER	8	S6CNPREF	Prefix for connection name
(20)	CHARACTER	8	S6CNSYSN	Own MVS system name from CVTSNAME
(28)	ADDRESS	4	S6SIZE	Structure size (unsigned fullword)
(2C)	ADDRESS	4	S6SIZEMX	Maximum structure size
(30)	FULLWORD	4	S6HDRS	Maximum number of list headers
(34)	FULLWORD	4	S6HDRSCT	Headers used for control lists
(38)	FULLWORD	4	S6HDRSTD	Headers available for table data
(3C)	FULLWORD	4	S6ELEMNL	Data element size as a fullword
(40)	ADDRESS	4	S6ELEMPLW	Data element size as power of 2
(44)	ADDRESS	4	S6ELEMPE	Max elements per entry (for 32K)
(48)	FULLWORD	4	S6ELEMRT	Element side of entry:element ratio
(4C)	FULLWORD	4	S6ENTRRT	Entry side of entry:element ratio

### Usage statistics.

#### Entry and element usage statistics.

Note that lowest free counts are kept as well as highest in use counts because the maximum values may be affected by an ALTER.

(50)	FULLWORD	4	S6ENTRCT	Current number of entries in use
(54)	FULLWORD	4	S6ENTRHI	Highest number of entries in use
(58)	FULLWORD	4	S6ENTRLO	Lowest number of free entries
(5C)	FULLWORD	4	S6ENTRMX	Max entries returned by IXLCONN
(60)	FULLWORD	4	S6ELEMCT	Current number of elements in use
(64)	FULLWORD	4	S6ELEMHI	Highest number of elements in use
(68)	FULLWORD	4	S6ELEMLO	Lowest number of free elements
(6C)	FULLWORD	4	S6ELEMXX	Max elements returned by IXLCONN

### List entry counts returned by IXLLIST requests.

Note that when lists are moved from free to used and vice versa, IXLLIST only returns the target information, so the counts are often slightly inconsistent.

(70)	DBL WORD	8	S6USEVEC (0)	Usage vector, five pairs of words
(70)	FULLWORD	4	S6USEDCT	Number of entries on used list
(74)	FULLWORD	4	S6USEDHI	Highest entries on used list
(78)	FULLWORD	4	S6FREECT	Number of entries on free list
(7C)	FULLWORD	4	S6FREEHI	Highest entries on free list
(80)	FULLWORD	4	S6INDXCT	Number of entries in table index
(84)	FULLWORD	4	S6INDXHI	Highest entries in table index
(88)	FULLWORD	4	S6APPLCT	Number of entries in APPLID list
(8C)	FULLWORD	4	S6APPLHI	Highest entries in APPLID list
(90)	FULLWORD	4	S6UOWLCT	Number of entries in UOW list
(94)	FULLWORD	4	S6UOWLHI	Highest entries in UOW list

### Coupling facility I/O statistics.

Statistics for each main type of CF request.

(98)	FULLWORD	4	S6RDICT	Read table index entry
(9C)	FULLWORD	4	S6WRICT	Write table index entry
(A0)	FULLWORD	4	S6RWICT	Rewrite table index entry
(A4)	FULLWORD	4	S6DLICT	Delete table index entry
(A8)	FULLWORD	4	S6CRLCT	Create list
(AC)	FULLWORD	4	S6MDLCT	Modify list
(B0)	FULLWORD	4	S6DLLCT	Delete list (1 per overall delete)
(B4)	FULLWORD	4	S6RDDCT	Read data item
(B8)	FULLWORD	4	S6WRDCT	Write data item



Offset Hex	Type	Len	Name (Dim)	Description
(BC)	FULLWORD	4	S6RWDCT	Rewrite data item
(C0)	FULLWORD	4	S6DLCT	Delete data item
(C4)	FULLWORD	4	S6INLCT	Inquire on data list
(C8)	FULLWORD	4	S6RDMCT	Read message queue
(CC)	FULLWORD	4	S6WRMCT	Write to message queue
(D0)	FULLWORD	4	S6RDUCT	Read UOW entry
(D4)	FULLWORD	4	S6WRUCT	Write UOW entry
(D8)	FULLWORD	4	S6RWUCT	Rewrite UOW entry
(DC)	FULLWORD	4	S6DLUCT	Delete UOW entry
(E0)	FULLWORD	4	S6RDACT	Read APPLID entry
(E4)	FULLWORD	4	S6WRACT	Write APPLID entry
(E8)	FULLWORD	4	S6RWACT	Rewrite APPLID entry
(EC)	FULLWORD	4	S6DLACT	Delete APPLID entry
Statistics for internal CF requests.				
(F0)	FULLWORD	4	S6RRLCT	Reread entry for full data length
(F4)	FULLWORD	4	S6ASYCT	Number of asynchronous requests
IXLLIST completion statistics indexed by internal response value.				
(F8)	FULLWORD	4	S6RSP1CT	Normal response, everything OK
(FC)	FULLWORD	4	S6RSP2CT	Buffer length was too short for the data, needs full length reread
(100)	FULLWORD	4	S6RSP3CT	No matching entry was found, indicates table not found in index or record not found in table
(104)	FULLWORD	4	S6RSP4CT	Entry version did not match, indicates entry updated by another system or duplicate entry exists when attempting to create entry
(108)	FULLWORD	4	S6RSP5CT	List authority comparison mismatch, caused by table status update
(10C)	FULLWORD	4	S6RSP6CT	Maximum list key reached, indicates max table size or max tables reached depending on list
(110)	FULLWORD	4	S6RSP7CT	The list structure is out of space
(114)	FULLWORD	4	S6RSP8CT	An IXLLIST return code occurred other than those described above
(114)			S6END	***
(114)			S6CLEN	***S6LEN" Length of this DSECT

## CFS7D Cfdt server table statistics

CONTROL BLOCK NAME = DFHCFS7D  
 DESCRIPTIVE NAME = CICS (CFDT) Statistics for table accesses.  
 FUNCTION = CF Statistics for table accesses.  
 LIFETIME = N/A  
 STORAGE CLASS = N/A  
 LOCATION = N/A  
 N/A  
 NOTES :  
 DEPENDENCIES = S/370  
 MODULE TYPE = Control block definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHCFS7D	, CF table access statistics record
(0)	FULLWORD	4	S7 (0)	Start of record
(0)	HALFWORD	2	S7LEN	Length of data area
	.111 1111		S7IDE	"0127" Table access stats mask
(2)	ADDRESS	2	S7ID	Table access stats id
	.... ...1		S7VERS	"X'01" DSECT version number mask
(4)	CHARACTER	1	S7DVERS	Table access stats version number
(5)	CHARACTER	3		Reserved
Coupling facility data table access statistics.				
(8)	CHARACTER	16	S7TABLE	Table name padded with spaces
Statistics vector.				
(18)	BITSTRING	60	S7STATS (0)	Statistics vector
Table control request statistics.				
(18)	FULLWORD	4	S7OCOPEN	Open table
(1C)	FULLWORD	4	S7OCCLOS	Close table
(20)	FULLWORD	4	S7OCSET	Set table attributes
(24)	FULLWORD	4	S7OCDELE	Delete table
(28)	FULLWORD	4	S7OCSTAT	Extract table statistics
Table access request statistics.				
(2C)	FULLWORD	4	S7RQPOIN	Point
(30)	FULLWORD	4	S7RQHIG	Return highest key
(34)	FULLWORD	4	S7RQREAD	Read (including read for update)
(38)	FULLWORD	4	S7RQRDDL	Read and delete
(3C)	FULLWORD	4	S7RQUNLK	Unlock
(40)	FULLWORD	4	S7RQLOAD	Load
(44)	FULLWORD	4	S7RQWRIT	Write (new record)
(48)	FULLWORD	4	S7RQREWR	Rewrite

Offset Hex	Type	Len	Name (Dim)	Description
(4C)	FULLWORD	4	S7RQDELE	Delete
(50)	FULLWORD	4	S7RQDELM	Delete multiple
	.1.1 .1..		S7END	***
	.1.1 .1..		S7CLEN	**-S7LEN" Length of this DSECT

## CFS8D Cfdt server request statistics

CONTROL BLOCK NAME = DFHCFS8D  
 DESCRIPTIVE NAME = CICS (CFDT) Request statistics.  
 FUNCTION = CF data table server request statistics.  
 LIFETIME = N/A  
 STORAGE CLASS = N/A  
 LOCATION = N/A  
 N/A  
 NOTES :  
 DEPENDENCIES = S/370  
 MODULE TYPE = Control block definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHCFS8D	, CFDT request statistics record
(0)	FULLWORD	4	S8 (0)	Start of record
(0)	HALFWORD	2	S8LEN	Length of data area
	1... ....		S8IDE	"0128" Server request stats mask
(2)	ADDRESS	2	S8ID	Server request stats id
	.... ...1		S8VERS	"X'01" DSECT version number mask
(4)	CHARACTER	1	S8DVERS	Server request stats version number
(5)	CHARACTER	3		Reserved
Statistics vector.				
(8)	BITSTRING	88	S8STATS (0)	Statistics vector
Total table control request statistics for all tables.				
(8)	FULLWORD	4	S8OCOPEN	Open table
(C)	FULLWORD	4	S8OCCLOS	Close table
(10)	FULLWORD	4	S8OCSET	Set table attributes
(14)	FULLWORD	4	S8OCDELE	Delete table
(18)	FULLWORD	4	S8OCSTAT	Extract table statistics
Total table access request statistics for all tables.				
(1C)	FULLWORD	4	S8RQPOIN	Point to record
(20)	FULLWORD	4	S8RQHIG	Return highest key
(24)	FULLWORD	4	S8RQREAD	Read record (includes for update)
(28)	FULLWORD	4	S8RQRDDL	Read and delete record
(2C)	FULLWORD	4	S8RQUNLK	Unlock record
(30)	FULLWORD	4	S8RQLOAD	Load record at initial load time
(34)	FULLWORD	4	S8RQWRIT	Write new record
(38)	FULLWORD	4	S8RQREWR	Rewrite existing record
(3C)	FULLWORD	4	S8RQDELE	Delete record
(40)	FULLWORD	4	S8RQDELM	Delete multiple records
Total inquire table statistics.				
(44)	FULLWORD	4	S8IQINQU	Inquire table
Total recovery control request statistics.				
(48)	FULLWORD	4	S8SPPREP	Prepare to commit unit of work
(4C)	FULLWORD	4	S8SPRETA	Retain locks for unit of work
(50)	FULLWORD	4	S8SPCOMM	Commit unit of work
(54)	FULLWORD	4	S8SPBACK	Back out unit of work
(58)	FULLWORD	4	S8SPINQU	Inquire about unit of work
(5C)	FULLWORD	4	S8SPREST	Restart recoverable connection
	.11. ....		S8END	***
	.11. ....		S8CLEN	**-S8LEN" Length of this DSECT

## CFS9D Cfdt server storage statistics

CONTROL BLOCK NAME = DFHCFS9D  
 DESCRIPTIVE NAME = CICS (CFDT) Statistics for server storage.  
 FUNCTION = CF Statistics for server main storage usage.  
 LIFETIME = N/A  
 STORAGE CLASS = N/A  
 LOCATION = N/A  
 N/A  
 NOTES :  
 DEPENDENCIES = S/370  
 MODULE TYPE = Control block definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHCFS9D	, CF main storage statistics record
(0)	FULLWORD	4	S9 (0)	Start of record
(0)	ADDRESS	2	S9LEN	Length of data area
	1... ..1		S9IDE	"0129" CF DT main storage stats mask
(2)	ADDRESS	2	S9ID	CF DT main storage stats id
	.... ..1		S9VERS	"X'01" DSECT version number mask
(4)	ADDRESS	1	S9DVERS	CF DT main storage stats version
(5)	BITSTRING	3		Reserved

These are the statistics returned by the AXM page pool management routines for the pools AXMPGANY and AXMPGLOW. Storage in these pools is allocated in multiples of 4K pages on a 4K boundary. The most frequent use is for segments of LIFO stack storage. Storage is initially allocated from the pool using a bit map. For faster allocation, free areas are not normally returned to the size of the free area (1 to 32 pages). When storage is being acquired, this vector is checked before going to the pool bit map. If there are no free areas of the right size and there is not enough storage left in the pool, free areas in the vector are put back into the pool, starting from the smallest end, until a large enough area has been created. This action appears as a compress attempt in the statistics. If there is still insufficient storage to satisfy the request, the request is failed.  
 Statistics for LOC=ANY storage pool.

(8)	CHARACTER	8	S9ANYNAM	Pool name AXMPGANY
(10)	FULLWORD	4	S9ANYSIZ	Size of storage pool area
(14)	ADDRESS	4	S9ANYPTR	Address of storage pool area
(18)	FULLWORD	4	S9ANYMX	Total pages in the storage pool
(1C)	FULLWORD	4	S9ANYUS	Number of used pages in the pool
(20)	FULLWORD	4	S9ANYFR	Number of free pages in the pool
(24)	FULLWORD	4	S9ANYLO	Lowest free pages (since reset)
(28)	FULLWORD	4	S9ANYRQG	Storage GET requests
(2C)	FULLWORD	4	S9ANYRQF	Gets which failed to obtain storage
(30)	FULLWORD	4	S9ANYRQS	Storage FREE requests
(34)	FULLWORD	4	S9ANYRQC	Compress (defragmentation) attempts

Statistics for LOC=BELOW storage pool.

(38)	CHARACTER	8	S9LOWNAM	Pool name AXMPGLOW
(40)	FULLWORD	4	S9LOWSIZ	Size of storage pool area
(44)	ADDRESS	4	S9LOWPTR	Address of storage pool area
(48)	FULLWORD	4	S9LOWMX	Total pages in the storage pool
(4C)	FULLWORD	4	S9LOWUS	Number of used pages in the pool
(50)	FULLWORD	4	S9LOWFR	Number of free pages in the pool
(54)	FULLWORD	4	S9LOWLO	Lowest free pages (since reset)
(58)	FULLWORD	4	S9LOWRQG	Storage GET requests
(5C)	FULLWORD	4	S9LOWRQF	Gets which failed to obtain storage
(60)	FULLWORD	4	S9LOWRQS	Storage FREE requests
(64)	FULLWORD	4	S9LOWRQC	Compress (defragmentation) attempts
	.11. 1...		S9END	***
	.11. 1...		S9CLEN	**-S9LEN" Length of this DSECT

## CLT Command list table

```

MACRO NAME = DFHCLT
DESCRIPTIVE NAME = CICS XRF Command List Table entry macro
FUNCTION =
    This macro defines a Command List Table (CLT) for use with
    CICS XRF.
EXTERNAL REFERENCES =
    XRF Takeover Initiation program, DFHWTI
MACROS (Macro pass) =
    DFHSYS - set globals
    DFHPRMCK - operand syntax checking
    DFHSMPT - generate SMP control statements
    DFHCOVER - generate cover pages
    DFHVM - generate version etc. constants
ROUTINES (Generated code) =
    none
DATA AREAS (Generated code) =
    DFHCLTDS (DSECT name)
CONTROL BLOCKS (Generated code) =
    none
+++ COMMAND LIST TABLE
    ENTRY FORMAT
    The CLT contains the following:
    o MVS System Operator commands and WTOs to be issued
      during takeover by a CICS Alternate of a CICS Active.
    o Identification data for the JES systems in use.
    o Data used to verify authority to takeover.
    The CLT load module is link-edited into an APF Authorized
    library.
    During takeover, the CICS Alternate calls the XRF
    Takeover Initiation program to terminate the CICS
    Active with an MVS System Operator command and to have
    the commands specified in the CLT issued to, for example,
    request MRO related systems to takeover.
    
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHCLTDS	CLT DSECT
TYPE=INITIAL generated fields				
(0)	CHARACTER	1		Reserved
(1)	BITSTRING .... ..1	1	CLTIVER	Version of CLT
(2)	BITSTRING .... ..1 .... ..11	1	CLTIJESX CLTIJES2 CLTIJES3	Type of JES "X'01" ..Version 1 "X'02" ..JES2 "X'03" ..JES3
(3)	CHARACTER	1	CLTIJCHR	JES identifier character
(4)	ADDRESS .... 1..	4	CLTIIND1 CLTJTAB	Address of Index 1 "" JES system identification ..table entry
(8)	CHARACTER	4	CLTJMVS	MVS system identifier
(C)	CHARACTER ...1 ....	4	CLTJJESN CLTJJES	JES2 or JES3 subsystem name ""
(10)	CHARACTER .... 1..1	1	CLTJJ2ID CLTJTBL2	JES2 shared spool member number ""-CLTJTAB" Length of table entry for JES2
(10)	CHARACTER ...1 ....	8	CLTJJ3ID CLTJTBL3	JES3 name on MAINPROC ""-CLTJTAB" Length of table entry for JES3

TYPE=LISTSTART generated fields

Offset Hex	Type	Len	Name (Dim)	Description
(0)			CLTI1DS	CLT Index 1 DSECT
Index 1 entry				
(0)	CHARACTER	4	CLT1END (0)	Zero if end of Index 1
(0)	CHARACTER	8	CLT1SAPL	Specific APPLID of Alternate
(8)	CHARACTER	8	CLT1CANN	Jobname on termination command
(10)	ADDRESS ...1 ..1..	4	CLT1ADI2 CLT1LEN	Address of Index 2 for this ..Alternate ""-CLTI1DS" Length of Index 1 entry

TYPE=COMMAND and TYPE=WTO generated fields

Offset Hex	Type	Len	Name (Dim)	Description
(0)			CLTCDS	CLT COMMAND/WTO entry DSECT
(0)	BITSTRING	1	CLCTYPE	Entry type
	.... ..1		CLTCCOM	"X'01" Type=COMMAND
	.... ..1.		CLTCWTO	"X'02" Type=WTO
(1)	BITSTRING	1	CLTCCEC	CEC indicator
	.... ..1		CLTCCSAM	"X'01" ..Same
	.... ..1.		CLTCCSEP	"X'02" ..Separate
(2)	CHARACTER	1	CLTCDATA (0)	
TYPE=COMMAND				
(2)	BITSTRING	1	CLTCCOML	Length of command
(3)	CHARACTER	1	CLTCTEXT (0)	Start of command text
TYPE=WTO				
(2)	CHARACTER	1	(2)	Reserved
(4)	ADDRESS	4	CLTCADDR	Address of WTO MF=L

  

Offset Hex	Type	Len	Name (Dim)	Description
(0)			CLTI2DS	CLT Index 2 DSECT
Index 2 entry				
(0)	ADDRESS	4	CLT2ADDR	Address of COMMAND/WTO entry ..or zero if end of Index 2
	.... ..1..		CLT2LEN	"*-CLTI2DS" Length of Index 2 entry

## CRB Cross region block

CONTROL BLOCK NAME = DFHCRBPS  
 DESCRIPTIVE NAME = CICS Cross Region Block  
 FUNCTION =

This DSECT describes the CICS region block, which is used by the CICS inter-region communication facility. The block is used to control inter-region activity at a global level, as opposed to controlling the activity of individual links with other regions. The conversational TCTTE (hung off the 'ISLINK' system entry in the TCT) is the block which controls individual 'conversations' between CICS and other regions. The CRB is allocated when the facility is started up (by the start-up program, DFHCRSP), and freed when the facility is shut down (via the IS LOGOFF COMMND). The block contains, amongst other things, argument lists and other information required to communicate with the inter-region SVC (DFHIRCP)

LIFETIME =  
 STORAGE CLASS =  
 LOCATION =  
 INNER CONTROL BLOCKS =  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
 DATA AREAS =  
 CONTROL BLOCKS =  
 GLOBAL VARIABLES (Macro pass) =

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	104	DFHCRBDS	
(0)	CHARACTER	8	CRBEYE	Eyecatcher
(8)	FULLWORD	4	CRBSVCLS	ALIST FOR SVC FULL WORD ALIGNMENT
(C)	CHARACTER	40	CRBSVCBS	SUBLIST FOR SVC
(34)	ADDRESS	4	*	Reserved
(38)	FULLWORD	4	CRBUSID	SVC USER ID ALLOC'D TO CICS
(3C)	ADDRESS	4	CRBSLCB	A(SVC'S SLCB CTL BLOCK)
(40)	CHARACTER	8	CRBIMQTK	Immed queue token for queue manager
(48)	CHARACTER	8	CRBDLQTK	Delay queue token for queue manager
(50)	CHARACTER	8	CRBSTASV	SAVE REGS 13,14 IN STAE
(50)	FULLWORD	4	*	REGS 13
(54)	FULLWORD	4	*	REGS 14
(58)	HALFWORD	2	CRBSVCIN	INSTR TO INVOKE INTER-RGN SVC
(5A)	CHARACTER	2	*	Reserved
(5C)	BITSTRING	1	CRBFLG1	FLAG BYTE

Offset Hex	Type	Len	Name (Dim)	Description
	1... ..		*	80 reserved
	.1.. ..		CRBSCSMT	40 SUPPRESS 'QUIESCE COMPLETE' MSG TO CSMT IN CSNC. (THIS BIT SET WHEN INTER-RGN FCLY STOPPED BY STP OR SRP)
	..1. ....		*	20 reserved
	...1 ....		*	10 reserved
	.... 1...		CRBABND	08 CSNC HAS ABENDE- NRML SHUT MUSTN'T ISSUE IS STOPNML
(5D)	CHARACTER	3	*	alignment
(60)	ADDRESS	4	*	Reserved
(64)	ADDRESS	4	CRBDSTOK	DS token for work exit

## CSA Common system area generator

CONTROL BLOCK NAME = DFHCSAPS  
 DESCRIPTIVE NAME = CICS COMMON SYSTEM AREA GENERATOR.  
 FUNCTION =  
 DFHCSAPS GENERATES THE DSECT FOR THE CICS COMMON SYSTEM AREA.

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = NONE  
 REGISTER CONVENTIONS = NOT APPLICABLE  
 PATCH LABEL = NOT APPLICABLE  
 MODULE TYPE = MACRO  
 MODULE SIZE = NOT APPLICABLE  
 ATTRIBUTES = NOT APPLICABLE  
 MACROS : DFHAFCD, DFHEJECT, DFHPRINT, DFHSYS

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Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	516	DFHCSADS	SECTION - CSA
(0)	CHARACTER		DFHCSABA	COMMON SYSTEM AREA BEGIN ADDRESS
(0)	FULLWORD	4	CSAOSRSA (18)	CONTROL SYSTEM REGISTER AREA
(48)	CHARACTER		CSASOSI	SHORT ON STORAGE INDICATOR
(48)	BITSTRING	1	CSASSI1	SYSTEM SIGNAL INDICATOR 1
	1... ..		CSAFPURG	DFHKCP HAS USED FORCE PURGE
	.1.. ..		CSAFTCAB	RMI forced TCAs below 16M
	..1. ....		CSASDTRN	SDTRAN STARTED
	...1 ....		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		CSACSDOP	CSD OPEN IN START-UP
	.... ...1		CSASOSON	SHORT ON STORAGE CONDITION
(49)	CHARACTER		CSAKCMI	MAXIMUM NUMBER OF TASKS IND
(49)	BITSTRING	1	CSASSI2	SYSTEM SIGNAL INDICATOR 2 CONDITION
	1... ..		CSASTIM	SYSTEM TERMINATION INDICATOR MASK
	.1.. ..		CSAFNLTM	FINAL TERMINATION PHASE POSTING MASK
	..1. ....		CSATCSCN	TCP full scan required
	...1 ....		CSAPLTPI	PLTPI PHASE HAS COMPLETED
	.... 1...		CSATCPQM	TERMINAL CONTROL QUIESCE TASK
	.... .1..		CSATQIM	TRANSACTION QUIESCE INDICATOR MASK
	.... ..1.		CSAMXTON	MAXIMUM TASK INDICATOR ON CONDITION
	.... ...1		CSATCPEV	TCP-KCP PENDING EVENT.
(4A)	CHARACTER	2	CSAKCMT	MAXIMUM NUMBER OF TASKS
(4C)	ADDRESS	4	CSACDTA	CURRENTLY DISPATCHED TASK ADDRESS
(50)	CHARACTER	4	CSATODP	TIME OF DAY. A PACKED INTEGER OF THE FORM HHMMSSTC WHERE HH IS HOURS, MM IS MINUTES, SS IS SECONDS, T IS TENTHS OF A SECOND AND C IS A POSITIVE SIGN.
(54)	ADDRESS	4	CSAICEBA	INTERVAL CONTROL ELEMENT (ICE) CHAIN BEGINNING ADDRESS
(58)	HALFWORD	2	CSAICSIC	default DTIMOUT interval in seconds.
(5A)	BITSTRING	1	CSADATFT	DATE FORMAT INDICATOR
	1... ..		*	
	.1.. ..		*	
	..1. ....		*	
	...1 ....		*	
	.... 1...		*	
	.... .1..		CSADATFY	FORMAT AS YYYYMMDD
	.... ..1.		CSADATFD	FORMAT AS DDMMYY
	.... ...1		CSADATFM	FORMAT AS MMDDYY
(5B)	BITSTRING	1	CSAICIND	INTERVAL CONTROL INDICATOR
	1... ..		*	
	.1.. ..		*	
	..1. ....		*	
	...1 ....		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	.... ...1		CSAICITP	ADJUSTMENT TASK PENDING MASK

Offset Hex	Type	Len	Name (Dim)	Description
(5C)	FULLWORD	4	CSAICIAJ CSATADJT	TIME-OF-DAY ADJUSTMENT MASK TIME OF DAY ADJUSTMENT VALUE. THE DIFFERENCE BETWEEN THE OPERATING SYSTEM TIME OF DAY AND THE CICS TIME OF DAY EXPRESSED IN 300THS OF A SECOND.
(60)	CHARACTER	4	CSACTODB	CURRENT TIME OF DAY. A BINARY INTEGER OF WHICH THE LEAST SIGNIFICANT BIT REPRESENTS ONE ONE-HUNDREDTH OF A SECOND.
(60)	FULLWORD	4	CSACSCC	COMMON SYSTEM CONTROL CLOCK
(64)	FULLWORD	4	CSASBTI	SYSTEM PARTITION/REGION EXIT TIMER INTERVAL EXPRESSED IN 300THS OF A SECOND (CICS TIMER UNITS) IN THE THREE HIGH-ORDER BYTES.
(68)	ADDRESS	4	CSAEITHG	HIRED GUN TABLE ADDRESS
(6C)	CHARACTER	4	CSASITOD	SYSTEM INITIALIZATION TIME OF DAY IN BINARY SECONDS.
(6C)	FULLWORD	4	CSATODB	TIME OF DAY BINARY
(70)	ADDRESS	4	CSACBDAN	CBD table manager anchor
(74)	ADDRESS	4	CSAPLBA	PARTITION LOWER BOUNDARY ADDRESS
(78)	ADDRESS	4	CSAPUBA	PARTITION UPPER BOUNDARY ADDRESS
(7C)	CHARACTER	4	CSAJYDP	A PACKED INTEGER OF THE FORM 0CYDDDD WHERE YY IS YEARS,DDD IS DAYS, C IS A CENTURY INDICATOR (0=1900 1=2000, 2=2100 etc) AND S IS A POSITIVE SIGN.
(80)	ADDRESS	4	CSASPPFA	ADDRESS OF SPECIAL FETCH- PROTECTED STORAGE AREA
(84)	BITSTRING	1	CSATRMF1 CSATRMAS	TRACE SYSTEM MASTER FLAGS TRACE MASTER FLAG. IF ON, TRACING OCCURS OF SYSTEM AND USER ENTRIES - ACCORDING TO INDIVIDUAL FLAGS
			.1.. .... CSATRSYS	SYSTEM MASTER FLAG. IF ON, SYSTEM ENTRIES ARE TRACED
			.1. .... CSATRUSE	USER MASTER FLAG. IF ON, USER ENTRIES ARE TRACED
			...1 .... *	Reserved
			.... 1... *	Reserved
			.... .1. .... *	Reserved
			.... .1. .... CSATRFEP	TRACE FEPI
			.... .1. .... *	Reserved
(85)	BITSTRING	1	CSATRMF2	TRACE SYSTEM SELECTION FLAGS
			1... .... CSATRMKC	TRACE TASK CONTROL
			.1. .... CSATRMSC	TRACE STORAGE CONTROL
			.1. .... CSATRMPC	TRACE PROGRAM CONTROL
			...1 .... CSATRMIC	TRACE INTERVAL CONTROL
			.... 1... CSATRMDC	TRACE DUMP CONTROL
			.... .1. .... CSATRMFC	TRACE FILE CONTROL, DL/I
			.... .1. .... CSATRMTD	TRACE TRANSIENT DATA
			.... .1. .... CSATRMTS	TRACE TEMPORARY STORAGE
(86)	BITSTRING	1	CSATRMF3	TRACE SYSTEM SELECTION FLAGS
			1... .... CSATRMRE	TRACE ALL RESPONSES (Reserved)
			.1. .... CSATRMEI	TRACE EXEC INTERFACE
			.1. .... CSATRMDI	TRACE DATA INTERCHANGE
			...1 .... CSATRMSP	TRACE SYNC POINT
			.... 1... CSATRMTC	TRACE TERMINAL CONTROL
			.... .1. .... CSATRMBF	TRACE BUILT-IN FUNCTIONS
			.... .1. .... CSATRMBM	TRACE BMS
			.... .1. .... CSATRMJC	TRACE JOURNAL CONTROL
(87)	BITSTRING	1	CSATRMF4	TRACE SYSTEM SELECTION FLAGS
			1... .... CSATRMIS	TRACE ISC
			.1. .... CSATRMUE	TRACE USER EXIT INTERFACE
			.1. .... CSATRMS5	Reserved
			...1 .... CSATRMS4	Reserved
			.... 1... CSATRMS3	Reserved
			.... .1. .... CSATRMS2	Reserved
			.... .1. .... CSATRMS1	Reserved
			.... .1. .... CSATRMLF	LIFO FLAG
(88)	BITSTRING	1	CSATRMF5	TASK STORAGE SELECTION FLAGS
			1... .... *	Reserved
			.1. .... CSATSKCR	TASK STORAGE = CURRENT
			..11 1111 *	Reserved
(89)	BITSTRING	1	CSATRMF6	TERMINAL STORAGE SEL. FLAGS
			1... .... CSATRMCR	TERMINAL STORAGE = CURRENT
			.111 1111 *	Reserved
(8A)	UNSIGNED	1	CSAUSKEY	USER KEY IN IC/SPKA FORM
(8B)	UNSIGNED	1	CSACIKEY	CICS KEY IN IC/SPKA FORM
(8C)	ADDRESS	4	CSASITBA	SYSTEM INITIALIZATION TABLE (SIT) ADDRESS
(90)	FULLWORD	4	CSAUNQID	UNIQUE IDENTIFICATION COUNTER (BINARY FULLWORD COUNTER)
(94)	FULLWORD	4	CSAAIDBA	Reserved and must not be used
(98)	HALFWORD	2	CSASTIME	SNT tuning parm (from SIT)
(9A)	HALFWORD	2	CSALTIME	LUIT tuning parm (from SIT)

OPERATING SYSTEM AND CICS LEVEL INDICATORS

(9C)	CHARACTER	1	CSAOPSYS	OPERATING SYSTEM
(9D)	CHARACTER	1	CSAOPREL	OPERATING SYSTEM RELEASE
(9E)	CHARACTER	1	CSACICS	CICS SYSTEM
(9F)	BITSTRING	1	CSACIREL	CICS RELEASE
(A0)	ADDRESS	4	CSAKCNAC	Task control
(A4)	ADDRESS	4	CSASCNAC	Storage control
(A8)	ADDRESS	4	CSAPCNAC	Program control
(AC)	ADDRESS	4	CSAICNAC	Time control
(B0)	ADDRESS	4	CSADCNAC	Dump control
(B4)	ADDRESS	4	CSATCNAC	Terminal control
(B8)	ADDRESS	4	CSATCTCA	TERMINAL CONTROL TASK CONTROL AREA ADDRESS
(BC)	ADDRESS	4	CSAROCSA	Read-only CSA (for PL/1)
(C0)	ADDRESS	4	CSAICEXP	IC expiry TXN TCA addr
(C4)	CHARACTER	1	CSASSI3	Reserved (former ICVSW)
			1... .... CSASTASK	Is there DS subtasking?

Offset Hex	Type	Len	Name (Dim)	Description
	.1.. ....		CSASTPRO	Storage Protect flag
	..1. ....		CSATRISO	Tran Isolation Flag
	...1 ....		CSAFRCQR	1=> FORCEQR=FORCE
	.... 1111		*	
(C5)	UNSIGNED	1	CSACIMOD	CICS modification level in hex
(C6)	HALFWORD	2	*	Reserved
(C8)	ADDRESS	4	CSAOPFLA	CSA OPTIONAL FEATURES LIST ADDRESS
(CC)	ADDRESS	4	CSA_RQMDANCH	Request model anchor
(D0)	CHARACTER	8	*	Reserved
(D8)	ADDRESS	4	CSABTCCB	BTAM MASTER CCB ADDRESS (DOS ONLY)
CONSTANTS				
(DC)	CHARACTER	4	*	MEMORY CONSTANT - CNST
MISCELLANEOUS CONSTANTS				
(E0)	HALFWORD	2	*	Reserved
(E2)	HALFWORD	2	CSALEN	Length of CSA
(E4)	ADDRESS	4	CSACWAA	Address of CWA
(E8)	HALFWORD	2	CSACWAL	Length of CWA
(EA)	HALFWORD	2	*	Reserved
(EC)	CHARACTER	8	CSATCA31	31 bit TCA subpool token
(F4)	CHARACTER	8	CSATCA24	24 bit TCA subpool token
(FC)	CHARACTER	8	CSARMSBP	Recovery table subpool token *
(104)	ADDRESS	4	CSASANAC	PL/I STORAGE ALLOCATION PROGRAM ADDRESS
(108)	ADDRESS	4	CSATCADF	ADDR(proforma TCA)
(10C)	ADDRESS	4	CSAQRTCB	QR TCB address
(110)	ADDRESS	4	CSAEIPAD	EIP ADCON LIST (DFHEIP00)
(114)	ADDRESS	4	CSABRSAA	BR State Area
(118)	ADDRESS	4	*	Reserved
SYSTEM CONTROL TABLE BEGINNING ADDRESSES				
(11C)	ADDRESS	4	CSATRRAT	Return addr to be traced
(120)	ADDRESS	4	CSAAINAC	Entry point of DFHAPIN
(124)	ADDRESS	4	CSACOB12	Entry point of interface module DFHPCPC2, which allows 24bit COBOL pgms to be called, and return to, 31bit DFHPCP. This interface is used by OS/VS COBOL version 1.2.2
(128)	ADDRESS	4	CSATCTBA	ADDRESS OF TERMINAL CONTROL TABLE
(12C)	ADDRESS	4	CSAFCSBA	ADDRESS OF FILE CONTROL STATIC STORAGE
(130)	ADDRESS	4	CSADCTBA	ADDRESS OF DESTINATION CONTROL TABLE
(134)	ADDRESS	4	CSATSATA	ADDRESS OF TEMPORARY STORAGE COMMON AREA
(138)	BITSTRING	4	CSATSIEC	TEMPORARY STORAGE INITIALISATION ECB
(13C)	ADDRESS	4	*	Reserved
OPEN & CLOSE LIST				
(140)	ADDRESS	4	CSAPOLA	PROGRAM DATA SET OPEN LIST ADDRESS
(144)	ADDRESS	4	*	Reserved
(148)	ADDRESS	4	CSATOLA	TERMINAL DATA SET OPEN LIST ADDRESS
(14C)	ADDRESS	4	CSAFOLA	FILE DATA SET OPEN LIST ADDRESS
(150)	ADDRESS	4	CSATDOLA	TRANSIENT DATA DATA SET OPEN LIST ADDRESS
(154)	ADDRESS	4	CSATSOLA	TERMINAL STORAGE DATA SET OPEN LIST ADDRESS
(158)	ADDRESS	4	*	Reserved
(15C)	ADDRESS	4	CSABRFMA	DFHBRFM entry point
CICS PROGRAM INTERRUPT CONTROL AREA				
(160)	CHARACTER	1	CSAPICA	Reserved
(161)	CHARACTER	3	*	Reserved
(164)	CHARACTER	2	*	Reserved
(166)	HALFWORD	2	*	Reserved
(168)	ADDRESS	4	CSAPIEA	Reserved
TIME OF DAY CONTROL				
(16C)	FULLWORD	4	CSABASCL	BASE TIME-OF-DAY CLOCK VALUE (4.096 MILLISECONDS RESOLUTION)
(170)	FULLWORD	4	CSABASTU	BASE TIMER UNITS VALUE EXPRESSED IN 300THS OF A SECOND RESOLUTION
CICS EXECUTION STATUS				
(174)	CHARACTER	3	CSAXST	CICS EXECUTION STATUS FLAGS
(174)	BITSTRING	1	CSAXST1	CICS EXECUTION STATUS
	1... ....		*	
	.1.. ....		CSAXSTM*	CICS CONTROLLED SHUTDOWN.. ..IF CSAXSTM IS ALSO SET
	..1. ....		CSAXSTM1	CICS IMMEDIATE SHUTDOWN.. ..IF CSAXSTM IS ALSO SET
	...1 ....		CSAXSTMX	CICS HAS BEEN CANCELLED ..IF CSAXSTM IS ALSO SET
	.... 1...		*	
	.... .1..		CSAXSTM	CICS TERMINATION
	.... ..1.		CSAXSEX	CICS EXECUTION
	.... ...1		CSAXSI	CICS INITIALIZATION
(175)	BITSTRING	1	CSAXST2	CICS EXECUTION STATUS
	1... ....		*	
	.1.. ....		*	
	..1. ....		CSAXSQ2	2ND-STAGE OF QUIESCE
	...1 ....		CSAXSQ1	1ST-STAGE OF QUIESCE
	.... 1...		*	
	.... .1..		CSAXSI3	3RD-STAGE INITIALIZATION
	.... ..1.		CSAXSI2	2ND-STAGE INITIALIZATION
	.... ...1		CSAXSI1	1ST-STAGE INITIALIZATION
(176)	BITSTRING	1	CSAXST3	CICS EXECUTION STATUS
	1... ....		*	



Offset Hex	Type	Len	Name (Dim)	Description
	.1.. ....		*	
	..1. ....		*	
	...1 ....		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	.... ...1		*	
(177)	BITSTRING	1	CSAXSINC *(1)	CICS INITIALIZATION COMPLETE KEYPOINT FLAGS
	1... .....		CSAINAKP	IN ACTIVITY KEYPOINT
(178)	ADDRESS	4	CSANULLP	Non 0 null address
(17C)	FULLWORD	4	CSAABPSW	ABEND PSW SAVE AREA ADDRESS (DOS ONLY)
(17C)	ADDRESS	4	CSASFPF2	addr of another fetch protected area
(180)	ADDRESS	4	*	Available for future use *
(184)	ADDRESS	4	CSATDNAC	Transient data entry
(188)	ADDRESS	4	CSATSNAC	Temp storage entry
(18C)	ADDRESS	4	CSATCRWE	TCP read/write entry
(190)	ADDRESS	4	CSAWTOAD	Write-to-operator routine
(194)	ADDRESS	4	CSATRNAC	Trace entry
(198)	ADDRESS	4	CSASPNAC	Sync point entry
TASK ABNORMAL TERMINATION INTERFACE				
(19C)	CHARACTER	3	*	Reserved
(19F)	BITSTRING	1	CSARUNKC	RUNAWAY TASK SUPPORT
	1... .....		CSASETRW	SET RUNAWAY TASK SUPPORT
	.1.. ....		*	
	..1. ....		*	
	...1 ....		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	.... ...1		*	
(1A0)	ADDRESS	4	CSAICFNA	ADDRESS OF ABEND ROUTINE
(1A4)	CHARACTER	8	CSAICRNX	ASSEMBLER CODE
(1A4)	CHARACTER	1	*	
(1A5)	CHARACTER	1	CSAICRIN	
(1A6)	CHARACTER	6	*	
TIME MANAGEMENT STORAGE				
(1AC)	FULLWORD	4	CSATODTU	BINARY TIME OF DAY IN 300THS OF A SECOND
(1B0)	FULLWORD	4	CSATCNDT	TERMINAL CONTROL'S NEXT DISPATCH TIME OF DAY IN 300THS OF A SECOND
(1B4)	FULLWORD	4	CSAICRIC	RUNAWAY TASK TIME INTERVAL IN 300THS OF A SECOND IN THREE HIGH- ORDER BYTES
(1B8)	CHARACTER	2	CSAICRUN	NUMBER OF RUNAWAY TASKS FLUSHED
(1BA)	BITSTRING	1	CSARDATC	RELATIVE DATE COUNTER (BINARY)
(1BB)	BITSTRING	1	*	Reserved
WORKAREA				
(1BC)	CHARACTER	8	*	MEMORY COMMENT - 'WORKAREA'
SYSTEM STATISTICS				
(1C4)	ADDRESS	4	CSAFASTL	-> FAST LINK WORK AREA
(1C8)	CHARACTER	2	CSAKPCNT	ACTIVITY KEYPOINT COUNTER
(1CA)	HALFWORD	2	*	Reserved
(1CC)	CHARACTER	2	CSAKCCT	CURRENT TASK ACCUMULATOR
(1CE)	CHARACTER	2	CSAKCMTA	MAXIMUM NUMBER OF TASKS ACCUMULATED
(1D0)	CHARACTER	3	CSAKCTTA	TASK ORIGINATED ACCUMULATOR - TOTAL NUMBER OF TASKS CICS HAS ORIGINATED
(1D3)	CHARACTER	1	*	Reserved
(1D4)	UNSIGNED	4	CSAPPFN	PPF change counter
(1D8)	UNSIGNED	4	CSATCTSV	TCTS change counter
(1DC)	ADDRESS	4	CSAPFTRR	relay link PFT address
(1E0)	ADDRESS	4	CSAPFTRS	relay link PFT address
(1E4)	CHARACTER	1	*	Reserved
DUMP CONTROL				
(1E5)	CHARACTER	2	*	Reserved
TEMP STORAGE CONTROL				
(1E7)	CHARACTER	3	CSATSMSA	Reserved
(1EA)	CHARACTER	3	CSATSASA	Reserved
SERVICE PROGRAMS				
(1ED)	CHARACTER	2	CSASPA1	SERVICE PROGRAM ACCUMULATOR 1 Reserved
(1EF)	CHARACTER	2	CSASPA2	SERVICE PROGRAM ACCUMULATOR 2 Reserved
(1F1)	CHARACTER	3	CSASPA3	SERVICE PROGRAM ACCUMULATOR 3 (DUMP CONTROL WRITE ERROR COUNT)
(1F4)	CHARACTER	3	CSATDNT	Reserved
USER TRANSACTION				
(1F7)	CHARACTER	3	CSAUTA1	USER TRANSACTION ACCUMULATOR 1
(1FA)	CHARACTER	3	CSAUTA2	USER TRANSACTION ACCUMULATOR 2
(1FD)	CHARACTER	3	CSAUTA3	USER TRANSACTION ACCUMULATOR 3
(200)	CHARACTER	3	CSAUTA4	USER TRANSACTION ACCUMULATOR 4
(203)	BITSTRING	1	*	DUMMY PROGRAM TYPE OF REQUEST SAVE AREA - USED BY DUMMY PROGRAMS AS FIELD CSATSTR
(204)	CHARACTER		CSACSAEA	END OF CSA

OPTIONAL FEATURE LIST

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	1280	CSAOPFL	FEATURE LIST DSECT
(0)	ADDRESS	4	*	Reserved
(4)	ADDRESS	4	CSAATTCH	ATTACH LIST ADDRESS - O/S
(8)	ADDRESS	4	CSASNSTA	LOCATION OF DFHSNSTA - SIGNON STATISTICS RECORDS
(C)	ADDRESS	4	*	Reserved
(10)	ADDRESS	4	*	Reserved
(14)	ADDRESS	4	CSATMSVT	TERMINAL MONITOR SYSTEM (TMS) VECTOR TABLE ADDRESS
(18)	ADDRESS	4	*	Reserved
(1C)	ADDRESS	4	CSADMRMP	CSD recovery Program
(20)	ADDRESS	4	CSASRNAC	SYSTEM RECOVERY PROGRAM ENTRY ADDRESS
(24)	ADDRESS	4	CSASRTBA	ADDRESS OF SYSTEM RECOVERY TABLE
(28)	ADDRESS	4	CSAKPNAC	KEY-POINT PROGRAM ENTRY ADDRESS
(2C)	ADDRESS	4	CSAATMSP	ATMS CONTROL POINTER
(30)	ADDRESS	4	CSAXLTBA	ADDRESS OF SYSTEM TERMINATION TRANSACTION LIST TABLE
(34)	ADDRESS	4	*	Reserved
(38)	ADDRESS	4	*	Reserved
(3C)	ADDRESS	4	CSATSTBA	ADDRESS OF TEMPORARY STORAGE TABLE
(40)	ADDRESS	4	CSAAIINN	DFHAIIN Entry point for AITM *
(44)	ADDRESS	4	CSACPINN	DFHCPIN Entry point for CPIN *
(48)	ADDRESS	4	CSAPRINN	DFHPRIN Entry point for PRIN *
(4C)	ADDRESS	4	CSAKCSC	ADDRESS of KC query program *
(50)	ADDRESS	4	*	Reserved
(54)	ADDRESS	4	CSAPLISL	ADDRESS OF SHARED LIBRARY COMMON MODULES
(58)	ADDRESS	4	CSAPLISM	ADDRESS OF SHARED LIBRARY NON-TASK-ONLY MODULES
(5C)	ADDRESS	4	CSASRAA	ADDRESS OF SRB CONTROL AREA
(5C)	HALFWORD	2	CSAOPF0E	*
(5E)	HALFWORD	2	*	
(60)	ADDRESS	4	CSAMROQA	ANCHOR BLOCK FOR MRO W-Q
(64)	CHARACTER	2	CSAOPF1S	
(64)	HALFWORD	2	*	Reserved
(66)	CHARACTER	2	*	Reserved
(68)	CHARACTER	3	*	Reserved
(6B)	CHARACTER	3	*	Reserved
(6E)	UNSIGNED	1	*	Reserved
(6F)	BITSTRING	1	CSAFEOPT	FERS OPTION BYTE
			1... ....	*
			.1. ....	*
			..1. ....	*
			...1 ....	*
			.... 1...	*
			.... .1.	
			.... ..1	
			.... ...1	
(70)	ADDRESS	4	CSAFEAUX	AUXILIARY TEMPORARY STORAGE
			CSAFEWST	WARM START
			CSAFERST	EMERGENCY RESTART
(74)	ADDRESS	4	CSADINAC	DATA INTERCHANGE MODULE ADDRESS
			CSASTYDP	CICS START-UP DATE IN THE FORM 0CYDDDS WHERE YY IS THE YEAR, DDD IS THE DAY, C IS THE CENTURY INDICATOR AND S IS A POSITIVE SIGN
(78)	ADDRESS	4	CSAFCXAD	ADDRESS OF DFHFCIN
(7C)	ADDRESS	4	CSACSAAD	ADDRESS OF CSA
(7C)	HALFWORD	2	CSAOPF1E	
(7E)	HALFWORD	2	*	
(80)	ADDRESS	4	CSALFNAC	STANDARD LIFO PROLOGUE ROUTINE ADDRESS
(84)	ADDRESS	4	*	Reserved
(88)	ADDRESS	4	CSAMGNAC	ADDRESS OF DFHMGP MESSAGE PROGRAM
(8C)	ADDRESS	4	CSAMGTAC	ADDRESS OF MESSAGE TABLE
(90)	CHARACTER	8	CSACOMTK	SUBPOOL TOKEN FOR TERMINAL COMMAREA ABOVE THE LINE (CICS KEY STORAGE)
MODULE ADDRESSES				
MODULE ADDRESSES AND TOKENS				
(98)	ADDRESS	4	*	Reserved ( was CSAELRNA )
(9C)	ADDRESS	4	CSAXFPNA	ADDRESS OF EXEC TRANSFORMER PROGRAM
(A0)	ADDRESS	4	CSAISPNA	ADDRESS OF EXEC INTERSYSTEM PROGRAM
(A4)	ADDRESS	4	CSAXTPNA	ADDRESS OF TERMINAL SHARING TRANSFORMER PROGRAM
(A8)	ADDRESS	4	CSAEINAC	ADDRESS OF DFHEIP Exec nucleus *
(AC)	CHARACTER	8	CSAICA31	Subpool token ICE
(B4)	CHARACTER	8	CSAECATK	Subpool token for APECA
Special area for Language Interface				
(BC)	ADDRESS	4	CSACEEPI	Address of CEEPIPI
(C0)	ADDRESS	4	CSABRSPA	Address of Bridge exit interface routine (SP)
(C4)	FULLWORD	4	CSACEEIL	Special interface level
(C8)	CHARACTER	4	CSACEEFG	Flags
(C8)	BITSTRING	1	CSACEEF1	Flag Byte
			1... ....	CEECCICS loaded
			.1. ....	CSACEEIN
			..1. ....	LE/370 initialized
			...1 ....	CSA_GLBLOPTS_SET
			.... 1...	Global options processed
			.... .111	CSA_THREADSAFE
				Global default THREADSAFE
				CSA_QUASIRENT
				Global default QUASIRENT
				*
				reserved
(C9)	BITSTRING	1	CSALANG	Language byte
			1... ....	ASMINIT
				Assembler initialized by LE/370 *

Offset Hex	Type	Len	Name (Dim)	Description
	.1.. ....		CINIT	C initialized by LE/370
	..1. ....		COBINIT	Cobol initialized by LE370 *
	...1 ....		PLINIT	PL/I initialized by LE/370 *
	.... 1...		RPGINIT	RPG initialized by LE/370
(CA)	BITSTRING	1	CSALEFUN	active CICS/LE functions
	1... ....		CSA_PROG_TYPE3	type 3 objects supported
	.1.. ....		*	reserved
	..1. ....		CSA_LE_OTE	OTE support active
	...1 ....		CSA_REUSABLE_RUWA	
	.... 1..		CSA_ABEND_CANCEL	RUWAs are reusable ABEND with CANCEL
	.... .1..		CSA_DUMP_SUPPRESS	
	.... ..1.		*	dump suppression reserved
	.... ...1		*	reserved
(CB)	BITSTRING	1	*	reserved
(CC)	CHARACTER	8	CSACEEPT	LE/370 Partition token
(D4)	ADDRESS	4	CSACEERA	Address of interface routine *
(D8)	FULLWORD	4	CSACEETL	Length of pre-allocated Thread storage
(DC)	CHARACTER	4	CSA_INIT	CICS Initialization status flags
(DC)	BITSTRING	1	*	
	1... ....		CSAPINIT	Partition Initialization for Languages has completed
	.1.. ....		CSA_PLI_SUPPORTED	
	..11 1111		*	PL/I support is present Reserved
(DD)	BITSTRING	3	*	Reserved
(E0)	ADDRESS	4	CSALIRNA	Address of DFHLIRET
(E4)	CHARACTER	8	CSA_PLB_SPTOKEN	Program Language Block Subpool Token
(EC)	ADDRESS	4	CSABRMSA	Address of Bridge exit interface routine (BMS)
(F0)	ADDRESS	4	CSABRTCA	Address of Bridge exit interface routine (TC)
(F4)	ADDRESS	4	CSABRICA	Address of Bridge exit interface routine (IC)
(F8)	ADDRESS	4	CSAEISR	Address of DFHEISR service routine
(FC)	ADDRESS	4	CSAERMNA	ADDRESS OF RESOURCE MANAGER I/F
(100)	ADDRESS	4	CSAETLNA	ADDRESS OF LU6.2 MAPPED STUB
(104)	ADDRESS	4	CSAEBUNA	ADDRESS OF FMH BUILDER
(108)	ADDRESS	4	CSAEXNA	ADDRESS OF FMH EXTRACTOR
TERMINAL CONTROL MODULE ADDRESSES				
(10C)	ADDRESS	4	CSATCNCA	ADDRESS OF DFHZCA
(110)	ADDRESS	4	CSATCNCB	ADDRESS OF DFHZCB
(114)	ADDRESS	4	CSATCNCC	ADDRESS OF DFHZCC
(118)	ADDRESS	4	CSATCNCP	ADDRESS OF DFHZCP
(11C)	ADDRESS	4	CSATCNCW	ADDRESS OF DFHZCW
(120)	ADDRESS	4	CSATCNCX	ADDRESS OF DFHZCX
(124)	ADDRESS	4	CSATCNCY	ADDRESS OF DFHZCY
(128)	ADDRESS	4	CSATCNCZ	ADDRESS OF DFHZCZ
BASIC MAPPING SUPPORT MODULE ENTRY ADDRESSES				
(12C)	ADDRESS	4	CSARLREA	ADDRESS OF ROUTE LIST RESOLUTION PROGRAM
(130)	ADDRESS	4	CSAPBPEA	ADDRESS OF PAGE BUILD PROGRAM
(134)	ADDRESS	4	CSAM32EA	ADDRESS OF 3270 MAPPING PROGRAM
(138)	ADDRESS	4	CSAMCXEA	ADDRESS OF BMS FAST PATH MODULE
(13C)	ADDRESS	4	CSATPPEA	ADDRESS OF TERMINAL PAGING PROGRAM
(140)	ADDRESS	4	CSAIIPEA	ADDRESS OF NON-3270 INPUT MAPPING PROGRAM
(144)	ADDRESS	4	CSADWEXA	ADDRESS OF DWE PROCESSING EXIT
(148)	ADDRESS	4	CSADSBEA	ADDRESS OF DATA STREAM BUILD PROGRAM
(14C)	ADDRESS	4	CSAPHPEA	ADDRESS OF PARTITION HANDLING PROGRAM
(150)	ADDRESS	4	CSAML1EA	ADDRESS OF LU TYPE 1 MAPPING PROGRAM
MISCELLANEOUS PROGRAM ADDRESSES				
(154)	ADDRESS	4	CSARTSUA	Address of DFHRTSU Surrogate interface
(158)	ADDRESS	4	CSAPCNNA	ADDRESS OF NON-WORKING SET PROGRAM CONTROL PROGRAM
(15C)	ADDRESS	4	CSAGCAAC	ADDRESS OF GET_CAA ROUTINE *
(160)	ADDRESS	4	CSASCAAC	ADDRESS OF SET_CAA ROUTINE *
(164)	ADDRESS	4	CSATMPNA	ADDRESS OF TABLE MANAGER PROGRAM
(168)	ADDRESS	4	CSACMPAC	ADDRESS OF MONITORING PROGRAM *
(16C)	ADDRESS	4	CSAERMRS	Address of RMI Resync module *
(170)	ADDRESS	4	CSXCRLBA	ADDRESS OF BIND TIME LOGGING PROGRAM FOR OLD-MRO/LU6.1
(174)	ADDRESS	4	CSAACPNNA	ADDRESS OF ABNORMAL CONDITION PROGRAM
(178)	ADDRESS	4	CSAIRPNA	ADDRESS OF INTER-REGION COMMUNICATION PROGRAM
(17C)	ADDRESS	4	CSAUHNA	ADDRESS OF USER EXIT HANDLER PROGRAM
(180)	ADDRESS	4	CSACJVM	addr DFHCJVM - call JVM
(184)	ADDRESS	4	CSAMCYEA	addr BMS MAPPINGDEV module DFHMCY
(188)	ADDRESS	4	CSAXFXNA	ADDRESS OF FAST-PATH TRANSFORMER PROGRAM
(18C)	ADDRESS	4	CSACJVMG	addr DFHCJVMG - debug version of DFHCJVM
(190)	ADDRESS	4	CSAPSNAC	ADDR SYSTEM SPOOLING INTERFACE CONTROL MODULE
(194)	ADDRESS	4	CSASKMNA	ADDRESS SUBTASK MANAGEMENT MODULE
(198)	ADDRESS	4	*	Reserved
(19C)	ADDRESS	4	*	Reserved
(1A0)	ADDRESS	4	CSAZBANA	ADDRESS ZC BIND ANALYSIS
(1A4)	ADDRESS	4	CSATBSNA	ADDRESS TABLE BLDR SERV
(1A8)	ADDRESS	4	*	Reserved
(1AC)	ADDRESS	4	CSAXQONA	ADDRESS DFHZXQO
(1B0)	ADDRESS	4	CSAAPRDA	ADDRESS OF AP RD GATE
(1B4)	ADDRESS	4	CSAZCQNA	ADDRESS OF ZCQ INST/DELETE

Offset Hex	Type	Len	Name (Dim)	Description
MISCELLANEOUS TABLE AND CONTROL BLOCK ADDRESSES				
(1B8)	CHARACTER	4	CSAOPF3E	
ADDRESSES OF CONTROL BLOCKS WITHIN MODULE DFHCSA				
(1B8)	ADDRESS	4	CSASECBL	ADDRESS OF SECURITY CLASS BLOCK
(1BC)	CHARACTER	4	*	Reserved
(1C0)	CHARACTER	4	CSAOPF4S	
ADDRESSES OF CONTROL BLOCKS NOT WITHIN MODULE DFHCSA.				
(1C0)	ADDRESS	4	CSASSA	ADDRESS OF STATIC STORAGE AREA ADDRESS LIST
(1C4)	ADDRESS	4	CSATCSEA	ADDRESS OF LOCAL TERMINAL CONTROL SYSTEM ENTRY
(1C8)	ADDRESS	4	CSAUETBA	ADDRESS OF USER EXIT TABLE
(1CC)	ADDRESS	4	CSAMROQP	Address of MRO work Q manager previously CSAMCTBA
(1D0)	ADDRESS	4	CSAPCTTA	ADDRESS OF PROGRAM CONTROL TABLE PREFIX
(1D4)	ADDRESS	4	CSASTRTA	ADDRESS OF PROGRAM CHECK / ABEND TRACE TABLE
(1D8)	ADDRESS	4	CSACRBA	ADDRESS OF CICS REGION BLOCK
(1DC)	ADDRESS	4	CSASDTA	ADDRESS OF SERIES DEFINITION TABLE (WHEREBY HANG ALL VOLUME MANAGT DATA)
(1E0)	ADDRESS	4	CSAKPPVC	ADDRESS OF KEYPOINT ADDRESS VECTOR
(1E4)	ADDRESS	4	CSAVSCAA	ADDRESS OF VSCA
(1E8)	ADDRESS	4	CSATDSTA	ADDRESS OF TD STATIC STORAGE
(1EC)	ADDRESS	4	CSAPSCBA	ADDR OF SYS SPOOLING INTERFACE GLOBAL CONTROL BLOCK(PSG).
(1F0)	CHARACTER	4	CSADLECB	DLI RESTART TASK ECB
			1... .... *	
			.1. .... CSADLPST	DLI RESTART TASK POST BIT
(1F4)	UNSIGNED	1	CSADLRRC	DLI RESTART TASK RETURN CODE *
(1F5)	CHARACTER	3	*	Reserved
(1F8)	ADDRESS	4	CSAILBOC	ADDRESS OF OS/VS COBOL ILBOCOM MODULE
(1FC)	BITSTRING	1	CSARUPBT	EMERGENCY RESTART DFHRUP FLAG BYTE
			1... .... CSAERMSG	'YES' TO MSG DFH2839 ISSUED DURING E/R
(1FD)	BITSTRING	1	*	RESERVED
(1FE)	BITSTRING	1	*	RESERVED
(1FF)	BITSTRING	1	*	RESERVED
(200)	CHARACTER	8	CSAURDTK	URD/non-task DWE subpool token
CATALOG CONTROL FLAG BYTES				
(208)	BITSTRING	1	CSACATFL	CATALOG flag byte
			1... .... CSACATDF	CATALOG defined
(209)	BITSTRING	1	CSALOGFL	SYSTEM LOG flag byte
			1... .... CSALOGDF	SYSTEM LOG defined ..
			.1. .... CSALOGDI	.. on disk
			..1. .... CSALOGTP	.. on tape
(20A)	BITSTRING	1	*	Reserved
(20B)	BITSTRING	1	*	Reserved
INTER-REGION COMMUNICATION FLAG BYTES				
(20C)	BITSTRING	1	CSACRFL1	CICS REGION FLAG BYTE
			1... .... CSACRNTC	DFHTCP GENERATED WITHOUT IRC
			.1. .... CSACRNXF	CICS INITIALISED WITHOUT DFHXFP
			..1. .... CSACRNAU	DFHSIP IS NOT APF-AUTHORISED
			...1 .... CSACRSTF	HIGH-LEVEL STAE FAILED
(20D)	BITSTRING	1	CSACRFL2	CICS REGION FLAG BYTE 2
			1... .... CSACRASS	ASSOCIATE has been issued
			.1. .... CSACRWEA	MRO work queue els acquired *
BASIC MAPPING SUPPORT FLAG BYTE				
(20E)	BITSTRING	1	CSABMSFL	BMS FLAG BYTE
			1... .... CSACSPQI	TRANSACTION CSPQ HAS BEEN INITIATED
			.1. .... CSAALIGN	PRE 1.6 MAPS ARE ALIGNED
			..1. .... CSANDDS	NO DEVICE DEPENDENT SUFFIXING
			...1 .... CSANSKR	NO SINGLE KEY RETRIEVAL
(20F)	BITSTRING	1	*	Reserved
SIGNON COMPONENT FIELDS				
(210)	BITSTRING	1	*	Reserved
(211)	BITSTRING	1	CSASNFLG	SIGNON COMPONENT FLAGS
			1... .... CSASNRF	COPY OF SITXSFRC FLAG
(212)	BITSTRING	1	*(2)	Reserved
(214)	CHARACTER	4	*	Reserved
WEB STORAGE ANCHOR ADDRESS				
(218)	ADDRESS	4	CSAWEBAN	Stg anchor for Web
EXECUTABLE SUPERVISOR CALL INSTRUCTIONS				
(21C)	FULLWORD	4	*	Reserved
(220)	CHARACTER	2	CSASVSVC	SERVICE SVC...
(220)	BITSTRING	1	*	...FROM CICS SVC
(221)	BITSTRING	1	CSASVSNO	SERVICES SVC NUMBER
(222)	CHARACTER	2	CSASISVC	SERVICE INITIATION SVC...
(222)	BITSTRING	1	*	...FROM SRBSVC
(223)	BITSTRING	1	CSASISNO	SERVICE INIT.SVC NUMBER
STATISTICS FIELDS				
(224)	HALFWORD	2	*	Reserved

Offset Hex	Type	Len	Name (Dim)	Description	
(226)	HALFWORD	2	CSATBSDD	DFHBSMSG DIAGNOSTIC DUMP CODE *	
(228)	FULLWORD	4	CSAKCTOF	STATISTICS - TASK COUNT OVERFLOW	
(22C)	ADDRESS	4	CSAXSTMA	DFHZXST map anchor	
(230)	ADDRESS	4	*	Reserved	
(234)	ADDRESS	4	*	Reserved	
PROTECTED STORAGE ADDRESS LIMITS					
(238)	ADDRESS	4	CSAPROTL	LOWER LIMIT OF PROTECTION	
(23C)	ADDRESS	4	CSAPROTU	UPPER LIMIT OF PROTECTION NOTE: ABOVE 2 FIELDS MUST BE CONTIGUOUS	
RESOURCE MANAGER INTERFACE RECOVERY FIELDS					
(240)	ADDRESS	4	CSAKELCL	address of dfhkelcl	
(244)	ADDRESS	4	CSAKELRT	address of dfhkelrt	
(248)	ADDRESS	4	CSAKELCW	start of dfhkelrt window	
(24C)	ADDRESS	4	CSAKELCW	end of dfhkelrt window	
(250)	ADDRESS	4	*	Reserved	
(254)	FULLWORD	4	*	Reserved	
CICS SERVICE-LEVEL SUPPORT FIELD					
(258)	ADDRESS	4	CSACICNA	ADDRESS OF SERVICE-LEVEL ENTRYPT	
(25C)	ADDRESS	4	*	Reserved	
SPECIAL INTERFACE AREA					
(260)	FULLWORD	4	CSACOBIL	SPECIAL INTERFACE LEVEL	
(264)	CHARACTER	4	CSACOBFG	FLAGS	
(264)	BITSTRING	1	*		
	1... ..		CSACOBIN	Cobol II Initialized	
	.111 1111		*		
(265)	BITSTRING	3	*		
(268)	CHARACTER	8	CSACOBPT	COBOL PARTITION TOKEN	
(270)	ADDRESS	4	CSACOBRA	ADDRESS OF INTERFACE ROUTINE	
CICS SYSTEM DEFINITION USER COUNT					
(274)	FULLWORD	4	CSACSDCT	NUMBER OF CURRENT USERS OF CICS SYSTEM DEFINITION	
(278)	FULLWORD	4	CSADBLA	DYNAMIC BACKOUT LOG ACCESS	
(27C)	FULLWORD	4	CSADBSA	DYNAMIC BACKOUT SPILL ACCESS	
SPECIAL INTERFACE FOR C					
(280)	FULLWORD	4	CSACELIL	Special interface level	
(284)	CHARACTER	4	CSACELFG	Flags	
(284)	BITSTRING	1	CSACELF1	Flag byte 1	
	1... ..		CSACELLD	.. EDCCICS loaded	
	.1. ....		CSACELIN	.. C/370 initialized	
	..1. ....		CSACELMS	.. message DFH0410 sent	
(285)	BITSTRING	3	*		
(288)	CHARACTER	8	CSACELPT	C/370 partition token	
(290)	ADDRESS	4	CSACELRA	Address of interface rtn	
(294)	FULLWORD	4	CSACELTL	Length of thread storage	
(298)	FULLWORD	4	*	Reserved	
(29C)	FULLWORD	4	*(1)	Reserved	
(2A0)	ADDRESS	4	CSALFXAC	LIFO EXIT ROUTINE ADDRESS.	
(2A0)	HALFWORD	2	CSAOPF4E		
(2A2)	HALFWORD	2	*		
(2A4)	FULLWORD	4	*	Reserved	
FURTHER MISCELLANEOUS PROGRAM ADDRESSES AND OTHER INFORMATION					
(2A8)	CHARACTER		CSAOPF5S	START OF BLOCK 5	
(2A8)	BITSTRING	1	CSAPLTSC	PLTPI security options	
	1... ..		CSAPLTCM	Command level check	
	.1. ....		CSAPLTRS	Resource level check	
	..11 111.		*	Reserved	
	.... ..1		CSAPLTY5	PLTPI requested	
(2A9)	CHARACTER	11	CSAPLTID	PLTPI user id	
(2A9)	UNSIGNED	1	CSAPLTIL	PLTPI user id length	
(2AA)	CHARACTER	10	CSAPLTIV	PLTPI user id value	
(2B4)	CHARACTER	8	CSAID31	AID token	
(2BC)	ADDRESS	4	CSAEXNQS	EXEC enqueue pool (string)	
(2C0)	ADDRESS	4	CSAEXNQA	EXEC enqueue pool (address)	
(2C4)	ADDRESS	4	CSAEXNQG	EXEC enqueue pool (global)	
(2C8)	ADDRESS	4	*	Reserved	
(2CC)	CHARACTER	8	CSABMSPT	BMS CICS LIFETIME SP TOKEN	
(2D4)	CHARACTER	8	CSAEDFTK	EDF Subpool token	
(2DC)	ADDRESS	4	CSADBCR	address of DFHDBCR	
#				APAR PQ26516	
#				added CSASKCEP	
#	(2E0)	ADDRESS	4	CSASKCEP	Entry point of DFH5KC
	(2E4)	ADDRESS	4	CSADLI	DL/I interface entry
	(2E8)	ADDRESS	4	CSABFNAC	Built-in function
	(2EC)	ADDRESS	4	CSABMS	BMS control entry
	(2F0)	ADDRESS	4	CSAJCNA1	Journal control entry
	(2F4)	ADDRESS	4	CSAJCNA2	Journal control entry
	(2F8)	ADDRESS	4	CSADLIM	Entry point of DFHDLI
	(2FC)	CHARACTER		CSAOPF5E	END OF BLOCK 5
	(2FC)	CHARACTER		CSAOPF6S	START OF BLOCK 6

Offset Hex	Type	Len	Name (Dim)	Description
(2FC)	ADDRESS	4	CSAAUGWA	Address of CAU GWA
(300)	CHARACTER		*	Alignment
(300)	CHARACTER	8	CSAAPXDS	Subpool for trandef ext
(308)	CHARACTER	8	CSADRPGN	DYNAMIC ROUTING PROGRAM NAME
(310)	ADDRESS	4	CSAFCEP	FILE CONTROL ENTRY POINT
(314)	CHARACTER	4	*	reserved
(318)	ADDRESS	4	CSATCNCR	address of DFHZXCR
START OF XRF SPECIFIC ADDRESSES				
(31C)	ADDRESS	4	CSAXRPNA	Address of DFHXRP
(320)	ADDRESS	4	*	Reserved
(324)	ADDRESS	4	CSAXRFNT	Address of DFHWMS
END OF XRF SPECIFIC ADDRESSES				
AP Domain: Domain storage control areas				
(328)	CHARACTER	8	CSADWETK	DWE subpool
(330)	CHARACTER	8	CSADS24T	Subpool token for storage below 16M
(338)	CHARACTER	8	CSARMRTT	Subpool token for recovery mgr recovery table storage
(340)	CHARACTER	8	CSADSANT	Subpool token for storage anywhere
AP Domain: MISC. MODULES AND SUBROUTINES				
(348)	ADDRESS	4	CSAAPDSN	Dispatcher TASK_REPLY gate *
(34C)	ADDRESS	4	CSAAPJCN	Journalling gate service *
(350)	ADDRESS	4	CSAAPEPN	User exit gate program
(354)	ADDRESS	4	*	Reserved
(358)	ADDRESS	4	CSAAPSTN	Statistics gate service
(35C)	ADDRESS	4	*	Reserved
(360)	ADDRESS	4	CSAAPTIN	Timer gate service
(364)	ADDRESS	4	CSAAPTRN	Trace gate service
(368)	ADDRESS	4	CSASNUSN	SIGNON Backend Subroutine *
(36C)	ADDRESS	4	CSASUSXN	XRF Security Subroutine
(370)	ADDRESS	4	CSASUWTN	WTO Interface Subroutine *
(374)	ADDRESS	4	CSASUZSN	ZC Trace Controller Subroutine *
(378)	ADDRESS	4	CSAAPTIM	midnight task module
(37C)	ADDRESS	4	CSAAPTIX	expiry task module
(380)	ADDRESS	4	CSAAPSTG	AP Domain - statistics global storage
(384)	ADDRESS	4	CSATDNA2	Transient Data Internal Entry - address of DFHTDQ
(388)	FULLWORD	4	CSAHPOCT	HPO count
(38C)	ADDRESS	4	CSAZCUTN	attachsec userid table mgr
(390)	ADDRESS	4	CSASMATK	SM access token (for SMSR INQUIRE_ACCESS function)
(394)	ADDRESS	4	CSASMITK	SM isolation token (for SMSR SWITCH_SUBSPACE function)
(398)	ADDRESS	4	CSATSITK	TS inquire token (for TSSH INQUIRE_POOL_TOKEN func
(39C)	CHARACTER	8	CSADU24T	Subpool token for USER key storage below 16M
(3A4)	ADDRESS	4	CSASZADA	FEPI Adapter prog address
(3A8)	CHARACTER	8	CSACOBTK	OS/VS COBOL Subpool token
(3B0)	CHARACTER		CSAOPF6E	END OF BLOCK 6
VECTOR of Addresses of EXEC Command Processor Modules				
Listed in order of Group Code				
Named as the modules, with CSA replacing DFH				
(3B0)	CHARACTER	336	CSAEXECS	Base for vector
Group Command Group				
(3B0)	ADDRESS	4	CSAEIP	00 DFHEIP (slot left null) *
(3B4)	ADDRESS	4	CSAEEI	02 Assign, etc
(3B8)	ADDRESS	4	CSAETC	04 Terminal
(3BC)	ADDRESS	4	CSAEIFC	06 File
(3C0)	ADDRESS	4	CSAETD	08 Transient Data
(3C4)	ADDRESS	4	CSAEITS	0A Temporary Storage
(3C8)	ADDRESS	4	CSAESC	0C Storage
(3CC)	ADDRESS	4	CSAEPC	0E Program
(3D0)	ADDRESS	4	CSAEIIC	10 Time
(3D4)	ADDRESS	4	CSAEKC	12 Task
(3D8)	ADDRESS	4	CSAEJC	14 Journalnum
(3DC)	ADDRESS	4	CSAEISP	16 Syncpoint
(3E0)	ADDRESS	4	CSAEMS	18 BMS
(3E4)	ADDRESS	4	CSAETR	1A Trace
(3E8)	ADDRESS	4	CSAEDC	1C Dump
(3EC)	ADDRESS	4	CSAEDI	1E Issue ...
(3F0)	ADDRESS	4	CSAEBF	20 BIF
(3F4)	ADDRESS	4	CSAUEM	22 Enable/disable exits *
(3F8)	ADDRESS	4	CSAEGL	24 GDS ...
(3FC)	ADDRESS	4	*	26 Reserved
(400)	ADDRESS	4	*	28 Reserved
(404)	ADDRESS	4	*	2A Reserved
(408)	ADDRESS	4	*	2C Reserved
(40C)	ADDRESS	4	*	2E Reserved
(410)	ADDRESS	4	CSAEICRE	30 All CREATE commands
(414)	ADDRESS	4	*	32 Reserved
(418)	ADDRESS	4	CSAEIBAM	34 Reserved
(41C)	ADDRESS	4	CSAEIEM	36 Event Manager
(420)	ADDRESS	4	CSAEIWB	38 Web commands
(424)	ADDRESS	4	CSAEIQR	3A Reserved
(428)	ADDRESS	4	CSAEIDH	3C Document Commands
(42C)	ADDRESS	4	CSAEISO	3E Sockets Commands
(430)	ADDRESS	4	*	40 Used by DL/I

Offset Hex	Type	Len	Name (Dim)	Description
(434)	ADDRESS	4	CSAEIQTM	42 INQ/REM Autinstmodel *
(438)	ADDRESS	4	CSAEIQPN	44 INQ/REM Partner
(43C)	ADDRESS	4	CSAEIQPF	46 INQ/REM Profile
(440)	ADDRESS	4	CSAETRX	48 Trace (enhanced)
(444)	ADDRESS	4	CSAEIDTI	4A Asktime/Formattime
(448)	ADDRESS	4	CSAEIQDS	4C INQ/SET/REM File
(44C)	ADDRESS	4	CSAEIQSP	4E INQ/SET/REM Program
(450)	ADDRESS	4	CSAEIQSX	50 INQ/SET/REM Transaction *
(454)	ADDRESS	4	CSAEIQST	52 INQ/SET/REM Terminal *
(458)	ADDRESS	4	CSAEIQSA	54 INQ/SET System
(45C)	ADDRESS	4	CSAEPS	56 Spooler
(460)	ADDRESS	4	CSAEIQSC	58 INQ/SET/ Connection
(464)	ADDRESS	4	CSAEIQSM	5A INQ/SET Modename
(468)	ADDRESS	4	CSAEIQSQ	5C INQ/SET Tdqueue
(46C)	ADDRESS	4	CSAEIQSK	5E INQ/SET Task
(470)	ADDRESS	4	CSAEIQSJ	60 INQ/SET Journalnum
(474)	ADDRESS	4	CSAEIQSV	62 INQ/SET Volume
(478)	ADDRESS	4	CSAEIPSE	64 PERF Security Rebuild *
(47C)	ADDRESS	4	CSAEIQDU	66 INQ/SET ...dump...
(480)	ADDRESS	4	CSAEIQVT	68 INQ/SET VTAM
(484)	ADDRESS	4	CSAESE	6A Query Security
(488)	ADDRESS	4	CSAEOP	6C WTO, etc.
(48C)	ADDRESS	4	CSAEIQIR	6E INQ/SET IRC
(490)	ADDRESS	4	CSAEIQMS	70 INQ/SET Monitor, Stats *
(494)	ADDRESS	4	CSAEIPRT	72 PERF Resetime
(498)	ADDRESS	4	CSAESN	74 Sign-on/off
(49C)	ADDRESS	4	CSAEIPSH	76 PERF Shutdown
(4A0)	ADDRESS	4	CSAEIQTR	78 INQ/SET Trace..
(4A4)	ADDRESS	4	CSAEIQDN	7A INQ/SET Dsname
(4A8)	ADDRESS	4	CSAEIQMT	7C old CEMT commands
(4AC)	ADDRESS	4	CSAEDCP	7E Dump Transaction/System *
(4B0)	ADDRESS	4	CSAEIQTS	80 INQ TSQUEUE
(4B4)	ADDRESS	4	CSAESZ	82 FEPI - API
(4B8)	ADDRESS	4	CSAEIQSZ	84 FEPI - SPI
(4BC)	ADDRESS	4	CSAEIACQ	86 ACQUIRE
(4C0)	ADDRESS	4	CSAEIQUE	88 INQ Exitprogram
(4C4)	ADDRESS	4	CSAEIQRQ	8A INQ Reqid
(4C8)	ADDRESS	4	CSAEMEX	8C ME Domain exec
(4CC)	ADDRESS	4	CSAEIQDE	8E INQ CBD COMMANDS
(4D0)	ADDRESS	4	CSAEIUOW	90 INQ UOW UOWENQ UOWLINK
(4D4)	ADDRESS	4	CSAEIQSL	92 Inq Journalmodel
(4D8)	ADDRESS	4	CSAEIQD2	94 Inq/set CICS/DB2 objects
(4DC)	ADDRESS	4	CSAEIQBA	96 Inq/set BAM objects
(4E0)	ADDRESS	4	CSAEIQCF	98 Inq CFDTPOOL
(4E4)	ADDRESS	4	CSAEIQOP	9A Inq Requestmodel
(4E8)	ADDRESS	4	CSAEIQSO	9C Inq TCPIP SERVICE
(4EC)	ADDRESS	4	CSAEIQDH	9E Inq DOCTEMPLATE
(4F0)	ADDRESS	4	*	A0 Reserved
(4F4)	ADDRESS	4	*	A2 Reserved
(4F8)	ADDRESS	4	*	A4 Reserved
(4FC)	ADDRESS	4	*	A6 Reserved

End of EXEC module address vector

#

APAR PQ36592

#

added this Vector of routines provided to Language Environment

#

Vector of routines provided to Language Environment

#	(500)	STRUCTURE	136	CSA_CEL_	
#				SERVICE_VECTOR	
#	(500)	FULLWORD	4	CSA_CEL_	length
#				SERVICE_VECTOR_	
#				LENGTH	
#	(504)	FULLWORD	4	CSA_CEL_	avail flags
#				SERVICE_FLAGS	
#	(504)	BITSTRING	1	CSA_CEL_	flag byte 1
#				SERVICE_FLAG_BYTE1	
#		1... ..		CSA_DFHGCAA_ AVAIL	get anchor
#		.1.. ..		CSA_DFHSCAA_ AVAIL	set anchor
#		..1. ....		CSA_DFHLEGM_ AVAIL	getmain
#		...1 ....		CSA_DFHLEFM_ AVAIL	freemain
#		.... 1...		CSA_DFHLEAS_ AVAIL	add subpool
#		.... .1..		CSA_DFHLEDS_ AVAIL	delete subpool
#		.... ..1.		CSA_DFHLEQG_ AVAIL	get quickcell
#		.... ...1		CSA_DFHLEFQ_ AVAIL	free quickcell
#	(505)	BITSTRING	1	CSA_CEL_	flag byte 2
#				SERVICE_FLAG_BYTE2	
#		1... ..		CSA_DFHLETR_ AVAIL	trace
#		.1.. ....		CSA_DFHLEDT_ AVAIL	trans dump
#		..1. ....		CSA_DFHLERO_ AVAIL	runtime opts
#		...1 1111		*	reserved
#	(506)	BITSTRING	1	CSA_CEL_	flag byte 3
#				SERVICE_FLAG_BYTE3	
#	(507)	BITSTRING	1	CSA_CEL_	flag byte 4
#				SERVICE_FLAG_BYTE4	

Offset Hex	Type	Len	Name (Dim)	Description
# (508)		128	CSA_CEL_ SERVICE_ROUTINES	routine addr
# (508)	ADDRESS	4	CSA_DFHGCAA_ ADDRESS	get anchor
# (50C)	ADDRESS	4	CSA_DFHSCAA_ ADDRESS	set anchor
# (510)	ADDRESS	4	CSA_DFHLEGM_ ADDRESS	getmain
# (514)	ADDRESS	4	CSA_DFHLEFM_ ADDRESS	freemain
# (518)	ADDRESS	4	CSA_DFHLEAS_ ADDRESS	add subpool
# (51C)	ADDRESS	4	CSA_DFHLEDS_ ADDRESS	delete subpool
# (520)	ADDRESS	4	CSA_DFHLEGG_ ADDRESS	get quickcell
# (524)	ADDRESS	4	CSA_DFHLEFQ_ ADDRESS	free quickcell
# (528)	ADDRESS	4	CSA_DFHLETR_ ADDRESS	trace
# (52C)	ADDRESS	4	CSA_DFHLEDT_ ADDRESS	trans dump
# (530)	ADDRESS	4	CSA_DFHLERO_ ADDRESS	runtime opts
# (534)	ADDRESS	84	*	reserved
END OF OPTIONAL FEATURES LIST				
<b>APAR PQ36592</b>				
changed the next offset,				
# (588)	CHARACTER	*		Reserved

### Constants

Len	Type	Value	Name	Description
1	HEX	FD	CSAMXTOF	MAXIMUM TASK INDICATOR OFF
OPERATING SYSTEM AND CICS LEVEL INDICATORS				
CSAOPSYS - OPERATING SYSTEM				
1	CHARACTER	E	CSAVSE	DOS/VSE
1	CHARACTER	M	CSAMVS	OS/MVS
1	CHARACTER	X	CSAMVX	MVS/ESA
CSAOPREL - OPERATING SYSTEM RELEASE				
CSACIREL - CICS RELEASE				
1	HEX	14	CSAC14	VERSION 1, RELEASE 4
1	HEX	15	CSAC15	VERSION 1, RELEASE 5
1	HEX	16	CSAC16	VERSION 1, RELEASE 6
1	HEX	17	CSAC17	VERSION 1, RELEASE 7 CICS/MVS
1	HEX	21	CSAC21	VERSION 2, RELEASE 1 CICS/ESA
1	HEX	31	CSAC31	VERSION 3, RELEASE 1
1	HEX	32	CSAC32	VERSION 3, RELEASE 2
1	HEX	33	CSAC33	VERSION 3, RELEASE 3
1	HEX	41	CSAC41	VERSION 4, RELEASE 1
1	HEX	51	CSAC51	VERSION 5, RELEASE 1
1	HEX	52	CSAC52	VERSION 5, RELEASE 2
1	HEX	53	CSAC53	VERSION 5, RELEASE 3
1	HEX	00	CSAMOD00	modification level 0
1	HEX	01	CSAMOD01	modification level 1
1	HEX	02	CSAMOD02	modification level 2
1	HEX	03	CSAMOD03	modification level 3
MODULE ENTRY ADDRESS				
1	HEX	80	CSASCPXM	STORAGE CONTROL PROGRAM CHECK
TASK ABNORMAL TERMIN. INTERFACE				
1	HEX	0E	CSAICRMN	ABEND TASK INDICATOR MASK - ON
1	HEX	FE	CSAICRMF	ABEND TASK INDICATOR MASK - OFF
CONSTANT VALUES FOR CSADLRR				
1	DECIMAL	0	CSADLNRM	NORMAL RESPONSE
1	DECIMAL	16	CSADLDER	DISASTROUS ERROR



## CTXPA DL/I general purpose macro

MACRO NAME = DFHDLP  
 DESCRIPTIVE NAME = CICS DL/I General Purpose Macro  
 FUNCTION =  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = NONE  
 PATCH LABEL = NONE  
 MODULE TYPE = EXECUTABLE

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHCTXPA	,
(0)	ADDRESS	4	CTEINIT	Init Token - Addresses the DGB
(4)	CHARACTER	4	CTEDBCTL	DCBTL ID
(8)	CHARACTER	2	CTEOFUNC (0)	DRA Over-all function code
(8)	CHARACTER	1	CTEFUNC	DRA Function code
	.... .1.		CTERSYN	"X'02" Resync
	.... .1.1		CTEFAIL	"X'05" DRA/DBCTL Failure
(9)	BITSTRING	1	CTESFUNC	DRA Sub-function code
	.... ...1		CTEIDFL	"X'01" IDENTIFY Failed
	.... .1.		CTECANC	"X'02" INIT request failed
	.... ..11		CTEDBCF	"X'03" DBCTL has terminated
	.... .1..		CTEDRAF	"X'04" DRA Abnormally terminating
	.... .1.1		CTEDBCC	"X'05" /CHR FREEZE issued
(A)	HALFWORD	2	CTEIDLEN	In-doubt List Length ( -1 indicates failure in Adapter )
(C)	ADDRESS	4	CTEIDPTR	In-doubt List pointer
(10)	CHARACTER	8	CTEJOBNM	Jobname of active DBCTL sub-system
(18)	CHARACTER	1	CTECRC	DBCTL Command Recognition character
(19)	CHARACTER	1	CTERGTY	DBCTL Region type
	.... ...1		CTEDBCX	"X'01" DB/DC with XRF
	.... ..1.		CTEDBCO	"X'02" DB/DC Only
	.... .1..		CTEDBCL	"X'04" DBCTL
(1A)	BITSTRING	2	CTEMITCB	Minimum number of TCBS
(1C)	BITSTRING	2	CTEMATCB	Maximum number of TCBS
(1E)	CHARACTER	1	CTERCOD	DBCTL Failure reason code
	.... ...1		CTESSF	"X'01" MVS SSI Failure
	.... .1.		CTEABND	"X'02" DBCTL Abend
	.... ..11		CTEGMF	"X'03" DRA Getmain Failure during INIT
	.... .1..		CTEOPC	"X'04" System Operator cancelled Init
	.... .1.1		CTEDBNZ	"X'05" DBCTL set non-zero ret on Identify
	.... .11.		CTEESTF	"X'06" DRA could not establish ESTAE
	.... .111		CTEDRAA	"X'07" DRA abended
	.... 1..		CTENTUP	"X'08" DBCTL is not active
	.... 1..1		CTENOSS	"X'09" DBCTL does not exist
	.... 1.1.		CTENINT	"X'0A" DBCTL is in initialisation process
	.... 1.11		CTERSTN	"X'0B" DBCTL init done, waiting for restart
	.... 11..		CTERST	"X'0C" DBCTL is in restart process
	.... 11.1		CTEBRST	"X'0D" Backup in ERE mode
	.... 11.		CTETKOV	"X'0E" Takeover mode
	.... 1111		CTEITCF	"X'0F" Internal DRA TERM after CHEFZ
DS CL3				
(1F)	BITSTRING	4	CTEPARETC	PAPARETC
(23)	BITSTRING	2	CTEASID	DBCTL ASID
(25)	CHARACTER	8	CTEJOBID	DBCTL JES Job ID
(2D)	CHARACTER	8	CTERSEN	DBCTL RSE Name
(38)	FULLWORD	4	CTENOMITHD	Number of times min thread hit
(3C)	FULLWORD	4	CTENOMATHD	Number of times max thread hit
(40)	FULLWORD	4	CTEELMAX	Elapsed time at max thread
(44)	FULLWORD	4	CTEHIWAT	Highest number of threads attached
	.1.. 1..		CTELNGTH	"*-DFHCTXPA" End of Control Exit Parameter List

**CWE DL/I general purpose macro**

MACRO NAME = DFHDLP  
 DESCRIPTIVE NAME = CICS DL/I General Purpose Macro  
 FUNCTION =  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = NONE  
 PATCH LABEL = NONE  
 MODULE TYPE = EXECUTABLE

Offset	Type	Len	Name (Dim)	Description
Hex				
(0)			DFHCWE	'
(0)	FULLWORD	4	CWELEN	Length of CWE
(4)	ADDRESS	4	CWEFCHN	Forward chain
(8)	ADDRESS	4	CWEBCHN	Backwards chain
(C)	BITSTRING	1	CWEFLAG	CWE flags
	1... ..		CWEINUSE	"X'80" CWE in use bit
(D)	BITSTRING	1	CWETYPE	Type of CWE entry
	11.. 1..1		CWETERM	"C'1" Terminate CWE
(E)	BITSTRING	1	(2)	reserved
(10)	BITSTRING	1	CWEDUMMY (0)	CWE function dependent area
	...1 .....		LCWETERM	""-DFHCWE"

**DBU DBCTL unsolicited statistics**

CONTROL BLOCK NAME = DFHDBUDS  
 DESCRIPTIVE NAME = CICS DBCTL Unsolicited Statistics  
 FUNCTION = This DSECT describes the DBCTL unsolicited statistics  
 This copybook maps DBCTL unsolicited statistics. The storage area is built at the end of each DBCTL session. The copybook is used by DFHSTUP and user programs requiring access to DBCTL statistics data.  
 For Local DL/I statistics see DFHA18DS.  
 LIFETIME = Duration of the domain call to statistics domain  
 LOCATION = Caller is passed a pointer to the head of the block.  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = None  
 CONTROL BLOCKS = In DBCTL  
 GLOBAL VARIABLES (Macro pass) = None  
 and STADTIME to 'local STCK'

Offset	Type	Len	Name (Dim)	Description
Hex				
(0)			DFHDBUDS	DBCTL USS
(0)	FULLWORD	4	(0)	Reserved
(0)	HALFWORD	2	DBULEN	Length of data area
	...1 11..		DBUIDE	"28" DBCTL USS id mask
(2)	ADDRESS	2	DBUID	DBCTL USS stats id
	.... ...1		DBUVERS	"X'01" DSECT version number mask
(4)	CHARACTER	1	DBUDVERS	DBCTL USS version number
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	STATSENO	CICS-DBCTL session No
(C)	CHARACTER	4	STATDBID	DBCTL id
(10)	CHARACTER	8	STARSEN	RSE name
(18)	BITSTRING	8	STACTIME	Connect time (GMT STCK)
(20)	BITSTRING	8	STADTIME	Disconnect time (GMT STCK)
(28)	HALFWORD	2	STAMITHD	Minimum number of threads
(2A)	HALFWORD	2	STAMATHD	Maximum number of threads
(2C)	FULLWORD	4	STANOMITHD	No. of times min threads hit
(30)	FULLWORD	4	STANOMATHD	No. of times max threads hit
(34)	BITSTRING	8	STAELEMAX	Elapsed time at max threads
(3C)	FULLWORD	4	STAHIWAT	Hi-water for No. of threads
(40)	FULLWORD	4	STAPBSU	Total No. successful PSB schedules
(44)	BITSTRING	8	STALCTIM	Connect Time (Local STCK)
(4C)	BITSTRING	8	STALDTIM	Disconnect Time (Local STCK)
	.1.1 .1..		DBUEND	"" End of DSECT

Offset Hex	Type	Len	Name (Dim)	Description
	.1.1 .1..		DBUCLEN	""-DBULEN" Length of DSECT

## DBWMS XRF/DBCTL last message sent

CONTROL BLOCK NAME = DFHDBWMS  
 DESCRIPTIVE NAME = CICS XRF/DBCTL Last Message Sent  
 FUNCTION = Maps the XRF message for DBCTL  
 LIFETIME =  
     Storage obtained by GETMAIN  
 LOCATION = CSA->OPFL->DLP->DGB->DXPS->DBWMS  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition  
     Contained in PL/AS Copy Book DFHDXMAC  
     Invoke by DXMSGPS NAME(qualifier)  
         the qualifier is used to allow multiple copies of  
         the message to be defined in the same program  
         (rather than use of ->)  
 EXTERNAL REFERENCES = None  
 DATA AREAS = Contains names and lds of IMS job  
 GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	78	DFHDBWMS_DXMSG	
DECLARE THE DBCTL MESSAGE MAPPING				
(0)	CHARACTER	4	DXMSG_WMSSBCID	IMS ssid
(4)	CHARACTER	8	DXMSG_WMSSRSENM	IMS RSE name
(C)	CHARACTER	8	DXMSG_WMSSJNAME	IMS MVS jobname
(14)	CHARACTER	8	DXMSG_WMSSJOBID	IMS Jes Jobid
(1C)	CHARACTER	4	DXMSG_WMSSMFID	MVS SMF id
(20)	CHARACTER	1	DXMSG_WMSSIND	MVS System Indicator
	1... ..		DXMSG_XCFA	XCF services available
	.111 1111		*	Reserved
(21)	CHARACTER	8	DXMSG_WMSSPLX	XCF syslex name
(29)	CHARACTER	8	DXMSG_WMSSNAM	XCF system name
(31)	CHARACTER	4	DXMSG_WMSSSTOK	MVS system instance token
(35)	CHARACTER	4	DXMSG_WMSSJESID	SSID of active JES
(3A)	HALFWORD	2	DXMSG_WMSSASID	IMS MVS asid
(3C)	CHARACTER	1	DXMSG_WMSSITYPE	IMS region type
(40)	FULLWORD	4	DXMSG_WMSSUERC	User Exit Return Code
(44)	BITSTRING	4	DXMSG_WMSSCTIME	IMS connect time
(48)	BITSTRING	4	DXMSG_WMSSDTIME	IMS disconnect time
(4C)	CHARACTER	1	DXMSG_FLGS1	FLGS to show message type
	1... ..		DXMSG_DBCF	DBCTL failure
	.1. ....		DXMSG_DRAF	DRA failure
	..1. ....		DXMSG_CON	Connection complete
	...1 ....		DXMSG_CATCH	Catchup message
	.... 1...		DXMSG_DISC	Disconnection complete
	.... .1..		DXMSG_ERROR	Error in control tran / exit
	.... .11		*	Filler for remainder of byte
(4D)	CHARACTER	1	DXMSG_FLGS2	FLGS to show active environment
	1... ..		DXMSG_MVSID	MVSid in active AXI
	.1. ....		DXMSG_APPLID	Active applid in AXI
	..1. ....		DXMSG_JES	Active CICS & IMS on same JES
	...1 ....		DXMSG_ALT	Alternate found on active CEC
	.... 1...		DXMSG_CMD	CMD issued OK on active CEC
	.... .111		*	Filler for remainder of byte

### Constants

Len	Type	Value	Name	Description
1	DECIMAL	0	DBCTL_DISC	DBCTL is not connected
1	DECIMAL	4	DBCTL_CONN	DBCTL is connected
1	DECIMAL	8	DBCTL_MCONN	DBCTL is morally connected

## DCR Transaction dump record formats

CONTROL BLOCK NAME = DFHDCRPS  
 DESCRIPTIVE NAME = CICS Transaction Dump Record Formats  
 FUNCTION = Contains the structures for transaction dump records  
 : SPECIFIED\_RMODE/AMODE.  
 DUMP DATASET RECORD  
 THIS DSECT DESCRIBES THE FORMAT OF THE DIFFERENT TYPES OF RECORDS WRITTEN TO THE DUMP DATASET FOR TRANSACTION DUMPS. IT IS USED BY DU DOMAIN TO CREATE RECORDS AND BY DFHDUxxx TO READ THEM.  
 BLOCK FORMAT

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	BLOCK_HEADER	
(0)	UNSIGNED	2	DCBLKLEN	BLOCK LENGTH
(2)	UNSIGNED	2	*	PADDING INIT(0)
(4)	CHARACTER		DCRECST	START OF FIRST RECORD

STANDARD RECORD HEADING

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	RECORD_HEADER	
(0)	UNSIGNED	2	DCRECLEN	RECORD LENGTH
(2)	UNSIGNED	2	*	PADDING INIT(0)
(4)	BITSTRING	1	DCIRTSI	RECORD TYPE
(5)	BITSTRING	1	DCIND1	EXCESS LENGTH INDICATOR
	111. ....		*	SPARE
	...1 ....		DCLAST	..LAST RECORD IN BLOCK
	.... 1...		DCRESTR	.. DUMP TO BE RESTARTED
	.... .1..		DCDUPLS	.. DUPLICATE LINES SKIPPED
	.... .1.		DCCONTN	.. CONTINUATION RECORD
	.... ...1		DCOVRN	.. OVER-LENGTH RECORD
(6)	BITSTRING	1	DCIND2	ERROR INDICATOR
	1... ....		DCBADSEG	.. BAD SEGMENT LIST
	.1.. ....		DCMVFAIL	.. MVCL FAILED (DUXW)
	..1. ....		*	SPARE
	...1 ....		DCBADCHN	.. BROKEN STORAGE CHAIN
	.... 1...		DCPGMCHK	.. PROGRAM CHECK IN DFHDCP
	.... .1..		DCNCICIC	.. NON-CICS STORAGE OK
	.... ...1		DCNONCIC	.. NON-CICS STORAGE UNEXPECTEDY
	.... ...1		DCBADSA	.. STORAGE ACCOUNTING ERROR
(7)	BITSTRING	1	DCSPACE	SPACING CONTROL
(8)	CHARACTER		DCDATST	START OF TYPE SPECIFIC DATA

STORAGE AREA RECORD

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	INDEX_AREA	
(0)	FULLWORD	4	DCADDR	ADDRESS OF AREA DUMPED
(4)	UNSIGNED	4	DCLENG	LENGTH OF AREA DUMPED
(8)	UNSIGNED	4	DCINDX	INDEX OF FIRST BYTE
(8)	UNSIGNED	4	*	
(C)	CHARACTER		DCDATA	START OF DATA

DUMP HEADER RECORD

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	48	DUMP_HEADER_RECORD	
(0)	CHARACTER	8	DCIDRC	INIT('IDRECORD')
(8)	CHARACTER	4	DCTASKID	TASK ID FROM PCTTI
(C)	CHARACTER	4	DCDUMPC	DUMP CODE FROM TCADCDC
(10)	CHARACTER	9	DCDUMPST	DUMP ID
(19)	CHARACTER	6	DCTIME	TIME OF DAY (HHMMSS)
(1F)	BITSTRING	1	DCDATFM	FULL DATE FORMAT - SEE KETI
(20)	CHARACTER	8	DCDATE	DATE
(28)	CHARACTER	8	DCAPPLID	SYSTEM APPLID

TRACE TABLE HEADER RECORD

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	36	TRACE_TABLE_HEADER	
(0)	CHARACTER	32	DCTHDR	TRACE HEADER
(20)	FULLWORD	4	DCHDRA	TRACE HEADER ADDRESS

LINE SEGMENT OR ERROR MESSAGE RECORD

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	132	LINE_SEG	
(0)	CHARACTER	132	DCLINE	

LIFO INTERPRETATION RECORD

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	62	LIFO_INT	
(0)	CHARACTER	26	DCLIFOP1	INIT('LIFO STACK ENTRY OWNED BY ')
(1A)	CHARACTER	8	DCLIFOWN	MODULE-NAME
(22)	CHARACTER	11	DCLIFOP2	INIT(' / LINK-REG')
(2D)	CHARACTER	10	DCLIFOP3	' OFFSET = ' OR ' IS EMPTY.'
(37)	CHARACTER	7	DCLIFOFF	LINK-REG OFFSET

PSW RECORD

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	PSW_RECORD	
(0)	CHARACTER	16	DCPSW	PSW
(0)	CHARACTER	8	*	.. EC-MODE PSW
(8)	CHARACTER	8	DCINT	.. INTERRUPT INFORMATION

CONTROL BLOCK INDEX ITEM RECORD

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	10	CONT_INDEX	
(0)	FULLWORD	4	DCCBST	DATA START POINT
(4)	CHARACTER	6	DCCBNAME	CONTROL BLOCK NAME
(A)	CHARACTER		DCCBEND	DATA END POINT
(A)	CHARACTER		DCCBHDR	HEADING DATA

## MODULE INDEX ITEM RECORD

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	30	MODULE_INDEX	
(0)	CHARACTER	8	PROGRAM_NAME	
(8)	FULLWORD	4	PROGRAM_LENGTH	
(C)	ADDRESS	4	ENTRY_POINT	
(10)	ADDRESS	4	LOAD_POINT	
(14)	FULLWORD	4	INSTANCE_USE_COUNT	

THE VALUES OF THE FOLLOWING FIELDS ARE DEFINED IN THE STRUCTURE 'DFHLDLDA'.

(18)	CHARACTER	1	PROGRAM_TYPE	
(19)	CHARACTER	1	PROGRAM_USAGE	
(1A)	CHARACTER	1	PROGRAM_ATTRIBUTE	
(1B)	CHARACTER	1	SPECIFIED_AMODE	
(1C)	CHARACTER	1	SPECIFIED_RMODE	
(1D)	CHARACTER	1	LOCATION	

## Interrupt PSW &amp; registers

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	80	INT_DATA	
(0)	CHARACTER	8	INT_PSW (2)	INTERRUPT PSW
(10)	CHARACTER	64	INT_REGS	REGISTERS AT TIME OF INTERRUPT

## SIZE OF SUCCESSFUL GETMAIN FOR TRACE TABLE

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	13	GMAIN_DATA	
(0)	FULLWORD	4	TDTR_SIZE_GMAIN	ALLOCATED STORAGE
(4)	FULLWORD	4	TDTR_SIZE_DUA	REQUESTED SIZE
(8)	FULLWORD	4	TDTR_SIZE_INT	INTERNAL TR TAB SZ
(C)	CHARACTER	1	TDTR_TYPE	SELECTION TYPE

## Constants

Len	Type	Value	Name	Description
1	HEX	01	DCSSIC	SEGMENT STORAGE
1	HEX	03	DCCSAIC	CSA STORAGE
1	HEX	05	DCTCUA	TCTTE USER AREA
1	HEX	08	DCTERMIC	TERMINAL STORAGE
1	HEX	09	DCFCADIC	FCA DEST. CONTROL TABLE
1	HEX	0A	DCFCATIC	FCA TERMINAL CONTROL TABLE
1	HEX	0B	DCPCTIC	PROGRAM CONTROL TABLE
1	HEX	0C	DCPPTIC	PROCESSING PROGRAM TABLE
1	HEX	0D	DCFCATIC	FILE CONTROL TABLE
1	HEX	0E	DCDCTIC	DESTINATION CONTROL TABLE
1	HEX	0F	DCTCTIC	TERMINAL CONTROL TABLE
1	HEX	10	DCDTIC	JULIAN DATE & TIME OF DAY
1	HEX	12	DCCOMIC	COMMUNICATION AREA
1	HEX	13	DCTCLUC	TCTTE LUC EXTENSION
1	HEX	14	DCTCLCSB	TCTTE LUC SEND BUFFER
1	HEX	15	DCTCLCRB	TCTTE LUC RECEIVE BUFFER
1	HEX	16	DCTCBMEX	TCTTE BMS EXTENSION
1	HEX	17	DCTLRIC	TRANSACTION TRAILER RECORD
1	HEX	18	DCPROGAB	PROG.CHECK ASSOCIATED STG.
1	HEX	19	DCU24IC	USER24 SUBPOOL STORAGE
1	HEX	1A	DCTC31IC	CICS31 SUBPOOL STORAGE
1	HEX	1B	DCTCAPP	INT PSW & REGS 0 - 15
1	HEX	1C	DCDBLIC	DYNAMIC LOG STORAGE
1	HEX	1D	DCTC24IC	CICS24 SUBPOOL STORAGE
1	HEX	1E	DCU31IC	USER31 SUBPOOL STORAGE
1	HEX	20	DCPROGIC	PROGRAM STORAGE
1	HEX	21	DCMCBIC	MESSAGE CONTROL BLOCK
1	HEX	23	DCSITIC	SYSTEM INITIALIZATION TABLE
1	HEX	24	DCOPFLIC	CSA OPTIONAL FEATURES LIST

Len	Type	Value	Name	Description
1	HEX	25	DCRSAIC	RSA STORAGE
1	HEX	26	DCLIFOIC	LIFO STORAGE
1	HEX	27	DCPCBIC	DL/I PCB
1	HEX	28	DCISBIC	DL/I ISB
1	HEX	29	DCPSTIC	DL/I PST
1	HEX	2A	DCSCDIC	DL/I SCD
1	HEX	2B	DCDGB	DL/I DGB
1	HEX	2C	DCDGBCT	DL/I DGB
1	HEX	2D	DCDSB	DL/I DSB
1	HEX	2E	DCDSBRESP	DL/I DSB RESPONSE
1	HEX	2F	DCUIB	DL/I USER RESPONSE CODES
1	HEX	30	DCTIE	Task Interface Element
1	HEX	32	DCUEPAR	UEPAR Plist for TRUE
1	HEX	3C	DCPSNTIC	PSEUDO SIGN-ON TABLE ENTRY
1	HEX	41	DCFDHDR	FORMATTED DUMP HEADER
1	HEX	42	DCFDSUP	SUPERVISOR DUMP
1	HEX	43	DCFDPTN	PARTITION DUMP
1	HEX	44	DCFDPSW	PSW
1	HEX	45	DCFDREGS	REGISTERS
1	HEX	46	DCFDLINE	LINE SEGMENT
1	HEX	47	DCFDHEX	HEXADECIMAL
1	HEX	48	DCFDERR	ERROR MESSAGE
1	HEX	49	DCFDCIND	CONTROL BLOCK INDEX
1	HEX	4A	DCFDMIND	MODULE INDEX
1	HEX	4B	DCFDDSA	DYNAMIC STORAGE AREA
1	HEX	7F	DCFDTLR	FORMATTED DUMP TRAILER
1	HEX	4C	DCTRHEAD	TRACE HEADER REC
1	HEX	4D	DCTRREC	TRACE RECORD
1	HEX	4E	DCTRTAIL	TRACE TRAILER REC
1	HEX	FF	DCLRIC	END OF DUMP DATA SET

---

**DCT Destination control table**

```

MODULE NAME = DFHDCTPS
DESCRIPTIVE NAME = Transient Data Queue Entries
                  CICS/ESA AP Domain
FUNCTION =
  Copybook DFHDCTPS provides structures, DFHDCTPS and
  DCTSDSCI, that are used to describe entries in the
  Destination Control Table (DCT).
  DFHDCTPS describes entries for queues, these will be
  generated by invocations of the following macros
  1. DFHDCT TYPE=EXTRA
  2. DFHDCT TYPE=INDIRECT
  3. DFHDCT TYPE=INTRAPARTITION
  4. DFHDCT TYPE=REMOTE
  while DCTSDSCI describes entries for data sets, these
  will be generated by invocations of the following
  macro
  1. DFHDCT TYPE=SDSCI
LIFETIME =
  The lifetime of all DCT entries is essentially that of
  CICS.
STORAGE CLASS =
  All DCT entries, with the exception of those for queue
  CXRF and data set DFHCXRF, are located in the DCT load
  module.
  The exceptions are located in storage allocated from
  the DFHTDG24 subpool.
LOCATION =
  Entries for queues are located from the Table Manager
  DCT table.
  Entries for data sets are located from the associated
  entries for extrapartition queues.
INNER CONTROL BLOCKS =
  Each data set entry contains a Data Control Block (DCB).
NOTES :
DEPENDENCIES =
  S/370
RESTRICTIONS =
  There are no restrictions.
MODULE TYPE =
  Control block definition.
Moving the DCT above the line
As SDSCIs interact with QSAM they must be
resident below the line. So the complete DCT has been copied
above the line with the SDSCI referred to as the model SDSCI.
A copy of this occurs below the line and it is known as the real
SDSCI. Existing SDSCI addresses refer to the real SDSCI and a
new field (TDEXASDM) has been added to contain the address of
model SDSCI. In the SDSCI dsect a new field (DCTSDSRP) has been
added. This contains the address of the real SDSCI which
corresponds to the model SDSCI.
  DESTINATION CONTROL TABLE TABLE ENTRY
  --- COMMON PREFIX ---
    
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	56	TDDCTCMN	
(0)	CHARACTER	8	TDDCT_PREFIX	Prefix
(8)	CHARACTER	4	TDDCTDID	Identification
(C)	BITSTRING	1	TDDCTDT	Attributes
	1... ..		TDINDTBM	- intrapartition (I/P)
	.1.. ..		TDEXTRBM	- extrapartition (E/P)
	..1. ....		TDINDBM	- indirect
	...1 ....		TDRMTBM	- remote
	.... 1...		TDITBM	- (I/P) - task triggered
	.... .1..		*	Reserved
	.... ..1.		TDNOTRM	- (I/P) - DESTFAC=FILE
	.... ...1		TDSYSTEM	- (I/P) - DESTFAC=SYSTEM
(D)	UNSIGNED	1	*	- Reserved
(E)	HALFWORD	2	TDDCTELN	Entry length
(10)	CHARACTER	12	TDDCT_COMMON_STATS	
(10)	FULLWORD	4	TDDCT_WRITES	Number of writes
(14)	FULLWORD	4	TDDCT_READS	Number of reads
(18)	FULLWORD	4	TDDCT_DELETES	Number of deletes
(1C)	CHARACTER	4	TDDCT_TXN_NUMBER	Owning transaction number
(20)	CHARACTER	20	*	Associated queue
(20)	CHARACTER	4	TDDCTSYS	- N(remote system)
(24)	CHARACTER	4	TDDCTRID	- N(remote queue)
(28)	CHARACTER	8	TDRDOGRP	- RDO group identifier
(30)	HALFWORD	2	TDDCTRLN	- Default data length
(32)	HALFWORD	2	*	- Reserved
(34)	BITSTRING	1	TDTDSFLO	Type independent status
	1... ..		TDDCT_ENABLED	- Enabled
	.1.. ..		TDDCT_DISABLING	- Disabling
	..1. ....		TDDCT_DISABLED	- Disabled



Offset Hex	Type	Len	Name (Dim)	Description
	.... 1...		TDRIGRM	- msg has been put out to warn that Trig Tranid=Remote
	.... 1...		TDATFAIL	- msg has been put out to warn of Tran Attach Fail
	.... .1..		TDSCHFAL	- msg has been put out to warn of Tran Schedule Fail
	.... ..1.		TDUSFAIL	- msg has been put out to warn of US call failure
	.... ..1		*	- Reserved
(35)	BITSTRING	1	TDTSFL1	Type dependent status - 1
(36)	BITSTRING	1	TDTSFL2	Type dependent status - 2
(37)	BITSTRING	1	TDTSFL3	Type dependent status - 3
(38)	CHARACTER		*	

DESTINATION CONTROL TABLE TABLE ENTRY  
 --- INDIRECT DESTINATIONS ---  
 --- ----- ---

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	64	TDDCTIND	
(0)	CHARACTER	8	*	Prefix
(8)	CHARACTER	4	*	Identification
(C)	BITSTRING	1	*	Attributes
(D)	UNSIGNED	1	*	Resource security level
(E)	HALFWORD	2	*	Entry length
(10)	CHARACTER	16	*	Common stats
(10)	FULLWORD	4	*	Statistics
(14)	FULLWORD	4	*	Statistics
(18)	FULLWORD	4	*	Statistics
(1C)	FULLWORD	4	*	Reserved
(20)	CHARACTER	20	*	Associated queue
(20)	CHARACTER	4	*	- N(remote system)
(24)	CHARACTER	4	*	- N(remote queue)
(28)	CHARACTER	8	*	- RDO group identifier
(30)	HALFWORD	2	*	- Default data length
(32)	HALFWORD	2	*	- Reserved
(34)	BITSTRING	1	*	Type independent status
(35)	BITSTRING	1	*	Type dependent status - 1
(36)	BITSTRING	1	*	Type dependent status - 2
(37)	BITSTRING	1	*	Type dependent status - 3
(38)	CHARACTER	8	*	Associated queue
(38)	CHARACTER	4	TDDCTIDN	- N(indirect queue)
(3C)	ADDRESS	4	*	Reserved
(40)	CHARACTER		*	

DESTINATION CONTROL TABLE TABLE ENTRY  
 --- REMOTE DESTINATIONS ---

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	56	TDDCTREM	
(0)	CHARACTER	8	*	Prefix
(8)	CHARACTER	4	*	Identification
(C)	BITSTRING	1	*	Attributes
(D)	UNSIGNED	1	*	Resource security level
(E)	HALFWORD	2	*	Entry length
(10)	CHARACTER	16	*	Common stats
(10)	FULLWORD	4	*	Statistics
(14)	FULLWORD	4	*	Statistics
(18)	FULLWORD	4	*	Statistics
(1C)	FULLWORD	4	*	Reserved
(20)	CHARACTER	20	*	Associated queue
(20)	CHARACTER	4	*	- N(remote system)
(24)	CHARACTER	4	*	- N(remote queue)
(28)	CHARACTER	8	*	- RDO group identifier
(30)	HALFWORD	2	*	- Default data length
(32)	HALFWORD	2	*	- Reserved
(34)	BITSTRING	1	*	Type independent status
(35)	BITSTRING	1	*	Type dependent status - 1
(36)	BITSTRING	1	*	Type dependent status - 2
(37)	BITSTRING	1	*	Type dependent status - 3
(38)	CHARACTER		*	

DESTINATION CONTROL TABLE TABLE ENTRY  
 --- EXTRAPARTITION DESTINATIONS ---

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	136	TDDCTEXP	
(0)	CHARACTER	8	*	Prefix
(8)	CHARACTER	4	*	Identification
(C)	BITSTRING	1	*	Attributes
(D)	UNSIGNED	1	*	Resource security level
(E)	HALFWORD	2	*	Entry length
(10)	CHARACTER	16	*	Common stats
(10)	FULLWORD	4	*	Statistics
(14)	FULLWORD	4	*	Statistics
(18)	FULLWORD	4	*	Statistics
(1C)	FULLWORD	4	*	Reserved
(20)	CHARACTER	20	*	Associated queue
(20)	CHARACTER	4	*	- N(remote system)
(24)	CHARACTER	4	*	- N(remote queue)
(28)	CHARACTER	8	*	- RDO group identifier
(30)	HALFWORD	2	*	- Default data length
(32)	HALFWORD	2	*	- Reserved
(34)	BITSTRING	1	*	Type independent status
(35)	BITSTRING	1	TDEXSFL1	Type dependent status - 1
			TDEXOPIN	- OPEN = INITIAL
			*	- Reserved
(36)	BITSTRING	1	TDEXSFL2	Type dependent status - 2
			TDEXOPIP	- OPEN in progress
			TDEXOPEN	- OPEN
			TDEXCLIP	- CLOSE in progress
			TDEXCLOS	- CLOSED
			TDEXFEIP	- FEOV in progress
			TDEXDA	- Dynamically Allocated
			TDEXPA	- Pre-allocated
			TDEXASYO	- Allocated to SYSOUT
(37)	BITSTRING	1	TDEXSFL3	Type dependent status - 3
			TDEXNOSP	- NOSPACE raised
			TDEXQZER	- QZERO raised
			TDEXABND	- abend occurred
			TDEXIOER	- I/O error occurred
			*	- Reserved
(38)	BITSTRING	1	TDEXDISP	Disposition
			TDEXSHR	- SHR
			TDEXOLD	- OLD
			TDEXMOD	- MOD
			*	- reserved
(39)	BITSTRING	1	*	- reserved
(3A)	BITSTRING	1	*	- reserved
(3B)	CHARACTER	1	TD_EXTRA_	
			SYSOUT_CLASS	
				- Sysout Class
(3C)	CHARACTER	44	TDEXDSN	Data-set name
(68)	CHARACTER	16	*	Associated SDSCI
(68)	CHARACTER	8	TDEXNSDS	- N(real SDSCI)
(70)	ADDRESS	4	TDEXASDS	- A(real SDSCI)
(74)	ADDRESS	4	TDEXASDM	- A(model SDSCI)
(78)	CHARACTER	8	*	Request processing chain
(78)	FULLWORD	4	TD_EXTRA_Q_OWNER	- Identify transaction the owner
(7C)	ADDRESS	4	TDEXAWCB	- A(first MWCB) or 0
(80)	CHARACTER	8	TDEXMEMB	Member name if PDS
(88)	CHARACTER		*	

DESTINATION CONTROL TABLE TABLE ENTRY  
--- INTRAPARTITION DESTINATIONS ---

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	212	TDDCTINP	
(0)	CHARACTER	8	*	Prefix
(8)	CHARACTER	4	*	Identification
(C)	BITSTRING	1	*	Attributes
(D)	UNSIGNED	1	*	Resource security level
(E)	HALFWORD	2	*	Entry length
(10)	CHARACTER	16	*	Common stats
(10)	FULLWORD	4	*	Statistics
(14)	FULLWORD	4	*	Statistics
(18)	FULLWORD	4	*	Statistics
(1C)	FULLWORD	4	*	Reserved
(20)	CHARACTER	20	*	Associated queue
(20)	CHARACTER	4	*	- N(remote system)
(24)	CHARACTER	4	*	- N(remote queue)
(28)	CHARACTER	8	*	- RDO group identifier
(30)	HALFWORD	2	*	- Default data length
(32)	HALFWORD	2	*	- Reserved
(34)	BITSTRING	1	*	Type independent status
(35)	BITSTRING	1	TDINSFL1	Type dependent status - 1

Offset Hex	Type	Len	Name (Dim)	Description
	1... ..		TDDCTSPR	- physically recoverable
	.1... ..		TDDCTSLR	- logically recoverable
(36)	BITSTRING	1	*	Type dependent status - 2
(37)	BITSTRING	1	*	Type dependent status - 3
	1... ..		TDDCT_START_RBA_REC	Start RBA recovered
	.1... ..		TDDCT_READ_RBA_REC	Read RBA recovered
	..1. ....		TDDCT_WRITE_RBA_REC	Write RBA recovered
	...1 ....		TDDCT_NUMELEMS_REC	Numelems recovered
	.... 1...		TDDCT_TDTIBM_REC	TDTIBM recovered
	.... .111		*	Reserved
(38)	CHARACTER	20	*	
(38)	FULLWORD	4	TDDCTDQL	DEST TRIGGER LEVEL
(3C)	CHARACTER	4	TDDCTTID	TRANS ID FOR ATI
(40)	CHARACTER	4	TDDCTTED	TERM ID FOR ATI
(44)	ADDRESS	4	TDDCTAAD	A(AID FOR ATI)
(48)	FULLWORD	4	TDDCT_NO_TIMES_TRIGRD	#times triggered
(4C)	CHARACTER	8	*	
(4C)	FULLWORD	4	TDDCT_CURRENT_CIS	CIs allocated to Q.
(50)	FULLWORD	4	TDDCT_PEAK_CIS	Peak CIs allocated to this Q.
(54)	CHARACTER	96	*	
(54)	CHARACTER	16	*	
(54)	FULLWORD	4	TDDCT_COMMITTED_START_RBA	
(58)	FULLWORD	4	TDDCT_COMMITTED_WRITE_RBA	
(5C)	FULLWORD	4	TDDCT_COMMITTED_READ_RBA	
(60)	FULLWORD	4	TDDCT_COMMITTED_NUMELEMS	
(64)	CHARACTER	16	*	
(64)	ADDRESS	4	TDDCT_READ_TDQUB_PTR	
(68)	FULLWORD	4	*	-> to TDQUB Reserved
(6C)	CHARACTER	8	TDDCT_UOW_OWNING_READ_NQ	Owning UOWID
(74)	CHARACTER	16	*	
(74)	ADDRESS	4	TDDCT_WRITE_TDQUB_PTR	
(78)	FULLWORD	4	*	-> to TDQUB Reserved
(7C)	CHARACTER	8	TDDCT_UOW_OWNING_WRITE_NQ	Owning UOWID
(84)	CHARACTER	33	*	
(84)	CHARACTER	8	TDDCT_PR_Q_LOG_STCK	Time PR Q log record written
(8C)	CHARACTER	8	TDDCT_PR_START_RBA_REC_STCK	Time start RBA recovered
(94)	CHARACTER	8	TDDCT_PR_READ_RBA_REC_STCK	Time read RBA recovered
(9C)	CHARACTER	8	TDDCT_PR_WRITE_RBA_REC_STCK	Time write RBA recovered
(A4)	BITSTRING	1	TDDCT_PR_LOG_RECORD_TYPE	Record type
	1... ..		TDDCT_READQ	READQ
	.1... ..		TDDCT_WRITEQ	WRITEQ
	..1. ....		TDDCT_DELETEQ	DELETEQ
	...1 ....		TDDCT_FIRST_WRITEQ	First write
	.... 1111		*	Reserved
(A5)	CHARACTER	3	*	
(A5)	BITSTRING	1	TDDCT_FLAGS	Flag byte
	1... ..		*	Reserved
	.1... ..		TDDCT_UNCOMMIT_DATA_WRITTEN	Uncommitted data written to queue
	..1. ....		TDDCT_Q_INDOUBT	Q indoubt
	...1 1111		*	Reserved
(A6)	CHARACTER	2	*	Reserved
(A8)	ADDRESS	4	TDDCT_SUSPEND_TOKEN	DSSR suspnd token@PAA
(AC)	CHARACTER	8	*	

Offset Hex	Type	Len	Name (Dim)	Description
(AC)	ADDRESS	4	TDDCTFCN	- A(FIRST MQCB)
(B0)	ADDRESS	4	TDDCTBCN	- A(LAST MQCB)
(B4)	CHARACTER	8	*	DCTE request chain
(B4)	FULLWORD	4	TD_INTRA_Q_OWNER	- owning transaction identifier
(B8)	ADDRESS	4	TDINAWCB	- A(first MWCB) or 0
(BC)	FULLWORD	4	TDDCT_INTRA_ USE_COUNT	Use count
(C0)	ADDRESS	4	*	Reserved
(C4)	CHARACTER	4	*	
(C4)	BITSTRING	1	TDDCT_INDOUBT	Indoubt option for LR Q's
			TDDCT_REJECT	Reject
			TDDCT_HEURISTIC	Heuristic
			TDDCT_QUEUE	Queue
			*	Reserved
(C5)	BITSTRING	1	*	Reserved Userid data for ..non-terminal AT1
(C6)	BITSTRING	1	TDDCTFLC	Userid data status
			TDDCTUOK	- TDDCTUOK is set for use
			*	- Reserved
(C7)	UNSIGNED	1	TDDCTUIL	Length of userid - x'0' with default userid
(C8)	CHARACTER	8	TDDCTUID	Userid - x'0' with default userid
(D0)	UNSIGNED	4	TDDCTUTK	User token - x'0' with default userid
(D4)	CHARACTER		*	

DESTINATION CONTROL TABLE TABLE ENTRY  
--- SDSCI ---

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	140	DCTS DSPS	
(0)	CHARACTER	40	*	
(0)	FULLWORD	4	DCTS DSLN	length of SDSCI et al
(4)	ADDRESS	4	DCTS DSQP	A(owning DCTE) or 0
(8)	ADDRESS	4	DCTS DSRP	A(real SDSCI) or 0
(C)	CHARACTER	8	DCTS DSOC	OPEN/CLOSE words
(C)	UNSIGNED	1	DCTS DSOO	- open options
(D)	ADDRESS	3	*	- A(0)
(10)	ADDRESS	4	DCTS DSDA	- A(DCB)
(14)	BITSTRING	1	DCTS DRW	REWIND status
			DCTS DSLE	- LEAVE
			DCTS DSRE	- REREAD
			*	- Reserved
(15)	BITSTRING	1	DCTS DTF	TYPEFLE status
			DCTS DSOP	- OUTPUT
			DCTS DSIP	- INPUT
			DCTS DSRB	- RDBACK
			*	- Reserved
(16)	BITSTRING	1	*	Reserved
(17)	BITSTRING	1	*	Reserved
(18)	BITSTRING	1	DCTS DSRF	record format
			DCTS DSUF	- undefined format
			DCTS DSFF	- fixed format
			DCTS DSVF	- variable format
			*	- Reserved (refer to IHADCB)
			DCTS DSBR	- blocked records
			*	- Reserved (refer to IHADCB)
			DCTS DSCA	- ASA control char
			DCTS DSCM	- machine control char
			*	- Reserved (refer to IHADCB)
(19)	BITSTRING	1	*	Reserved
(1A)	HALFWORD	2	DCTS DSBL	block length
(1C)	HALFWORD	2	DCTS DSRL	(maximum) record length
(1E)	HALFWORD	2	*	- Reserved
(20)	ADDRESS	4	DCTDIAA	Address of Shadow Buffer
(24)	HALFWORD	2	DCTDIAL	Length of Shadow Buffer
(26)	HALFWORD	2	*	Reserved
(28)	CHARACTER	4	*	DCB abend exit data
(28)	BITSTRING	2	DCTS DSCC	- system completion code held in the first 12 bits
(2A)	UNSIGNED	1	DCTS DRC	- return code completion code qualifier
(2B)	BITSTRING	1	DCTS DOM	- options mask
			*	- Reserved
			*	- Reserved
			*	- Reserved
			*	- Reserved
			DCTS DOMR	- OK to recover
			DCTS DOMI	- OK to ignore
			DCTS DOMD	- OK to delay
			*	- Reserved
(2C)	CHARACTER	96	DCTS DDCB	DCB DCB DDNAME=TRANDATA, DSORG=PS, MACRF=(GL,PL)
(8C)	CHARACTER		*	

## Constants

Len	Type	Value	Name	Description
8	CHARACTER	>TDQUEUE	TDQUEUE_PREFIX	

## DGB DBCTL-CICS global block

<p>CONTROL BLOCK NAME = DFHDGB          (In DFHDBCOP, invoked via DFHDBMAC)          (Invoked by DFHDL P DGB=DSECT)          DESCRIPTIVE NAME = CICS DBCTL-CICS Global Block          FUNCTION =          Used to store connection/disconnection information regarding the CICS-DBCTL interface.          LIFETIME =          The DBCTL Global Block (DGB) is acquired when initialisation of the CICS-DBCTL interface is first attempted.          It is used to store connection/disconnection information regarding the CICS-DBCTL interface.          It is released at the end of the CICS session.          LOCATION = CSA-&gt;OPFL-&gt;DLP-&gt;DGB          NOTES :          DEPENDENCIES = S/370          RESTRICTIONS = None          MODULE TYPE = Control Block definition          EXTERNAL REFERENCES =          CSA, DLP, Control Transaction Area, DBCTL-XRF area          DATA AREAS =          Values from MVS and JES control blocks concerning DBCTL          CONTROL BLOCKS =          DBCTL exit addresses          GLOBAL VARIABLES (Macro pass) = None</p>
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Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	244	DFHDGB	Based DGB
(0)	CHARACTER	8	DGBDESC	Set to DFHDGB
(8)	ADDRESS	4	DGBCSA	Address of the CSA
(C)	ADDRESS	4	DGBDLP	Address of the DLP
(10)	ADDRESS	4	DGBCTA	Address of the Control Txn Area
(14)	ADDRESS	4	DGBDXBA	Address of the DBCTL-XRF area
(18)	ADDRESS	4	DGBSMTOK	Storage Manager Token
(1C)	ADDRESS	4	DGBCTOKN	Call Token - Returned on response to INIT from the Adapter
(20)	FULLWORD	4	DGBDSENO	Session Number of CICS-DBCTL
(24)	CHARACTER	4	DGBDSTATCS	Status Fields
(24)	CHARACTER	1	DGBDSTAT	Status of the CICS-DBCTL interface
(25)	UNSIGNED	3	DGBDSTCT	Count incremented by 1 when DGBDSTAT is updated or when the control exit is notified by DBCTL of a change in DBCTL's state
(28)	CHARACTER	1	DGBFLAG	Cleanup flag
	1... ..		DGBDFAIL	DBCTL or DRA has failed
	.1.. ..		DGBATEN	Indicator for adapter enable 1 : Enabled 0 : Not enabled yet
	.1. ....		DGBDXERR	Indicator for XRF proc's 0 : Enabled 1 : Disabled due to error
	...1 ....		DGBCABORT	CICS aborted the connection... Reason in DGBABORTRC
	.... 1...		DGBMNPND1	MN call 1 got back POINT_NOT_DEFINED
	.... .1..		DGBMNPND2	MN call 2 got back POINT_NOT_DEFINED
	.... ..11		*	Reserved
(29)	UNSIGNED	3	DGBDRMCT	Count of number of DFHRMCAL requests active in the ADAPTER/DRA
(2C)	FULLWORD	4	DGBPSBSU	Total number of successful PSB schedule requests
Connection information				
(30)	CHARACTER	2	DGBSTSU	Startup Table Suffix
(32)	CHARACTER	4	DGBIDBID	DBCTL id Override (if any)
(36)	CHARACTER	8	DGBCAPLD	CICS APPLID
(3E)	CHARACTER	1	DGBABORTRC	Reason for connection abort
	1... ..		DGBNOPSK	Storage protect active but DRA does
not support storage protection				
	.111 1111		*	Reserved
(3F)	CHARACTER	1	*	Reserved
(40)	ADDRESS	4	DGBINITT	The INIT Token contains the address of the DGB
(44)	CHARACTER	4	DGBIECB	the Initialisation ECB
Exit details Exit details - if the order of the exit fields is altered then DFHDBCOP and DFHDBDI will require alteration				
(48)	CHARACTER	8	DGBSPXE	Exit name
(50)	ADDRESS	4	DGBSPXA	Address of the Suspend exit
(54)	CHARACTER	8	DGBREXE	Exit name
(5C)	ADDRESS	4	DGBREXA	Address of the Resume exit

Offset Hex	Type	Len	Name (Dim)	Description
(60)	CHARACTER	8	DGBCTXE	Exit name
(68)	ADDRESS	4	DGBCTXA	Address of the Control exit
(6C)	CHARACTER	8	DGBMOXE	Exit name
(74)	ADDRESS	4	DGBMOXA	Address of the Monitoring exit
(78)	CHARACTER	8	DGBTOXE	Exit name
(80)	ADDRESS	4	DGBTOXA	Address of the Token exit
(84)	CHARACTER	8	DGBSTXE	Exit name
(8C)	ADDRESS	4	DGBSTXA	Address of the Statistics exit
(90)	CHARACTER	8	DGBSSXE	Exit name
(98)	ADDRESS	4	DGBSSXA	Address of the Status exit
(9C)	CHARACTER	8	DGBATE	Exit name
(A4)	ADDRESS	4	DGBATA	Address of the ADAPTER-Transformer
End of exit details				
(A8)	CHARACTER	8	DGBCTIME	Connect time
Connection information returned from DBCTL				
(B0)	CHARACTER	4	DGBDBCID	DBCTL ID
(B4)	CHARACTER	8	DGBJOB	DBCTL job name
(BC)	UNSIGNED	2	DGBASID	DBCTL ASID
(BE)	CHARACTER	8	DGBJOBI	DBCTL JES Job Id
(C6)	CHARACTER	1	DGBCRC	DBCTL command recognition character
(C7)	CHARACTER	1	DGBRGTY	DBCTL region type
(C8)	HALFWORD	2	DGBMITHD	Minimum number of threads
(CA)	HALFWORD	2	DGBMATHD	Maximum number of threads
(CC)	CHARACTER	8	DGBRSEN	DBCTL RSE Name
Disconnection information				
(D4)	CHARACTER	1	DGBDISTY	Disconnection type
(D5)	CHARACTER	8	DGBDTIME	Disconnect time
Disconnection information returned from DBCTL These fields relate to the previous CICS-DBCTL session				
(DD)	CHARACTER	3	*	Reserved
(E0)	FULLWORD	4	DGBNOMATHD	Max thread hits
(E4)	FULLWORD	4	DGBNOMITHD	Min thread hits
(E8)	CHARACTER	4	DGBELMAX	Elapsed time at Max Threads
(EC)	FULLWORD	4	DGBHIWAT	Hi-Water for no. of Threads
(F0)	ADDRESS	4	DGBALOAD	Load addr ADAPTER-XFORMER

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	52	DFHDBGCTA	
Control transaction information				
(0)	ADDRESS	4	DGBCWEHD	Control trans. work elements header
(4)	CHARACTER	1	DGBCTL	Control transaction flag
			DGBCTLATT	Control transaction attached
			*	Reserved
(5)	CHARACTER	3	*	Reserved
(8)	ADDRESS	4	DGBCECB	Control transaction ECB
(C)	CHARACTER	8	DGBDTIM	Time DRA last abnormally terminated
(14)	CHARACTER	16	DGBCWEERR	storage for control exit error CWE
(14)	ADDRESS	4	DGBCWEERRA	work ptr used in Building CWEERR
(18)	CHARACTER	12	*	Reserved
(24)	CHARACTER	16	DGBCWETERM	storage for control exit term CWE
(24)	ADDRESS	4	DGBCWETERMA	
(28)	CHARACTER	12	*	Reserved

## Constants

Len	Type	Value	Name	Description
1	HEX	00	DGBDSSHUT	Interface shut
1	HEX	01	DGBDPHS1	Connection phase 1
1	HEX	02	DGBDPHS2	Connection phase 2
1	HEX	04	DGBDREDY	Interface ready
1	HEX	08	DGBDORDT	Orderly termination , i.e. phase 1 of termination
1	HEX	10	DGBDIMMT	Immediate termination, i.e. phase 2 of termination
1	HEX	20	DGBDDEAD	Interface dead, i.e. interface is unusable
Possible values of DGBRGTY - DBCTL region types				
1	HEX	01	DGBDBCX	DB/DC with XRF
1	HEX	02	DGBDBCO	DB/DC only
1	HEX	04	DGBDBCT	DBCTL
Possible values of DGBDISTY				
1	HEX	01	DGBORDDI	Orderly termination request input
1	HEX	02	DGBIMMDI	Immediate termination request input

## DHTX Document handler template exitpgm interface

### DFHDHTX COPY

This copybook contains the interface definition for the user-replaceable program specified in an EXITPGM type of template.

The following input parameters are passed to the user program in a standard CICS commarea:

**dhtx\_length**  
 The halfword binary length of the entire parameter list.

**dhtx\_eyecatcher**  
 A 13-character eyecatcher, set to '>DFHDHTXPARMS'.

**dhtx\_version**  
 A one-byte character version number of the parameter list, currently set to '0'.

**dhtx\_buffer\_ptr**  
 The address of a CICS-provided buffer in which the EXITPGM must return the data that is to become the template.

**dhtx\_buffer\_len**  
 The fullword binary length of the buffer addressed by **dhtx\_buffer\_ptr**.

**dhtx\_template\_name\_ptr**  
 The address of the 48-character name of the template for which this EXITPGM is being executed.

**dhtx\_append\_crlf**  
 A one-byte character field that indicates whether the APPENDCRLF option was specified for this template. It is set to '1' if the option was specified, and to '0' otherwise.

The following output parameters must be set by the EXITPGM:

**dhtx\_template\_len**  
 The fullword binary length of the template being returned in the buffer addressed by **dhtx\_buffer\_ptr**. This value should be the size actually required for the template, even if it exceeds **dhtx\_buffer\_len** (although the data moved into the buffer must not exceed that length). If **dhtx\_template\_len** exceeds **dhtx\_buffer\_len**, the EXITPGM will be re-driven with a larger buffer.

**dhtx\_return\_code**  
 A fullword binary return code that indicates whether the EXITPGM was successful. It should be one of:

0 Indicates successful completion. A valid template, or a template truncated to fit the supplied buffer, has been returned.

8 Indicates failure. No valid template has been returned.

**dhtx\_message\_ptr**  
 Optionally, the address of a message that explains why the EXITPGM was unsuccessful. CICS writes this message to the CSDH transient data destination.

**dhtx\_message\_len**  
 The fullword binary length of the message addressed by **dhtx\_message\_ptr**, if one is provided.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	48	DHTX_PLIST	Template EXITPGM plist
(0)	CHARACTER	16	DHTX_PREFIX	Parameter list prefix
(0)	HALFWORD	2	DHTX_LENGTH	Length of parameter list
(2)	CHARACTER	13	DHTX_EYECATCHER	>DFHDHTXPARMS eyecatcher
(F)	CHARACTER	1	DHTX_VERSION	Version number of plist
(10)	ADDRESS	4	DHTX_BUFFER_PTR	Template buffer address
(14)	FULLWORD	4	DHTX_BUFFER_LEN	Template buffer length
(18)	FULLWORD	4	DHTX_TEMPLATE_LEN	Actual length of template
(1C)	FULLWORD	4	DHTX_RETURN_CODE	Return code
(20)	ADDRESS	4	DHTX_TEMPLATE_NAME_PTR	Ptr to 48-char name
(24)	CHARACTER	4	DHTX_TEMPLATE_FLAGS	Template flags
(24)	CHARACTER	1	DHTX_APPEND_CRLF	'1' Append. '0' Don't.
(28)	ADDRESS	4	DHTX_MESSAGE_PTR	Message pointer
(2C)	FULLWORD	4	DHTX_MESSAGE_LEN	Message length

## DIB Data interchange block

MODULE NAME = DFHDIBDS  
 DESCRIPTIVE NAME = CICS Data Interchange Block  
 FUNCTION = Maintain the status of a data interchange session.  
 The DIB is chained off the TCTTE. It is acquired by the first DIP request in a transaction, and is freed at transaction termination.

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 REGISTER CONVENTIONS = Not applicable  
 PATCH LABEL = None  
 MODULE TYPE = MACRO DEFINING A DSECT  
 MODULE SIZE = Not applicable  
 ATTRIBUTES = Not applicable  
 ENTRY POINT = Not applicable  
 PURPOSE = Not applicable  
 LINKAGE = Not applicable  
 INPUT = Not applicable  
 OUTPUT = Not applicable  
 EXIT-NORMAL = Not applicable  
 EXIT-ERROR = Not applicable  
 EXTERNAL REFERENCES = None  
 CONTROL BLOCKS = Defines DIB Control Block  
 TABLES = None  
 MACROS = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHDIBDS	
(0)	HALFWORD	2	DIBSCFGS	STORAGE ACCOUNTING AREA
(2)	HALFWORD	2	DIBSCNTL	STORAGE LENGTH
(4)	HALFWORD	2	DIBTSLGN	LENGTH TO OUTPUT FOR TS
(6)	HALFWORD	2	DIBTSRES	TS RESERVED= ZERO
(8)	FULLWORD	4	DIBSENSE (0)	Sense code areas
(8)	HALFWORD	2	DIBSSI	SYSTEM SENSE AREA
(A)	HALFWORD	2	DIBUSI	USER SENSE AREA
(C)	FULLWORD	4	DIBDIRRD	ACTUAL RETURNED RECORD ID

NOTE THAT THESE FLAGS ARE SET IN COMBINATION:  
 DIBIFDSO + DIBIFDSS = 00 NOT ACTIVE NOT SUSPENDED  
 = 10 ACTIVE NOT SUSPENDED  
 = 11 ACTIVE BUT SUSPENDED  
 ( 01 NEVER SET CODE RELIES ON THIS)

(10)	BITSTRING	1	DIBIFSEL	SELECTION FLAGS
	1... ..		DIBIFDSO	"X'80" OUTBOARD SELECTED
	..1. ....		DIBIFDSS	"X'20" DSN SUSPENDED
	...1 ....		DIBIFDAO	"X'10" OUTBOARD ABORTED(NOT REQ)
	.... 1...		DIBIFDSI	"X'08" INBOUND SELECTED
	.... .1..		DIBIFDIN	"X'04" SOME INPUT DONE
	.... ..1.		DIBIFDIS	"X'02" INPUT SUSPENDED
	.... ...1		DIBIFDAI	"X'01" INBOARD ABORTED(NOT REQ)
(11)	BITSTRING	1	DIBIFOSL	OLD SELECT
(12)	BITSTRING	1	DIBIFOSP	OLD PROFILE SAME FLAGS AS DIBIFL2
(14)	HALFWORD	2	(0)	FORCE ALIGNMENT FOR ...
(14)	BITSTRING	1	DIBNICFN	CURRENT FUNCTION
(15)	BITSTRING	1	DIBNINRS	CURRENT NUMREC VALUE

INPUT DESTINATION LATEST FMH (STATUS)  
 THIS IS A COPY OF THE BEGIN FMH RECEIVED ON INPUT  
 USE FMH DSECT TO OVERLAY FIELDS

(16)	BITSTRING	1	DIBIFMLN	LENGTH OF FMH (TO DIBDNAM)
(17)	BITSTRING	1	DIBIFMTY	FMH TYPE(1,2,3 ETC)
(18)	BITSTRING	1	DIBIMSB	MEDIA SELECTION FIELD

BIT 0 RESERVED  
 BIT 1-3 FOLLOWING VALUES:  
 000 CONSOLE  
 010 CARD  
 011 PRINT  
 100 DISK  
 110 PDS  
 BIT 4-7 LOG SUBADDRESS

(19)	BITSTRING	1	DIBISRI (0)	BIT 0 SRI
(19)	BITSTRING	1	DIBIDSEL (0)	BIT 1 DEMAND SELECT
(19)	BITSTRING	1	DIBIDSP (0)	BITS 4-7 DATA STREAM PROFILE
(19)	BITSTRING	1	DIBIDDSP	DEMAND SEL/DS PROFILE/SRI
(1A)	BITSTRING	1	DIBIDSF	DESTINATION SELECTION FIELD
(1B)	BITSTRING	1	DIBIERCI	EXCHANGE RECORD LENGTH
(1C)	BITSTRING	1	DIBIRSV2 (2)	RESERVED



Offset Hex	Type	Len	Name (Dim)	Description
(1E)	BITSTRING	1	DIBIDNL	LENGTH OF DSN
(1F)	CHARACTER	8	DIBIDNAM	MAXIMUM OF EIGHT CHARACTERS DSN NAME
(27)	BITSTRING	1	DIBISDNL	SAVED PREVIOUS LENGTH, DESTINATION, NAME
OUTPUT DESTINATION LATEST FMH (STATUS) THIS IS A COPY OF THE BEGIN FMH FIRST OUTPUT USE FMH DSECT TO OVERLAY FIELDS				
(28)	BITSTRING	1	DIBFMHLN	LENGTH OF FMH (TO DIBDNAM)
(29)	BITSTRING	1	DIBFMHTY	FMH TYPE(1,2,3 ETC)
(2A)	BITSTRING	1	DIBMSB	MEDIA SELECTION FIELD
BIT 0 RESERVED BIT 0-3 FOLLOWING VALUES: 0000 CONSOLE 0010 CARD 0011 PRINT 0100 DISK 0101 EXTENDED DOCUMENT 0110 PDS 1000 WORD PROCESSING MEDIUM 1 1001 WORD PROCESSING MEDIUM 2 1010 WORD PROCESSING MEDIUM 3 1100 WORD PROCESSING MEDIUM 4 1101 NCI BIT 4-7 LOG SUBADDRESS				
(2B)	BITSTRING	1	DIBSRI (0)	BIT 0 SRI
(2B)	BITSTRING	1	DIBDESEL (0)	BIT 1 DEMAND SELECT
(2B)	BITSTRING	1	DIBDSP (0)	BITS 4-7 DATA STREAM PROFILE
VALUES OF THE DATA STREAM PROFILE				
	....		DIBDSPDE	"X'00" DEFAULT
	.... .1		DIBDSPBA	"X'01" BASE
	.... ..11		DIBDSPJB	"X'03" JOB DSP
	.... .1..		DIBDSPRW	"X'04" WP RAW
	.... .11.		DIBDSP11	"X'06" OII LEVEL 1
	.... .111		DIBDSP12	"X'07" OII LEVEL 2
	.... 1...		DIBDSP13	"X'08" OII LEVEL 3
VALUES X'09' TO X'0F' RESERVED				
(2B)	BITSTRING	1	DIBSDSP	DEMAND SEL/DS PROFILE/SRI
(2C)	BITSTRING	1	DIBDSF	DESTINATION SELECTION FIELD
(2D)	BITSTRING	1	DIBERCI	EXCHANGE RECORD LENGTH
(2E)	BITSTRING	1	DIBRSVD2 (2)	RESERVED
(30)	BITSTRING	1	DIBDNL	LENGTH OF DSN
(31)	CHARACTER	8	DIBDNAM	MAXIMUM OF EIGHT CHARACTERS DSN NAME
(39)	BITSTRING	1	DIBVNL	LENGTH OF VOLUME
(3A)	CHARACTER	6	DIBVNAM	MAXIMUM SIX CHARACTER VOLUME ID
(40)	BITSTRING	1	DIBKYL	SAVED KEY LENGTH
(41)	CHARACTER	64	DIBKYD	SAVED KEY FOR RETRANSMIT
(88)	DBL WORD	8	(0)	

**DLP DL/I general purpose macro**

```

MACRO NAME = DFHDLP
DESCRIPTIVE NAME = CICS DL/I General Purpose Macro
FUNCTION =
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = NONE
PATCH LABEL = NONE
MODULE TYPE = EXECUTABLE

```

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHDLPDS	DL/I INTERFACE PARM DSECT
CICS - DL/I INTERFACE PARAMETERS				
(0)	CHARACTER	8	DLPEYE	DLP Eyecatcher
(8)	FULLWORD	4		Reserved
(C)	ADDRESS	4	DLPDLI	ADDR OF ENTRY TO DFHDLI
(10)	BITSTRING	1	DLPDLFLG	DLI support flags
	.1.. ....		DLPDLRE	"X'40" Remote DLI is supported
	...1 ....		DLPXRF	"X'10" XRF takeover was performed
(11)	ADDRESS	3		Reserved
(14)	ADDRESS	4	DLPDGB	Address of the DBCTL global block
(18)	ADDRESS	4	DLPDPEP	Address of DFHDLIDP (the DBCTL call processor)
(1C)	ADDRESS	4	DLPRPEP	Address of DFHDLIRP (the Remote call processor)
(20)	ADDRESS	4		Reserved
(24)	ADDRESS	4	DLPEDPEP	Address of DFHEDP (the EXEC DLI program)
(28)	ADDRESS	4	DLPRPDIR	Address of the remote PDIR
(2C)	ADDRESS	4		Reserved
(30)	BITSTRING	1	DLPFLG	Flag Byte
	.... ..1.		DLPPSBCK	"X'02" User Security Checking Required CF DFHSIT PSBCHK=YES NO
(31)	ADDRESS	3		Reserved
	..11 ..1..		DLPDFEND	"*" End of dlp
	.... 1...		DLPDISPL	"8" DISPLACEMENT IN PDIR FROM COUNT FIELD TO START OF THE DIRECTORY

## DSB DBCTL scheduling block

CONTROL BLOCK NAME = DFHDSB  
 (In DFHDBCOP, invoked via DFHDBMAC)  
 (Invoked by DFHDL P DSB=DSECT)  
 DESCRIPTIVE NAME = CICS DBCTL Scheduling Block  
 FUNCTION =  
 Used to store task-related information  
 regarding the CICS-DBCTL interface.  
 LIFETIME =  
 The DBCTL Scheduling Block (DSB) is acquired when a task issues  
 its first schedule request to DBCTL. It is cleared just before  
 each subsequent schedule request from the same task is processed.  
 It is released at task termination.  
 LOCATION = PAPL token -> DSB  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control Block definition  
 EXTERNAL REFERENCES =  
 TCA, DGB, PCB list.  
 CONTROL BLOCKS =  
 DBCTL exit addresses  
 GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description	
(0)	STRUCTURE	656	DFHDSB		
Fields common to all DSBs					
(0)	CHARACTER	8	DSBDESC	Set to DFHDSB	
(8)	ADDRESS	4	DSBTCA	Address of the TCA	
(C)	ADDRESS	4	DSBDGB	Address of the DGB	
(10)	ADDRESS	4	DSBTOK	Task Token	
Contains address of DSB					
(14)	ADDRESS	4	DSBTECB	Task ECB used by Suspend and	
Resume exits					
(18)	ADDRESS	4	DSBRESPW	Pointer to the response word -	
This field is set by DFHDBAT					
(1C)	ADDRESS	4	DSBSSX	pointer to the status exit extrn	
(20)	CHARACTER	1	DSBR TYP	Request Type	
I: Connection Request T: Disconnection Request P: PSB Schedule Request D: DL/I Request R: Resync S: CICS Shutdown					
Fields relating to Schedule Requests These fields are relevant for the duration of a schedule Term cycle.					
(21)	BITSTRING	1	DSBFLGS DSBSCHED	Indicator for schedule 1 : DBCTL PSB scheduled successfully during task 0 : DBCTL PSB never schedule	
	.1. . . .		DSBIOREQ	Indicator for IOPCB 1 : IOPCB required 0 : IOPCB not required	
	..1. . . .		DSBINRMC	This task in DFHRMCAL This bit is set and reset in a single request	
	...1 . . . .		DSB_WAIT	Wait in IMS request ind.	
	.... 1..		DSBTRLV2	Trace Flag used by DBREX 1 : RMI lvl 2 trace active 0 : RMI lvl 2 trace inactive	
	.... .11.		*	Reserved	
	.... ..1		DSBPSK	DRA supports PSK	
(22)	CHARACTER	8	DSBPSBNM	PSB name	
(2A)	UNSIGNED	1	DSBWRTH	Deadlock worth	
(2B)	CHARACTER	1	DSBLSFL	Long-Short flag	
(2C)	ADDRESS	4	DSBPCBL	Address of PCB List	
(2C)	FULLWORD	4	DSBTIMEO	Shutdown timeout value	
(30)	ADDRESS	4	DSBDBPCB	Address of first DBPCB	
(34)	FULLWORD	4	DSBMAXIO	Maximum IO size	
(38)	FULLWORD	4	DSBMAXKE	Maximum key length	
(3C)	ADDRESS	4	DSBADGMA	Addr getmn'd area	
(40)	FULLWORD	4	DSBLATFM	Lgth area to free	
(44)	CHARACTER	1	DSBPLTY	PSB language type	
Fields relating to DL/I requests					
#	(45)	CHARACTER	1	DSBALTY	Application language type <b>APAR PQ32019</b> added DSBCTLCT
#					
#	(46)	CHARACTER	1	*	Reserved
#	(47)	CHARACTER	1	DSBCTLCT	DBCTL Invocation Count
	(48)	FULLWORD	4	DSBSEGL	Segment length
	(4C)	ADDRESS	4	DSBSEGA	Segment address

Offset Hex	Type	Len	Name (Dim)	Description
Area to contain R1 parameter list to the Adapter				
(50)	CHARACTER	64	DSBPARMS	Parameters to interface with the Adapter
Monitoring and trace areas are placed at the end of the DSB so that the rest of the DSB can be traced by DFHDBREX without the need for multiple GTRACE requests ( 255 byte limit ). Monitoring area used on schedule and term requests.				
(90)	CHARACTER	256	DSBMONI	Monitoring info from DBCTL
Trace area used to build GTF trace entry output by DFHDBREX.				
(190)	CHARACTER	256	DSBGTRACE	Trace area used by GTRACE

R1 Parameter List for a Connection Request to the Adapter

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	64	DSBINIP	
(0)	ADDRESS	4	DSBINRTYPA	Address of the Request Type
(4)	ADDRESS	4	DSBINTTOKA	Address of the Task Token
(8)	ADDRESS	4	DSBINRESPA	Address of Adapter Response word
(C)	ADDRESS	4	DSBINDBID	Address of input DBCTL id(if any)
(10)	ADDRESS	4	DSBINAGNA	Address of CICS AGN - not used
(14)	ADDRESS	4	DSBINSTSUA	Address of Startup Table Suffix
(18)	ADDRESS	4	DSBINAPLID	Address of CICS APPLID
(1C)	ADDRESS	4	DSBINSUSXA	Address of Suspend Exit
(20)	ADDRESS	4	DSBINRESXA	Address of Resume Exit
(24)	ADDRESS	4	DSBINCTLXA	Address of Control Exit
(28)	ADDRESS	4	DSBININTKA	Address of Connect Token
(2C)	ADDRESS	4	DSBINMONXA	Address of Monitoring Exit
(30)	ADDRESS	4	DSBINTOKXA	Address of Token Exit
(34)	ADDRESS	4	DSBINSTAXA	Address of Statistics Exit
(38)	ADDRESS	4	DSBINSTSXA	Address of status exit
(3C)	ADDRESS	4	DSBINPCTOKN	Address of Call Token-Prev Session

Response From a Connection Request to the Adapter

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	DSBINIR	
(0)	HALFWORD	2	DSBINRESPL	Length of the response
(2)	CHARACTER	1	*	Reserved
(3)	CHARACTER	1	*	Reserved
(4)	UNSIGNED	4	DSBINPRETC	Return code from the PAPL
(8)	CHARACTER	4	DSBINDBCID	DBCTL ID
(C)	ADDRESS	4	DSBINCTOKN	Call Token

R1 Parameter list for a Disconnection Request to the Adapter

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	20	DSBTERP	
(0)	ADDRESS	4	DSBTERTYPA	Address of the Request Type
(4)	ADDRESS	4	DSBTETTOKA	Address of the Task Token
(8)	ADDRESS	4	DSBTTERSPA	Address of Adapter response word
(C)	ADDRESS	4	*	Reserved
(10)	ADDRESS	4	DSBTETTYPA	Address of Disconnection Type Flag

Response from a Disconnection Request to the Adapter

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	24	DSBTERR	
(0)	HALFWORD	2	DSBTTERESPL	Length of the response
(2)	CHARACTER	1	*	Reserved

Offset Hex	Type	Len	Name (Dim)	Description
(3)	CHARACTER	1	*	Reserved
(4)	UNSIGNED	4	DSBTEPRETC	Return code from the PAPL
(8)	FULLWORD	4	DSBTEMATHD	Max thread hits
(C)	FULLWORD	4	DSBTEMITHD	Min thread hits
(10)	CHARACTER	4	DSBTEELMAX	Elapsed time at max threads
(14)	FULLWORD	4	DSBTEHIWAT	Hi-Water for No. of threads

R1 parameter list for PSB Schedule request to the Adapter

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	36	DSBPSBP	
(0)	ADDRESS	4	DSBPSRTYPA	Address of the Request Type
(4)	ADDRESS	4	DSBPSTTOKA	Address of the Task Token
(8)	ADDRESS	4	DSBPSRESPA	Address of Adapter Response Word
(C)	ADDRESS	4	DSBPSUSERA	Address of Userid field
(10)	ADDRESS	4	DSBPSMONIA	Address of Monitoring Area
(14)	ADDRESS	4	DSBPSALTYA	Address of Language Type
(18)	ADDRESS	4	DSBPSDEADA	Address of Deadlock Worth
(1C)	ADDRESS	4	DSBPSLSFLA	Address of LONG-SHORT Flag
(20)	ADDRESS	4	DSBPSPSBNA	Address of PSBNAME

Response from a PSB Schedule request to the Adapter

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	24	DSBPSBR	
(0)	HALFWORD	2	DSBPSRESPL	Length of the Response
(2)	CHARACTER	1	DSBPSPLTY	PSB Language Type
(3)	BITSTRING	1	DSBPSFLAGS	
	1111 111.		*	Reserved
	.... ..1		DSBPSPSK	DRA supports PSK
(4)	UNSIGNED	4	DSBPSPRETC	Return Code from the PAPL
(8)	ADDRESS	4	DSBSPCBL	Address of PCB list
(C)	ADDRESS	4	DSBPSDBPCB	Address of first DBPCB
(10)	FULLWORD	4	DSBPSMAXIO	Maximum IO size
(14)	FULLWORD	4	DSBPSMAXKE	Maximum key length

R1 Parameter list for DL/I request to Adapter

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	24	DSBDLIP	
(0)	ADDRESS	4	DSBDLRTYPA	Address of the Request Type
(4)	ADDRESS	4	DSBDLTOKA	Address of the Task Token
(8)	ADDRESS	4	DSBDLRESPA	Address of Adapter Response Word
(C)	ADDRESS	4	*	Reserved
(10)	ADDRESS	4	DSBDLAPR1A	Address of Application Parameter List
(14)	ADDRESS	4	DSBDLALTYA	Address of Language Type

Response from a DL/I request to the ADAPTER

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	DSBDLIR	
(0)	HALFWORD	2	DSBDLRESPL	Length of the Response
(2)	CHARACTER	1	*	Reserved
(3)	CHARACTER	1	*	Reserved
(4)	UNSIGNED	4	DSBDLPRETC	Return Code from the PAPL
(8)	FULLWORD	4	DSBDLSEGL	Segment length

Format of PAPERETC response code from the DRA

Offset Hex	Type	Len	Name (Dim)	Description
(4)	STRUCTURE	4	DSBPRET_C	
(4)	BITSTRING	1	DSBPRET_FLAGS	Flag values
(5)	BITSTRING	1	DSBPRET_SYSTEM	System abend code
(6)	BITSTRING	1	DSBPRET_USER	User abend code

## Constants

Len	Type	Value	Name	Description
1	CHARACTER	O	DSBTERT_ORD	
1	CHARACTER	I	DSBTERT_IMM	
1	CHARACTER	A	DSBTERT_ABND	
Possible values of DSBRT_P				
1	CHARACTER	I	DSBINIT_REQ	initialization DSB
1	CHARACTER	T	DSBTERM_REQ	termination DSB
1	CHARACTER	P	DSBPSB_REQ	schedule DSB
1	CHARACTER	D	DSBDLI_REQ	DLI req DSB
1	CHARACTER	R	DSBRES_REQ	resync DSB
1	CHARACTER	S	DSBSHU_REQ	shutdown DSB
Possible values of DSBALTY and DSBPLTY				
1	HEX	01	DSBLPLI	PL/I
1	HEX	02	DSBLCOB	COBOL
1	HEX	03	DSBLFOR	Fortran
1	HEX	04	DSBLASM	assembler
1	HEX	08	DSBLAIB	AIB
Value of DSBWRTH				
1	DECIMAL	87	DSBWRTH_CICS	
Value of DSBSLFL				
1	HEX	80	DSBSLFL_CICS	CICS tasks classed as short
Possible values of DSBTETYP, i.e. the field that DSBTETYP_A points to.				
1	CHARACTER	C	DSBTETYP_CHKPT	
1	CHARACTER	F	DSBTETYP_FAST	
1	CHARACTER	S	DSBTETYP_SLOW	
Values of bit flags				
0	BIT	1	DSB_ON	
0	BIT	0	DSB_OFF	
Values of DFHDBAT'S Return codes in R15				
4	DECIMAL	4	DSBUNSUP	Call not understood
4	DECIMAL	8	DSBIFDUP	Redundant interface Call
4	DECIMAL	12	DSBINNLD	Connect load failure
4	DECIMAL	16	DSBTRPRE	Disconnect Preempted
4	DECIMAL	24	DSBADNRY	Adapter not ready
4	DECIMAL	28	DSBADDIS	Adapter is disabled
4	DECIMAL	32	DSBCANCD	Thread is cancelled
4	DECIMAL	36	DSBCADUP	Redundant Cancel Call
1	HEX	80	DSBPRET_ABEND_SNAP	abend + snap
1	HEX	88	DSBPRET_ABEND	abend
1	HEX	84	DSBPRET_ABEND_DRASNAP	abend + DRA snap
1	HEX	40	DSBPRET_STATUS	status code
1	HEX	00	DSBPRET_RETURN	return code

## DSG Dispatcher statistics

CONTROL BLOCK NAME = DFHDSGDS  
 DESCRIPTIVE NAME = CICS Dispatcher Statistics  
 CICS level at which this module was last updated  
 FUNCTION =  
 This data area contains global statistics provided by the Dispatcher Domain  
 It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics exit.  
 There is a single instance of this data block.  
 LIFETIME =  
 This data block is created by the Dispatcher to store statistics to be passed to the user in response to a request to a request for statistics. The storage is released when the user task is detached.  
 The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.  
 STORAGE CLASS =  
 LOCATION =  
 The user is passed a pointer to the head of the storage block.  
 INNER CONTROL BLOCKS = none  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Domain call buffer  
 EXTERNAL REFERENCES = none  
 DATA AREAS = none  
 CONTROL BLOCKS = from dispatcher domain  
 GLOBAL VARIABLES (Macro pass) = none  
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHDSGDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHDSGDS	Dispatcher Domain DSECT
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	DSGLEN	Length of data area
	..11 .111		DSGIDE	"0055" Dispatcher domain id mask
(2)	ADDRESS	2	DSGID	Dispatcher domain id
	.... ...1		DSGVERS	"X'01" Stats version number id mask
(4)	CHARACTER	1	DSGDVERS	Stats version number
(5)	CHARACTER	3		Filler
(8)	FULLWORD	4	DSGICVT	Current ICV time
(C)	HALFWORD	2	DSGICVSD	Current ICVSD time
(E)	HALFWORD	2	DSGCNT	Current number of tasks
(10)	HALFWORD	2	DSGPNT	Peak number of tasks
(12)	CHARACTER	6		Reserved
(18)	CHARACTER	8	DSGSTART	GMT STCK Sub-Disp start time
(20)	CHARACTER	8	DSGLSTRT	Local STCK Sub-Disp start time
(28)	CHARACTER	8	DSGEJST	Elapsed Job Step timing
(30)	CHARACTER	8	DSGSRBT	Accumulated SRB time
The following fields only apply to OM (open mode) TCBs				
(38)	CHARACTER	8	DSGTOTWL	Total Wait Time at TCB limit
(40)	CHARACTER	8	DSGCRWT	Current waiting time
(48)	FULLWORD	4	DSGTOTNW	Total number of waits
(4C)	FULLWORD	4	DSGCURNW	Current number of tasks waiting for a TCB
(50)	FULLWORD	4	DSGPEANW	Peak number of tasks waiting for a TCB
(54)	FULLWORD	4	DSGMAXOP	Max number of open TCBs
(58)	FULLWORD	4	DSGCNUAT	Current OM TCBs attached
(5C)	FULLWORD	4	DSGPNUAT	Peak OM TCBs attached
(60)	FULLWORD	4	DSGCNUUS	Current OM TCBs in use
(64)	FULLWORD	4	DSGPNUUS	Peak OM TCBs used
(68)	FULLWORD	4	DSGNTCBL	Number of times at TCB limit
(6C)	FULLWORD	4	DSGICVRT	Current ICVR Time
(70)	HALFWORD	2	DSGPRIAG	Priority aging
(72)	CHARACTER	20		Reserved
(86)	HALFWORD	2	DSGASIZE	Numb of DSGTCB dsects supplied
	1... 1...		DSGMEND	""
	1... 1...		DSGMCLEN	""-DSGLEN" Length

TCB statistics  
 The stats for the Dispatcher TCBs are kept in an open ended array  
 The TCB number to dispatcher mode map is as follows:  
 TCB1 = Quasi Reentrant mode  
 TCB2 = Resource owning mode  
 TCB3 = Concurrent mode  
 TCB4 = Secondary LU mode  
 TCB5 = ONC/RPC mode  
 TCB6 = File Owning mode  
 TCB7 = Sockets Owning mode (SL)  
 TCB8 = Sockets Owning mode (SO)  
 TCB9 = J8 - Open mode  
 TCB10 = L8 - Open mode  
 TCB11 = S8 - Sockets Mode

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DSGTCTB	TCB Stats
(0)	CHARACTER	2	DSGTCTBNM	TCB mode name
(2)	HALFWORD	2		Reserved
(4)	FULLWORD	4	DSGTCTBCA	Number of TCBs currently attached
(8)	FULLWORD	4	DSGTCTBPA	Peak number of TCBs attached
(C)	FULLWORD	4	DSGTSYSW	No partn exits
(10)	FULLWORD	4	DSGNTCBA	Number of TCB attaches
(14)	FULLWORD	4	DSGTCTBDU	Numb of TCB detaches because unclean
(18)	FULLWORD	4	DSGTCTBDS	Numb of TCB detaches because stolen (from us)
(1C)	FULLWORD	4	DSGTCTBDO	Number of TCB detaches other
(20)	FULLWORD	4	DSGTCTBST	Number of TCB steals
(24)	FULLWORD	4		Reserved
(28)	FULLWORD	4		Reserved
(2C)	FULLWORD	4		Reserved

The following CL8 definitions are really "Store Clock" format

(30)	CHARACTER	8	DSGTWT	Cum real time CICS in OS wait
(38)	CHARACTER	8	DSGTD	Cum real time TCB disp by MVS
(40)	CHARACTER	8	DSGTCT	Cum CPU time for DS task
(48)	CHARACTER	8	DSGACT	Cum CPU time for TCB
(50)	CHARACTER	8		Reserved
	.1.1 1...		DSGEND	***
	.1.1 1...		DSGCLEN	**"-DSGTCTB" Length of TCB stats



## DSN File control dataset name

MACRO NAME = DFHDSND  
 DESCRIPTIVE NAME = CICS/ESA File control DATA-SET NAME BLOCK  
 and BASE CLUSTER block.

FUNCTION =  
 Create or map an instance of the DATASET NAME block.  
 This block is dependent from the File Control Table,  
 and contains a dataset name (up to 44 characters long)  
 or equivalently a /VSE file-ID.  
 It is pointed to by any number of FCT file entries,  
 for either or both the purposes:  
 a) to carry a name for possible DYNAMIC ALLOCATION when the  
 file is next opened. (The "optative" name.)  
 b) to represent the BASE CLUSTER (in VSAM), DATA SET (BDAM),  
 (or any other entity) that the file, being open,  
 can update and that CICS needs to guard for backout  
 integrity.

DATASET NAME BLOCK  
 The File Control Data Set Name Block (DSNB) holds the name  
 for dynamic allocation of a data set. Any number of files  
 (represented by File Control Table Entries, FCTEs) may address  
 a DSNB. Dynamic allocation takes place at the time a file is  
 opened. At this time, if the DSNB represents a VSAM base cluster  
 or a BDAM data set, further information describing the data set  
 is stored in the Base Cluster Block that is part of the DSNB.

The following fields form part of the Product Sensitive  
 Programming Interface :  
 FCTDNAME  
 FCTDNLEN  
 FCTDNVAL bit setting in byte FCTDNFL1  
 FCTBCFR, FCTBCLOG, FCTBCVAL, bit settings in byte FCTBCFL1  
 FCTBCFRL

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHDSNDS	DUMMY SECTION START
(0)	CHARACTER	8	FCTDNRN	resource name(="DSN_BLK:") ,
(8)	CHARACTER	44	FCTDNAME	dataset name ,
(34)	ADDRESS	4	FCTDNNUM	DATASET NUMBER (CC KEY) ,
(38)	ADDRESS	4	FCTDNBCN	DITTO OF CORR. BASE CLUSTER ,
(3C)	HALFWORD	2	FCTDNUC	USE COUNT ,
(3E)	ADDRESS	1	FCTDNLEN	EFFECTIVE LENGTH OF DSNAME ,
(3F)	ADDRESS	1	FCTDNTYP	DSTYPE=ESDS KSDS RRDS PATH ,
(40)	BITSTRING	1	FCTDNFL1	FLAGS ,
	1... ....		FCTDNVAL	"X'80" DSN VALIDATED IN VSAM CAT. ,
	.1. ....		FCTDNRLS	"X'40" Last open was in RLS mode ,
(41)	BITSTRING	3		Reserved ,
(44)	FULLWORD	4	(0) FCTDNINC	ALIGNMENT FOR INNER BLOCK , "" START OF BASE CLUSTER BLOCK ,
<b>BASE CLUSTER BLOCK</b>				
	.1. .1..		DFHBCCDS	"" ,
(44)	HALFWORD	2	FCTBCUC	Count of ACBs that are open for files in the cluster, or are in transition to or from that state.
(46)	HALFWORD	2	FCTBCUUC	Count of ACBs open for update
(48)	BITSTRING	1	FCTBCFL1	VARIOUS FLAGS -
	1... ....		FCTBCSRP	"X'80" LOCALLY-SHARED RESOURCES APPLY
	.1. ....		FCTBCKVL	"X'40" ATTRIBUTES ..KYL & ..RKP ARE VALID
	.1. 1... .		FCTBCRCV	"FCTBCFL1" RECOVERY ATTRIBUTES OF BASE CLUSTER
	.1. ....		FCTBCFR	"X'20" FORWARD RECOVERY
	...1 ....		FCTBCLOG	"X'10" LOGGING
	.... 1... .		FCTBCVAL	"X'08" VALID FLAG FOR RECOVERY ATTRIBUTES
	.... .1.. .		FCTBCMIS	"X'04" Recov Attrs Mismatch Flag
	.1. 1... .		FCTBCSHP	"FCTBCFL1" SHARE OPTIONS INDICATOR
	.... ..11 .		FCTBSH4	"X'03" SHARE OPTIONS 4
	.... ..1. .		FCTBSH34	"X'02" SHARE OPTIONS 3 OR 4
	.... ...1 .		FCTBSH24	"X'01" SHARE OPTIONS 2 OR 4
(49)	ADDRESS	1	FCTBCFRL	FRLOG ID FOR FORWARD RECOVERY
(4A)	ADDRESS	1	FCTBCAS	AVAILABILITY STATE
	..1. ....		FCTBCUNA	"X'20" unavailability
(4B)	ADDRESS	1	FCTBCKYL	Length of key
(4C)	ADDRESS	2	FCTBCRKP	Relative key position
(50)	FULLWORD	4	FCTBCGIS	Base cluster Control Interval Size.
(54)	ADDRESS	4	FCTBCVSC	Anchor for chain of VSWAs executing requests against this base.
(58)	FULLWORD	4	FCTBCSRB	Relative byte address for ESDS
(5C)	HALFWORD	2	FCTBCPUC	No. of open ACBs with DSname sharing
(5E)	HALFWORD	2	FCTBCRUC	Count of ACBs that are open against this recoverable ESDS base.
(60)	SIGNED	1	FCTBCLSR	LSR pool identifier
(61)	BITSTRING	1	FCTBCFIC	Fuzzy Image Copy flags
	1... ....		FCTBCFUZ	"X'80" Fuzzy backup enabled
	.1. ....		FCTBCVFS	"X'40" Valid fuzzy state
(62)	HALFWORD	2	FCTBCFUC	Fuzzy File update count

Offset Hex	Type	Len	Name (Dim)	Description
(64)	ADDRESS	4	FCTBCACB	Address of ACB for base cluster. Allocated at the time of first PUT ADD or MASS INSERT against the path.
(68)	ADDRESS	4	(2)	Add/Delete counts
(70)	ADDRESS	4	FCTBC_FLLB_CHAIN	Start of FLLB chain
(74)	BITSTRING	1	FCTBC_RLS_INDS	Data table and RLS flags
	.1.. ....		FCTBC_LOST_LOCKS	"X'40" Data set in lost locks state
(75)	BITSTRING	1		Data table ECB
(76)	BITSTRING	1		Data table loaded ECB
(77)	BITSTRING	1		Reserved
(78)	CHARACTER	8		Table name
(80)	ADDRESS	4	FCTBCDTK	Table token
(84)	ADDRESS	4		Open FCTE chain
(88)	FULLWORD	4	FCTBCTKN	FR Log Tkn from CICS Logger
(8C)	BITSTRING	1	FCTBCFL2	Recovery Attribute Flags
	1... ....		FCTBCCAT	"X'80" Attrs originate from catalog
	.1.. ....		FCTBCRLS	"X'40" Attrs set on RLS file open
	.1. ....		FCTBCRA	"X'20" BCB has RLS ACBs open
	...1 ....		FCTBCNRA	"X'10" BCB has non-RLS ACBs open
(8D)	CHARACTER	26	FCTBCCRL	FR Logstream Name from Catalog
(A7)	CHARACTER	1	FCTBC_QSTATE	RLS quiesce progress state for QUICLOSE, QUICOPY or QUIBWO
(A8)	FULLWORD	4	FCTBC_0890_COUNT	Requests awaited for 08-90
(AC)	CHARACTER	8	FCTBC_QTOKEN	RLS quiesce token, returned to VSAM when QUICMP issued
(B4)	ADDRESS	4	FCTBC_CONN_CHAIN	Chain of connected FCTEs
(B8)	ADDRESS	4	FCTBC_OWNING_FRAB	Holder of ESDS write lock
(BC)	FULLWORD	4	FCTBC_SAFE_RBA	Highest safe RBA for update
(C0)	FULLWORD	4	FCTBC_QCOUNT	Number of UOWs to reach syncpoint before QUICMP can be issued for QUICOPY or QUIBWO
(C4)	CHARACTER	8	FCTBC_BWO_STAMP	OPEN TIMESTAMP FOR BWO
(CC)	ADDRESS	4	DFHBCEND (0)	Align, to round up gross length
	1... 1...		DFHBCLEN	"DFHBCEND-DFHBCDDS" ,

Constants for FCTBC\_QSTATE. This tracks the progress of a VSAM RLS QUICLOSE, QUICOPY or QUIBWO quiesce request.

.... ....	FCTBC_QSTATE_ NORMAL	"0"
.... ...1	FCTBC_QSTATE_ QUIESCING	"1"
.... ..1.	FCTBC_QSTATE_ QUIESCE_ CANCELLING	"2"
.... ...11	FCTBC_QSTATE_ COPYING	"3"
.... .1..	FCTBC_QSTATE_ COPY_ CANCELLING	"4"
.... .1.1	FCTBC_QSTATE_ COPY_ POLICING	"5"
.... .11.	FCTBC_QSTATE_ BWOING	"6"
.... .111	FCTBC_QSTATE_ BWO_ CANCELLING	"7"

## DUA Dump domain control blocks

CONTROL BLOCK NAME = DUA  
 DESCRIPTIVE NAME = CICS Dump Domain - Common structures  
 and constants  
 FUNCTION = Contains the structures for :-  
     DUA - DU anchor block  
     DTB - Dump table block header  
     BTB - Browse table header  
     DTE - Dump table element  
     BTE - Browse table element  
     CC\_DU\_STATE - Dump catalog record  
     XFINTER - Interface block  
     OPEN\_BLOCK - Dump dataset open block  
     ECB - Dump dataset ECB block  
     WL - Dump dataset remote parameter list  
 DUA - DU Anchor block

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	370	DUA	
(0)	CHARACTER	16	DUA_PREFIX	Standard prefix
(0)	HALFWORD	2	DUA_LENGTH	Length of block
(2)	CHARACTER	1	DUA_ARROW	'>'
(3)	CHARACTER	3	DUA_DFH	'DFH'
(6)	CHARACTER	2	DUA_DOMID	'DU'
(8)	CHARACTER	8	DUA_BLOCK_NAME	'ANCHOR'
(10)	CHARACTER	8	DUA_APPLID	CICS system identifier
(18)	CHARACTER	8	DUA_SYSTEM_DUMPCODE	Dump code
(20)	FULLWORD	4	DUA_SYS_DUMPS_TAKEN	Global system dumps taken
(24)	FULLWORD	4	DUA_SYS_DUMPS_SUPPRESSED	Global system dumps supp'sd
(28)	FULLWORD	4	DUA_TRAN_DUMPS_TAKEN	Global tran dumps taken
(2C)	FULLWORD	4	DUA_TRAN_DUMPS_SUPPRESSED	Global tran dumps supp'sd
(30)	CHARACTER	8	DUA_LAST_RESET_TIME	Last stats reset time
(38)	UNSIGNED	4	DUA_MESSAGE_LEN	Message length
(3C)	ADDRESS	4	DUA_MESSAGE_PTR	Message address
(40)	UNSIGNED	4	DUA_TITLE_LEN	Title length
(44)	ADDRESS	4	DUA_TITLE_PTR	Title address
(48)	UNSIGNED	4	DUA_CALLER_LEN	Caller length
(4C)	ADDRESS	4	DUA_CALLER_PTR	Caller address
(50)	UNSIGNED	4	DUA_SSS_LEN	Short symptom string len
(54)	ADDRESS	4	DUA_SSS_PTR	Short symptom string addr
(58)	BITSTRING	4	*	Reserved
(5C)	FULLWORD	4	DUA_CSVDYNEX_RC	CSVDYNEX return code
(60)	FULLWORD	4	DUA_CSVDYNEX_REASON	CSVDYNEX reason
(64)	CHARACTER	80	*	Reserved
(B4)	BITSTRING	1	DUA_FLAGS	Reserved
			DUA_SDUMP_IN_PROGRESS	SDUMP taking place
	.1.. ....		DUA_TERMINATING	DU is terminating
	..1. ....		DUA_COLD_START	START=COLD in SIT
	...1 ....		DUA_REMOTE_DUMPS	Remote dumps available
	.... 1...		DUA_DUMP_TABLE_INIT	Is DU Table ready?
(B5)	CHARACTER	3	*	
(B8)	CHARACTER	39	DUA_XD_AREA	Tran dump fields
(B8)	ADDRESS	4	DUIO_ENTRY_POINT	Addr. DUIO routine
(BC)	ADDRESS	4	DATASET_LOCK_TOKEN	XD dataset lock
(C0)	ADDRESS	4	OPENBLOK_PTR	-> XD dataset file cont.blk
(C4)	ADDRESS	4	DCB_PTR	-> XD dataset DCB
(C8)	ADDRESS	4	BUFFER_PTR	-> XD dataset buffer
(CC)	ADDRESS	4	CUR_RECORD_PTR	-> Current record in buffer
(D0)	ADDRESS	4	SM_ISOLATION_TOKEN	Isolation token required on SWITCH_SUBSPACE calls
(D4)	FULLWORD	4	DDS_BUFFER_LEN	Current buffer size
(D8)	UNSIGNED	4	XD_ECB_ERROR	No XD dataset ECB errors
(DC)	BITSTRING	1	DUSU_REASON_FLAGS	Work flags
	1... ....		X_OPEN_ERROR	Error found when attempting to open dump dataset - XDUOUT exit active
	.1.. ....		X_PARTIAL	EOV on dump dataset and switching not active - XDUOUT exit active
	..1. ....		SU_DCB_EROR	DUSU error

Offset Hex	Type	Len	Name (Dim)	Description
	...1 ....		X_NOT_OPEN	Dataset not open
	.... 1...		XD_MVCL_ERR	Set if we go into DUXWREC too often on the MVCL command in DFHDUXW
	.... .111		*	Reserved
(DD)	BITSTRING	1	XD_FLAGS	Tran dump flags
	1.... .....		SWITCH_IN_PROG	Autoswitch in progress
	.1. ....		OPEN_STATUS	XD dataset status
	.1. ....		DUXD_ACTIVE	Transaction dump active
	...1 ....		XDUCLSE_ACTIVE	XD close exit active
	.... 1...		XDUOUT_ACTIVE	XD buffer write exit
	.... .1..		XDUREQ_ACTIVE	Dump request exit active
	.... ..1.		XDUREQC_ACTIVE	Dump request close exit active
	.... ...1		CLOSE_MSG	Used to prevent CLOSE msg from being issued more than once for a dump dataset. Set on - when dataset first closed. Set off when dataset opened
(DE)	UNSIGNED	1	DUXWREC_COUNT	Count of failures of MVCL for any 1 subfunction
(DF)	CHARACTER	1	*	
(E0)	CHARACTER	40	DUCAT	Dump catalog record
Used for constructing dump_str in form run_no/dump_no				
(108)	FULLWORD	4	DUA_DUMP_NO	Dump number
(10C)	CHARACTER	9	DUA_DUMP_STR	Run/dump string
Pointers for System Dump Table and Transaction Dump Table				
(115)	CHARACTER	3	*	
(118)	ADDRESS	4	DUA_SDTBLOCKHEAD	-> SDT block header
(11C)	ADDRESS	4	DUA_TDTBLOCKHEAD	-> TDT block header
(120)	ADDRESS	4	DUA_SDTFREEHEAD	-> SDT free chain head
(124)	ADDRESS	4	DUA_TDTFREEHEAD	-> TDT free chain head
(128)	CHARACTER	8	DUA_SDTHEAD	
(128)	ADDRESS	4	DUA_SDTFIRST	-> First SDT element
(12C)	ADDRESS	4	DUA_SDTLAST	-> Last SDT element
(130)	CHARACTER	8	DUA_TDTHEAD	
(130)	ADDRESS	4	DUA_TDTFIRST	-> First TDT element
(134)	ADDRESS	4	DUA_TDTLAST	-> Last TDT element
Pointers for Browse Token Table (for browsing dump tables)				
(138)	ADDRESS	4	DUA_BTTBLOCKHEAD	-> Browse table block header
(13C)	ADDRESS	4	DUA_BTTFREEHEAD	-> BTT free chain head
(140)	CHARACTER	8	DUA_BTTHEAD	
(140)	ADDRESS	4	DUA_BTTFIRST	-> First BTT element
(144)	ADDRESS	4	DUA_BTTLAST	-> Last BTT element
Pointer for dump statistics buffer				
(148)	ADDRESS	4	DUA_STATS_BUFFER_PTR	-> Dump statistics buffer
Lock tokens				
(14C)	ADDRESS	4	DUA_SDMPLLOCK_TOKEN	System dump LMLM lock token
(150)	CHARACTER	8	*	Reserved
(158)	ADDRESS	4	DUA_TABLOCK_TOKEN	Dump table LMLM lock token
(15C)	ADDRESS	4	DUA_FTLOCK_TOKEN	FT table LMLM lock token
Pointers for Feature Table				
(160)	ADDRESS	4	DUA_FTBLOCKHEAD	-> FT block header
(164)	ADDRESS	4	DUA_FTFREEHEAD	-> FT free chain hd
(168)	CHARACTER	8	DUA_FTHEAD	
(168)	ADDRESS	4	DUA_FTFIRST	-> First FT element
(16C)	ADDRESS	4	DUA_FTLAST	-> Last FT element
Feature count				
(170)	UNSIGNED	2	DUA_FT_COUNT	Number of features
(172)	CHARACTER		*	

DTB - Block header for System Dump Table & Transaction Dump Table

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	20	DTB	
(0)	CHARACTER	20	DTB_PREFIX	Standard prefix
(0)	HALFWORD	2	DTB_LENGTH	Length of block
(2)	CHARACTER	1	DTB_ARROW	'>'
(3)	CHARACTER	3	DTB_DFH	'DFH'
(6)	CHARACTER	2	DTB_DOMID	'DU'
(8)	CHARACTER	8	DTB_BLOCK_NAME	'STDBLOCK' or 'TDTBLOCK'
(10)	ADDRESS	4	DTB_NEXT	-> Next Dump Table Block
(14)	CHARACTER		*	

FTB - Block header for Feature table

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	20	FTB	
(0)	CHARACTER	20	FTB_PREFIX	Standard prefix
(0)	HALFWORD	2	FTB_LENGTH	Length of block
(2)	CHARACTER	1	FTB_ARROW	'>'
(3)	CHARACTER	3	FTB_DFH	'DFH'
(6)	CHARACTER	2	FTB_DOMID	'DU'
(8)	CHARACTER	8	FTB_BLOCK_NAME	'FTBLOCK'
(10)	ADDRESS	4	FTB_NEXT	-> Next FT table
(14)	CHARACTER		*	block

BTB - Block header for Dump Table Browse Token Table

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	20	BTB	
(0)	CHARACTER	20	BTB_PREFIX	Standard prefix
(0)	HALFWORD	2	BTB_LENGTH	Length of block
(2)	CHARACTER	1	BTB_ARROW	'>'
(3)	CHARACTER	3	BTB_DFH	'DFH'
(6)	CHARACTER	2	BTB_DOMID	'DU'
(8)	CHARACTER	8	BTB_BLOCK_NAME	'BTBLOCK'
(10)	ADDRESS	4	BTB_NEXT	-> Next Browse Table Block
(14)	CHARACTER		*	

DTE - Dump Table element. Used for System or Transaction Dump Table.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	48	DTE	
(0)	ADDRESS	4	DTE_NEXT	-> Next DTE
(4)	ADDRESS	4	DTE_PREV	-> Previous DTE
(8)	CHARACTER	8	DTE_DUMPSCOPE	Tran dump code bytes 1-4 or system dump code bytes 1-8
(10)	UNSIGNED	1	DTE_TRANSACTION_DUMP	Scope of the dump. RELATED or LOCAL
(11)	UNSIGNED	1	DTE_SYSTEM_DUMP	Tran dump reqd
(12)	UNSIGNED	1	DTE_TERMINATE_CICS	System dump reqd
(13)	UNSIGNED	1	DTE_MAXIMUM_DUMPS	Terminate CICS reqd
(14)	FULLWORD	4	DTE_COUNT	Only take this number
(18)	FULLWORD	4	DTE_TRAN_DUMPS_TAKEN	Number of dump calls
(1C)	FULLWORD	4	DTE_TRAN_DUMPS_SUPPRESSED	Number of tran dumps taken
(20)	FULLWORD	4	DTE_SYS_DUMPS_TAKEN	Number of tran dumps suppressed
(24)	FULLWORD	4	DTE_SYS_DUMPS_SUPPRESSED	Number of system dumps taken
(28)	FULLWORD	4	DTE_DAELOPT	Number of system dumps suppressed
(2C)	UNSIGNED	1		PASS SYMPTOM

RECORD ONTO DFHDUSVC

(2D)	CHARACTER	3	*	
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FTE - Feature table element.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	124	FTE	
(0)	ADDRESS	4	FTE_NEXT	-> Next FTE
(4)	ADDRESS	4	FTE_PREV	-> Previous FTE
(8)	CHARACTER	8	FTE_FEATURE_TOKEN	Register?
(10)	CHARACTER	2	FTE_STATUS	
(12)	CHARACTER	30	FTE_COMPANY_NAME	
(30)	CHARACTER	30	FTE_FEATURE_NAME	
(4E)	CHARACTER	10	FTE_FEATURE_LEVEL	
(58)	CHARACTER	8	FTE_DUMP_FORMATTING_ROUTINE	

Offset Hex	Type	Len	Name (Dim)	Description
(60)	CHARACTER	8	FTE_TRACE_FORMATTING_ROUTINE	
(68)	CHARACTER	9	FTE_TRACE_ABBREVIATED_NAME	
(71)	CHARACTER	1	*	
(72)	UNSIGNED	2	FTE_COUNT	
(74)	CHARACTER	8	FTE_FEATURE_TRACE_TOKEN	
(7C)	CHARACTER		*	

BTE - Browse Table element for Browse Token Table.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	32	BTE	
(0)	ADDRESS	4	BTE_NEXT	-> Next DTE
(4)	ADDRESS	4	BTE_PREV	-> Previous DTE
(8)	ADDRESS	4	BTE_TOKEN	-> BTE_DUMP CODE
(C)	CHARACTER	8	BTE_DUMP CODE	Tran dump code bytes 1-4 or system dump code bytes 1-8
(14)	FULLWORD	4	*	Reserved
(18)	FULLWORD	4	*	Reserved
(1C)	FULLWORD	4	*	Reserved
(20)	CHARACTER		*	

Definition of catalog record for dump

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	40	CC_DU_STATE	
(0)	FULLWORD	4	DUA_RUN_NO	Dump ID
(4)	CHARACTER	8	CURRENT_DDS	Current tran dumpds
(4)	CHARACTER	6	*	'DFHDMP'
(A)	CHARACTER	1	DDS_SUFFIX	'A' or 'B'
(B)	CHARACTER	1	*	' '
(C)	BITSTRING	1	ST_FLAGS	Status flags
	1... ..		AUTOSWITCH	Autoswitch active
	.1.. ..		GL_SYS_SUP	Global system dump suppression
	..1. ....		DUA_DAE_DEFAULT	1=DAE
	...1 1111		*	Reserved
(D)	BITSTRING	1	INITIAL_DDS	Initial dumpds flag
	1... ..		DFHDMPA_INITIAL	DFHDMPA selected
	.1.. ..		DFHDMPB_INITIAL	DFHDMPB selected
	..1. ....		AUTO_INITIAL	Either selected
	...1 1111		*	Reserved
(E)	HALFWORD	2	DUA_RETRY_TIME	SDUMP retry

Default size and type for Transaction Dump trace

(10)	FULLWORD	4	DUA_DUMP_TRACE_SIZE	Length
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of dump trace requested via SIT

(14)	BITSTRING	1	DUA_DUMP_TRACE_FLAG	
	1... ..		DUA_DUMP_TRACE_TYPE	1 = ALL 0 = TRAN
	.111 1111		*	
(15)	CHARACTER	3	*	Reserved

Defaults for dump table

(18)	FULLWORD	4	DUA_TRDUMAX_DEFAULT	
(1C)	FULLWORD	4	DUA_SYDUMAX_DEFAULT	
(20)	CHARACTER	8	*	Reserved

Interface block for the formatting routines of transaction dump  
The storage for this area is allocated from DUXD dynamic storage and is therefore only available during execution of transaction dump.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	140	XFINTER	
(0)	ADDRESS	4	CSA_PTR	CSA address
(4)	ADDRESS	4	TCA_PTR	TCA address
(8)	ADDRESS	4	DUDD_PLIST	DUDU plist address
(C)	CHARACTER	64	REGSAVE	Saved registers
(4C)	CHARACTER	16	PSWSAVE	Saved associated PSW
(4C)	CHARACTER	4	*	
(50)	CHARACTER	4	PSWSAVE2	Saved PSW address@P4A
(54)	CHARACTER	8	*	
(5C)	BITSTRING	1	ABEND_FLAGS	Abend flags #1
	1... ..		ASRA	'ASRA' abend
	.1.. ..		ASRB	'ASRB' abend
	..1. ....		AICA	'AICA' abend
	...1 ....		ASRD	'ASRD' abend
	.... 1...		ASRE	'ASRE' abend
	.... .111		*	Reserved
(5D)	BITSTRING	1	*	
	1... ..		PROG_CHK	Premature termination
	.1. ....		REMOTE_ABEND	DPL remote abend
	..1. ....		SUBSPACE_ACT	subspace or base?@L4A
	...1 1111		*	Reserved
(5E)	CHARACTER	2	*	Alignment

The following fields are used by DFHXRDXF

(60)	ADDRESS	4	XRF_DUXW	Addr. DUXW plist
(64)	ADDRESS	4	XRF_PTR	Parameter address
(68)	CHARACTER	4	ABEND_SYSID	SYSID from which the remote DPL abend was received

TRACE TABLE VALUES USED IN DFHTRXDF

(6C)	ADDRESS	4	COPY_TAB_PTR	ADDR OF COPY TABLE
(70)	FULLWORD	4	COPY_TAB_LEN	ACTUAL LENGTH
(74)	UNSIGNED	1	TRACE_FLAGS	
	1... ..		NEW_TAB_WRAP	WRAPPED YET FLAG
	.1.. ..		ANY_RELEVANT	ANY RELEVANT YET
	..11 1111		*	
(75)	CHARACTER	3	*	

USED FOR THE MAPPING OF THE ENTRIES FROM ORIGINAL TABLE

(78)	ADDRESS	4	NEW_TAB_PTR	PTR TO CURRENT BLOCK IN NEW
(7C)	ADDRESS	4	NEW_TAB_BASE	PTR TO BASE OF NEW TABLE
(80)	FULLWORD	4	NEW_TAB_SIZE	ACTUAL LEN NEW TAB ROUNDED
(84)	ADDRESS	4	NEW_END_PTR	PTR TO FIRST BYTE PAST TABLE
(88)	CHARACTER	4	*	reserved

The following block contains the data areas which are associated with the dump dataset DCB. It is allocated when the dataset is opened, and freed when either an explicit close is issued or the end of the current dataset is reached, and autoswitching is not enabled. The address of this block is in the dump domain anchor block.

The elements which are contained in this block are as follows:-

- ECB to be used with all I/O
- DCB for the dump dataset
- Write list expansion used with all MVS macros against the dataset.
- I/O buffer

THE BLOCK RESIDES BELOW THE 16M LINE

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	40	OPEN_BLOCK	
(0)	UNSIGNED	2	LEN	Total length of block
(2)	CHARACTER	6	OB_CON1	'>DFHDU'
(8)	CHARACTER	8	OB_CON2	'OPENBLOK'
(10)	ADDRESS	4	POINT_PTR	Used with NOTE/POINT
(14)	ADDRESS	4	DSET_TRLR_PTR	Addr. dataset trailer recd.
(18)	ADDRESS	4	ECB_PTR	-> ECB
(1C)	ADDRESS	4	OB_DCB_PTR	-> DCB
(20)	ADDRESS	4	WL_PTR	-> Remote parm list
(24)	ADDRESS	4	BSAM_RSA_PTR	-> RSA below 16M
(28)	CHARACTER		DATA_START	Dummy

ECB

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	20	ECB	
(0)	BITSTRING	1	CON1	X'00'
(1)	BITSTRING	3	CON1A	X'00'
(4)	BITSTRING	1	CON2	X'00'
(5)	BITSTRING	1	CON3	X'20'
(6)	UNSIGNED	2	DCECBIOI	Length
(8)	ADDRESS	4	DCDCB	-> DCB
(C)	ADDRESS	4	DCECBIOA	-> Buffer
(10)	UNSIGNED	4	CON4	X'00'

Remote parameter list

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	WL	
(0)	CHARACTER	1	RES1	Option byte
(1)	ADDRESS	3	WL_DCB_PTR	-> DCB

Save area for BSAM calls (NOTE, POINT, WRITE, CHECK)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	72	BSAM_SAVE_AREA	
(0)	ADDRESS	4	* (18)	Save area

## Constants

Len	Type	Value	Name	Description
0	BIT	1	SWITCH_IN_PROG_YES	
0	BIT	0	SWITCH_IN_PROG_NO	

Meanings of XD\_ FLAGS.DUXD\_ACTIVE

0	BIT	1	DUXD_ACTIVE_YES	
0	BIT	0	DUXD_ACTIVE_NO	

Meanings of XD\_ FLAGS.XDUCLSE\_ACTIVE

0	BIT	1	XDUCLSE_ACTIVE_YES	
0	BIT	0	XDUCLSE_ACTIVE_NO	

Meanings of XD\_ FLAGS.XDUOUT\_ACTIVE

0	BIT	1	XDUOUT_ACTIVE_YES	
0	BIT	0	XDUOUT_ACTIVE_NO	

Meanings of XD\_ FLAGS.XDUREQ\_ACTIVE

0	BIT	1	XDUREQ_ACTIVE_YES	
0	BIT	0	XDUREQ_ACTIVE_NO	

Meanings of XD\_ FLAGS.OPEN\_STATUS

0	BIT	1	XD_OPEN	
0	BIT	0	XD_CLOSED	
0	BIT	0	DUMP_TRACE_TRAN	
0	BIT	1	DUMP_TRACE_ALL	

General Constants

0	BIT	1	YES	
0	BIT	0	NO	

The following values are passed to XDUOUT, as the first parm

1	HEX	00	XDUOUT_XD_ACT	
1	HEX	04	XDUOUT_XD_RESTART	
1	HEX	08	XDUOUT_XD_ABTERM	
1	HEX	0C	XDUOUT_XD_INACT	

Block names for above.

8	CHARACTER	SDTBLOCK	SDTBLOCK_NAME	
8	CHARACTER	TDTBLOCK	TDTBLOCK_NAME	
8	CHARACTER	BTTBLOCK	BTTBLOCK_NAME	
8	CHARACTER	FTBLOCK	FTBLOCK_NAME	
2	CHARACTER	RE	FT_REGISTERED	
2	CHARACTER	DE	FT_DEREGISTERED	

Constants for DTE\_ DUMPSCOPE



Len	Type	Value	Name	Description
1	DECIMAL	1	DTE_LOCAL	
Dump local address space				
1	DECIMAL	2	DTE_RELATED	
Miscellaneous constants.				
1	CHARACTER	>	ARROW	
4	DECIMAL	16	BDY16	
4	HEX	FFFFFFF0	BDY16ROUND	
1	DECIMAL	2	MAX_DUXWREC_COUNT	
Sizes of quickcell blocks				
4	DECIMAL	4096	DTEBLOCK_SIZE	Size of dump table block
4	DECIMAL	512	BTEBLOCK_SIZE	Size of browse table block
4	DECIMAL	4096	FTE_BLOCK_SIZE	Size of FT table block
Size of buffer for Dump code statistics				
4	DECIMAL	1024	STATS_BUFFER_SIZE	Size of stats buffer
Dump dataset record id's.				
4	DECIMAL	1	DUID_DUMP_HEADER	
4	DECIMAL	2	DUID_DUA	
Dump record names.				
8	CHARACTER	DUA	DUNM_DUA	
DUDM trace point ids				
2	HEX	0001	TPID_DUDM_ENTER	
2	HEX	0002	TPID_DUDM_EXIT	
2	HEX	0003	TPID_DUDM_INVALID	
2	HEX	0004	TPID_DUDM_RECOV	
2	HEX	0007	TPID_DUDM_LOADFAIL	
2	HEX	0008	TPID_DUDM_GMAIN_DUA	
2	HEX	0009	TPID_DUDM_GMAIN_DUA_RET	
2	HEX	000A	TPID_DUDM_GMAIN_SDT	
2	HEX	000B	TPID_DUDM_GMAIN_SDT_RET	
2	HEX	000C	TPID_DUDM_GMAIN_TDT	
2	HEX	000D	TPID_DUDM_GMAIN_TDT_RET	
2	HEX	000E	TPID_DUDM_GMAIN_STATS_BUF	
2	HEX	000F	TPID_DUDM_GMAIN_STATS_BUF_RET	*
DUDU trace point ids				
2	HEX	0101	TPID_DUDU_ENTER	
2	HEX	0102	TPID_DUDU_EXIT	
2	HEX	0103	TPID_DUDU_INVALID	
2	HEX	0104	TPID_DUDU_RECOV	
2	HEX	0105	TPID_DUDU_DUMP_TABLE_NOT_INIT	
DUSR trace point ids				
2	HEX	0301	TPID_DUSR_ENTER	
2	HEX	0302	TPID_DUSR_EXIT	
2	HEX	0304	TPID_DUSR_RECOV	
2	HEX	0305	TPID_DUSR_DFHDUMPX_ADD_FAILED	
DUDT trace point ids				
2	HEX	0500	TPID_DUDT_ENTER	
2	HEX	0501	TPID_DUDT_EXIT	
2	HEX	0502	TPID_DUDT_RECOV	
2	HEX	0503	TPID_DUDT_INVALID_FORMAT	
2	HEX	0504	TPID_DUDT_INVALID_DT_FUNCTION	
2	HEX	0505	TPID_DUDT_INVALID_ST_FUNCTION	
DUTM trace point ids				
2	HEX	0600	TPID_DUTM_ENTER	
2	HEX	0601	TPID_DUTM_EXIT	
2	HEX	0602	TPID_DUTM_RECOV	
2	HEX	0603	TPID_DUTM_INVALID_FORMAT	
2	HEX	0604	TPID_DUTM_INVALID_TM_FUNCTION	
2	HEX	0605	TPID_DUTM_INVALID_ST_FUNCTION	
2	HEX	0606	TPID_DUTM_INVALID_GETN_BT	
2	HEX	0607	TPID_DUTM_INVALID_ENDBR_BT	

Len	Type	Value	Name	Description
2	HEX	0608	TPID_DUTM_ INVALID_ST_TYPE	
2	HEX	0609	TPID_DUTM_ GMAIN_BTT	
2	HEX	060A	TPID_DUTM_ GMAIN_BTT_RET	
2	HEX	060B	TPID_DUTM_ GMAIN_SDT	
2	HEX	060C	TPID_DUTM_ GMAIN_SDT_RET	
2	HEX	060D	TPID_DUTM_ GMAIN_TDT	
2	HEX	060E	TPID_DUTM_ GMAIN_TDT_RET	
2	HEX	060F	TPID_DUTM_ BTT_NOSTOR	
2	HEX	0610	TPID_DUTM_ SDT_NOSTOR	
2	HEX	0611	TPID_DUTM_ TDT_NOSTOR	
<hr/>				
DUIO trace point ids				
2	HEX	0200	DUIO_ENTRY	
2	HEX	0201	DUIO_EXIT	
2	HEX	0202	DUIO_RECOVERY	
2	HEX	0203	DUIO_DOPEN	
2	HEX	0204	DUIO_DOPEN_RET	
2	HEX	0205	DUIO_DEVTYPE	
2	HEX	0206	DUIO_DEVTYPE_RET	
2	HEX	0207	DUIO_GMAIN	
2	HEX	0208	DUIO_GMAIN_RET	
2	HEX	0209	DUIO_FRMAIN	
2	HEX	020A	DUIO_FRMAIN_RET	
2	HEX	020B	DUIO_CLOSED	
2	HEX	020C	DUIO_CLOSED_RET	
2	HEX	020D	DUIO_FRPOOL	
2	HEX	020E	DUIO_FRPOOL_RET	
2	HEX	020F	DUIO_DWRITE	
2	HEX	0210	DUIO_DWRITE_RET	
2	HEX	0211	DUIO_CHK	
2	HEX	0212	DUIO_CHK_RET	
2	HEX	0214	DUIO_DCB_ABEND	
2	HEX	0239	DUIO_NOTE	
2	HEX	0240	DUIO_NOTERET	
2	HEX	0241	DUIO_POINT	
2	HEX	0242	DUIO_POINTRET	
<hr/>				
DUSU trace point ids				
2	HEX	0215	DUSU_ENTRY	
2	HEX	0216	DUSU_EXIT	
2	HEX	0217	DUSU_RECOVERY	
2	HEX	0250	DUSU_DYNALLOC_ENTER	
2	HEX	0251	DUSU_DYNALLOC_RETURN	
2	HEX	0252	DUSU_FRMAIN	
2	HEX	0253	DUSU_FRMAIN_RET	
<hr/>				
DUXD trace point ids				
2	HEX	0218	DUXD_ENTRY	
2	HEX	0219	DUXD_EXIT	
2	HEX	021A	DUXD_RECOVERY	
<hr/>				
DUXW trace point ids				
2	HEX	021B	DUXW_ENTRY	
2	HEX	021C	DUXW_EXIT	
2	HEX	021D	DUXW_RECOVERY	
<hr/>				
XDF transaction dump formatter trace point ids				
2	HEX	021E	DLXDF_ENTRY	
2	HEX	021F	DLXDF_EXIT	
2	HEX	0220	DLXDF_RECOVERY	
2	HEX	0221	XRxdf_ENTRY	
2	HEX	0222	XRxdf_EXIT	
2	HEX	0223	XRxdf_RECOVERY	
2	HEX	0224	TCXDF_ENTRY	
2	HEX	0225	TCXDF_EXIT	
2	HEX	0226	TCXDF_RECOVERY	
2	HEX	0227	PCXDF_ENTRY	
2	HEX	0228	PCXDF_EXIT	
2	HEX	0229	PCXDF_RECOVERY	
2	HEX	022A	SAXDF_ENTRY	
2	HEX	022B	SAXDF_EXIT	
2	HEX	022C	SAXDF_RECOVERY	
2	HEX	022D	FCXDF_ENTRY	
2	HEX	022E	FCXDF_EXIT	
2	HEX	022F	FCXDF_RECOVERY	
2	HEX	0230	TRXDF_ENTRY	
2	HEX	0231	TRXDF_EXIT	
2	HEX	0232	TRXDF_RECOVERY	
2	HEX	0233	XDXDF_ENTRY	
2	HEX	0234	XDXDF_EXIT	
2	HEX	0235	XDXDF_RECOVERY	
2	HEX	0236	SMXDF_ENTRY	
2	HEX	0237	SMXDF_EXIT	

Len	Type	Value	Name	Description
2	HEX	0238	SMXDF_RECOVERY	
DFHDUSVC dump authorized routines trace point ids				
2	HEX	0710	DUSVC_REMOTE_SDUMP	
2	HEX	0711	DUSVC_INVALID_ PROBDESC	
DFHDUMPX SDUMP exit trace point ids				
2	HEX	0720	DUMPX_ENTRY_ID	
2	HEX	0721	DUMPX_EXIT_ID	
2	HEX	0722	DUMPX_WLM_CALL	
2	HEX	0723	DUMPX_WLM_ERROR	
2	HEX	0724	DUMPX_WLM_RET	
2	HEX	1F01	TPID_DUFT_ENTER	
2	HEX	1F02	TPID_DUFT_EXIT	
2	HEX	1F03	TPID_DUFT_RECOV	
2	HEX	1F10	TPID_DUFT_GMAIN_FT	
2	HEX	1F11	TPID_DUFT_GMAIN_FT_RET	
2	HEX	1FE1	TPID_DUFT_FT_NOSTOR	
Dump catalog record constants				
0	BIT	1	AUTOSWITCH_ON	
0	BIT	0	AUTOSWITCH_OFF	
0	BIT	1	GL_SYS_SUP_ON	
0	BIT	0	GL_SYS_SUP_OFF	
I/O buffer area length				
4	DECIMAL	4096	MAXBUFF	Max buffer length
SPACING values used in conjunction with transaction dump rclds.				
1	DECIMAL	8	SPACE3	
1	DECIMAL	4	SPACE2	
1	DECIMAL	0	SPACE1	
Messages				
4	DECIMAL	1	DU_ABEND_MSG	DFHDU001
4	DECIMAL	2	DU_ERROR_MSG	DFHDU002
4	DECIMAL	4	DU_LOOP_MSG	DFHDU004
4	DECIMAL	102	DUIO_LOAD_ERROR	DFHDU102
4	DECIMAL	302	MSG302	DFHDU302
4	DECIMAL	303	DUSU_MSG#2	DFHDU303
4	DECIMAL	304	DUSU_MSG#1	DFHDU304
4	DECIMAL	305	DUSU_MSG#3	DFHDU305
4	DECIMAL	306	MSG306	DFHDU306
4	DECIMAL	307	MSG307	DFHDU307

## DUAFB Dump domain authorised parameter block

The Dump Authorized Facility Parameter Block. This is used to pass parameters to the Dump SVC routine DFHDUSVC, and return responses to the caller.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	76	DAFPB	
(0)	CHARACTER	16	DAFPB_PREFIX	
(0)	UNSIGNED	2	DAFPB_LENGTH	control block length
(2)	CHARACTER	1	DAFPB_ARROW	>
(3)	CHARACTER	3	DAFPB_DFH	DFH
(6)	CHARACTER	2	DAFPB_DOMAIN	DU
(8)	CHARACTER	8	DAFPB_BLOCK_ID	DAFPB
(10)	CHARACTER	60	DAFPB_DATA	
(10)	UNSIGNED	2	DAFPB_FUNCTION	required auth. function
(12)	UNSIGNED	2	DAFPB_RESPONSE	return code from DFHDUSVC
(14)	FULLWORD	4	DAFPB_SDUMPX_RESPONSE	
(18)	ADDRESS	4	DAFPB_SYMREC_PTR	MVS return code from SDUMPX pointer to symptom record
(1C)	FULLWORD	4	DAFPB_SYMREC_LEN	length of symptom record
(20)	CHARACTER	8	DAFPB_DUMPCODE	dump code
(28)	CHARACTER	9	DAFPB_DUMPID	dump identifier
(31)	CHARACTER	3	*	reserved
(34)	BITSTRING	4	*	reserved
(38)	ADDRESS	4	DAFPB_REMOTE_MSG_PTR	
(3C)	FULLWORD	4	DAFPB_CSVDYNEX_RETURN_CODE	address of remote message MVS return code from CSVDYNEX
(40)	FULLWORD	4	DAFPB_CSVDYNEX_REASON	MVS reason code from CSVDYNEX
(44)	FULLWORD	4	DAFPB_IWMWQWRK_RETURN_CODE	MVS return code from IWMWQWRK
(48)	FULLWORD	4	DAFPB_IWMWQWRK_REASON	MVS reason code from IWMWQWRK
(4C)	CHARACTER		DAFPB_END	

### Constants

Len	Type	Value	Name	Description
2	DECIMAL	1	DAFPB_TAKE_SDUMPX	
2	DECIMAL	2	DAFPB_TAKE_RELATED_SDUMPX	
2	DECIMAL	3	DAFPB_CSVDYNEX_ADD_DFHDUMPX	

Len	Type	Value	Name	Description
--				
				The valid responses from the Dump SVC routine, passed in the "DAFPB" field "dafpb_response".
				The responses currently produced are:
				ok
				The operation was executed successfully.
				not_supported
				The function code supplied is not valid.
				getmain_failed
				A GETMAIN request for SP 253 storage failed.
				festae_failed
				The FESTAE could not be established.
				not_authorized
				The authorization check failed.
				sdumpx_failed
				The SDUMPX request failed to complete the dump. The MVS response and reason are returned in "dafpb_sdumpx_response".
				csvdynex_failed
				The CSVDYNEX request failed. The MVS return code and reason are returned in "dafpb_csvdynex_return_code" and "dafpb_csvdynex_reason".
				iwmwqwrk_failed
				The IWMWQWRK request failed. The MVS return code and reason are returned in "dafpb_iwmwqwrk_return_code" and "dafpb_iwmwqwrk_reason".
				dfhdumpx_not_found
				The exit module DFHDUMPX was not found in the LPA.
				invalid_probdesc
				The SDUMPX PROBDISC data is invalid.
2	DECIMAL	0	DAFPB_OK	
2	DECIMAL	1	DAFPB_NOT_SUPPORTED	
2	DECIMAL	2	DAFPB_GETMAIN_FAILED	
2	DECIMAL	3	DAFPB_FESTAE_FAILED	
2	DECIMAL	4	DAFPB_NOT_AUTHORIZED	
2	DECIMAL	5	DAFPB_SDUMPX_FAILED	
2	DECIMAL	6	DAFPB_CSVSYNEX_FAILED	
2	DECIMAL	7	DAFPB_IWMWQWRK_FAILED	
2	DECIMAL	8	DAFPB_DFHDUMPX_NOT_FOUND	
2	DECIMAL	9	DAFPB_INVALID_PROBDISC	

## DUGS Dump domain global statistics

CONTROL BLOCK NAME = DFHTDGDS  
 DESCRIPTIVE NAME = CICS Dump Domain Global Statistics  
 (Transaction dumps)  
 FUNCTION = A record containing Dump Domain Global Statistics  
 This DSECT describes the global transaction dump statistics produced by the Dump Domain. A single instance of the data is produced by the Dump Domain.  
 Additional copies may be created by the statistics domain, statistics utility programs or user programs.  
 The data consists of a header plus a block of statistics for the Dump domain.  
 LIFETIME = Created when the Dump Domain is initialised and exists for the lifetime of the domain manager.  
 STORAGE CLASS = varies  
 LOCATION = User is passed a pointer to the storage  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = None  
 CONTROL BLOCKS = In Dump Domain  
 GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHTDGDS	Transaction Dump Global Stats
(0)	FULLWORD	4	(0)	Reserved
(0)	HALFWORD	2	TDGLEN	Length of data area
	.1.1 .111		TDGIDE	"87" Global system dump stats id mask
(2)	ADDRESS	2	TDGID	Dump Domain global stats id
	.... ..1		TDGVERS	"X'01" Stats version number mask
(4)	CHARACTER	1	TDGDVERS	Dump domain global stats version
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	TRANS_DUMP_TAKEN	No. of transaction dumps taken
(C)	FULLWORD	4	TRANS_DUMP_SUPP	No. of transaction dumps supprsd
	...1 ....		TDGEND	""
	...1 ....		TDGCLEN	""-DFHTDGDS" Length of DSECT

## DUTD Dump domain transaction dump statistics

CONTROL BLOCK NAME = DFHTDRDS  
 DESCRIPTIVE NAME = CICS Dump Domain Transaction Dump Stats  
 FUNCTION = A record containing Dump Domain Transaction Dump Stats  
 (By dumpcode)  
 This DSECT describes the statistics produced by the Dump Domain for each transaction dumpcode. There will be one instance of the data for each dumpcode for which statistics were requested.  
 The data consists of a header plus a block of statistics for the Dump domain.  
 LIFETIME = Created when the Dump Domain is initialised and exists for the lifetime of the Dump Domain.  
 STORAGE CLASS =  
 LOCATION = User is passed a pointer to the storage  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = None  
 CONTROL BLOCKS = In Dump Domain  
 GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHTDRDS	Dump domain transaction dump stats
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	TDRLEN	Length of data area
	.1.1 .1.1		TDRIDE	"85" Transaction dump stats id mask
(2)	ADDRESS	2	TDRID	transaction dump stats id
	.... .1.1		TDRVERS	"X'01" DSECT version number
(4)	CHARACTER	1	TDRDVERS	Domain data format version number
(5)	CHARACTER	3		Filler
(8)	CHARACTER	4	TDRCODE	Dumpcode
(C)	FULLWORD	4	TDRSTKN	# of system dumps taken
(10)	FULLWORD	4	TDRSSUPR	# of system dumps suppressed
(14)	FULLWORD	4	TDRTTKN	# of transaction dumps taken
(18)	FULLWORD	4	TDRTSUPR	# of transaction dumps suppressed
	...1 11..		TDREND	""
	...1 11..		TDRCLN	""-TDRLEN" Length

**DWE Deferred work element**

CONTROL BLOCK NAME = DFHDWEDS  
 DESCRIPTIVE NAME = CICS Deferred Work Element.  
 DEFERRED WORK ELEMENT

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHDWEDS	DUMMY SECTION-DEFRD.WORK ELEM.
(0)	HALFWORD	2	DWELENG	Length of this DWE
(2)	CHARACTER	4	DWEEYECA	Eyecatcher set to '>DWE'
(6)	CHARACTER	1		Reserved
(7)	BITSTRING	1	DWESMF	Storage Management Flag
	1... ....		DWESMFNT	"X'80" Non task related storage
	..1. ....		DWESHUNT	"X'20" Retain DWE if in-doubt
(8)	ADDRESS	4	DWECHAN	ADDRESS OF NEXT DWE IN CHAIN
(C)	ADDRESS	4	DWESVMNA	Service module self defining entry point address
(10)	BITSTRING	1	DWESTAT	D W E STATUS INDICATOR
	..1. ....		DWEPHS2	"X'20" ...DWE APPLIES TO PHASE 2 OF SYNC POINT
	.... 1...		DWEDYNB	"X'08" ...BEING DYNAMICALLY BACKED OUT
	.... .1..		DWEVTYES	"X'04" ...VOTE 'YES' TO PREPARE
	.... ..1.		DWECNLM	"X'02" ...CANCELLED MASK
	.... ...1		DWEVTNO	"X'01" ...VOTE NO TO PREPARE'
(11)	BITSTRING	1	DWEMODFN	SERVICE MODULE FUNCTION CODE
NOTE APPROPRIATE CODES ARE DEFINED IN A SEPARATE DSECT LABELED DFHFMDIS				
(12)	BITSTRING	1	DWESVMID	SERVICE MODULE IDENTIFIER
NOTE APPROPRIATE CODES ARE DEFINED IN A SEPARATE DSECT LABELED DFHFMDIS				
(13)	BITSTRING	1	(5)	Reserved
(18)	ADDRESS	4	DWELXDA	EXTERNAL DATA ADDRESS
(1C)	ADDRESS	4	DWECMNEA (0)	END OF COMMON AREA
	...1 11..		DWEEEXT	*** DWE extensions
	...1 .1..		DWEAD	**-DFHDWEDS-8" ABSOLUTE DISPLACEMENT (GETMAIN) I.E. THE ABOVE IS DWE LEN
SYSTEM SPOOLING DWE EXTENSION				
(1C)	HALFWORD	2	DWEPSRNM	REPORT-NUMBER
(1E)	CHARACTER	1	DWEPSRCV	RECOVERY CODE
(1F)	CHARACTER	1	DWEPSSTT	REPORT STATUS
(20)	CHARACTER	8	DWEPSTOK	REPORT TOKEN
	..1. ....		DWEPSAD	**-DFHDWEDS-8" PS DWE GETMAIN SIZE
GENERAL PURPOSE SUBTASKING DWE EXTENSION				
(1C)	ADDRESS	4	DWESKWQE	ADDRESS OF WQE TO ADD TO ..FREE QUEUE
	...1 1...		DWESKAD	**-DFHDWEDS-8" SK DWE GETMAIN SIZE



## DXPS XRF/DBCTL DGB extension

CONTROL BLOCK NAME = DFHDXPS  
 DESCRIPTIVE NAME = CICS XRF/DBCTL DGB Extension  
 FUNCTION =  
 DGBDXPS defines fields used by DBCTL/XRF which require a longer lifetime than CICS life can offer.  
 LIFETIME =  
 Created at the same time as the DGB, and never deleted.  
 LOCATION = CSA->OPFL->DLP->DGB->DXPS  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition  
 Contained in PL/AS Copy Book DFHDXMAC  
 Invoke by DFHDXPS no operands  
 EXTERNAL REFERENCES = None  
 DATA AREAS = Refers to DFHDBWMS, DX\_Q\_ELEMENT  
 GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	36	DFHDXPS	
(0)	ADDRESS	4	DXLSTMSG	Pointer to last DBCTL/XRF message
(4)	ADDRESS	4	DXSQHDR	Pointer to chain of MVS subtasks
(8)	ADDRESS	4	DXAXIBA	DFHAXI base address
(C)	ADDRESS	4	DXAXIGP	Pointer to current AXI group recd
(10)	ADDRESS	4	DXAXIPT	Pointer to current AXI record
(14)	ADDRESS	4	DXRTRCNT	Number of retry connect attempts
(18)	CHARACTER	4	DXDBCID	SSID of first connect attempt
(1C)	BITSTRING	4	DXFLGS1	Miscellaneous flags
	1... ..		AXI_LOADED	Reminder that AXI is to be del
	.1.. ..		DBCTL_RST	Indicator that no DBCTL in RSE act
	..1. ....		DFS690SW	Indicator that DFS690 issued
	...1 ....		*	Reserved
	.... 1...		RETCODE8	Code 8 returned by previous call
	.... .1..		DXEREF LG	Flag to indicate wait on DXEREECB
	.... ..11		*	Filler for remainder of byte
(20)	BITSTRING	4	DXEREECB	ECB cleared while ERE issued
(20)	BITSTRING	1	*	Reserved
(21)	BITSTRING	1	DXERECMP	ERE completion code Copy DXPS dsect

**DXQEL XRF/DBCTL subtask storage**

```

CONTROL BLOCK NAME = DX_Q_ELEMENT
DESCRIPTIVE NAME = CICS XRF/DBCTL subtask storage
FUNCTION =
Defines the fields in an XRF/DBCTL subtask queue element
LIFETIME =
Storage obtained by GETMAIN
LOCATION = CSA->OPFL->DLP->DGB->DXPS->DX_Q_ELEMENT
INNER CONTROL BLOCKS = None
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Control block definition
  Contained in PL/AS Copy Book DFHDXMAC
  Invoke by DX_Q_ELE no operands
EXTERNAL REFERENCES = None
DATA AREAS = None
GLOBAL VARIABLES (Macro pass) = None

```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	DX_Q_ELEMENT	Queue of XRF/DBCTL subtasks
(0)	ADDRESS	4	DX_NEXT_Q	Address of next Q element
(4)	CHARACTER	8	DX_CB_ID	DX control block id
(C)	ADDRESS	4	DX_TCB	Ptr to TCB of attached subtask
(10)	BITSTRING	4	DX_FLGS1	DX flag bit settings ..
	1... ..		DX_LOCK	Lock on this Q element storage
	.1.. ..		DETACHED	Use this bit to remember detach
(14)	BITSTRING	4	DX_EOT_ECB	End Of Task ECB for attached subtask
	1... ..		*	Reserved
	.1.. ..		POSTED	Post bit within ECB
	..11 1111		*	Reserved
(15)	BITSTRING	3	DX_CC	Subtask completion code
(18)	ADDRESS	4	DX_EP_ADDR	Entry Point for attached subtask
(1C)	FULLWORD	4	DX_PARM_LEN	Parameter length for attached stask
(20)	CHARACTER	*	DX_PARMS	Parameters passed to attached

## DXUEP Cics-dbctl XRF user exit parameter list

CONTROL BLOCK NAME = DFHDXUEP  
 DESCRIPTIVE NAME = CICS/MVS XRF support of DBCTL  
 FUNCTION =  
 Defines the parameter list passed to the Global User Exits  
 XXDFA,XXDFB, and XXDTO.  
 This control block is built by programs DFHDBCT and DFHDBCR  
 when a user decision is required on whether to perform an XRF  
 takeover after a DBCTL failure, or a DBCTL takeover after a  
 CICS failure.  
 LIFETIME =  
 This control block is created in the life of DFHDBCT or  
 DFHDBCR to communicate with XXDFA,XXDFB or XXDTO the  
 control block is completely reinitialized every time one  
 of these exits is invoked.  
 STORAGE CLASS =  
 LIFO  
 LOCATION =  
 N/A  
 INNER CONTROL BLOCKS =  
 N/A  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
 Identify referenced items defined outside this control  
 block. Such external references should be avoided.  
 DATA AREAS =  
 None  
 CONTROL BLOCKS =  
 None  
 GLOBAL VARIABLES (Macro pass) =  
 None

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHDXUEP	
(0)	CHARACTER	4	UEPDXADB	SSID of old active IMS
(4)	CHARACTER	4	UEPDXBDB	SSID of proposed alternate
(8)	CHARACTER	8	UEPDXSAD	CICS specific applid
(10)	CHARACTER	8	UEPDXRSE	IMS RSE name
(18)	CHARACTER	4	UEPDXCTM	IMS connect time
(1C)	CHARACTER	4	UEPDXDTM	IMS disconnect/abend time
(20)	CHARACTER	8	UEPDXJNM	Jes Jobname of old active IMS
(28)	CHARACTER	8	UEPDXJID	Jes Jobid of old active IMS
(30)	BITSTRING	1	UEPDXIRT	IMS region type
	.... ..1		DXHOTSBY	"X'01" region type is hot standby
	.... ..1.		DXDBDC	"X'02" region type is IMS DB/DC
	.... ..1..		DXDBCTL	"X'04" region type is DBCTL
(31)	CHARACTER	4	UEPDXSMF	SMFID of active CEC
(35)	CHARACTER	4	UEPDXJES	Jes SSID of active CEC
(3A)	HALFWORD	2	UEPDXASD	ASID of old active IMS
(3C)	FULLWORD	4	UEPDXRTC	Return code from XXDFA (XXDFB only)
(40)	FULLWORD	4	UEPDXATC (0)	Action code from XXDFA (XXDFB only)
(40)	BITSTRING	1	DXMVSID	Active IMS had SSID in AXI RSE
(41)	BITSTRING	1	DXAPPLID	Active CICS has Applid in AXI RSE
(42)	BITSTRING	1	DXEQJES	Active CICS on same JES as IMS
(43)	BITSTRING	1	DXALTFND	Alternate IMS fnd in active CEC
(44)	BITSTRING	1	DXCMDISS	Restart issued in active CEC
(45)	BITSTRING	1	UEPDXSND	MVS System Indicator
	1... ..		DXXCFA	"X'80" ...XCF services available
(46)	CHARACTER	8	UEPDXSPX	XCF sysplex name for active
(4E)	CHARACTER	8	UEPDXSNM	MVS system name for active
(56)	CHARACTER	4	UEPDXSTK	MVS System token for active

## D2GDS Cics/db2 global statistics

CONTROL BLOCK NAME = DFHD2GDS  
 DESCRIPTIVE NAME = CICS DB2 Global statistics  
 FUNCTION =  
 This dsect describes the CICS/DB2 statistics provided by the CICS/DB2 Attachment facility.  
 A single record will be built to respond to a request for DB2CONN statistics.  
 LIFETIME =  
 The statistics record is created when a global statistics request is received. Storage for the data block is released when the user task is detached.  
 STORAGE CLASS =  
 LOCATION =  
 The user is passed a pointer to the head of the storage block.  
 INNER CONTROL BLOCKS = none  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Domain call buffer  
 EXTERNAL REFERENCES = none  
 DATA AREAS = none  
 CONTROL BLOCKS = from CICS/DB2 Attachment Facility.  
 GLOBAL VARIABLES (Macro pass) = none  
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHD2GDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHD2GDS	CICS/DB2 Global statistics
(0)	FULLWORD	4	(0)	fullword alignment
(0)	HALFWORD	2	D2GLEN	Length of data area
	.11. .11.		D2GIDE	"0102"CICS/DB2 global stats id mask
(2)	ADDRESS	2	D2GID	CICS/DB2 global stats id
	.... ..1		D2GVERS	"X'01"Stats version number id mask
(4)	CHARACTER	1	D2GDVERS	Stats version number
(5)	CHARACTER	3		Filler
(8)	FULLWORD	4	D2G_GLOBAL_STATS (0)	global stats
(8)	CHARACTER	8	D2G_DB2CONN_NAME	name of the DB2CONN
(10)	CHARACTER	4	D2G_DB2_ID	DB2 sysid
(14)	CHARACTER	4	D2G_DB2_RELEASE	release of DB2
(18)	CHARACTER	8	D2G_CONNECT_ TIME_GMT	connect time (GMT)
(20)	CHARACTER	8	D2G_CONNECT_ TIME_LOCAL	connect time (local)
(28)	CHARACTER	8	D2G_DISCONNECT_ TIME_GMT	disconnect time (GMT)
(30)	CHARACTER	8	D2G_DISCONNECT_ TIME_LOCAL	disconnect time (local)
(38)	FULLWORD	4	D2G_TCB_LIMIT	max number of TCBS
(3C)	FULLWORD	4	D2G_TCB_CURRENT	current number of TCBS
(40)	FULLWORD	4	D2G_TCB_HWM	HWM of TCBS
(44)	FULLWORD	4	D2G_TCB_FREE	current number of free TCBS
(48)	FULLWORD	4	D2G_TCB_ READYQ_CURRENT	number of tasks on TCB readyq
(4C)	FULLWORD	4	D2G_TCB_READYQ_HWM	peak number of tasks on TCB readyq
(50)	CHARACTER	40		reserved
(78)	FULLWORD	4	D2G_POOL_STATS (0)	pool statistics
(78)	CHARACTER	8	D2G_POOL_PLAN_NAME	static plan name if any
(80)	CHARACTER	8	D2G_POOL_ PLANEXIT_NAME	planexit name if any
(88)	CHARACTER	8	D2G_POOL_AUTHID	static authid if any
(90)	BITSTRING	1	D2G_POOL_AUTHTYPE	authtype if any
(91)	BITSTRING	1	D2G_POOL_ACCOUNTREC	Accountrec setting
(92)	BITSTRING	1	D2G_POOL_THREADWAIT	Threadwait setting
(93)	BITSTRING	1	D2G_POOL_PRIORITY	thread priority
(94)	FULLWORD	4	D2G_POOL_CALLS	number of calls using pool
(98)	FULLWORD	4	D2G_POOL_SIGNONS	number of signons
(9C)	FULLWORD	4	D2G_POOL_COMMITS	number of commits
(A0)	FULLWORD	4	D2G_POOL_ABORTS	number of aborts

Offset Hex	Type	Len	Name (Dim)	Description
(A4)	FULLWORD	4	D2G_POOL_SINGLE_PHASE	number of single phase commits
(A8)	FULLWORD	4	D2G_POOL_THREAD_REUSE	
(AC)	FULLWORD	4	D2G_POOL_THREAD_TERM	number of thread reuses
(B0)	FULLWORD	4	D2G_POOL_THREAD_WAITS	number of thread terminates
(B4)	FULLWORD	4	D2G_POOL_THREAD_LIMIT	number of thread waits
(B8)	FULLWORD	4	D2G_POOL_THREAD_CURRENT	maximum number of threads
(BC)	FULLWORD	4	D2G_POOL_THREAD_HWM	current number of threads
(C0)	FULLWORD	4	D2G_POOL_TASK_CURRENT	peak number of threads
(C4)	FULLWORD	4	D2G_POOL_TASK_HWM	current number of tasks
(C8)	FULLWORD	4	D2G_POOL_TASK_TOTAL	peak number of tasks
(CC)	FULLWORD	4	D2G_POOL_READYQ_CURRENT	total number of tasks
(D0)	FULLWORD	4	D2G_POOL_READYQ_HWM	number of tasks on ready queue
(D4)	CHARACTER	28		peak number of tasks on ready queue
(F0)	FULLWORD	4	D2G_COMMAND_STATS (0)	reserved
(F0)	CHARACTER	8	D2G_COMD_AUTHID	DSNC command statistics
(F8)	BITSTRING	1	D2G_COMD_AUTHTYPE	static authid if any
(F9)	CHARACTER	3		authtype if any
(FC)	FULLWORD	4	D2G_COMD_CALLS	reserved
(100)	FULLWORD	4	D2G_COMD_SIGNONS	number of dsnc comd calls
(104)	FULLWORD	4	D2G_COMD_THREAD_TERM	number of signons
(108)	FULLWORD	4	D2G_COMD_THREAD_OVERF	number of thread terminates
(10C)	FULLWORD	4	D2G_COMD_THREAD_LIMIT	number of overflows to pool
(110)	FULLWORD	4	D2G_COMD_THREAD_CURRENT	maximum number of threads
(114)	FULLWORD	4	D2G_COMD_THREAD_HWM	current number of threads
(118)	CHARACTER	36		peak number of threads
(118)			D2G_END	reserved
(118)			D2G_LENGTH	***
Equates to test D2G_POOL_AUTHTYPE and D2G_COMD_AUTHTYPE				
.... ....			D2G_AUTHTYPE_NA	"0" Not applicable
.... ...1			D2G_AUTHTYPE_USERID	
.... ..1.			D2G_AUTHTYPE_OPID	"1" Authtype(userid)
.... ...11			D2G_AUTHTYPE_GROUP	"2" Authtype(opid)
.... ..1..			D2G_AUTHTYPE_SIGNID	"3" Authtype(group)
.... ..1.1			D2G_AUTHTYPE_TERM	"4" Authtype(signid)
.... ...11.			D2G_AUTHTYPE_TXID	"5" Authtype(term)
Equates to test D2G_POOL_ACCOUNTREC				
.... ...1			D2G_ACCOUNTREC_NONE	"1" Accountrec(none)
.... ..1.			D2G_ACCOUNTREC_TXID	"2" Accountrec(txid)
.... ...11			D2G_ACCOUNTREC_TASK	"3" Accountrec(task)
.... ..1..			D2G_ACCOUNTREC_UOW	"4" Accountrec(uow)
Equates to test D2G_POOL_THREADWAIT				
.... ...1			D2G_THREADWAIT_YES	"1" Threadwait(yes)
.... ..1.			D2G_THREADWAIT_NO	"2" Threadwait(no)
Equates to test D2G_POOL_PRIORITY				
.... ...1			D2G_PRIORITY_HIGH	"1" Priority(high)
.... ..1.			D2G_PRIORITY_EQUAL	"2" Priority(equal)
.... ...11			D2G_PRIORITY_LOW	"3" Priority(low)

## D2RDS Cics/db2 resource statistics

CONTROL BLOCK NAME = DFHD2RDS  
 DESCRIPTIVE NAME = CICS DB2 Resource statistics  
 FUNCTION =  
 This dsect describes the CICS/DB2 statistics provided by the CICS/DB2 Attachment facility.  
 A single record will be built to respond to a request for DB2ENTRY statistics.  
 LIFETIME =  
 The statistics record is created when a resource statistics request is received. Storage for the data block is released when the user task is detached.  
 STORAGE CLASS =  
 LOCATION =  
 The user is passed a pointer to the head of the storage block.  
 INNER CONTROL BLOCKS = none  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Domain call buffer  
 EXTERNAL REFERENCES = none  
 DATA AREAS = none  
 CONTROL BLOCKS = from CICS/DB2 Attachment Facility  
 GLOBAL VARIABLES (Macro pass) = none  
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHD2RDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHD2RDS	CICS/DB2 Resource statistics
(0)	FULLWORD	4	(0)	fullword alignment
(0)	HALFWORD	2	D2RLEN	Length of data area
	.11. .111		D2RIDE	"0103"CICS/DB2 resource stats id mask
(2)	ADDRESS	2	D2RID	CICS/DB2 resource stats id
	.... ..1		D2RVERS	"X'01"Stats version number id mask
(4)	CHARACTER	1	D2RDVERS	Stats version number
(5)	CHARACTER	3		Filler
(8)	CHARACTER	8	D2R_DB2ENTRY_ NAME	name of the DB2ENTRY
(10)	CHARACTER	8	D2R_PLAN_NAME	static plan name if any
(18)	CHARACTER	8	D2R_PLANEXIT_ NAME	planexit name if any
(20)	CHARACTER	8	D2R_AUTHID	static authid if any
(28)	BITSTRING	1	D2R_AUTHTYPE	authtype if any
(29)	BITSTRING	1	D2R_ACCOUNTREC	Accountrec setting
(2A)	BITSTRING	1	D2R_THREADWAIT	Threadwait setting
(2B)	BITSTRING	1	D2R_PRIORITY	thread priority
(2C)	FULLWORD	4	D2R_CALLS	number of calls using db2entry
(30)	FULLWORD	4	D2R_SIGNONS	number of signons
(34)	FULLWORD	4	D2R_COMMITS	number of commits
(38)	FULLWORD	4	D2R_ABORTS	number of aborts
(3C)	FULLWORD	4	D2R_SINGLE_PHASE	number of single phase commits
(40)	FULLWORD	4	D2R_THREAD_REUSE	number of thread reuses
(44)	FULLWORD	4	D2R_THREAD_TERM	number of thread terminates
(48)	FULLWORD	4	D2R_THREAD_ WAIT_OR_OVERFL	number of thread waits or overflows
(4C)	FULLWORD	4	D2R_THREAD_LIMIT	maximum number of threads
(50)	FULLWORD	4	D2R_THREAD_ CURRENT	current number of threads
(54)	FULLWORD	4	D2R_THREAD_HWM	peak number of threads
(58)	FULLWORD	4	D2R_PTHREAD_ LIMIT	maximum number of protected threads
(5C)	FULLWORD	4	D2R_PTHREAD_ CURRENT	current number of protected threads
(60)	FULLWORD	4	D2R_PTHREAD_HWM	peak number of protected threads
(64)	FULLWORD	4	D2R_TASK_CURRENT	current number of tasks
(68)	FULLWORD	4	D2R_TASK_HWM	peak number of tasks
(6C)	FULLWORD	4	D2R_TASK_TOTAL	total number of tasks
(70)	FULLWORD	4	D2R_READYQ_ CURRENT	number of tasks on ready queue
(74)	FULLWORD	4	D2R_READYQ_HWM	peak number of tasks on ready queue
(78)	CHARACTER	36	D2R_END	reserved
	1..1 11..		D2R_LENGTH	""-D2RLEN"Length of dsect
	1..1 11..			
Equates to test D2R_AUTHTYPE				
	.... ..		D2R_AUTHTYPE_ NA	"0" Not applicable
	.... ..1		D2R_AUTHTYPE_ USERID	"1" Authtype(userid)
	.... ..1.		D2R_AUTHTYPE_ OPID	"2" Authtype(opid)
	.... ..11		D2R_AUTHTYPE_ GROUP	"3" Authtype(group)
	.... ..1..		D2R_AUTHTYPE_ SIGNID	"4" Authtype(signid)

Offset Hex	Type	Len	Name (Dim)	Description
....	.1.1		D2R_AUTHTYPE_TERM	"5" Authtype(term)
....	.11.		D2R_AUTHTYPE_TXID	"6" Authtype(txid)
Equates to test D2R_ACCOUNTREC				
....	...1		D2R_ACCOUNTREC_NONE	"1" Accountrec(none)
....	.1.		D2R_ACCOUNTREC_TXID	"2" Accountrec(txid)
....	.11		D2R_ACCOUNTREC_TASK	"3" Accountrec(task)
....	.1..		D2R_ACCOUNTREC_UOW	"4" Accountrec(uow)
Equates to test D2R_THREADWAIT				
....	...1		D2R_THREADWAIT_YES	"1" Threadwait(yes)
....	.1.		D2R_THREADWAIT_NO	"2" Threadwait(no)
....	.11		D2R_THREADWAIT_POOL	"3" Threadwait(pool)
Equates to test D2R_PRIORITY				
....	...1		D2R_PRIORITY_HIGH	"1" Priority(high)
....	.1.		D2R_PRIORITY_EQUAL	"2" Priority(equal)
....	.11		D2R_PRIORITY_LOW	"3" Priority(low)

## ECA Event control area

CONTROL BLOCK NAME = DFHECAPS  
 DESCRIPTIVE NAME = CICS Event Control Area  
 FUNCTION =  
 The Event Control Area is used by interval control (DFHICP).  
 The ECA is obtained for a POST type ICE.  
 It contains the ECB. The ECA's are getmained from a subpool called APECA which resides below the line and has USER access. The ICETECAA field will contain the address of the ECA associated with an ICE. If there is no ECA for the ICE then ICETECAA is zero. Inline DFHSMGF1 calls are made to get and free ECAs.  
 LIFETIME =  
 The control block is created with a POST type ICE.  
 The ECA is freed when the assoiated ICE is freed.  
 STORAGE CLASS =  
 The storage class is APECA.  
 LOCATION =  
 To locate an ECA use the ICETECAA field which contains the address of the ECA associated with the ICE. If the ICETECAA field equals zero then there is no ECA.  
 INNER CONTROL BLOCKS = none  
 NOTES :  
 DEPENDENCIES = none  
 RESTRICTIONS =  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = none  
 DATA AREAS = none  
 CONTROL BLOCKS = none  
 GLOBAL VARIABLES (Macro pass) = none

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	DFHECAPS	
(0)	UNSIGNED	4	ECATECB	Event Control Area

## Constants

Len	Type	Value	Name	Description
4	DECIMAL	4	ECA_LENGTH	Length ECA
4	HEX	40008000	ECA_POSTBIT	Post bits

## EDF EDF communication area

CONTROL BLOCK NAME = DFHEDFDS  
DESCRIPTIVE NAME = CICS EDF Debug Linkage Area  
FUNCTION =  
This DSECT describes the user task data that is used by EDF to display the status information, etc.  
It is obtained in DFHEDFX for each EDF call. It is then filled with data describing the user transaction state.  
It is passed to the EDF task as an ATTACH parm, and is used by the attached EDF task. The storage is freed in DFHEDFX when the user task is resumed.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHEDFDS	
(0)	FULLWORD	4	EDFUEIA	TCTTE EXEC INTERFACE ADDR
(4)	FULLWORD	4	EDFUTCA	ADDRESS OF USER'S TCA
(8)	FULLWORD	4	EDFUR1	ADDRESS OF USER PARM LIST
(C)	FULLWORD	4	EDFUEISP	ADDRESS OF USER'S EIS
(10)	FULLWORD	4	EDFUEIBP	ADDRESS OF USER'S EIB EDF TASK MANAGEMENT INFO
(14)	BITSTRING	1	EDFXA	TASK SWITCH ATTRIBUTE
			EDFLINK	"X'FF" CEDF ATTACHED TO LINK EDFD
			EDFSTRT	"X'FE" CEDF ATTACHED TO START CEDF DEBUG MODE INFO
(15)	BITSTRING	1	EDFCTL1	COPY OF EISEDFDM REQUEST BYTE INFO
(16)	BITSTRING	1	EDFCTL2	COPY OF EISEDFRB EDF CONTROL INFO
(17)	BITSTRING	1	EDFCTL3	EDF CONTROL BITS
			EDFOUTD	"X'80" DISP=OUT FOR PAGE BUILD
			EDFDBCNT	"X'40" EDF DEBUG MODE CONTINUES
			EDFIVPS	"X'20" INVALID PAGE SIZE
			EDFUTPG	"X'10" USER TASK HAS BEEN PURGED
			EDFPAGD	"X'08" DISP=PAGING FOR BMS
			EDFDTMOK	"X'04" EDFD TERMINATED CORRECTLY
			EDFSECV	"X'02" SECURITY VIOLATION
(18)	BITSTRING	1	EDFCTL4	USER LANGUAGE INFO
(19)	BITSTRING	1	EDFTOS	BIT PATTERN=OUT OF SERVICE
			EDFNIS	"X'02" TERMERR RECEIVED
(1A)	BITSTRING	1	EDFUTRTO	Terminal read time out value
(1B)	CHARACTER	1	EDFOPSYS	OPERATING SYS FROM CSAOPSYS
(1C)	FULLWORD	4	EDFUASTG	ADDRESS OF USER'S AUTO STG
(20)	FULLWORD	4	EDFURE	USER'S RETURN REGISTER
(24)	FULLWORD	4	EDFUCDB	USER'S CODE BASE
(28)	CHARACTER	8	EDFPGMID	USER'S PROGRAM NAME
(30)	BITSTRING	1	EDFENV	Current Environment
			EDFURM	"X'80" URM
(31)	BITSTRING	2		Reserved FILE CONTROL INFO
(33)	BITSTRING	1	EDFFCRF	FILE CONTROL RECORD FORMAT
			EDFFCF	"X'80" FC FIXED FORMAT
			EDFFCV	"X'40" FC VARYING FORMAT
			EDFBDAM	"X'20" FC ACCESS METHOD=BDAM
			EDFVSAM	"X'10" FC ACCESS METHOD=VSAM
			EDFISAM	"X'08" FC ACCESS METHOD=ISAM
(34)	HALFWORD	2	EDFFCRL	FILE CONTROL RECORD LENGTH
(36)	BITSTRING	1	EDFFCKL	FILE CONTROL KEY LENGTH
(37)	BITSTRING	1	EDFUTCTR	User's send/receive flags
(38)	FULLWORD	4	EDFABRA	ADDRESS of EDF ABEND info
(3C)	FULLWORD	4	EDFUACP	ADDR OF USER ABCODE SLOT
(40)	FULLWORD	4	EDFACP	ADDR OF EDF ABCODE SLOT
(44)	FULLWORD	4	EDFURSAP	ADDRESS OF USER REGISTERS
(48)	FULLWORD	4	EDFPLBA	PARTITION LOWER BOUND ADDR
(4C)	FULLWORD	4	EDFPUBA	PARTITION UPPER BOUND ADDR
(50)	FULLWORD	4	EDFUTCTA	USER'S TCTTE ADDRESS
(54)	CHARACTER	4	EDFUQTD	USER'S TERMD/TRANID
(58)	FULLWORD	4	EDFUARSA	ADDR OF USER RSA
(5C)	HALFWORD	2		RESERVED
(5E)	HALFWORD	2	EDFCALEN	USER'S EIBCALEN
(60)	FULLWORD	4	EDFCOMAA	USER'S COMMAREA ADDR
(64)	FULLWORD	4	EDFUTEDA	COPY OF TCTTEDA AS SET FOR APPLICATION REQUESTS
(68)	FULLWORD	4	EDFUEIEX	COPY OF TCTEEIEX AS SET FOR APPLICATION REQUESTS
(6C)	FULLWORD	4	EDFPGLMN	PROGRAM LENGTH
(70)	FULLWORD	4	EDFTSADR	TERM. STATUS FIELD ADDR
(74)	FULLWORD	4	EDFMSA	MODULE START ADDRESS



Offset Hex	Type	Len	Name (Dim)	Description
(78)	FULLWORD	4	EDFUR1SA	ADDRESS OF EISEIPR1 (USED AND SET BY DFHEDFCC)
(7C)	FULLWORD	4	EDFUEILR	COPY OF TCTEEILR AS SET FOR APPLICATION REQUESTS
(80)	FULLWORD	4		Reserved
(84)	CHARACTER	4	EDFSYST	sysid from which remote DPL abend was received
(88)	FULLWORD	4	EDF_USRTASK_ SUSPTOK	User task suspend token
(8C)	FULLWORD	4	EDFSECCL	Security switch routine
(90)	ADDRESS	4	EDF_APPL_ STATIC_STG_PTR	User program's static storage
(94)	ADDRESS	4	EDF_APPL_ STATIC_STG_LEN	User's static storage length
(98)	CHARACTER	8	EDFPSW	PSW
(A0)	CHARACTER	8	EDFINT	INTERRUPT INFORMATION
(A8)	CHARACTER	2	EDFUEIDL	COPY OF TCTEEIDL AS SET FOR APPLICATION REQUESTS
(AA)	BITSTRING	1	EDFUOPT2	SAVE TCTEOPT2
(AB)	BITSTRING	1	EDFUJSA	Save TCTEJSA
(AC)	FULLWORD	4	EDFWSLN	LENGTH OF WORKING STORAGE
(B0)	FULLWORD	4	EDFUTXNO	User task's transaction number
(B4)	FULLWORD	4	EDFERMSA	NEW ERM EDF INTERFACE
(B8)	FULLWORD	4	EDFSITOD	IPL TIME OF DAY IN SECONDS
(BC)	CHARACTER	4	EDFUTXID	User's transaction id
(C0)	BITSTRING	1	EDFCTL5	FLAG BYTE INDICATING NEW ERM IFC
			.... .1..	EDFSTKCM
(C1)	BITSTRING	1	EDFCTL6	"X'04" Command from user exit
			1... ....	EDFRABND
			.1.. ....	EDFRPEND
(C2)	CHARACTER	2		flag byte
(C4)	FULLWORD	4	EDFTCAAD	"X'80" DPL remote abend indicator
(C8)	FULLWORD	4	(0)	"X'40" User task suspended, pending RESUME
(C8)	CHARACTER	64	EDFREGS (0)	RESERVED FOR FUTURE USE
(C8)	FULLWORD	4	(16)	1st EDF Task's TCA address
				GP registers 0-15 at abend

The DLA\_USAGE fields are flags to identify those tasks which have need of the Debug Linkage Area. The DLA can only be freed when all of the tasks have relinquished ownership.

(108)	CHARACTER	8	EDF_DLA_USAGE (0)	Area controlling DLA
(108)		4	EDF_DLA_ USER_TASK_USE	Task running DFHEDFX
(10C)		4	EDF_DLA_ CEDF_TASK_USE	CEDF running EDFP/EDFD
(10C)			EDFDSLEN	"-DFHEDFDS" LENGTH OF DFHEDFDS

**EIB EXEC interface block**

CONTROL BLOCK NAME = DFHEIBLK  
 DESCRIPTIVE NAME = CICS EXEC Interface Block.  
 FUNCTION = EXEC Interface Block.

The exec interface block contains information on the transaction identifier, the time and date, and the cursor position on a display device. Some of the other fields are set indicating the next action that a program should take in certain circumstances.

DFHEIBLK also contains information that will be helpful when a dump is being used to debug a program.

This control block is included automatically by an application program using the command-level interface. EISEIBA in the EIS addresses the EIB.

## NOTES :

DEPENDENCIES = S/370

MODULE TYPE = Control block definition  
 EXEC INTERFACE BLOCK

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHEIBLK	EXEC INTERFACE BLOCK
(0)		4	EIBTIME	TIME IN 0HHMMSS FORMAT
(4)		4	EIBDATE	DATE IN 0CYYDDD+ FORMAT, where C is the century indicator (0=1900, 1=2000), YY is the year, DDD is the day number and '+' is the sign byte (positive)
(8)	CHARACTER	4	EIBTRNID	TRANSACTION IDENTIFIER
(C)		4	EIBTASKN	TASK NUMBER
(10)	CHARACTER	4	EIBTRMID	TERMINAL IDENTIFIER
(14)	HALFWORD	2	EIBRSVD1	RESERVED
(16)	HALFWORD	2	EIBCPOSN	CURSOR POSITION
(18)	HALFWORD	2	EIBCALEN	COMMAREA LENGTH
(1A)	CHARACTER	1	EIBAID	ATTENTION IDENTIFIER
(1B)	CHARACTER	2	EIBFN	FUNCTION CODE
(1D)	CHARACTER	6	EIBRCODE	RESPONSE CODE
(23)	CHARACTER	8	EIBDS	DATASET NAME
(2B)	CHARACTER	8	EIBREQID	REQUEST IDENTIFIER
(33)	CHARACTER	8	EIBRSRCE	RESOURCE NAME
(3B)	CHARACTER	1	EIBSYNC	X'FF' SYNCPOINT REQUESTED
(3C)	CHARACTER	1	EIBFREE	X'FF' FREE REQUESTED
(3D)	CHARACTER	1	EIBRECV	X'FF' RECEIVE REQUIRED
(3E)	CHARACTER	1	EIBSEND	RESERVED
(3F)	CHARACTER	1	EIBATT	X'FF' ATTACH RECEIVED
(40)	CHARACTER	1	EIBEOC	X'FF' EOC RECEIVED
(41)	CHARACTER	1	EIBFMH	X'FF' FMHS RECEIVED
(42)	CHARACTER	1	EIBCOMPL	X'FF' DATA COMPLETE
(43)	CHARACTER	1	EIBSIG	X'FF' SIGNAL RECEIVED
(44)	CHARACTER	1	EIBCONF	X'FF' CONFIRM REQUESTED
(45)	CHARACTER	1	EIBERR	X'FF' ERROR RECEIVED
(46)	CHARACTER	4	EIBERRCD	ERROR CODE RECEIVED
(4A)	CHARACTER	1	EIBSYNRB	X'FF' SYNC ROLLBACK REQ'D
(4B)	CHARACTER	1	EIBNODAT	X'FF' NO APPL DATA RECEIVED
(4C)	FULLWORD	4	EIBRESP	INTERNAL CONDITION NUMBER
(50)	FULLWORD	4	EIBRESP2	MORE DETAILS ON SOME RESPONSES
(54)	CHARACTER	1	EIBRLDBK	ROLLED BACK
.1.1 .1.1			EIBLENG	"-EIBTIME" Length of EIB

END OF EXEC INTERFACE BLOCK

## EIC EXEC interface communications area

CONTROL BLOCK NAME = DFHEICPS  
 DESCRIPTIVE NAME = CICS EXEC Interface Communications Area.  
 FUNCTION = This DSECT describes the CLASS=SHARED storage which  
 is used to pass the COMMAREA from one command-level  
 transaction to another using an  
 EXEC CICS RETURN TRANSID(..) COMMAREA(..) LENGTH(..)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	DFHEICDS	
(0)	CHARACTER	16	EIC	
(0)	CHARACTER	16	EICBEG	
(0)	ADDRESS	4	EIC_COMMAREA_ ADDRESS	
(4)	UNSIGNED	1	EIC_SUBPOOL	A(EICBDA) COMMAREA SUBPOOL INDICATOR
(5)	UNSIGNED	3	*	RESERVED
(8)	ADDRESS	4	*	RESERVED
(C)	HALFWORD	2	EICLL	COMMAREA LENGTH
(E)	HALFWORD	2	EICBB	RESERVED (MVS)
(10)	CHARACTER		EICDBA	COMMAREA DATA

### Constants

Len	Type	Value	Name	Description
1	DECIMAL	1	EIC_APCOMM31	APCOMM31 CICS KEY SUBPOOL

## EICD1 Language definition table

MODULE NAME = DFHEICD1 COPY  
 DESCRIPTIVE NAME = CICS language definition (LD) table structure definiton.  
 This COPY module is edited by the EXEC that compiles PLI programs also requiring the LD table structure definition.  
 FUNCTION =  
 Declarations relating to language definition table (LD table).  
 The declarations below define the mapping of the contents of the language definition table.  
 The declarations are used by both the translator itself and the table compilation utility program DFHUTG.  
 TABROOT is the root of the LD table and gives addressability to all its components and their sizes.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	136	XTABROOT	The following entries are in pairs consisting of (Pointer, No. of entries)
(0)	ADDRESS	4	TABXPTR	
(4)	FULLWORD	4	NTABS	Table entries
(8)	ADDRESS	4	STTXPTR	
(C)	FULLWORD	4	NSTTS	Standard text - VBPA
(10)	ADDRESS	4	CTLXPTR	
(14)	FULLWORD	4	NCTL	Controls - VBPA
(18)	ADDRESS	4	KEEXPTR	
(1C)	FULLWORD	4	NKEYS	Keyword information *
(20)	ADDRESS	4	VBXPTR	
(24)	FULLWORD	4	NVBPS	Verb parms
(28)	ADDRESS	4	KEPXPTR	
(2C)	FULLWORD	4	NKEPS	Keyword parms
(30)	ADDRESS	4	SYNXPTR	
(34)	FULLWORD	4	NSYNS	Syntax tree
(38)	ADDRESS	4	SPAXPTR	
(3C)	FULLWORD	4	TSYNS	Reserved
(40)	ADDRESS	4	NAMXPTR	
(44)	FULLWORD	4	LNAME	Table name
(48)	ADDRESS	4	AIBXPTR	
(4C)	FULLWORD	4	NAIBS	IB format (EIB,DIB) *
(50)	ADDRESS	4	CODXPTR	
(54)	FULLWORD	4	NCODS	Address of code gen *
(58)	ADDRESS	4	BIFXPTR	Address of first BIF *
(5C)	CHARACTER	4	COMPATF	Compatibility flags *
(5C)	CHARACTER		COMPATF0	To suit DFHUI
			COMPNEWF	Extra fields in hdr *
			COMPKPAR	New style kwd parms *
			COMPBIF	BIF's present
(5C)	BITSTRING	3	*	Guaranteed zero now *
(60)	ADDRESS	4	*	
(64)	FULLWORD	4	LA0	Length of ARG0 *
(68)	ADDRESS	4	*	Reserved
(6C)	FULLWORD	4	NBYTES	Table End and size *
(70)	ADDRESS	4	KKKXPTR	New style kwd parms * (NKEPS of them)
(74)	ADDRESS	4	*	Reserved *
(78)	ADDRESS	4	*	Reserved *
(7C)	ADDRESS	4	*	Reserved *
(80)	ADDRESS	4	*	Reserved *
(84)	ADDRESS	4	*	Reserved *

Table Entry: Describes the syntax and code generation parameters for one HLPI statement ( One VERB/ADVERB combination.)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	TABINFO	
(0)	BITSTRING	1	TABFLAGS	Verb flags
(1)	UNSIGNED	1	TABVB	Index in XKERAY of Verb
(2)	UNSIGNED	1	TABADVB	Index in XKERAY of Adverb
(3)	CHARACTER	3	TABOPND	Syntax of STMT :
(3)	BITSTRING	1	TABOPFLG	See operand
(4)	HALFWORD	2	TABOP	declaration

Offset Hex	Type	Len	Name (Dim)	Description
Verb parameters for code generation. E.G. TABPA(1)=Entry name TABPA(2)=Function code See declaration of PARITEM for Verb parameter string				
(6)	UNSIGNED	1	TABPA (2)	Index in XVBPA
(8)	CHARACTER		TABEND	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	1	*	
	1111 ....		VBADVIDX	must not be affected
	.... 1...		SECNDTAB	Indicates indirection
	.... .1..		SAMEVERB	Rescan second TAB using same atom
	.... .1..		USEEITBS	Rescan DFHEITBS using same atom
	.... ...1		*	Reserved

Standard text:  
 This is to be included at the head of every preprocessed program by module DFHEIM10.  
 The number of lines of standard text is NSTTS

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	71	XSTT1	First standard text line
(0)	CHARACTER	1	*	Filler - Always blank
(1)	CHARACTER	62	STT1	Text to be inserted into program
(3F)	CHARACTER	8	STTC	Language indicators

XKERAY: Table of keyword names and keyword parameters.  
 This array is indexed by terminal nodes in syntax tree.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	22	XKERAY (256)	
(0)	CHARACTER	12	KEYWORDA	
(C)	CHARACTER	10	*	Dependant on XKEITEM size *

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	22	XKEITEM	
(0)	CHARACTER	12	KEYWORD	Keyword name
(C)	CHARACTER	1	KEFLG1	Collection of flags
	1... ....		KEREPEAT	Keyword may be repeated
	.1.. ....		KEARGOM	ARGLIST may be omitted entirely
	..1. ....		KEARGSH	ARGLIST may be shortened
	...1 ....		KEARGNU	Any ARGS may be null
	.... 1...		KEARGFI	First argument mandatory
	.... .1..		KEQUIV	KEP(1) gives equivalent text
	.... ..1.		KESECND	Second keyword of a double
	.... ...1		KETIME	Time type of argument
(D)	CHARACTER	1	KEBITS	Keyword flags
	111. ....		KEPNUM	KEP numeric, not index in XKEPA
	...1 ....		KECOMM	Keyword valid for any command
	.... 1...		KEDEFT	Keyword is a default
	.... .1..		KEARGSYN	Keyword arguments -KEDTYP,KEDTYPL and KEP(1) are a syntax operand
	.... ..1.		KERELSYN	Relax syntax constraint *
	.... ...1		*	Reserved
(E)	BITSTRING	1	KEFLAGS	Set by flag option on keyword

input. See overlay below.

(F)	CHARACTER	1	KETYPE	
	1... ....		KEREF	ARGS all references
	.1.. ....		KEID	ARGS all identifiers
	..1. ....		KECONST	ARGS constants - Use also KEDTYP
	...1 1...		KEADIM	Dimensionality (00 means Scalar)
	.... .1..		KEUSED	'USES' Context
	.... ..1.		KESET	'SETS' Context
	.... ...1		KENAME	Add quotes if identifier. Note: KEDTYP may imply more
(10)	UNSIGNED	1	KENARG	max number of arguments *
(11)	BITSTRING	1	KEDTYP	Data type - KEDTYP=0 means dont care BIT1 Arithmetic BIT2 String BIT1=0 and BIT2=0 Other BIT3 0-Binary 1-Decimal BIT3 0-Bit 1-Char BIT4 0-Fixed 1-Float

Offset Hex	Type	Len	Name (Dim)	Description
(12)	UNSIGNED	1	KEDTYPL	Length of datatype
(13)	UNSIGNED	1	KEP (3)	KEYQUIV1 or code gen parameters *
(16)	CHARACTER		KEEND	End of KEINFO
Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	1	*	
	1... ..		KEHEX	Display in hexadecimal (EDF)
	.1.. ..		KELIST	Argument may be a list (MT)
	..1. ....		KETUNOFF	T#BITNUM bit to be turned off, not on
	...1 ....		KE2BIT	KEP(3) is another bit to be turned on. This bit off means KEP(3) is default arg text.
	.... 1...		KEINQO	Only valid with inquire (MT)
	.... .1..		KESETO	Only valid with set (MT)
	.... ..1.		KEARGMAN	Mandatory argument
	.... ...1		KEDUMMY	Dummy keyword
Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	XKEITEM1	Overlay of XKEITEM
(0)	CHARACTER	12	KEYWORD1	Keyword name
(C)	BITSTRING	4	KEFLGS	Keyword flags
Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	100	PARITEM	
(0)	UNSIGNED	1	PALEN	Length of PARM, excl this byte
(1)	CHARACTER	99	PARM	Text of PARM

This section describes the structure of BIF entries defined  
Because they are variable size they are chained together via  
the BIFNEXT field. The anchor of the chain is BIFXPTR in the  
header to this table.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	17021	BIFENTRY	
(0)	CHARACTER	12	BIFNAME	'DFHDATASET', etc.
(C)	BITSTRING	1	BIFFLAGS	Reserved *
(D)	ADDRESS	4	BIFNEXT	0 for last in chain *
(11)	FULLWORD	4	BIFNEQUS	Number of CVDA'S
(15)	CHARACTER	17	BIFEQUSA (1000)	ACTUALLY BIFNEQUS XTENT *
(15)	CHARACTER	12	BIFARG	'ENABLED', etc.
(21)	FULLWORD	4	BIFCVDA	128,129, etc.
(25)	BITSTRING	1	BIFCVDFL	Reserved *

XSYNTAX: Format of each node in the XSYNTAX structure is  
given by the SY structure below.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	7	SY	A node in the syntax tree
(0)	CHARACTER	1	OPCODE	'I' (Or) 'J' (Join) 'R' (Repeat) - Unary OP
(1)	CHARACTER	3	OPERAND1	First arm of the node
(1)	CHARACTER	1	OP1FLG	OPERAND1 Flags
	1... ..		OP1SYNI	OPERAND1 is offset in XSYNTAX
	.1.. ..		OP1KE	OPERAND1 is index in XKERAY
	..1. ....		OP1NULL	OPERAND1 is null
	...1 ....		OP1OPL	OPERAND1 is optional
	.... 1...		OP1PAREN	OPERAND1 is parenthesized
	.... .111		*	Reserved
(2)	HALFWORD	2	OP1	Operand 1
(4)	CHARACTER	3	OPERAND2	Secodn arm of the node
(4)	CHARACTER	1	OP2FLG	OPERAND2 flags
	1... ..		OP2SYNI	OPERAND2 is offset in XSYNTAX
	.1.. ..		OP2KE	OPERAND2 is index in XKERAY
	..1. ....		OP2NULL	OPERAND2 is null
	...1 ....		OP2OPL	OPERAND2 is optional
	.... 1...		OP2PAREN	OPERAND2 is parenthesized
	.... .111		*	RESERVED

Offset Hex	Type	Len	Name (Dim)	Description
(5)	HALFWORD	2	OP2	Operand 2

  

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	7	SY1	Overlay of SY
(0)	CHARACTER	1	OPCODE1	See OPCODE
(1)	BITSTRING	1	OP1FLAGS	See OP1FLG
(2)	HALFWORD	2	OP11	See OP1
(4)	BITSTRING	1	OP2FLAGS	See OP2FLG
(5)	HALFWORD	2	OP21	See OP2

  

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	3	OPERAND	General purpose operand, i.e. overlays OPERAND1 or OPERAND2
(0)	CHARACTER	1	OPFLG	Operand flags
	1... ..		OPSYNI	OP is an index into the syntax tree *
	.1.. ..		OPKE	OP is an index into the keywords array *
	..1. ....		OPNULL	Indicates a null operand
	...1 ....		OPOPL	Indicates an optional operand
	.... 1...		OPPAREN	Indicates a parenthesized operand
	.... .111		*	Filler - See OPERAND1 or OPERAND2
(1)	HALFWORD	2	OP	An index

  

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	XCOMROOT	
(0)	ADDRESS	4	COMXPTR	
(4)	FULLWORD	4	NUMCMD5	Commands
(8)	ADDRESS	4	KEYXPTR	
(C)	FULLWORD	4	NUMKYS	arguments/keywords

  

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	6	COMINFO	
(0)	CHARACTER	2	COMFN	Function code
(2)	UNSIGNED	1	COMARG0LN	Length of arg0 - may be 0
(3)	UNSIGNED	1	COMKEYS	Number of keywords
(4)	HALFWORD	2	COMIND	index of first
(6)	CHARACTER		COMEND	

Table Entry: Describes one command for ICCFCTAB

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	52	DTCINFO	
(0)	CHARACTER	24	DTCARG0	Arg0
(18)	HALFWORD	2	DTCKEYS	Number of keywords
(1A)	HALFWORD	2	DTCIND	index of first
(1C)	CHARACTER	12	DTCVERB	
(28)	CHARACTER	12	DTCADVB	
(34)	CHARACTER		DTCEND	

  

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	15	KEYITEM	
(0)	UNSIGNED	1	KEYCODE	Type of keyword - see the code
(1)	UNSIGNED	1	KEYBIT1	bit to test
(2)	UNSIGNED	1	KEYBIT2	bit to test
(3)	UNSIGNED	1	KEYARG	argument number
(4)	UNSIGNED	1	KEYARGL	Length of datatype
(5)	BITSTRING	1	KEYDTYP	Data type - KEYDTYP=0 means dont care BIT1 Arithmetic BIT2 String BIT1=0 and BIT2=0 Other BIT3 0-Binary 1-Decimal BIT3 0-Bit 1-Char BIT4 0-Fixed 1-Float
(6)	CHARACTER	9	KEYEND1	End of KEYITEM for DFHEITTR
(F)	CHARACTER		KEYEND2	End of KEYITEM for DFHEITT1

  

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	KEYITEMO	
(0)	FULLWORD	4	KEYARGO	Arg offset

Offset Hex	Type	Len	Name (Dim)	Description
(4)	FULLWORD	4	KEYWORDO	Word offset
(8)	BITSTRING	4	KEYBITM	Bit mask
(C)	CHARACTER		KEYENDO	End of KEYITEM for DFHEITHG

  

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	24	KEYDTC	
(0)	HALFWORD	2	KEYNUMD	Number
(2)	CHARACTER	22	KEYSAVED	data
(2)	CHARACTER	12	KEYWORDD	
(E)	CHARACTER	10	KEYDATAD	
(18)	CHARACTER		KEYENDD	End of KEYITEM for ICCFCTAB

### Constants

Len	Type	Value	Name	Description
1	DECIMAL	255	STOPPER	

## EIPDS Command level interface dsects

CONTROL BLOCK NAME = DFHEIPDS  
 DESCRIPTIVE NAME = CICS COMMAND LEVEL INTERFACE DSECTS  
 FUNCTION = This copybook contains the DSECTS used by all of the separate parts of the EXEC interface.  
 These are the DSECTS used by all of the separate parts of the EXEC interface.  
 Handle condition and handle aid label table DSECTS.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			EIL	HANDLE CONDITION LABEL TABLE
(0)	ADDRESS	4	EILBEG (0)	A(1ST LABEL ENTRY IN TABLE)
(0)	ADDRESS	4	EILFCHNP	A(next free label table)
(4)	HALFWORD	2	EILLEN	LENGTH OF LABEL TABLE
(6)	BITSTRING	1	EILINDEX	INDEX TO LABEL ENTRIES

  

Offset Hex	Type	Len	Name (Dim)	Description
(0)			EILLAB	LABEL ENTRY
(0)	BITSTRING	1	EILLAB1F	FLAG BYTE 1
	1111 1111		EILL1ON	"X'FF" .. ON
	1... ..		EILL1SA	"X'80" .. SYSTEM ACTION
	.1.. ..		EILL1IG	"X'40" .. IGNORE
(1)	BITSTRING	1	EILLAB2F	FLAG BYTE 2
	.... .1..		EILL2COB	"EISCOBOL" .. COBOL PROGRAM
	.... ..1.		EILL2PLI	"EISPLI" .. PLI PROGRAM
	.... 1..		EILL2ASM	"EISASM" .. ASSEMBLER PROGRAM
(2)	BITSTRING	1	EILLABPM	PROGRAM MASK FOR MVS/811
(3)	BITSTRING	1	EIL_CONDITION_EXECKEY	Instantaneous execution key when Handle_Condition_Label executed .. first 4 bits only
(4)	FULLWORD	4	EILLAB1	4 BYTES FOR ASM,COBOL,RPG
(8)	FULLWORD	4	EILLAB2	8 BYTES FOR PL/I
	.... 11..		EILLEN	"*-EILLAB" TABLE ENTRY LENGTH

REGISTER SAVE AREA DSECT FOR COBOL HANDLE

Offset Hex	Type	Len	Name (Dim)	Description
(0)			EIR	COBOL HANDLE CONDITION RSA
(0)	ADDRESS	4	EIRBEG (0)	START OF DATA
(0)	CHARACTER	60	EIR14	REGS 14 THRU 12
(3C)	ADDRESS	4	EIR13	REG 13
(40)	BITSTRING	1	EIREND (0)	



This DSECT describes the storage which is used to pass the COMMAREA from one command-level transaction to another using an EXEC CICS RETURN TRANSID(..) COMMAREA(..) LENGTH(..)

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHEICDS	COMMAREA STORAGE DSECT
(0)	BITSTRING	1	EIC (0)	
(0)	BITSTRING	1	EICBEG (0)	START OF DATA
(0)	FULLWORD	4	EIC_COMMAREA_ ADDRESS	
(4)	BITSTRING	1	EIC_SUBPOOL	A(EICBDA)
	.... ..1		EIC_APCOMM31	COMMAREA SUBPOOL FLAG "1" APCOMM31 CICS KEY SUBPOOL
(5)	BITSTRING	3		RESERVED
(8)	FULLWORD	4		RESERVED
(C)	HALFWORD	2	EICLL	COMMAREA LENGTH
(E)	HALFWORD	2	EICBB	RESERVED (MVS)
(10)	BITSTRING	1	EICDBA (0)	COMMAREA DATA

Data interchange DSECT used to pass information from user to DIP in the format required by DIP

Offset Hex	Type	Len	Name (Dim)	Description
(0)			EII	DATA INTERCHANGE DSECT
(0)	FULLWORD	4	(2)	STORAGE ACCOUNTING
(8)	BITSTRING	1	EIIBEG (0)	START OF DATA
(8)	BITSTRING	1	EIIDESL	DESTIDLENG
(9)	CHARACTER	8	EIIDES	DESTID
(11)	BITSTRING	1	EIIVOLL	VOLUMELENG
(12)	CHARACTER	6	EIIVOL	VOLUME
(18)	BITSTRING	1	EIIKEYL	KEYLENGTH
(19)	CHARACTER	64	EIIKEY	RIDFLD
(59)	BITSTRING	1	EIIEND (0)	

Arg list DSECT overlays the argument list from the application

Offset Hex	Type	Len	Name (Dim)	Description
(0)			EIA	EXEC ARGUMENT LIST DSECT
(0)	ADDRESS	4	EIAARG0	ARGUMENT 0
(4)	ADDRESS	4	EIAARG1	1
(8)	ADDRESS	4	EIAARG2	2
(C)	ADDRESS	4	EIAARG3	3
(10)	ADDRESS	4	EIAARG4	4
(14)	ADDRESS	4	EIAARG5	5
(18)	ADDRESS	4	EIAARG6	6
(1C)	ADDRESS	4	EIAARG7	7
(20)	ADDRESS	4	EIAARG8	8
(24)	ADDRESS	4	EIAARG9	9
(28)	ADDRESS	4	EIAARG10	10
(2C)	ADDRESS	4	EIAARG11	11
(30)	ADDRESS	4	EIAARG12	12
(34)	ADDRESS	4	EIAARG13	13
(38)	ADDRESS	4	EIAARG14	14
(3C)	ADDRESS	4	EIAARG15	15
(40)	ADDRESS	4	EIAARG16	16

DSECT representing items pushed by EXEC CICS PUSH  
 Chain of these is anchored at EISPUSTK

Offset Hex	Type	Len	Name (Dim)	Description
(0)			EIU	, STACK FOR EXEC CICS PUSH
(0)	ADDRESS	4	EIUCHAIN	CHAIN TO PREVIOUS EIU
(4)	FULLWORD	4	EIUERTAB	STACKED EISERTAB
(8)	FULLWORD	4	EIUKYTAB	STACKED EISKYTAB

Offset Hex	Type	Len	Name (Dim)	Description
(C)	FULLWORD	4	EIUSXRSA	STACKED EISSXRSA
(10)	FULLWORD	4	EIUSXD	STACKED EISSXD
(14)	FULLWORD	4	EIUSXDI	STACKED EISSDI
(18)	FULLWORD	4	EIUPCXRA	STACKED TCAPCXRA
(1C)	BITSTRING	1	EIUPCAXI	STACKED TCAPCAXI
(1D)	BITSTRING	1	EIUFLAG6	STACKED EISFLAG6
(1E)	BITSTRING	1	EIUFLAG7	STACKED EISFLAG7
(1F)	BITSTRING	1	EIUXLANG	STACKED EISXLANG
(20)	BITSTRING	1	EIU_ABEND_EXECKEY	STACKED EIS_ABEND_EXECKEY
(21)	BITSTRING	1	(7)	Reserved
	..1. 1...		EIULEN	"*-EIUCHAIN"

ARG0 descriptor overlays argument 0 in the argument list from the application

Offset Hex	Type	Len	Name (Dim)	Description
(0)			EID	EXEC CICS ARGUMENT ZERO
(0)	CHARACTER	2	EIDFN (0)	FUNCTION GROUP AND FUNCTION
(0)	CHARACTER	1	EIDGROUP (0)	FUNCTION GROUP
	..1. .1..		EIDDLIGP	"X'44" EXEC DLI
	..1. .1..		EIDGDGP	"X'24" EXEC CICS GDS
	...1 .11.		EIDSPGP	"X'16" EXEC CICS SYNCPOINT & RESYNC
	.... .1..		EIDTCGP	"X'04" EXEC CICS TERMINAL CONTROL
	...1 1...		EIDBMSGP	"X'18" EXEC CICS BMS
	.... ....		EIDICGP	"X'10" EXEC CICS INTERVAL CONTROL
	.... ....		EIDRMGP	"X'00" RESOURCE MANAGER
(0)	CHARACTER	1	EIDOPT0	OPTION BYTE ZERO
(1)	CHARACTER	1	EIDFUNC (0)	FUNCTION
	.... ..1.		EIDDLIIN	"X'02" EXEC DLI INIT CALL
	.... ..1.		EIDSYNCP	"X'02" EXEC CICS SYNCPOINT
	.... ..1.		EIDRECV	"X'02" RECEIVE
	.... .11.		EIDCONV	"X'06" CONVERSE
	.... .1..		EIDSEND	"X'04" SEND
	.... .1..		EIDRECVMAP	"X'02" RECEIVE MAP
	.... .1..		EIDSENDMAP	"X'04" SEND MAP
	.... .11.		EIDSENDTEXT	"X'06" SEND TEXT
	.... 111.		EIDRECVPARTN	"X'0E" RECEIVE PARTN
	...1 .1..		EIDSENDCONTROL	"X'12" SEND CONTROL
	.... 1...		EIDSTART	"X'08" START
	.... 1.1.		EIDRETRIEVE	"X'0A" RETRIEVE
	.... 1...		EIDCANCEL	"X'08" CANCEL
	.... .1..		EIDRSYNC	"X'04" EXEC CICS RESYNC
	...1 .1..		EIDDISC	"X'14" ISSUE-DISCONNECT
	...1 1...		EIDEAU	"X'18" ISSUE-ERASEAUP
	...1 11..		EIDPRINT	"X'1C" ISSUE-PRINT
	..1. ....		EIDALLOC	"X'20" ALLOCATE
	..1. .1..		EIDFREE	"X'22" FREE
	1... ....		EIDPRVFN	"X'80" >=X'80' MEANS 'HIDDEN-ARGO-CALLS', ELSE DL/I-STYLE.
(1)	CHARACTER	1	EIDOPT1	OPTION BYTE 1
	.... .1..		EIDCOND	"X'04"
(2)	CHARACTER	3	EIDEXIST (0)	ARGUMENT EXISTENCE BITS
(2)	CHARACTER	1	EIDOPT2	OPTION BYTE 2
	..1. ....		EIDCOMM	"X'40" COMMAREA specified
	.... .1..		EIDDATA	"X'04" DATALENGTH specified
	.... ...1		EIDTRAN	"X'01" TRANSID specified

The following equates relate only to 'hidden arg0 calls', ie where EIDGROUP = X'00' and EIDFUNC >= X'80'.

	1... ....		EIDNCAL	"X'80" RM NOT TO BE CALLED
	..1. ....		EIDELUW	"X'40" LAST CALL IN LUW
	..1. ....		EIDRRMA	"X'20" RETURN (DON'T ABEND) IF RES-MGR NOT ACTIVE.
	...1 ....		EIDACAL	"X'10" ALL RM'S TO BE CALLED
	.... ..1.		EIDSOTR	"X'02" FIRST CALL IN TASK
	.... ...1		EIDEOTR	"X'01" LAST CALL IN TASK

End of hidden arg 0 call equates

(3)	CHARACTER	1	EIDOPT3	OPTION BYTE 3
(4)	CHARACTER	1	EIDOPT4	OPTION BYTE 4
	1... ....		EIDSYEIB	"X'80" TRANSLATED USING THE SYSEIB OPTION
	..1. ....		EIDNOEDF	"X'40" NOEDF
	..1. ....		EIDNOHAN	"X'20" NOHANDLE
(5)	CHARACTER	1	EIDOPT5	OPTION BYTE 5
	.... ...1		EIDSET	"X'01" SET
	.... ..1.		EIDNEXT	"X'02" NEXT
	.... .1..		EIDPSBKR	"X'02" PASSBK ON RECEIVE
	.... .1..		EIDMASSI	"X'04" MASSINSERT
	1... ....		EIDTOL31	"X'80" 31 BIT LENGTH IN TC ARG2
	..1. ....		EIDFML31	"X'40" 31 BIT LENGTH IN TC ARG4
	..1. ....		EIDMXL31	"X'20" 31 BIT LENGTH IN TC ARG9
	...1 ....		EIDNTRNC	"X'10" TC NOTRUNCATE OPTION

Offset Hex	Type	Len	Name (Dim)	Description
	1... ..		EIDTPN32	"X'80" TPNs > 32 chars are valid
	.1.. ..		EIDTROFF	"X'40" TRACE OFF
	...1 ..		EIDTRLST	"X'10" TRACE LIST
	... 1..		EIDTRSIN	"X'08" TRACE SINGLE
	... .1..		EIDTRSYS	"X'04" TRACE SYSTEM
	... ..1.		EIDTRUSE	"X'02" TRACE USER
	... ..1		EIDTRALL	"X'01" TRACE ALL
	... .1..		EIDMSDEF	"X'04" BMS DEFAULT
	... ..1.		EIDMSALT	"X'02" BMS ALTERNATE
(6)	CHARACTER	1	EIDOPT6	OPTION BYTE 6
	1... ..		EIDCONFM	"X'80" TC CONFIRM OPTION
	1... ..		EIDRBA	"X'80" RBA
	1... ..		EIDSYNC	"X'80" SYNCONRETURN specified
	1... ..		EIDRTST	"X'80" Routable START
	.1.. ..		EIDGENER	"X'40" GENERIC
	..1. ....		EIDGTEQ	"X'20" GTEQ
	.... ..1.		EIDPROT	"X'02" PROTECT
	.... ..1		EIDNOCHK	"X'01" NOCHECK
	.1.. ..		EIDTCDEF	"X'40" TC DEFAULT
	..1. ....		EIDTCALT	"X'20" TC ALTERNATE
(7)	CHARACTER	1	EIDOPT7	OPTION BYTE 7
	.... 1..		EIDSGST	"X'08" SEGSET
	.... .1..		EIDUPDT	"X'04" UPDATE
	.... .1..		EIDREWR	"X'04" REWRITE
	.... 1..		EIDITEM	"X'08" ITEM
	..1. ....		EIDICHDR	"X'20" IC HEADER
	...1 ....		EIDICPUT	"X'10" START WITH DATA
	...1 ....		EIDSHRD	"X'10" GETMAIN SHARED
	1... ..1.1		EIDTERM	"X'85" GETMAIN TERMINAL class
(8)	CHARACTER	8	EIDRMID (0)	RESOURCE MANAGER ID
(8)	CHARACTER	1	EIDOPT8	OPTION BYTE 8
	.... ....		EIDCANCL	"X'00" CANCEL (DEFAULT)
	.... ..1.		EIDLABEL	"X'02" LABEL
	.... ..1		EIDPROG	"X'01" PROGRAM
	.... ..1		EIDTCWRI	"X'01" TC SEND / CONVERSE
	.... .1..		EIDWT	"X'04" WAIT
(9)	CHARACTER	1	EIDOPT9	OPTION BYTE 9
	...1 ....		EIDRRN	"X'10" RRN
(A)	CHARACTER	1	EIDOPT10	OPTION BYTE 10
	11.. ....		EIDMAPO	"X'C0" MAPONLY
	1... ..		EIDBUF	"X'80" BUFFER
	... 1..		EIDWAIT	"X'08" WAIT
(B)	CHARACTER	1	EIDOPT11	OPTION BYTE 11
	.... .1..		EIDPSBKW	"X'04" PASSBK ON SEND
(C)	CHARACTER	1	EIDOPT12	OPTION BYTE 12
	...1 ....		EIDFMH	"X'10" FMH
	...1 ....		EIDRTAIN	"X'10" RETAIN
	.... 1..		EIDLAST	"X'08" LAST
	.... 1..		EIDRLSE	"X'08" RELEASE
(D)	CHARACTER	1	EIDOPT13	OPTION BYTE 13
(E)	CHARACTER	1	EIDOPT14	OPTION BYTE 14
	...1 ....		EIDSTRF	"X'10" STRUCTURED FIELD
	.... ..1.		EIDNVIT	"X'02" INVITE
(F)	CHARACTER	1	EIDOPT15	OPTION BYTE 15
(10)	CHARACTER	8	EIDLNNO (0)	LINE NUMBER
(10)	CHARACTER	1	EIDOPT16	OPTION BYTE 16
(11)	CHARACTER	1	EIDOPT17	OPTION BYTE 17
(12)	CHARACTER	1	EIDOPT18	OPTION BYTE 18
(13)	CHARACTER	1	EIDOPT19	OPTION BYTE 19
(14)	CHARACTER	1	EIDOPT20	OPTION BYTE 20
(15)	CHARACTER	1	EIDOPT21	OPTION BYTE 21
(16)	CHARACTER	1	EIDOPT22	OPTION BYTE 22
(17)	CHARACTER	1	EIDOPT23	OPTION BYTE 23
(18)	CHARACTER	1	EIDOPT24	OPTION BYTE 24
(19)	CHARACTER	1	EIDOPT25	OPTION BYTE 25
(1A)	CHARACTER	1	EIDOPT26	OPTION BYTE 26
(1B)	CHARACTER	1	EIDOPT27	OPTION BYTE 27

**EIS EXEC interface structure**

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHEISDS	

CONTROL BLOCK NAME = DFHEISDS  
 DESCRIPTIVE NAME = CICS EXEC Interface Structure.  
 FUNCTION =  
 This copybook describes the system part of the EXEC Interface storage (EIS). It does not contain a DSECT statement and it is normally invoked by DFHEIS. See this macro for reasons and details.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	HALFWORD	2	EIS_LENGTH	>Length of EIS
(2)	CHARACTER	6	EIS_EYE	>EIS eye catcher

**TASK LIFETIME STORAGE**

The following storage is used to hold information which has the same lifetime as the task

The following word is required at offset 8 by GDDM

(8)	ADDRESS	4	EIS_USER_EIB_ADDR	Address of 'User' EIB
(C)	ADDRESS	4	EISEIPB9	SAVE EIP BASE REG 9
(10)	ADDRESS	4	EISTCTTE (0)	A(TCTTE) for terminal/LU specified in current TC cmd.
(10)	ADDRESS	4	EISTCTSE	A(TCTSE) specified in ALLOCATE
(14)	ADDRESS	4	EISEDFTA	A(EDF display term.) in 2-term debug
(18)	ADDRESS	4	(0)	
(18)	CHARACTER	18	EISTRDATA (0)	Data for TRACE_PUT
(18)	CHARACTER	8	EISTRFLDAB (0)	Field A and B
(18)	CHARACTER	4	EISTRFLDA	Field A
(1C)	CHARACTER	4	EISTRFLDB	Field B
(20)	CHARACTER	8	EISTRRES	Resource name
(28)	CHARACTER	2	EISTRREQ (0)	Request bytes
(28)	CHARACTER	1	EISTRREQ1	Request byte 1
(29)	CHARACTER	1	EISTRREQ2	Request byte 2
(2C)	ADDRESS	4	EISATABN	Saved table entry pointer to avoid subsequent lookup. Also used for this by CAU.
(30)	ADDRESS	4	EISCAHCB	HEAD OF CHAIN OF ATTACH HEADER CONTROL BLOCKS
(34)	ADDRESS	4	EISEDFDL	DEBUG LINKAGE
(38)	BITSTRING	1	EISFLAG2	SOME ACTIVE HANDLE CONDS
			1... ..	EISRDATT
			.1. ....	EISWRBRK
			.1. ....	EISEOF
			...1 ....	EISNOSPA
			.... 1...	EISQBUSY
			.... .1..	EISNOSTG
			.... ..1.	EISNOBJS
			.... ..1	EISNOJBS
(39)	BITSTRING	1	EISFLAG3	"X'80" RDATT
			1... ..	EISIGNAL
			.1. ....	EISOFLOW
			.1. ....	EISYSBSY
			...1 ....	EISESBSY
(3A)	BITSTRING	1	EISFLAG5	"X'80" 1 FOR FIRST RECEIVE OVER
			1... ..	EISIN1
			.1. ....	EISLERR
			.1. ....	EISRECF
			...1 ....	EISRECU
			.... 1...	EISRETRY
			.... .1..	EISTWAIT
			.... ..1.	EISTAID
			.... ..1	EISSPCIN
(3B)	BITSTRING	1	EISDRESP	"X'80" 1 FOR LENGERR TO BE RAIS
(3C)	BITSTRING	1	EISFLAG4	"X'40" 1 FOR F FORMAT
			1... ..	EISABDMP
			.1. ....	EISRUTER
			.1. ....	EISQRECV
			...1 ....	EISQMAIN
			.... 1...	EIS_LOWER_
				LEVEL_ABEDED
			.... .1..	EISEDNSE
(3D)	BITSTRING	1	EISEDNDM	"X'08" A user program at a lower link-level has abended previously
			1... ..	EISEDNDM
			.1. ....	EISEDNDM
			.1. ....	EISEDNDM
			...1 ....	EISEDNDM
			.... 1...	EISABNDG
(3E)	CHARACTER	2		"X'04" User task security initialized
(40)	ADDRESS	4	EISTIOA	EDF DEBUG MODE
				"X'80" DEBUG ON
				"X'40" SEPARATE TERMINAL
				"X'20" I/O ISSUED BY EDFX
				"X'10" EDFX has issued an abend
				Reserved
				A(TIOA below the line)

Offset Hex	Type	Len	Name (Dim)	Description
(44)	FULLWORD	4	EISTIOAL	length of below the line TIOA
(48)	FULLWORD	4	EISUPERC	super-link level count for RMI
(4C)	ADDRESS	4	EISEXITT	Task token for user exit
(50)	ADDRESS	4	EIS_SYS_EIB_ADDR	address of 'System' EIB
(54)	ADDRESS	4	EISEIPB8	Save DFHEIP Base Reg 8
(58)	ADDRESS	4	EISTRACE	Level 2 trace
(5C)	FULLWORD	4	EISSAVE0	R0 save area for GETMAIN/FREEM.
(60)	ADDRESS	4	EISSAVE1	R1 save area for GETMAIN/FREEM.
(64)	ADDRESS	4	EISSAVE6	R6 save area for GETMAIN/FREEM.
(68)	ADDRESS	4	EISSAVE7	R7 save area for GETMAIN/FREEM.

**PROGRAM LIFETIME STORAGE**

The following storage is used to hold information which has the same lifetime as the current program

(6C)	HALFWORD	2	EISCSETL	data length (no trunc) for read set
(6E)	CHARACTER	1	EISENILT	ENTRY NO. IN LABEL TABLE
(6F)	CHARACTER	1		Reserved
(70)	ADDRESS	4	EISRET	SUBROUTINE RETURN ADDRESS
(74)	ADDRESS	4		Reserved for Service

**COMMAND LIFETIME STORAGE**

The following storage is used to hold information which has the same lifetime as the current command

(78)	CHARACTER	12	EISTCACA	SAVE AREA FOR TCACCCA
(84)	CHARACTER	4	EISSYSNM	name of sys. holding resrce.
(88)	HALFWORD	2	EISCKEYL	key length for current request
(8A)	HALFWORD	2		Reserved
(8C)	ADDRESS	4	EISTEMP	TEMPORARY R14 SLOT
(90)	ADDRESS	4	EISTEMP2	TEMPORARY R14 SLOT
(94)	ADDRESS	4	EISTEMP3	TEMPORARY R14 SLOT
(98)	ADDRESS	4	EISTEMP4	TEMPORARY R14 SLOT
(9C)	BITSTRING	1	EISEDFRB	EDF REQUEST/REPLY BYTE

**REQUEST BITS**

1... ..	EISEDFRQ	"X'80" EXEC REQUEST
.1. ....	EISEDFRS	"X'40" EXEC RESPONSE
..1. ....	EISEDFIN	"X'20" INITIALIZATION
...1 ....	EISEDFPT	"X'10" PROGRAM TERMINATION
.... 1...	EISEDFTT	"X'08" TASK TERMINATION
.... .1.	EISEDFAB	"X'04" ABEND
.... ..1.	EISEDFAC	"X'02" ABNORMAL CONDITION
.... ...1	EISEDFRE	"X'01" PLIST-REFORMAT REQUIRED

**REPLY BITS**

1... ..	EISEDFFA	"X'80" FORCED ABEND		
.1. ....	EISEDFUA	"X'40" USER ABEND		
..1. ....	EISEDFUW	"X'20" USER ABEND WITH DUMP		
...1 ....	EISEDFUD	"X'10" USER DUMP		
.... 1...	EISEDFCA	"X'08" CATASTROPHIC ABEND		
(9D)	BITSTRING	1	EIS_TEMP_EXECKEY	Instantaneous execution key store for fastpath getmain calls
(9E)	CHARACTER	2		Reserved

**START OF STACKED STORAGE**

The following storage up to EISUPERB is stacked across links. The length of the stacked storage is held in EISTACKL. Fields from here to EISRETP are RUN-UNIT local.

(A0)	ADDRESS	4	EISTACKA (0)	
(A0)	ADDRESS	4		Reserved for Service
(A4)	ADDRESS	4	EIS_EID_SAVE	Save EID address when calling PL/I Abnormal Goto routine
(A8)	ADDRESS	4	EISRUSTG	RUN UNIT LOCAL STORAGE ADDRESS
(AC)	ADDRESS	4	EISERMSA	EDF/DLI ADDR EDF DISPLAY DATA

NOTE: THE FOLLOWING FIELD IS USED BY DFHEIP TO SAVE A RETURN ADDRESS BEFORE ISSUING AN "ABNORMAL GOTO OUT-OF-BLOCK" CALL TO THE PL/I TERMINATION ROUTINE.

(B0)	ADDRESS	4	EISRETP	SAVE A LOCAL RETURN ADDRESS
(B4)	ADDRESS	4	EIS_PLB_ADDRESS	Addr(Program Language Block)
(B8)	ADDRESS	4	EIS_APLI_SAVEAREA	Addr(DFHAPLI's registers on giving up control)
(BC)	ADDRESS	4	EISASTG	A(WS) FOR COBOL ONLY
(C0)	CHARACTER	2	EIS_PROGRAM_MODE	TCB MODE for application program
(C2)	BITSTRING	1	EISAPM	APPLICATION PROGRAM MASK
(C3)	BITSTRING	1	EISFLAG8	
1... ..	EISSRPAB	"X'80" TCAAAM SET IN EDFX-SRP ISSUED ABND		
.1. ....	EISEDFRM	"X'40" INDICATE EDF INVOKED BY ERM		
..1. ....	EISERM31	"X'20" DFHERM INVOKED IN AMODE 31		
...1 ....	EISEDFRN	"X'10" INDICATE NEW TYPE EDF SCREEN REQUIRED		
.... 1...	EISCEDFY	"X'08" CEDF allowed for current program		
.... .1.	EISSTKCM	"X'04" Within User exit when EDF invoked		
.... ..1.	EISDPL	"X'02" Program restricted to DPL API		
.... ...1	EISYNCOK	"X'01" Syncpointing allowed in DPL server prog.		
(C4)	BITSTRING	1	EISFLAG9	
1... ..	EISSYEIB	"X'80" SYSEIB ON LAST EXEC CICS COMMAND		
.1. ....	EISRTDST	"X'40" Indicate a RouTeD Start request		
(C5)	BITSTRING	1	(3)	RESERVED

Offset Hex	Type	Len	Name (Dim)	Description
The following storage up to the EQU for EISINITL is re-initialised to X'00' for each program level The length of this initialised area is in EISINITL.				
(C8)	ADDRESS	4	EISINITA (0)	
(C8)	BITSTRING	1	EISFLAG1	ASSORTED FLAGS
	1... ..		EISRORX	"X'80" 1 FOR PL/I RETURN OR XCTL
	.1.. ..		EISSPEX	"X'40" eligible for XEISPIN,OUT
	.1.1. ....		EISEDFAFAM	"X'20" AMODE IS 31 BIT
	.... 1...		EISPGOTO	"X'08" LE/370 Perform Goto flag
	.... .1..		EISTMPTT	"X'04" Cobol and C/370 recursive thread termination flag
	.... .1.		EISEDFFC	"X'02" 1 FOR EDF WAS ON FOR FIRST CALL OF A SET OF CALLS
	.... ..1		EISEXEC	"X'01" 1 DURING EXEC COMMAND
(C9)	CHARACTER	2	EIS_FASTPATH (0)	Fastpath Condition Flags
(C9)	BITSTRING	1	EISFLAG6	MASTERS FOR EISFLAG2
(CA)	BITSTRING	1	EISFLAG7	AND EISFLAG3
NOTE: EISLANG NOW REPLACES EISFLAG4. THE MEANING IS A PATTERN OF BITS TESTED BY CLI RATHER THAN TM. BITS 0,1,2,7 IN EISLANG ARE ALWAYS ZERO.				
(CB)	BITSTRING	1	EISLANG	LANGUAGE FLAGS
	...1 111.		EISLANGS	"X'1E" ALL LANGUAGE BITS
	...1 ....		EISRPG	"X'10" FOR RPG PROGRAM
	.... 1...		EISASM	"X'08" FOR ASM PROGRAM
	.... .1..		EISCOBOL	"X'04" FOR COBOL PROGRAM
	.... .11.		EISSPCOB	"X'06" FOR SPECIAL PROGRAM
	.... .1.		EISPLI	"X'02" FOR PL/I PROGRAM
	.... 1.1.		EISPLS	"X'0A" FOR PL/AS PROGRAM
	.... 11..		EISVSPLI	"X'0C" FOR V. SPECIAL PROGRAM
	.... 111.		EISC	"X'0E" FOR C PROGRAM
(CC)	BITSTRING	1	EISFLAGA	flag byte
	1... ..		EISDAT31	"X'80" program will accept data above 16M
	.... .1..		EIS_XCTL	"X'04" User has issued XCTL
	.... .1.		EIS_PROGRAM_ ABENDED	"X'02" DFHAPLI's Recovery Routine has detected that the program has abended
	.... ..1		EISEIECR	"X'01" The program has terminated by issuing Exec Cics Return
EIS_CICS_DATAKEY, CICS_EXECKEY, CURRENT_EXECKEY and ABEND_EXECKEY are all part of the support for Storage Isolation - PSK				
	..1. ....		EIS_CICS_DATAKEY	"X'20" Current program was defined with CICS data location key.
	...1 ....		EIS_CICS_EXECKEY	"X'10" Current program was defined with
	.... 1...		EISRUNIN	"X'08" CEE Run-Unit in control CICS execution key.
(CD)	BITSTRING	1	EIS_CURRENT_ EXECKEY	Instantaneous execution key when current command started .. in first 4 bits
	1..1 ....		EIS_USERKEY	"X'90" Constant for testing EIS_CURRENT_EXECKEY
(CE)	BITSTRING	1	EIS_ABEND_ EXECKEY	Instantaneous execution key when the last HANDLE ABEND LABEL was executed at this level. .. in first 4 bits
(CF)	BITSTRING	1		Reserved
(D0)	ADDRESS	4	EIS24STG	a(run-unit work-area <16 meg)
	.... 11..		EISINITL	**EISINITA" LENGTH CLEARED
This is the end of the area initialised to X'00' on LINK or XCTL.				
	..11 .1..		EISTACKL	**EISTACKA" Length stacked on LINK
END OF STACKED STORAGE				
SUPERLINK STORAGE				
The following storage is not stacked by a LINK, however it is stacked by a resource manager call (SUPERLINK) to allow for recursion in the event that the invoked res-mgr invokes CICS via the command level interface ie. EXEC CICS...				
(D4)	ADDRESS	4	EISUPERB (0)	START OF SUPERLINK
(D4)	ADDRESS	4	EISICIOAL	IC Retrieve length for Bridge
(D8)	ADDRESS	4	EISBAIOA	A(BAIOA)
(DC)	ADDRESS	4	EISTDIA	A(TDIA)
(E0)	ADDRESS	4	EISTSIOA	A(TSIOA)
(E4)	ADDRESS	4	EISICIOA	IC TSIOA
(E8)	ADDRESS	4	EISDITAB	DI TABLE
(EC)	ADDRESS	4	EISFCTAB	FC reserved field
(F0)	ADDRESS	4	EISFCPTR	FC transformer field
(F4)	ADDRESS	4	EISCBUFC	HEAD OF CHAIN OF REMOTE FILE OPERATION ENTRIES
(F8)	ADDRESS	4	EISERMDA	A(ERM-EDF I/F VECTOR)
(FC)	ADDRESS	4	EISEIPR1	EIP'S INPUT R1 FOR EDF..
(100)	ADDRESS	4	EISBIBP	.. ADDRESS OF BIB (FOR INQUIRES)
(104)	ADDRESS	4	EISUPERE (0)	END OF SUPERLINK *
end of SUPERLINK storage				
(104)	FULLWORD	4	(0)	
(104)	CHARACTER	8	EISTITLE	DFHEIB

## EISTG EXEC interface dynamic storage

EXEC INTERFACE DYNAMIC STORAGE

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHEISTG	EXEC INTERFACE STORAGE
(0)	FULLWORD	4	DFHEISA (18)	SAVE AREA R14-R12 AT 12 OFF
(48)	FULLWORD	4	DFHEILWS	RESERVED
(4C)	FULLWORD	4	DFHEINAB	RESERVED
(50)	FULLWORD	4	DFHEIRS0	RESERVED
(54)	FULLWORD	4	DFHEIR13	REGISTER 13
(58)	FULLWORD	4	DFHEIRS1	RESERVED
(5C)	FULLWORD	4	DFHEIBP	EIB POINTER (NOT USED IF BATCH)
(60)	FULLWORD	4	DFHEICAP	COMMAREA POINTER (NOT USED IF BATCH)
(64)	HALFWORD	2	DFHEIV00	HALFWORD TEMP USED BY DFHECALL
(66)	HALFWORD	2	DFHEIRS2	RESERVED
(68)	FULLWORD	4	DFHEIPL (13)	PARAMETER LIST
(9C)	FULLWORD	4	(51)	ALLOW 64 PARAMETERS FOR DLI AND IN XA2 ON, FOR EXEC CICS ALSO
(168)	FULLWORD	4	DFHEIRS3	RESERVED
(16C)	FULLWORD	4	DFHEIRS4	RESERVED
(170)	FULLWORD	4	DFHEITP1	TEMPORARY POINTER 1
(174)	FULLWORD	4	DFHEITP2	TEMPORARY POINTER 2
(178)	FULLWORD	4	DFHEITP3	TEMPORARY POINTER 3
(17C)	FULLWORD	4	DFHEITP4	TEMPORARY POINTER 4
START DEFINITION OF USER DYNAMIC STORAGE				
(180)	DBL WORD	8	DFHEIUSR (0)	ALIGN USER DYNAMIC STORAGE

## EIUS EXEC interface user structure

CONTROL BLOCK NAME = DFHEIUS  
 DESCRIPTIVE NAME = CICS User part of EXEC interface storage  
 FUNCTION =  
 This is part of the interface between the application program and CICS. It contains fields whose addresses are passed to the application or to other products which invoke the application.  
 The EIUS is owned by the Execution Interface Component.  
 There is one EIUS per transaction.

LIFETIME =  
 The EIUS is created in DFHAPDS and lasts for the life of the task.

STORAGE CLASS =  
 The subpool is chosen according to the TASKDATAKEY and TASKDATALOC options specified for the task.  
 The possible subpools are :  
 SUBPOOL TASKDATAKEY TASKDATALOC  
 USER24 USER BELOW  
 USER31 USER ANY  
 CICS24 CICS BELOW  
 CICS31 CICS ANY

LOCATION =  
 The EIUS is addressed from the TCA by TCAEIUSA.

INNER CONTROL BLOCKS =  
 None

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES =  
 DATA AREAS =  
 This control block references no operating system data areas.  
 CONTROL BLOCKS =  
 This control block references no other control blocks.  
 GLOBAL VARIABLES (Macro pass) =  
 This control block definition references no global variables.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	180	DFHEIUS	EXEC Interface User Structure

Offset Hex	Type	Len	Name (Dim)	Description
(0)	CHARACTER	16	EIUS_PREFIX	Standard control block prefix
(0)	HALFWORD	2	EIUS_LENGTH	Length of DFHEIUS
(2)	CHARACTER	1	EIUS_ARROW	'>'
(3)	CHARACTER	3	EIUS_DFH	'DFH'
# (6)	CHARACTER	10	EIUS_BLOCK_NAME	'EIUS '
#				APAR PQ32017
#				added EIUS_CEE_TWA
# (10)	ADDRESS	4	EIUS_CEE_TWA	Addr LE/370 Thread w/a
START OF STACKED STORAGE				
The following storage up to EIUS_SUPER_STACK is stacked across a LINK or XCTL.				
It consists of two parts :				
1. EIUS_STACK_INIT - reinitialised to X'00'.				
2. EIUS_STACK_ASIS - left asis on the stack.				
(14)	CHARACTER	144	EIUS_STACK_AREA	The whole link stack area
The following storage up to EIUS_STACK_ASIS is re-initialised to X'00' following a LINK or XCTL				
(14)	CHARACTER	16	EIUS_STACK_INIT	Reinitialised section
(14)	CHARACTER	8	EIUS_CEE_RUNUNIT_TK	CEE rununit token
(1C)	ADDRESS	4	*	Reserved
(20)	ADDRESS	4	*	Reserved
This is the end of the area initialised to X'00' on LINK or XCTL				
The following storage up to EIUS_SUPER_STACK is left asis following a LINK or XCTL.				
(24)	CHARACTER	128	EIUS_STACK_ASIS	Left asis on the stack
The following fields up to EIUS_CII_ARG5 are passed to COBOL II as an argument list and must be contiguous				
(24)	CHARACTER	28	EIUS_CII_ARG_LIST	COBOL II argument list
(24)	ADDRESS	4	EIUS_CII_ARG1	COBOL II first argument
(28)	ADDRESS	4	EIUS_CII_ARG2	COBOL II second argument
(2C)	ADDRESS	4	EIUS_CII_ARG3	COBOL II third argument
(30)	ADDRESS	4	EIUS_CII_ARG4	COBOL II fourth argument
(34)	ADDRESS	4	EIUS_CII_ARG5	COBOL II fifth argument
(38)	ADDRESS	4	*	Reserved
(3C)	ADDRESS	4	*	Reserved
(40)	CHARACTER	8	EIUS_HLL_RUNUNIT_TK	High level lang rununit token
EIUS_EIB_ADDR and EIUS_CURR_COMMA_ADDR must be contiguous for DFHEIENT macro in EXEC CICS with Assembler.				
(48)	ADDRESS	4	EIUS_EIB_ADDR	EIB address
EIUS_CURR_COMMA_ADDR is the commarea received by the currently running program. It may be a copy taken because the program can not access the original because of its location or key.				
If it is a copy then the address of the original is in EIS_ORIG_COMMA_ADDR.				
(4C)	ADDRESS	4	EIUS_CURR_COMMA_ADDR	Current commarea address
(50)	ADDRESS	4	EIUS_RSA_ADDR	Appl Reg Save Area address
(54)	CHARACTER	72	EIUS_RSA	Reg Save Area for appl use
# (9C)	ADDRESS	4	*	Reserved
(A0)	ADDRESS	4	*	Reserved
END OF STACKED STORAGE				
SUPERLINK STORAGE				
The following storage is not stacked by a LINK, however it is stacked by a resource manager call (SUPERLINK) to allow for recursion in the event that the invoked res-mgr invokes CICS via the command level interface ie. EXEC CICS...				
The storage is left asis following a SUPERLINK.				
(A4)	CHARACTER	16	EIUS_SUPER_STACK	Start of SUPERLINK storage
EIUS_EIB_ADDR_PTR and EIUS_COMMA_ADDR_PTR must be contiguous because an argument list is built here.				
(A4)	CHARACTER	8	EIUS_ARG_LIST	Application argument list
(A4)	ADDRESS	4	EIUS_EIB_ADDR_PTR	Ptr to EIUS_EIB_ADDR
(A8)	ADDRESS	4	EIUS_COMMA_ADDR_PTR	Ptr to EIUS_CURR_COMMA_ADDR
(AC)	ADDRESS	4	*	Reserved
(B0)	ADDRESS	4	*	Reserved
(B4)	CHARACTER		EIUS_SUPER_END	End of SUPERLINK storage



## ETC EXEC terminal control

CONTROL BLOCK NAME = DFHETCDS  
 DESCRIPTIVE NAME = CICS EXEC Terminal Control

Offset Hex (0)	Type	Len	Name (Dim)	Description
(0)			DFHETCDS	
The EXEC terminal-control control block describes the storage used to hold data relating to ATTACH function management headers (FMHs). Several such blocks may be created for a task and are chained from the EXEC interface structure (field EISCAHCB). Individual blocks may also be chained from TCTTEs owned by the task (field TCTEEIEX). ALLOW FOR (USER) STORAGE ACCOUNTING INFORMATION				
(0)	ADDRESS	4	(2)	**
FIRST COME DEFINITIONS FOR CONTROL BLOCK AND DATA MANIPULATION.				
(8)	ADDRESS	4	ETCBFCHN	POINTER TO NEXT EXEC TC CONTROL BLOCK
(C)	ADDRESS	4	ETCBTEAR	0 IF ETCBUSID SET OR A(TCTTE) IF ETCBTCID SET
(10)	ADDRESS	4	ETCBSTDA	LOW BOUND ADDRESS FOR FMH BUILD / EXTRACT
(14)	ADDRESS	4	ETCBNDDA	HIGH BOUND ADDRESS FOR FMH BUILD / EXTRACT
(18)	CHARACTER	8	ETCBID	NAME OF EXEC TERMINAL CONTROL BLOCK
(20)	CHARACTER	1	ETCBFLGS	
	1... ..		ETCBUSID	"X'80" ID IS 8 BYTE USER NAME
	.1.. ....		ETCBTCID	"X'40" ID IS 4 BYTE TCTTE NAME
(21)	CHARACTER	1	ETCBXTOP	FMH BUILD / EXTRACT OPTIONS BYTE - VALUES CORRESPOND TO THOSE HELD IN TCTEXTOP
	1... ..		ETCBEXNO	"X'80" EXTRACT = NO
	.1.. ....		ETCBEXAT	"X'40" EXTRACT = ATTACH
	.1.. ....		ETCBEXPR	"X'20" EXTRACT = PREPARE
(22)	CHARACTER	1	ETCBREMV	FMH REMOVAL OPTIONS BYTE - VALUES ARE IDENTICAL TO THOSE HELD IN ETCBXTOP
(23)	CHARACTER	1	ETCBBILD	FMH BUILD OPTIONS
	1... ..		ETCBUFMH	"X'80" USER DATA CONTAINS FMH(S)
	.1.. ....		ETCBBUAT	"X'40" BUILD = ATTACH
	.1.. ....		ETCBBUPR	"X'20" BUILD = PREPARE **
(24)	FULLWORD	4	(0)	*
NOW COME DEFINITIONS FOR FIELDS THAT RELATE TO AN LU6 PREPARE HEADER				
(24)	CHARACTER	1	LU6PTYP	VALUE PUT IN FMHPPTYP *
NOW COME DEFINITIONS FOR FIELDS THAT RELATE TO AN LU6 ATTACH HEADER				
(25)	CHARACTER	1	LU6MTYP	VALUE PUT IN FMHXMDD
(26)	CHARACTER	1	LU6DS	VALUE PUT IN FMHADS
(27)	CHARACTER	1	LU6DBA	VALUE PUT IN FMHADBA *
NOW COME DEFINITIONS FOR OPTIONAL FIELDS THAT RELATE TO AN LU6 ATTACH HEADER				
(28)	CHARACTER	1	LU6EXIST	VALUES PRESENT IN FMH
	1... ..		LU6DPNX	"X'80" DPN PRESENT
	.1.. ....		LU6PRNX	"X'40" PRN PRESENT
	.1.. ....		LU6RDPNX	"X'20" RDPN PRESENT
	...1 ....		LU6RPRNX	"X'10" RPRN PRESENT
	... 1...		LU6DQNX	"X'08" DQN PRESENT *
(29)	CHARACTER	8	LU6DPN	VALUE PUT IN FMHATDPN
(31)	CHARACTER	8	LU6PRN	VALUE PUT IN FMHATPRN
(39)	CHARACTER	8	LU6RDPN	VALUE PUT IN FMHARDPN
(41)	CHARACTER	8	LU6RPRN	VALUE PUT IN FMHARPRN
(49)	CHARACTER	8	LU6DQN	VALUE PUT IN FMHATDQN *
LASTLY COME DEFINITIONS FOR FIELDS THAT RELATE TO WHAT HAS BEEN DONE TO THE DATA				
(51)	CHARACTER	1	ETCBPRE	IF SET, PREPARE HEADER DATA IS VALID AND CAN BE FOUND IN THE ETCB
(52)	CHARACTER	1	ETCBLU6	IF SET, LU6 ATTACH HEADER DATA IS VALID AND CAN BE FOUND IN THE ETCB
(53)	CHARACTER	1	ETCBLUC	IF SET, LU6 ATTACH HEADER DATA IS VALID AND CAN BE FOUND IN THE ETCB
(54)	CHARACTER	1	ETCBFMH	IF SET, DATA RETURNED TO CALLER CONTAINS ONE OR MORE FMHS
(55)	CHARACTER	1	ETCBERR	IF SET, FMH IS NOT CONTAINED WITHIN THE SPECIFIED DATA LIMITS
(58)	DBL WORD	8	ETCBEND (0)	
	.1.. ....		ETCBCLR	"-ETCBID" LENGTH OF DATA IN CONTROL BLOCK THAT IS CLEARED WHEN AN ETCB IS FREED
	.1.1 ....		ETCBLEN	"-ETCBFCHN" OVERALL LENGTH OF AN ETCB CONTROL BLOCK

## FCE File control EXEC argument list

CONTROL BLOCK NAME = DFHFCEDS  
 DESCRIPTIVE NAME = CICS EXEC argument list for File Control  
 PRODUCT SENSITIVE PROGRAMMING INTERFACES

The following fields are part of the Product-Sensitive Programming Interface.

FC\_ADDR0  
 FC\_ADDR1  
 FC\_ADDR2  
 FC\_ADDR3  
 FC\_ADDR4  
 FC\_ADDR5  
 FC\_ADDR6  
 FC\_ADDR7  
 FC\_ADDRB  
 FC\_GROUP  
 FC\_FUNCT  
 FC\_BITS1  
 FC\_BITS2  
 FC\_EIDOPT5  
 FC\_EIDOPT6  
 FC\_EIDOPT7  
 FC\_EIDOPT8  
 FC\_FILE  
 FC\_SET  
 FC\_INT0  
 FC\_FROM  
 FC\_LENGTH  
 FC\_NUMREC  
 FC\_REQID  
 FC\_RIDFLD  
 FC\_KEYLENGTH  
 FC\_RNP\_REQID  
 FC\_SYSID  
 FC\_IND1

FUNCTION =

To define fields that may be of use to File Control User Exits:-

- (1) The Command Level Parameter List.
- (2) EIBRCODE, EIBRESP and EIBRESP2 values.
- (3) The byte of File Control Indicators.

On entry to the XFCREQ and XFCREQC User exits, the EXEC parameter list is pointed to by UEPCLPS. The EXEC parameter list for file control consists of twelve addresses.

The twelve addresses are defined by FC\_ADDR0 to FC\_ADDRB. Only FC\_ADDR0 to FC\_ADDR7 may be used by user exits, and also FC\_ADDRB. FC\_ADDR8 to FC\_ADDRA are reserved for CICS internal use only.

This DSECT defines FC\_ADDR0 to FC\_ADDRB and the areas that they point to.

On entry to the XFCREQ and XFCREQC user exits, the copy of EIBRCODE is pointed to by UEPRCODE, the copy of EIBRESP is pointed by UEPRESP and the copy of EIBRESP2 is pointed to by UEPRESP2.

This DSECT also contains equates for values of EIBRCODE, EIBRESP and EIBRESP2 used by File Control.

LIFETIME = Lifetime of the FC command request

STORAGE CLASS = As the storage being mapped is the translated source in the user's application program, the storage may be either above or below the line.

LOCATION = (1) EXEC Parameter List is addressed by UEPCLPS.  
 (2) Fields copied from the EIB are addressed by UEPRCODE, UEPRESP and UEPRESP2.  
 (3) The token for use in communicating between XFCREQ and XFCREQC is addressed by UEPFCTOK.

INNER CONTROL BLOCKS =

FC\_ADDR\_LIST declares the EXEC addresses  
 FC\_EID defines the EID pointed by FC\_ADDR0

NOTES :

DEPENDENCIES = S/370 ESA  
 RESTRICTIONS = None  
 MODULE TYPE = Control Block definition  
 The Command Parameter List

FC\_ADDR\_LIST defines twelve addresses, that form the EXEC parameter list for File Control. Only FC\_ADDR0 to FC\_ADDR7 and FC\_ADDRB may be referenced by user exits.

In addition, FC\_ADDR1 to FC\_ADDR7 and FC\_ADDRB may be modified by a user exit.

Any attempt to modify FC\_ADDR0 will be ignored.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			FC_ADDR_LIST	EXEC Parameter List
(0)	ADDRESS	4	FC_ADDR0	Address 0
(4)	ADDRESS	4	FC_ADDR1	Address 1
(8)	ADDRESS	4	FC_ADDR2	Address 2
(C)	ADDRESS	4	FC_ADDR3	Address 3
(10)	ADDRESS	4	FC_ADDR4	Address 4
(14)	ADDRESS	4	FC_ADDR5	Address 5
(18)	ADDRESS	4	FC_ADDR6	Address 6
(1C)	ADDRESS	4	FC_ADDR7	Address 7
(20)	ADDRESS	4	FC_ADDR8	CICS Internal Use Only
(24)	ADDRESS	4	FC_ADDR9	CICS Internal Use Only
(28)	ADDRESS	4	FC_ADDR10	CICS Internal Use Only
(2C)	ADDRESS	4	FC_ADDR11	Address 11

FC\_EID defines:

- (1) The type of request
- (2) Existence bits indicating which addresses in the EXEC Parameter List are valid.
- (3) Bits to indicate the keywords specified.

FC\_ADDR0 contains the address of FC\_EID.  
 The following bits may be modified from a File Control user exit.

- (1) Existence bits FC\_EXIST3, FC\_EXIST5, FC\_EXIST6, FC\_EXIST7 and FC\_EXISTB.
- (2) The keyword descriptors FC\_MASSINSERT\_X, FC\_GENERIC\_X, FC\_GTEQ\_X, FC\_NRI\_X, FC\_CR\_X, FC\_RR\_X and FC\_NO\_SUSPEND.

Any attempt to modify any other part of the EID will be ignored.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			FC_EID	EID for File Control
(0)	CHARACTER	1	FC_GROUP	Group Code
	.... .11.		FC_FILE_GROUP	"X'06" All File Control Requests .. .. have group code '06'
(1)	CHARACTER	1	FC_FUNCT	Function Code
	.... ..1.		FC_READ	"X'02" READ Request
	.... .1.		FC_WRITE	"X'04" WRITE Request
	.... ..11.		FC_REWRITE	"X'06" REWRITE Request
	.... 1...		FC_DELETE	"X'08" DELETE Request
	.... 1.1.		FC_UNLOCK	"X'0A" UNLOCK Request
	.... 11..		FC_STARTBR	"X'0C" STARTBR request
	.... 111.		FC_READNEXT	"X'0E" READNEXT Request
	.... ..1 .....		FC_READPREV	"X'10" READPREV Request
	.... ..1 ..1.		FC_ENDBR	"X'12" ENDBR Request
	.... ..1 ..1.		FC_RESETBR	"X'14" RESETBR Request
<p>The next two bytes contain existence bits for the addresses in the EXEC parameter list.                      For example, FC_ADDR1 should not be used unless FC_EXIST1 is set on.                      FC_ADDR0 is always valid and has no existence bit.</p>				
(2)	BITSTRING	1	FC_BITS1	First 8 existence bits
	1... .....		FC_EXIST1	"X'80" FC_ADDR1 is valid if the command specifies FILE
	..1. ....		FC_EXIST2	"X'40" FC_ADDR2 is valid if the command specifies INTO, SET or FROM
	..1. ....		FC_EXIST3	"X'20" FC_ADDR3 is valid if the command specifies LENGTH or NUMREC. It is also valid if a STARTBR, RESETBR or ENDBR specifies REQID. This bit may be modified by a user exit.
	...1 .....		FC_EXIST4	"X'10" FC_ADDR4 is valid if the command specifies RIDFLD.
	.... 1...		FC_EXIST5	"X'08" FC_ADDR5 is valid if the command specifies KEYLENGTH. This bit may be modified by a user exit.
	.... ..1.		FC_EXIST6	"X'04" FC_ADDR6 is valid if the command is READNEXT or READPREV and it specifies REQID. This bit may be modified by a user exit.
	.... ..1.		FC_EXIST7	"X'02" FC_ADDR7 is valid if the command specifies SYSID. This bit may be modified by a user exit.
	.... ..1		FC_EXIST8	"X'01" CICS Internal Use Only
(3)	BITSTRING	1	FC_BITS2	Next 8 existence bits
	1... .....		FC_EXIST9	"X'80" CICS Internal Use Only
	..1. ....		FC_EXISTA	"X'40" CICS Internal Use Only
	..1. ....		FC_EXISTB	"X'20" FC_ADDR8 is valid if the command specifies TOKEN. This may be modified by a user exit.
<p>The next 5 bytes describe the keywords on the command                      For example, if FC_MASSINSERT is set on, the command included the MASSINSERT keyword. If FC_MASSINSERT is set off, the command did not include the MASSINSERT keyword.</p>				
(4)	BITSTRING	1		Reserved
(5)	BITSTRING	1	FC_EIDOPT5	Options Byte 1
	.... ..1.		FC_MASSINSERT_X	"X'04" MASSINSERT specified. This bit may be modified by a user exit.
	.... ..1.		FC_RRN_X	"X'02" RRN specified
	.... ..1		FC_SET_X	"X'01" SET specified
(6)	BITSTRING	1	FC_EIDOPT6	Options byte 2
	1... .....		FC_RBA_X	"X'80" RBA specified

Offset Hex	Type	Len	Name (Dim)	Description
	.1.. ....		FC_GENERIC_X	"X'40" GENERIC specified. This bit may be modified by a user exit.
	..1. ....		FC_GTEQ_X	"X'20" GTEQ specified. This bit may be modified by a user exit.
	...1 ....		FC_NRI_X	"X'10" NRI specified. This bit may be modified by a user exit. You should ensure that only one of the three bits for NRI, CR and RR is set.
	.... 1...		FC_CR_X	"X'08" CR specified. This bit may be modified by a user exit. You should ensure that only one of the three bits for NRI, CR and RR is set.
	.... ..1.		FC_RR_X	"X'04" RR specified. This bit may be modified by a user exit. You should ensure that only one of the three bits for NRI, CR and RR is set.
	.... ..1.		FC_BRWS_UPD_X	"X'02" Update specified on READNEXT or READPREV request. This bit may not be modified by the user exit.
	.... ...1		FC_NO_SUSPEND	"X'01" NOSUSPEND specified on READ, READNEXT, READPREV, WRITE, DELETE, or REWRITE. This bit may be modified by the user exit.
(7)	BITSTRING	1	FC_EIDOPT7	Options Byte 3
	.... ..1.		FC_UPDATE_X	"X'04" UPDATE specified. WARNING. This bit should only be tested if the command is READ. For all other commands it has no meaning and may or may not be set depending on the command.
	.... ...1		FC_DEBLOCK_X	"X'01" BDAM Deblocking request Either DEBKEY or DEBREC specified EIDOPT8 will specify whether DEBKEY or DEBREC. WARNING. This bit should only be tested if the command is READ or STARTBR. For all other commands this bit has no meaning and it may or may not be set depending on the command.
(8)	BITSTRING	1	FC_EIDOPT8	Options Byte 4
	1... ....		FC_DEBKEY_X	"X'80" DEBKEY specified
	..1. ....		FC_DEBREC_X	"X'40" DEBREC specified
	..1. ....		FC_TOKEN_X	"X'20" TOKEN specified

The following definitions define the variables addressed by the remainder of the EXEC parameter list  
FC\_ADDR1 addresses file name

Offset Hex	Type	Len	Name (Dim)	Description
(0)			FC_DATA1	Addressed by FC_ADDR1
(0)	CHARACTER	8	FC_FILE	file name

FC\_ADDR2 addresses either INTO, FROM or SET

Offset Hex	Type	Len	Name (Dim)	Description
(0)			FC_DATA2	Addressed by FC_ADDR2
(0)	ADDRESS	4	FC_SET	Pointer for SET
(0)	CHARACTER	1	FC_INT0	Data For INTO. The user will need to specify the length.
(0)	CHARACTER	1	FC_FROM	Data For FROM. The user will need to specify the length.

FC\_ADDR3 addresses either LENGTH, NUMREC or REQID  
N.B. FC\_ADDR3 only addresses REQID if the command is STARTBR, RESETBR or ENDBR. See FC\_ADDR6 if the command is READNEXT or READPREV.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			FC_DATA3	Addressed by FC_ADDR3
(0)	HALFWORD	2	FC_LENGTH	Value Of LENGTH
(0)	HALFWORD	2	FC_NUMREC	Value Of NUMREC
(0)	BITSTRING	2	FC_REQID	Value Of REQID if command is STARTBR or ENDBR or RESETBR

FC\_ADDR4 addresses RIDFLD

Offset Hex	Type	Len	Name (Dim)	Description
(0)			FC_DATA4	Addressed by FC_ADDR4
(0)	CHARACTER	1	FC_RIDFLD	Area For RIDFLD. The user will need to specify the length.

FC\_ADDR5 addresses KEYLENGTH

Offset Hex	Type	Len	Name (Dim)	Description
(0)			FC_DATA5	Addressed by FC_ADDR5
(0)	HALFWORD	2	FC_KEYLENGTH	Area For KEYLENGTH.

FC\_ADDR6 addresses REQID if the command is READNEXT or READPREV.  
 N.B. See FC\_DATA3 if the command is STARTBR or RESETBR or ENDBR.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			FC_DATA6	Addressed by FC_ADDR6
(0)	BITSTRING	2	FC_RNP_REQID	Area For REQID if the command is READNEXT or READPREV

FC\_ADDR7 addresses SYSID

Offset Hex	Type	Len	Name (Dim)	Description
(0)			FC_DATA7	Addressed by FC_ADDR7
(0)	CHARACTER	4	FC_SYSID	Area For SYSID

FC\_ADDRB addresses TOKEN

Offset Hex	Type	Len	Name (Dim)	Description
(0)			FC_DATAB	Addressed by FC_ADDRB
(0)	CHARACTER	4	FC_TOKEN	Area for TOKEN

Start of general use programming interface.  
 EIBRCODE, EIBRESP and EIBRESP2  
 Equates for EIBRCODE values used by File Control

(4)	BITSTRING	6	FC_OK_EIBRCODE	OK
	.... .1		FC_FILENOTFOUND_EIBRCODE	"X'01" File not Found
	.... .11		FC_LOCKED_EIBRCODE	"X'03" LOCKED
	.... .1.1		FC_RECORDBUSY_EIBRCODE	"X'05" RECORDBUSY
	.... .11.		FC_CHANGED_EIBRCODE	"X'06" CHANGED
	1... .1		FC_NOTFND_EIBRCODE	"X'81" NOTFND
	1... .1.		FC_DUPREC_EIBRCODE	"X'82" DUPREC
	1... .1..		FC_DUPKEY_EIBRCODE	"X'84" DUPKEY
	.... 1...		FC_INVREQ_EIBRCODE	"X'08" INVREQ
	1... ..		FC_IOERR_EIBRCODE	"X'80" IOERR
	1... ..11		FC_NOSPACE_EIBRCODE	"X'83" NOSPACE
	.... 11..		FC_NOTOPEN_EIBRCODE	"X'0C" NOTOPEN
	.... 1111		FC_ENDFILE_EIBRCODE	"X'0F" ENDFILE
	.... ..1.		FC_ILLOGIC_EIBRCODE	"X'02" ILLOGIC
	111. ....		FC_LENGERR_EIBRCODE	"X'E1" LENGERR
	11.1 ....		FC_SYSIDERR_EIBRCODE	"X'D0" SYSIDERR
	11.1 ...1		FC_ISCINVREQ_EIBRCODE	"X'D1" ISCINVREQ
	11.1 .11.		FC_NOTAUTH_EIBRCODE	"X'D6" NOTAUTH
	1... .1.1		FC_SUPPRESSED_EIBRCODE	"X'85" SUPPRESSED
	.... 11.1		FC_DISABLED_EIBRCODE	"X'0D" DISABLED

Offset Hex	Type	Len	Name (Dim)	Description
	1... .11.		FC_LOADING_ EIBRCODE	"X'86" LOADING
Equates for EIBRESP values used by File Control				
.... ....			FC_OK_EIBRESP	"00" OK
.... 11..			FC_FILENOTFOUND_ EIBRESP	"12" File Not found
.... 11.1			FC_NOTFND_ EIBRESP	"13" NOTFND (Record not found)
.... 111.			FC_DUPREC_ EIBRESP	"14" DUPREC
.... 1111			FC_DUPKEY_ EIBRESP	"15" DUPKEY
...1 ....			FC_INVREQ_ EIBRESP	"16" INVREQ
...1 ...1			FC_IOERR_ EIBRESP	"17" IOERR
...1 .1.			FC_NOSPACE_ EIBRESP	"18" NOSPACE
...1 .11			FC_NOTOPEN_ EIBRESP	"19" NOTOPEN
...1 .1.			FC_ENDFILE_ EIBRESP	"20" ENDFILE
...1 .1.1			FC_ILLOGIC_ EIBRESP	"21" ILLOGIC
...1 .11.			FC LENGERR_ EIBRESP	"22" LENGERR
.11 .1.1			FC_SYSDERR_ EIBRESP	"53" SYSDERR
.11 .11.			FC_ISCINVREQ_ EIBRESP	"54" ISCINVREQ
.1. .11.			FC_NOTAUTH_ EIBRESP	"70" NOTAUTH
.1. 1...			FC_SUPPRESSED_ EIBRESP	"72" SUPPRESSED
.1.1 .1.			FC_DISABLED_ EIBRESP	"84" DISABLED
.1.1 111.			FC_LOADING_ EIBRESP	"94" LOADING
.11. .1.			FC_LOCKED_ EIBRESP	"100" LOCKED
.11. .1.1			FC_RECORDBUSY_ EIBRESP	"101" RECORDBUSY
.11. 1..1			FC_CHANGED_ EIBRESP	"105" CHANGED

Equates for EIBRESP2 values used by File Control  
EIBRESP2 values are listed in numerical order. This can mean that not all of the EIBRESP2 values for a given EIBRESP are listed together; for example, not all of the EIBRESP2 values for NOSPACE are listed one after the other, because there are other EIBRESP2 values within that numerical range.

.... ....			FC_OK_EIBRESP2	"0" OK
.... ...1			FC_FILENOTFOUND_ EIBRESP2	"1" File not Found
.... 1.1.			FC LENGERR10_ EIBRESP2	"10" No variable length
.... 1.11			FC LENGERR11_ EIBRESP2	"11" Buffer too small (on read request)
.... 11..			FC LENGERR12_ EIBRESP2	"12" Record too large (on write request)
.... 11.1			FC LENGERR13_ EIBRESP2	"13" Buffer length not file len. (read)
.... 111.			FC LENGERR14_ EIBRESP2	"14" Record length not file len. (write)
...1 .1.			FC_INVREQ20_ EIBRESP2	"20" Servreq violation
...1 .1.1			FC_INVREQ21_ EIBRESP2	"21" ESDS Delete
...1 .11.			FC_INVREQ22_ EIBRESP2	"22" Generic delete not KSDS
...1 .111			FC_INVREQ23_ EIBRESP2	"23" Ridfld Key not record key
...1 1...			FC_INVREQ24_ EIBRESP2	"24" Readprev in generic browse
...1 1..1			FC_INVREQ25_ EIBRESP2	"25" Generic key too long
...1 1.1.			FC_INVREQ26_ EIBRESP2	"26" Full key wrong length
...1 1.11			FC_INVREQ27_ EIBRESP2	"27" BDAM delete
...1 11..			FC_INVREQ28_ EIBRESP2	"28" Two READ UPDATEs without TOKEN
...1 11.1			FC_INVREQ29_ EIBRESP2	"29" Reserved
...1 111.			FC_INVREQ30_ EIBRESP2	"30" Rewrite before read update
...1 1111			FC_INVREQ31_ EIBRESP2	"31" Delete before read update
...1 ....			FC_INVREQ32_ EIBRESP2	"32" Reserved

Offset Hex	Type	Len	Name (Dim)	Description
..1. ...1			FC_INVREQ33_EIBRESP2	"33" Duplicate REQID
..1. ..1.			FC_INVREQ34_EIBRESP2	"34" Unknown REQID Readnext
..1. ...11			FC_INVREQ35_EIBRESP2	"35" Unknown REQID Endbr
..1. ..1..			FC_INVREQ36_EIBRESP2	"36" Unknown REQID Resetbr
..1. ..1.1			FC_INVREQ37_EIBRESP2	"37" Illegal key type change
..1. ..11.			FC_INVREQ38_EIBRESP2	"38" BDAM Write Massinsert
..1. ..111			FC_INVREQ39_EIBRESP2	"39" BDAM Readprev
..1. 1...			FC_INVREQ40_EIBRESP2	"40" BDAM Key Conversion
..1. 1..1			FC_INVREQ41_EIBRESP2	"41" Unknown REQID Readprev
..1. 1.1.			FC_INVREQ42_EIBRESP2	"42" Keylength negative
..1. 1.11			FC_INVREQ43_EIBRESP2	"43" SEGSET Specified (obsolete funct'n)
..1. 11..			FC_INVREQ44_EIBRESP2	"44" Not in data table subset
..1. 11.1			FC_INVREQ45_EIBRESP2	"45" INVREQ from remote system
..1. 111.			FC_INVREQ46_EIBRESP2	"46" BDAM length change
..1. 1111			FC_INVREQ47_EIBRESP2	"47" Invalid TOKEN supplied
..11 ....			FC_INVREQ48_EIBRESP2	"48" Reserved
..11 ..1.			FC_DISABLED_EIBRESP2	"50" DISABLED
..11 ...11			FC_INVREQ51_EIBRESP2	"51" RBA access to RLS KSDS
..11 ..1..			FC_INVREQ52_EIBRESP2	"52" CR specified, but file not RLS
..11 ..1.1			FC_INVREQ53_EIBRESP2	"53" RR specified, but file not RLS
..11 ..11.			FC_INVREQ54_EIBRESP2	"54" Browse request specified UPDATE, but file is not RLS
..11 ..111			FC_INVREQ55_EIBRESP2	"55" A command specified NOSUSPEND but the file was not a VSAM file open in RLS mode.
..11 1...			FC_INVREQ56_EIBRESP2	"56" Unit of work cannot make updates to any more recoverable coupling facility data tables
..11 11..			FC_NOTOPEN_EIBRESP2	"60" NOTOPEN
..1.. ..11.			FC_ISCINVREQ_EIBRESP2	"70" ISCINVREQ
..1.1 ....			FC_NOTFND_EIBRESP2	"80" NOTFND
..1.1 1..1.			FC_ENDFILE_EIBRESP2	"90" ENDFILE
..11. ..1..			FC_NOSPACE_EIBRESP2	"100" NOSPACE
..11. ..1.1			FC_NOTAUTH_EIBRESP2	"101" NOTAUTH
..11. ..11.			FC_TABLE_FULL_EIBRESP2	"102" NOSPACE - Data table full
..11. ..111			FC_STORE_FAIL_EIBRESP2	"103" NOSPACE - GETMAIN fail
..11. 1...			FC_LOADING_EIBRESP2	"104" LOADING
..11. 1..1			FC_SUPPRESSED_EIBRESP2	"105" SUPPRESSED
..11. 1.1.			FC_LOCKED_EIBRESP2	"106" LOCKED
..11. 1.11			FC_RECORDBUSY_EIBRESP2	"107" RECORDBUSY
..11. 11..			FC_CFDTPOOL_FULL_EIBRESP2	"108" NOSPACE - CFDT pool full
..11. 11.1			FC_CHANGED_EIBRESP2	"109" Record CHANGED since read upd
..11. 111.			FC_ILLOGIC_EIBRESP2	"110" ILLOGIC
..111 1...			FC_IOERR_EIBRESP2	"120" IOERR
1... ..1.			FC_SYSDERR_EIBRESP2	"130" SYSDERR
1... ...11			FC_CFDT_SYSDERR_EIBRESP2	"131" SYSDERR - CFDT server failed

Offset Hex	Type	Len	Name (Dim)	Description
	1... .1..		FC_CFDT_ NOTABLE_EIBRESP2	"132" SYSIDERR - CF data table gone
	1... 11..		FC_DUPKEY_ EIBRESP2	"140" DUPKEY
	1..1 .11.		FC_DUPREC_ EIBRESP2	"150" DUPREC

End of general use programming interface.

## FCENT File control transformer table entries

MACRO NAME = DFHFCENT  
 DESCRIPTIVE NAME = CICS Transformer File Control Operation  
 Table Entry DSECT.  
 This DSECT describes the entries in the FC operation table that  
 is maintained by the transformer (DFHXFX or DFHXFP).

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHFCENT	,
(0)	FULLWORD	4	FCENTEYE (2)	EYECATCHER - Il>FCENT (Il=length)
	.... 1...		FCENTBEG	"" BEGINNING OF ENTRY
(8)	ADDRESS	4	FCCHAIN	ADDRESS OF NEXT ENTRY
(C)	CHARACTER	4	FCSYSNM	NAME OF SYSTEM OWNING FILE
(10)	CHARACTER	8	FCDSNAM	FILE NAME ON REMOTE SYSTEM
(18)	HALFWORD	2	FCREQID	REQID
(1A)	HALFWORD	2	FCRIDLEN	KEYLENGTH
(1C)	ADDRESS	4	FCRIDFLD	ADDR OF RIDFLD
(20)	ADDRESS	4	FCBUFFAD	ADDR OF BUFFER FOR READ SET
(24)	HALFWORD	2	FCBUFFLN	LGTH OF BUFFER FOR READ SET
(26)	CHARACTER	1	FCFLAGS1	FIRST FLAG BYTE
(27)	CHARACTER	1	FCFLAGS2	SECOND FLAG BYTE
(28)	FULLWORD	4	(0)	MAKE LENGTH MULTIPLE OF 4
	..1. 1...		FCLLEN	""-DFHFCENT" LENGTH OF FC OPERATION ENTRY



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## FCLGC File control log record format

CONTROL BLOCK NAME = DFHFCLGC  
DESCRIPTIVE NAME = CICS (FC) File Control Part of Log Record  
FUNCTION =  
    This describes the format of File Control's part of log records written to the system log for backout, log records written to forward recovery logs and autojournal records written to autojournals.  
LIFETIME =  
    This just describes the layout of log and journal records so does not have any particular lifetime.  
LOCATION =  
    Log and journal records are built in LIFO storage by module DFHFCLJ.  
STORAGE CLASS =  
    Since log and journal records are built in DFHFCLJ's LIFO this is CICS storage class.  
INNER CONTROL BLOCKS =  
    None  
NOTES :  
DEPENDENCIES = S/390  
RESTRICTIONS = None  
MODULE TYPE = Control block definition  
All fields contained in this DSECT may be used to interpret CICS log and journal records and as such form part of the General-Use Programming Interface.  
EXTERNAL REFERENCES =  
    None.  
DATA AREAS =  
    None.  
CONTROL BLOCKS =  
    None.  
GLOBAL VARIABLES (Macro pass) =  
    None.

**FLJB - File Log and Journal Block**

The FLJB forms the basis of the data that File Control writes as part of its log and journal records. The FLJB is, in general, built from two parts, one part which contains data that mostly applies to all log and journal records, and a second part which contains data specific to the type of record. All log and journal records have data specific to the type of record.

The FLJB is always written to the log or journal (as appropriate), but there may also be some variable length data written immediately after the fixed length parts of the FLJB. Precisely what variable length data is written depends on the record type. The resulting log and journal records for each record type are described below.

Note that what follows is a description of only what File Control writes to the log or journal. In practice these records themselves also have a header prepended to them, either by the CICS Logger (in the case of autojournal and forward recovery records) or by the Recovery Manager (for all system log records).

The format of File Control's part of log and journal records written for read only, read update, write update, and write add, and journal records written for the write add complete record type, is as shown below. The respective length of each block is also indicated.

- o fljb\_general\_data of length length(fljb\_general\_data), followed by:

- o fljb\_common\_data of length length(fljb\_common\_data), followed by:

- o fljb\_cd\_key of length fljb\_cd\_key\_length, followed by:

- o fljb\_cd\_data of length fljb\_cd\_data\_length.

The format of File Control's part of log records written for the write add complete record type, is as shown below. The respective length of each block is also indicated.

- o fljb\_general\_data of length length(fljb\_general\_data), followed by:

- o fljb\_common\_data of length length(fljb\_common\_data).

The format of File Control's part of log and journal records written for write delete is shown below. The respective length of each block is also indicated.

- o fljb\_general\_data of length length(fljb\_general\_data), followed by:

- o fljb\_write\_delete\_data of length length(fljb\_write\_delete\_data), followed by:

- o fljb\_wdd\_base\_key of length fljb\_wdd\_base\_key\_length, followed by:

- o fljb\_wdd\_path\_key of length fljb\_wdd\_path\_key\_length.

The format of File Control's part of log and journal records written for file close is shown below. This record is one of the simplest of all the log and journal records. It just contains the general data block followed by data specific to file close. The respective length of each block is indicated alongside. There are no variable length records in the file close record.

- o fljb\_general\_data of length length(fljb\_general\_data), followed by:

- o fljb\_file\_close\_data of length length(fljb\_file\_close\_data).

The format of File Control's part of tie up records is shown below. The respective length of each block is indicated alongside. There are no variable length records in the tie up record.

- o fljb\_general\_data of length length(fljb\_general\_data), followed by:

- o fljb\_tie\_up\_record of length length(fljb\_tie\_up\_record)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	FLJB_GENERAL_DATA	
(0)	CHARACTER	1	FLJB_RECORD_TYPE	80: read only 81: read update record 82: write update record 83: write add record 84: write add complete 86: write delete record 8E: file close record 8F: tie up record
(1)	BITSTRING	1	FLJB_BITS	general flag byte
	1... ..		FLJB_AUTOJOURNAL	ON: autojournal record OFF: otherwise
	.1. ....		FLJB_FWD_RECOVERY	ON: forward recovery log record OFF: otherwise
	..1. ....		FLJB_SYSTEM_LOG	ON: system log record OFF: otherwise
	...1 ....		FLJB_LOG_OF_LOGS	ON: log of logs record OFF: otherwise
	.... 1111		*	reserved
(2)	CHARACTER	8	FLJB_FILE_NAME	name of the file which this record applies to
(A)	CHARACTER	2	*	reserved

Common data for read only, read update, write update, write add and write add complete.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	FLJB_COMMON_DATA	
(0)	UNSIGNED	4	FLJB_CD_ BASE_ESDS_RBA	base RBA of ESDS, or 0 if not an ESDS
(4)	HALFWORD	2	FLJB_CD_ KEY_LENGTH	length of the key for the users data
(6)	CHARACTER	2	*	reserved
(8)	FULLWORD	4	FLJB_CD_ DATA_LENGTH	length of the users data (This could be fixed(15) but allow for future expansion plans.)
(C)	BITSTRING	1	FLJB_CD_BITS	common flag byte
	1... ..		FLJB_CD_SHUNTED	ON: uow has been shunted OFF: otherwise
	.1.. ..		FLJB_CD_ MASS_INSERT	ON: write mass insert when write add or write add complete OFF: otherwise
	..1. ....		FLJB_CD_ MI_FIRST	ON: first write add complete in mass insert sequence
	...1 ....		FLJB_CD_ MI_LAST	ON: end of mi sequence WRTBFR/ENDREQ was successful.
	.... 1...		FLJB_CD_ FIXED_RECFCM	ON: Fixed length record OFF: Variable length record.
	.... .111		*	reserved
(D)	CHARACTER	3	*	reserved

Write delete data

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	FLJB_WRITE_ DELETE_DATA	
(0)	UNSIGNED	4	FLJB_WDD_ BASE_ESDS_RBA	base RBA of ESDS, or 0 if not an ESDS
(4)	HALFWORD	2	FLJB_WDD_ BASE_KEY_LENGTH	length of base key
(6)	HALFWORD	2	FLJB_WDD_ PATH_KEY_LENGTH	length of path key, or 0 if not a path
(8)	BITSTRING	1	FLJB_WDD_BITS	write delete flag byte
	1... ..		FLJB_WDD_ SHUNTED	ON: uow has been shunted OFF: otherwise
	.1.. ..		FLJB_WDD_ FIXED_RECFCM	ON: Fixed length record OFF: Variable length record.
	..11 1111		*	reserved
(9)	CHARACTER	3	*	reserved

File close data

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	28	FLJB_FILE_ CLOSE_DATA	
(0)	CHARACTER	26	FLJB_FCD_ FWDRECOVLOG_NAME	forward recovery log stream name
(1A)	BITSTRING	1	FLJB_FCD_BITS	file close flag byte
	1... ..		FLJB_FCD_ FWD_RECOVERY	ON: forward recovery was specified for this file OFF: otherwise
	.1.. ....		FLJB_FCD_ AUTOJOURNAL	ON: autojournaling was specified for this file OFF: otherwise
	..11 1111		*	reserved
(1B)	CHARACTER	1	*	reserved

Tie up record data

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	136	FLJB_TIE_ UP_RECORD	
(0)	FULLWORD	4	FLJB_TUR_ BASE_CI_SIZE	CI size of base dataset
(4)	FULLWORD	4	FLJB_TUR_ MAXIMUM_LRECL	maximum record length

Offset Hex	Type	Len	Name (Dim)	Description
(8)	FULLWORD	4	FLJB_TUR_ BASE_KEY_POSITION	position of base key within the record
(C)	HALFWORD	2	FLJB_TUR_ BASE_KEY_LENGTH	length of base key
(E)	CHARACTER	1	FLJB_TUR_ DATASET_TYPE	type of dataset: K=KSDS, E=ESDS, P=path, R=RRDS or V=VRRDS
(F)	CHARACTER	1	FLJB_TUR_ RECORD_FORMAT	format of records: V=variable, F=fixed
(10)	HALFWORD	2	FLJB_TUR_ BASE_DSNAME_LENGTH	length of base dataset name
(12)	CHARACTER	44	FLJB_TUR_BASE_DSNAME	base dataset name
(3E)	HALFWORD	2	FLJB_TUR_ PATH_DSNAME_LENGTH	length of path dataset name
(40)	CHARACTER	44	FLJB_TUR_PATH_DSNAME	path dataset name
(6C)	CHARACTER	26	FLJB_TUR_ FWDRECOVLOG_NAME	forward recovery log stream name
(86)	BITSTRING	1	FLJB_TUR_BITS	tie up flag byte
	1... ..		FLJB_TUR_RLS	ON: this was an RLS file OFF: otherwise
	.1... ..		FLJB_TUR_OPEN	ON: tie up record written on open OFF: otherwise
	..1. ....		FLJB_TUR_ TAKE_KEYPOINT	ON: tie up record written for take keypoint request (non-RLS only) OFF: otherwise
	...1 ....		FLJB_TUR_ DATASET_COPY	ON: tie up record written for DSS copy of dataset (RLS only) OFF: otherwise
	.... 1...		FLJB_TUR_ FWD_RECOVERY	ON: forward recovery was specified for this file OFF: otherwise
	.... .1..		FLJB_TUR_ AUTOJOURNAL	ON: autojournaling was specified for this file OFF: otherwise
	.... ..11		*	reserved
(87)	CHARACTER	1	*	reserved

### Constants

Len	Type	Value	Name	Description
1	HEX	80	FLJB_READ_ONLY	
1	HEX	81	FLJB_READ_UPDATE	
1	HEX	82	FLJB_WRITE_UPDATE	
1	HEX	83	FLJB_WRITE_ADD	
1	HEX	84	FLJB_WRITE_ ADD_COMPLETE	
1	HEX	86	FLJB_WRITE_DELETE	
1	HEX	8E	FLJB_FILE_CLOSE	
1	HEX	8F	FLJB_TIE_UP	

## FCS File control static storage

CONTROL BLOCK NAME = DFHFCS  
 DESCRIPTIVE NAME = CICS/ESA File Control static storage area  
 FUNCTION = Maps file control static storage  
 LIFETIME = Created by FCIN1 at CICS initialisation. Survives until CICS termination.  
 STORAGE CLASS = FC\_ABOVE  
 LOCATION = Above the 16MB line, addressed by CSAFCSBA  
 INNER CONTROL BLOCKS = IFGSYSNM (RLS Subsystem Name)  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition  
 File Control Static Storage Layout

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	704	FC_STATIC_STORAGE	FC Static Storage
Standard prefix				
(0)	CHARACTER	16	FC_STATIC_PREFIX	
(0)	HALFWORD	2	FC_STATIC_STORAGE_LENGTH	Length of storage > FC Static Arrow *
(2)	CHARACTER	1	FC_STATIC_ARROW	DFH
(3)	CHARACTER	3	FC_STATIC_DFH	
(6)	CHARACTER	2	FC_STATIC_DOMAIN_ID	FC
(8)	CHARACTER	8	FC_STATIC_BLOCK_ID	STATIC
Storage subpool tokens				
(10)	CHARACTER	8	FC_SUBPOOL_TOKEN_CICS_BELOW	FC CICS stg below 16M
(18)	CHARACTER	8	FC_SUBPOOL_TOKEN_VSAM	VSAM FCT entry storage
(20)	CHARACTER	8	FC_SUBPOOL_TOKEN_BDAM	BDAM FCT entry storage
(28)	CHARACTER	8	FC_SUBPOOL_TOKEN_SHRCTL	SHRCTL block storage
(30)	CHARACTER	8	FC_SUBPOOL_TOKEN_DSNAME	DSNAME block storage
(38)	CHARACTER	8	FC_SUBPOOL_TOKEN_ACB	VSAM ACB storage
(40)	CHARACTER	8	FC_SUBPOOL_TOKEN_DCB	BDAM DCB storage
(48)	CHARACTER	8	FC_SUBPOOL_TOKEN_AFCTE	AFCT entry storage
(50)	CHARACTER	8	FC_SUBPOOL_TOKEN_FRAB	FRAB subpool token
(58)	CHARACTER	8	FC_SUBPOOL_TOKEN_FLAB	FLAB subpool token
(60)	CHARACTER	8	FC_SUBPOOL_TOKEN_ABOVE	Storage above 16M
(68)	CHARACTER	8	FC_SUBPOOL_TOKEN_FRTE	FRTE subpool token
(70)	CHARACTER	8	FC_SUBPOOL_TOKEN_FFLE	FFLE Subpool token
(78)	CHARACTER	8	FC_SUBPOOL_TOKEN_RPL	RPL subpool
(80)	CHARACTER	8	FC_SUBPOOL_TOKEN_FLLB	FLLB subpool token
(88)	CHARACTER	8	FC_SUBPOOL_TOKEN_FCPE	FCPE subpool token
(90)	CHARACTER	8	FC_SUBPOOL_TOKEN_IFGLUWID	

Offset Hex	Type	Len	Name (Dim)	Description
(98)	CHARACTER	8	FC_SUBPOOL_TOKEN_FCPW	IFGLUWID pool
(A0)	CHARACTER	8	FC_SUBPOOL_TOKEN_FCUP	FCPW subpool token
(A8)	CHARACTER	8	*	FCUP subpool token
(B0)	CHARACTER	8	*	Reserved for subpool
File Control restart completion indicators - did FC restart complete successfully? - was the FC environment rebuilt OK? - is this an offsite restart?				
(B8)	FULLWORD	4	FCSRSCMP	Restart completion flags
(B8)	BITSTRING	1	*	
	1... ..		FCSCMPLT	FC restart complete
	.1... ..		FC_NO_ENVIRONMENT	FC restart failed to rebuild FC environment
	..1. ....		FC_OFFSITE_RESTART	FC restart failed to rebuild FC environment
	...1 1111		*	An offsite restart has been specified in order to perform remote site recovery reserved
(B9)	BITSTRING	3	*	
(BC)	BITSTRING	1	*	Reserved
(BD)	BITSTRING	1	*	Reserved
Open for business ECBs (Release 4.2 versions)				
(BE)	BITSTRING	1	FC_NON_RECOV_ALLOWED_ECB	Non-recoverable work
(BF)	BITSTRING	1	FC_RECOV_ALLOWED_ECB	Recoverable work
(C0)	UNSIGNED	2	FC_DFP_REL	DFP release pt. 1
(C2)	UNSIGNED	2	*	Reserved
(C4)	UNSIGNED	4	FC_DFP_REL_2	DFP release pt. 2
(C8)	UNSIGNED	4	FC_HSM_REL	Installed HSM release
(CC)	UNSIGNED	4	FC_DSS_REL	Installed DSS release
SHRCTL block vector table				
(D0)	ADDRESS	4	FC_SHRCTL_VECTORS (8)	Pointers to SHRCTL blocks
Count for connect AFCTE->FCTE				
(F0)	UNSIGNED	4	FC_CONNECT_COUNT	Count for connect
Addresses of FC interface modules				
(F4)	ADDRESS	4	FC_AFMT_ADDRESS	AFMT interface address
(F8)	ADDRESS	4	FC_FCMT_ADDRESS	FCMT interface address
(FC)	ADDRESS	4	FC_FCRL_ADDRESS	FCRL interface address
(100)	ADDRESS	4	FC_FCDN_ADDRESS	FCDN interface address
(104)	ADDRESS	4	FC_FCFS_ADDRESS	FCFS interface address
(108)	ADDRESS	4	*	Reserved for address
(10C)	ADDRESS	4	FC_BDAM_ENTRY_ADDRESS	DFHFCBD entry point address
(110)	ADDRESS	4	FC_FCST_ADDRESS	FCST interface address
(114)	ADDRESS	4	*	Reserved for address
(118)	ADDRESS	4	FC_FCVR_ENTRY	FCVR entry address
(11C)	ADDRESS	4	FC_FCVS_ADDRESS	FCVS entry address
(120)	ADDRESS	4	FC_FCDY_ADDRESS	FCDY entry address
(124)	ADDRESS	4	FC_FCDU_ADDRESS	FCDU entry address
(128)	ADDRESS	4	FC_FCDT_ADDRESS	FCDT entry address
(12C)	ADDRESS	4	FC_FCAT_ADDRESS	FCAT entry address
(130)	ADDRESS	4	FC_FCSD_ADDRESS	FCSD entry address
(134)	ADDRESS	4	FC_FCRO_ADDRESS	FCRO entry address
(138)	ADDRESS	4	FC_FCRS_ADDRESS	FCRS entry address
(13C)	ADDRESS	4	FC_FCRV_ADDRESS	FCRV entry address
(140)	ADDRESS	4	FC_FCRR_ADDRESS	FCRR entry address
(144)	ADDRESS	4	FC_FCCA_ADDRESS	FCCA entry address
(148)	ADDRESS	4	FC_FCRC_ADDRESS	FCRC entry address
(14C)	ADDRESS	4	FC_FCIR_ADDRESS	FCIR entry address
(150)	ADDRESS	4	FC_FCLJ_ADDRESS	FCLJ entry address
(154)	ADDRESS	4	FC_FCES_ADDRESS	FCES entry address
(158)	ADDRESS	4	FC_FCQI_ADDRESS	FCQI entry address
(15C)	ADDRESS	4	FC_FCQU_ADDRESS	FCQU entry address
(160)	ADDRESS	4	FC_FCQX_ADDRESS	FCQX entry address
(164)	ADDRESS	4	FC_FCLF_ADDRESS	FCLF entry address
(168)	ADDRESS	4	FC_FCDO_ADDRESS	FCDO entry address
(16C)	ADDRESS	4	FC_FCFL_ADDRESS	FCFL entry address
(170)	ADDRESS	4	FC_FCNQ_ADDRESS	FCNQ entry address
(174)	ADDRESS	4	FC_FCDR_ADDRESS	FCDR entry address
(178)	ADDRESS	4	*	Reserved for address
Address of FRAB free chain				
(17C)	ADDRESS	4	FC_STATIC_FRAB_FREE_CHAIN	FRAB free chain

Offset Hex	Type	Len	Name (Dim)	Description
Address of FLAB free chain				
(180)	ADDRESS	4	FC_STATIC_ FLAB_FREE_CHAIN	FLAB free chain
Address of FRTE free chain				
(184)	ADDRESS	4	FC_STATIC_ FRTE_FREE_CHAIN	FRTE free chain address
Address of FFLE free chain				
(188)	ADDRESS	4	FC_STATIC_ FFLE_FREE_CHAIN	FFLE free chain address *
Address of RPL free chain				
(18C)	ADDRESS	4	FC_STATIC_ RPL_FREE_CHAIN	RPL free chain
High-water-mark for dsname block numbers				
(190)	FULLWORD	4	FC_DSNBLK_HWM	
(194)	FULLWORD	4	FC_QR_COUNT	QR mode I/O count
(198)	UNSIGNED	1	FC_SUBTASKS	CO Subtask count
(199)	CHARACTER	3	FC_TASK_ID	Task id of task to which FC_QR_COUNT applies
Data table fields				
(19C)	ADDRESS	4	FC_DTTKN	Data table services global token
(1A0)	ADDRESS	4	FC_DTRGL	Data table recovery global token
(1A4)	ADDRESS	4	FC_DTOC	Data table OPEN/CLOSE service
(1A8)	ADDRESS	4	FC_DTLD	Data table LOAD
(1AC)	ADDRESS	4	FC_DTLOC	Data table LOCATE
(1AC)	ADDRESS	4	FC_DT_READ	Data table READ
(1B0)	ADDRESS	4	FC_DTMOD	Data table MODIFY
(1B4)	ADDRESS	4	FC_DT_LOG	Data table LOG
(1B8)	ADDRESS	4	FC_DT_USE	Data table USE
Declarations for IO Buffers				
(1BC)	ADDRESS	4	FC_BUFFER_BASE	Buffer pool base
Head of chain of FRABs				
(1C0)	ADDRESS	4	FC_FRAB_CHAIN	Head of FRAB chain
Head of chain of Pool Elements				
(1C4)	ADDRESS	4	FC_POOL_ ELEM_CHAIN	Head of Pool Elem Chain
Fields for BACKUP WHILE OPEN(BWO) - FUZZY BACKUP: FC_FUZZY_ALLOWED set when correct level of DFP is installed. FC_KEYPOINT_TAKEN set every 30 minutes to signal FCAT to write TURS to the FRLOG. FC_IGWABWO_LOADED set when Callable Services stub loaded FC_IGWABWO_LOAD_FAILED set when load failed. FC_HSM_BACKLEVEL set when HSM 2.5 not installed. FC_DSS_BACKLEVEL set when DSS 2.5 not installed. FC_HSM_DSS_WARNMSG Msg when HSM/DSS 2.5 not installed. FC_KEYPOINT_TIME time of keypoint when RECOV POINT updated FC_KPLE_CHAIN reset when every new KPLE added to chain				
(1C8)	FULLWORD	4	FC_FUZZY_VALUES	
(1C8)	BITSTRING	1	*	
	1... ..		FC_FUZZY_ALLOWED	Set when BWO allowed
	.1.. ..		FC_KEYPOINT_TAKEN	Set every 30 minutes
	..1. ....		FC_IGWABWO_LOADED	Set when load attempted
	...1 ....		FC_IGWABWO_LOAD_FAILED	
	.... 1...		FC_HSM_BACKLEVEL	Set if load fail HSM 2.5 not installed
	.... .1..		FC_DSS_BACKLEVEL	DSS 2.5 not installed
	.... ..1.		FC_HSM_DSS_WARNMSG	HSM/DSS warning message
	.... ..1		*	Reserved
(1C9)	BITSTRING	3	*	Reserved
(1CC)	CHARACTER	8	FC_KEYPOINT_TIME	Last keypoint time
(1CC)	UNSIGNED	4	FC_KEYPOINT_WK1	Left word (1bit=1sec)
(1D0)	UNSIGNED	4	FC_KEYPOINT_WK2	right word
(1D4)	ADDRESS	4	FC_KPLE_CHAIN	Anchor for KPLE chain
(1D8)	ADDRESS	4	FC_IGWABWO	EP IGWABWO
(1DC)	CHARACTER	4	*	Reserved
Entry point for IGWARLS				
(1E0)	ADDRESS	4	FC_IGWARLS	EP IGWARLS
General data table fields				
(1E8)	CHARACTER	8	FC_DT_LAST_INIT	Time of last attempt to issue AOR DTP_INIT

Offset Hex	Type	Len	Name (Dim)	Description
(1E8)	UNSIGNED	4	FC_DT_LH_LAST_INIT	Left half of clock
(1F0)	ADDRESS	4	FC_DT_2	Entry point for data tables initialization
(1F4)	ADDRESS	4	FC_DT_CLOSE_CHAIN	Files to be closed
(1F8)	BITSTRING	1	FC_DT_CLOSE_ECB	Files to be closed ECB
(1F9)	BITSTRING	1	*	FOR support indicators
	1... ..		FC_DT_FOR_NOSHARING	FOR cannot support SDT
	.1.. ..		FC_DT_FOR_LOGGED_ON	FOR logged on
	..1. ....		FC_DT_FOR_NOTAUTH	FOR not authorized
	...1 1111		*	Reserved
(1FA)	BITSTRING	1	*	AOR support indicators
	1... ..		FC_DT_AOR_NOSHARING	AOR cannot use SDT
	..11 1111		*	Reserved
(1FB)	BITSTRING	1	*	Reserved
Data table fields				
(1FC)	ADDRESS	4	FC_DT_REMOTE_GLOBAL	Remote table services global area
(200)	ADDRESS	4	FC_DT_SIGNAL	Addr STCK field in ECSA indicating table opens
(204)	ADDRESS	4	FC_DT_CONNECT	Data table CONNECT
(208)	ADDRESS	4	FC_DT_REMOTE_READ	Data table SDT read
(20C)	ADDRESS	4	FC_DT_REMOTE_USE	Data table set user
(210)	ADDRESS	4	FC_DT_BF	Bind fail chain
Miscellaneous RLS fields				
(214)	UNSIGNED	2	FC_TIMEOUT	Global timeout value
(216)	BITSTRING	1	*	RLS Indicators
	1... ..		FC_RLS_ACCESS_DISABLED	All RLS access disabled
	.1.. ....		FC_CACHE_MSG_SENT	Cache message sent
	..1. ....		FC_RLS_SUPPORTED	RLS supported
	...1 ....		FC_RLS_RECOVERY_ONLY	Only recovery work may access RLS
	.... 1...		FC_ACUCB_SUPPORTED	UCB VSCR supported
	.... .1..		FC_CATALOG_SUPPORTED	Non-rls recovery attributes from catalog supported
	.... ..1.		FC_LSR_INCLUDE_RLS_FCTES	Include RLS in build@PGA
	.... ...1		*	Reserved
(217)	BITSTRING	1	FC_RLS_LAST_ACB_ECB	ECB is posted when the last open RLS ACB is closed.
(218)	ADDRESS	4	FC_RLS_ACB_CHAIN	Anchor for chain of open RLS ACBs
(21C)	ADDRESS	4	FC_INQRECOV_ADDRESS	Address of the most recent INQUIRE RECOVERY Area
(220)	FULLWORD	4	FC_INQRECOV_LENGTH	Length of the most recent INQUIRE RECOVERY Area
(224)	UNSIGNED	2	FC_QUIESTIM	Quiesce timeout value
(226)	CHARACTER	2	*	Reserved for RLS
RLS Control ACB Area				
(228)	CHARACTER	24	FC_SUBSYSNM	Sub system name
(240)	ADDRESS	4	FC_CTL_ACB_ADDRESS	Control ACB address
(244)	ADDRESS	4	FC_CTL_ACB_RPL_CHAIN	Active RPL chain
(248)	FULLWORD	4	FC_CTL_ACB_TOTAL_WAITS	Total # of string waits
(24C)	FULLWORD	4	FC_CTL_ACB_CURRENT_WAITS	Current # of string waits
(250)	FULLWORD	4	FC_CTL_ACB_HWM_WAITS	String wait high water mark
(254)	UNSIGNED	2	FC_CTL_ACB_ACT_STRINGS	Active string count
(256)	BITSTRING	1	FC_CTL_ACB_STRING_ECB	String wait ECB
(257)	BITSTRING	1	FC_CTL_ACB_UNREG_ECB	ECB posted when control ACB unregistered
(258)	BITSTRING	1	FC_CTL_ACB_LAST_RQST_ECB	ECB is posted when the last active Control ACB request completes.
Emergency and Dynamic Restart Serialisation - ECBs & Flags				
(259)	BITSTRING	1	FC_RESTART_LOG_SCAN_ECB	Restart log scan ECB. Hand-posted when the system log scan at emergency restart ends.



Offset Hex	Type	Len	Name (Dim)	Description
(25A)	BITSTRING	1	FC_DYRRE_COMPLETED_ECB	DYRRE Completed ECB. Hand-posted when a dynamic RLS restart completes, whether successful or not.
(25B)	BITSTRING 1... ..	1	* FC_DYRRE_IN_PROGRESS	Restart Flags  DYRRE in Progress flag. Set whilst a dynamic RLS restart is in progress, clear when one is not.
(25C)	FULLWORD .111 1111	4	* FC_SERVER_SEQUENCE	Reserved Sequence number of server. Starts at 1. At first recycle goes to 2 etc.
Unused				
(260)	CHARACTER	4	*	Reserved
Pointers to VSAM exit lists				
(264)	ADDRESS	4	FC_VSAM_EXIT_LIST_PTR	VSAM exit list
(268)	ADDRESS	4	FC_RLS_EXIT_LIST_PTR	RLS exit list
(26C)	ADDRESS	4	FC_RLS_CTL_EXIT_LIST_PTR	RLS Control ACB exit list
(270)	CHARACTER	4	*	Reserved for exit list
RLS Quiesce fields				
(274)	CHARACTER	40	FC_QUIESCE_DATA	Quiesce fields
(274)	CHARACTER	16	FC_FCQSE_CHAIN_DATA	FCQSE element chain
(274)	ADDRESS	4	FC_FCQSE_FIRST	-> first
(278)	ADDRESS	4	FC_FCQSE_LAST	-> last
(27C)	BITSTRING	4	FC_FCQSE_ECB	Post ECB when adding
(280)	CHARACTER	4	*	Reserved for quiesce
(284)	CHARACTER	16	FC_FCQRE_CHAIN_DATA	FCQRE element chain
(284)	ADDRESS	4	FC_FCQRE_FIRST	-> first real
(288)	ADDRESS	4	FC_FCQRE_ISOLATE	-> first isolated
(28C)	BITSTRING	4	FC_FCQRE_ECB	Post ECB when adding
(290)	ADDRESS	4	FC_FCQRE_ERROR	-> error element
(294)	ADDRESS	4	FC_CFQS_ECBLIST	-> CFQS task ECB list
(298)	BITSTRING 1... .. .1. .... ..11 1111	1	FC_QUIESCE_FLAGS FC_CFQS_TERM FC_CFQR_TERM *	Quiesce flags =1 to stop CFQS task =1 to stop CFQR task Reserved for quiesce
(299)	CHARACTER	3	*	Reserved for quiesce
NQ domain ENQ/DEQ pool tokens. These tokens are for NQ domain pools established during FC initialisation. Separate pools are used for record locks, mass insert range locks, ESDS write locks etc.				
(29C)	CHARACTER	24	FC_NQ_POOL_TOKENS	
(29C)	ADDRESS	4	FC_DS_RECORD_NQ_POOL_TOKEN	
(2A0)	ADDRESS	4	FC_FILE_RECORD_NQ_POOL_TOKEN	
(2A4)	ADDRESS	4	FC_DS_RANGE_NQ_POOL_TOKEN	
(2A8)	ADDRESS	4	FC_DS_LOAD_MODE_NQ_POOL_TOKEN	
(2AC)	ADDRESS	4	FC_DS_ESDS_WRITE_NQ_POOL_TOKEN	
(2B0)	ADDRESS	4	FC_FILE_UMT_LOAD_NQ_POOL_TOKEN	
(2B4)	FULLWORD	4	FC_CFDL_LOADER_ID	
Unused				
(2B8)	CHARACTER	8	*	Reserved
End of FC static				
(2C0)	CHARACTER		FC_STATIC_END	

```

MACRO NAME: IFGSYSNM
DESCRIPTION: Mapping the Subsystem Name Control Block
STATUS: Version 1 DFSMS Release 3.0
PROPRIETARY V3 STATEMENT
LICENSED MATERIALS - PROPERTY OF IBM
"RESTRICTED MATERIALS OF IBM"
5695-DF1
END PROPRIETARY V3 STATEMENT
FUNCTION = Mapping macro for SubSystem Name
INCLUDED MACROS = NONE
METHOD OF ACCESS = PL/X-370 OR ASSEMBLER
    
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	24	IFGSYSNM	
(0)	CHARACTER	16	SYSNMHDR	
(0)	CHARACTER	8	SYSNMID	Eye Catcher - IFGSYSNM
(8)	FULLWORD	4	SYSNMLEN	Control Block Length
(C)	UNSIGNED	1	SYSNMVER	Version Identifier
(D)	CHARACTER	3	*	Reserved
(10)	CHARACTER	8	SYSNMVAL	SubSystem Name

### Constants

Len	Type	Value	Name	Description
2	DECIMAL	36	VSAM_EXLST_LENGTH	Length of exit list
Length of File Control static storage				
2	DECIMAL	704	FC_STATIC_LENGTH	
Eye catcher - block id				
8	CHARACTER	STATIC	FC_STATIC_ID	
Maximum number of strings for control ACB				
4	DECIMAL	1024	FC_CTL_ACB_MAX_STRINGS	
Minimum DFP release levels for RLS support				
2	HEX	3321	MIN_RLS_DFP_LEVEL1	
4	HEX	01010300	MIN_RLS_DFP_LEVEL2	
SYSNM Constants				
8	CHARACTER		SYSNMNUL	Null Subsys Name
8	CHARACTER	IFGSYSNM	SYSNMIDC	Eyecatcher
1	DECIMAL	1	SYSNMVRC	Version
NQ domain ENQ/DEQ pool names				
8	CHARACTER	FCDSRECD	FC_DS_RECORD_ NQ_POOL_NAME	
8	CHARACTER	FCFLRECD	FC_FILE_RECORD_ NQ_POOL_NAME	
8	CHARACTER	FCDSRNGE	FC_DS_RANGE_ NQ_POOL_NAME	
8	CHARACTER	FCDSLDM	FC_DS_LOAD_ MODE_NQ_POOL_NAME	
8	CHARACTER	FCDSSEWR	FC_DS_ESDS_ WRITE_NQ_POOL_NAME	
8	CHARACTER	FCFLUMTL	FC_FILE_UMT_ LOAD_NQ_POOL_NAME	

## FCT File control table entry layout

CONTROL BLOCK NAME = DFHFCTDS  
 DESCRIPTIVE NAME = CICS/ESA FILE CONTROL TABLE ENTRY LAYOUT  
 FUNCTION =  
 To map an entry in the File Control Table.  
 The File Control Table is the principal repository of definitions of the database (or FILE) component. Other modules access it at their peril.  
 Each entry ordinarily matches a call of the DFHFCT macro, and describes a database file.  
 There is another dsect (DFHFCTSR) to treat shared resource pools, which appear in another connected table.  
 The following fields form part of the Product Sensitive Programming Interface:  
 FCTDSID  
 FCTDSVR1 to FCTDSKL  
 FCTDSRKP  
 FCTDSJID  
 FCTDSDP  
 FCTDSBCP  
 Bit settings FCTKSDS, FCTESDS, FCTRRDS of FCTVSVR1  
 Bit settings FCTJFR, FCTJWAC of byte FCTDSVR6  
 FCTDSREC  
 FCTDSBLK  
 FCTDTSIZ  
 LIFETIME =  
 FCT entries are created at File Control restart and are always present thereafter.  
 STORAGE CLASS =  
 Part of the CICS nucleus.  
 LOCATION =  
 By the Table Management Program.  
 INNER CONTROL BLOCKS =  
 None. There are some fields with alternative meanings.  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = Sequence symbols must not coincide with any that are used by objects that imbed this; in particular, the prefix .FC causes the Assembler to loop.  
 MODULE TYPE = Control block definition  
 FILE CONTROL TABLE

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHFCTDS	DUMMY SECTION FILE CONTROL TABLE
FCTE prefix				
(0)	CHARACTER	8	FCTDSID	Dataset identification
(8)	ADDRESS	4	FCTAFCTP (0)	Pointer to AFCT entry
(8)	FULLWORD	4	FCTAFCTOK (2)	AF_CONNECT_TOKEN
(10)	FULLWORD	4	FCTFCTKN	FC connect token count part
(14)	ADDRESS	2	FCTDSTEL	Table entry length
DATA SET CONTROL INDICATOR 1				
All 'Capabilities' (as derived from SERVREQ)				
(16)	BITSTRING	1	FCTDSVR1	DATA SET CONTROL INDICATOR 1
	...1 .11.		FCTDSRI	"FCTDSVR1" READ INDICATOR
	1... ....		FCTRDIM	"X'80" READ VALID
	...1 .11.		FCTDSUPD	"FCTDSVR1" READ UPDATE INDICATOR
	...1 ....		FCTUPDIM	"X'20" UPDATE VALID
	...1 .11.		FCTDSADD	"FCTDSVR1" WRITE NEW RECORD INDICATOR
	...1 ....		FCTADDIM	"X'10" ADD VALID
	...1 .11.		FCTDSDI	"FCTDSVR1" DELETION VALIDITY INDICATOR
	.... 1... .		FCTDELIM	"X'08" DELETE VALID
	...1 .11.		FCTBRWSE	"FCTDSVR1" BROWSE VALIDITY INDICATOR
	.... ..1.		FCTBRZIM	"X'02" BROWSE VALID
DATA SET CONTROL INDICATOR 2				
Flags relating to structure of records (mainly BDAM)				
(17)	BITSTRING	1	FCTDSVR2	DATA SET CONTROL INDICATOR 2
	...1 .111		FCTDSEXC	"FCTDSVR2" EXCLUSIVE CONTROL INDICATOR
	1... ....		FCTEXCIM	"X'80" EXCLUSIVE CONTROL (BDAM)
	...1 ....		FCT_SET_AFTER	"X'40" Acquire SET storage after file request is complete
	...1 .111		FCTDSVRT	"FCTDSVR2" DECIMAL RELATIVE TRACK INDICATOR
	...1 ....		FCTDRTIM	"X'10" DECIMAL RELATIVE TRACK ACCESSING
	...1 .111		FCTDSVLI	"FCTDSVR2" RECORD LENGTH TYPE INDICATOR
	.... 1... .		FCTVRLIM	"X'08" VARIABLE LENGTH RECORDS
	.... ..1.		FCTFIXIM	"X'04" FIXED LENGTH RECORDS
	...1 .111		FCTDSNBK	"FCTDSVR2" RECORD BLOCKING INDICATOR
	.... ..1.		FCTBLKIM	"X'02" BLOCKED RECORDS
	...1 .111		FCTDSKEY	"FCTDSVR2" BDAM KEY SEARCH INDICATOR

Offset Hex	Type	Len	Name (Dim)	Description
.... ..1			FCTKEYIM	"X'01" KEYED BDAM
DATA SET CONTROL INDICATOR 3 Flags defining the access method				
(18)	BITSTRING	1	FCTDSVR3	DATA SET CONTROL INDICATOR 3
.... 1..			FCTDSVSM	"FCTDSVR3" VSAM INDICATOR
1.. ..			FCTVSAMI	"X'80" VSAM DATA SET
.1. ....			FCTDTBL	"X'40" Data table
..1. ....			FCTDTUM	"X'20" User data table
.... 1..			FCTREMOT	"X'08" Remote FCTE
.... .1.			FCTRLS	"X'04" RLS file
.... ..1			FCTCFDT	"X'02" Coupling Facility Data Table
.... 1..			FCTDSBDM	"FCTDSVR3" BDAM DATA SET INDICATOR
.... ..1			FCTBDAMI	"X'01" BDAM DATA SET
DATA SET CONTROL INDICATOR 4 Flags to govern journaling and logging.				
(19)	BITSTRING	1	FCTDSVR4	DATA SET CONTROL INDICATOR 4
.... 1..1			FCTDSJRO	"FCTDSVR4" JOURNAL READ ONLYS INDICATOR
1.. ..			FCTJRO	"X'80" JOURNAL READ ONLYS
.... 1..1			FCTDSJRU	"FCTDSVR4" JOURNAL READS FOR UPDATE INDICATOR
.1. ....			FCTJRU	"X'40" JOURNAL READS FOR UPDATE
.... 1..1			FCTDSJWU	"FCTDSVR4" JOURNAL WRITE UPDATES INDICATOR
..1. ....			FCTJWU	"X'20" JOURNAL WRITE UPDATES
.... 1..1			FCTDSJWA	"FCTDSVR4" JOURNAL WRITE ADDS INDICATOR
.... ..			FCTJWA	"X'10" JOURNAL WRITE ADDS
.... 1..1			FCTDSJDS	"FCTDSVR4" DSNNAME HAS BEEN JOURNALLED IND
.... 1..			FCTJDSN	"X'08" DSNNAME HAS BEEN JOURNALLED
.... 1..1			FCTDSJSY	"FCTDSVR4" SYNCHRONOUS READS JOURNAL INDICATOR
.... .1.			FCTJSYN	"X'04" SYNCHRONOUS READS JOURNAL
.... 1..1			FCTDSJAS	"FCTDSVR4" ASYNCHRONOUS WRITES JRNL INDICATOR
.... ..1			FCTJASY	"X'02" ASYNCHRONOUS WRITES JOURNAL
.... 1..1			FCTDSLOG	"FCTDSVR4" USE SYSTEM LOG INDICATOR
.... ..1			FCTLOG	"X'01" USE SYSTEM LOG
FILE STATE THE NEW FILE STATES ALLOW FOR "TRANSITIONAL" CONDITIONS. IF " TM FCTDSTAT,FCTDSENI" YIELDS "ONES", THEN I/O REQUESTS ARE ALLOWED, EVEN IF THE TASK MUST WAIT FOR A DATA SET TO BE OPENED, SUBJECT TO SERVREQ CHECKING.				
(1A)	BITSTRING	1	FCTDSTAT	File state
.... 1..1			FCTDSOPN	"FCTDSTAT" (Early-open indicator)
1.. ..			FCTOPNIM	"X'80" Data set is to be opened by utility rather than on first reference.
.1. ....			FCTDSOPI	"X'40" Data set is open or opening
..1. ....			FCTDSOPX	"X'20" OPEN/CLOSE state is transitional
HENCE: .10..... OPEN .00..... CLOSED .01..... CLOSING .11..... OPENING				
.... 1..			FCTDSCRQ	"X'10" 'CLOSE' has been requested
.... .1.			FCTDSENI	"X'04" Data set is enabled
.... ..1			FCTDSIMP	"X'02" Disabled only implicitly via close
HENCE: .....10. ENABLED .....01. DISABLED implicitly via CLOSE .....00. DISABLED explicitly .....11. ( never valid )				
(1B)	BITSTRING	1	FCTDTCLS	"X'01" Close data table source
.... ..1			FCTDSKL	Key length
(1C)	BITSTRING	1	FCTBFLGS	Backout Flags
1.. ..			FCTBACKO	"X'80" LOG=Y for this file while open
.... .1.			FCTFOPEN	"X'04" Dynamically allocated and the first to be opened
.... ..1			FCTCLUN	"X'02" File closed & marked unena- bled after an open failure
(1D)	BITSTRING	1	FCTCFKL	CFDT user specified keylength
(1E)	BITSTRING	1		Reserved
(1F)	BITSTRING	1		Reserved
(20)	FULLWORD	4	FCTLGTKN	Autojnl log token from Logger
(24)	BITSTRING	1	FCTDSMSW	AT MAX STRINGS WAIT BYTE
(25)	BITSTRING	1	FCTDPSW	AT PSEUDO MAX STRINGS WAIT BYTE
(26)	ADDRESS	2	FCTDSRKP	RELATIVE KEY POSITION
(28)	BITSTRING	1	FCTDSJID	USER JOURNAL ID
DATA SET CONTROL INDICATOR 5 Certain conditions that apply to any local data set, while open.				
(29)	BITSTRING	1	FCTDSVR5	DATA SET CONTROL INDICATOR 5
CONDITIONS GIVEN AT TABLE-GENERATION -				
1.. ..			FCTDPSHR	"X'80" "DISP=SHR" FOUND
.1. ....			FCTDPOLD	"X'40" "DISP=OLD" FOUND
CONDITIONS FOUND WHILE PROCESSING AN "OPEN" REQUEST -				
.... ..1			FCTSDA	"X'02" DYNAMICALLY ALLOCATED DATA SET
.... ..1			FCTDSCLX	"X'01" CLOSE IN PROGRESS

Offset Hex (2A)	Type	Len	Name (Dim)	Description
	BITSTRING	1		Reserved
<b>ACCESS - STATE PROTECTION</b>				
Some flags are defined for in-progress state changes The following three ECBs (or "wait bytes") exist to serialise certain combinations of state-change requests. Only one of them can be WAITing at any moment, but any combination may be POSTed (implying present or past existence of tasks that waited for an action of the specific kind to complete). Next there is an ECB for serialising data table loads				
(2B)	BITSTRING	1	FCTINPFL ..1. 1.11 1... ..	In-progress flags "FCTINPFL" Disable in-progress indicator "X'80" Disable is in progress
(2C)	BITSTRING	1	FCTOPECB	"OPEN" state-change ECB
(2D)	BITSTRING	1	FCTDIECB	"DISABLE" state-change ECB
(2E)	BITSTRING	1	FCTCLECB	"CLOSE" state-change ECB
(2F)	BITSTRING	1	FCTDTLDC	Table load complete
<b>STATISTICS</b>				
(30)	FULLWORD	4	FCTDSRD	NUMBER OF READ REQUESTS
(34)	FULLWORD	4	FCTDSWRA	NUMBER OF ADD RECORD REQS
(38)	FULLWORD	4	FCTDSWRU	NUMBER OF UPDATE REQUESTS
(3C)	FULLWORD	4	FCTDSXCP	NO. OF EXCP CALLS TO LAST CLOSE
(40)	FULLWORD	4	FCTDSIXP	NUMBER OF EXCP REQUESTS TO INDEX
(44)	FULLWORD	4	FCTDSGU	COUNT GET UPDATE REQUESTS
(48)	FULLWORD	4	FCTDSBR	NUMBER OF BROWSE REQUESTS
(4C)	FULLWORD	4	FCTDSBRU	No. of update browse requests
(50)	CHARACTER	8	FCTOPENT	Time file opened
(58)	ADDRESS	4	FCTDSFRT	Address of a FRTE
(5C)	FULLWORD	4	FCTDYNAL (0)	
<b>DYNAMIC ALLOCATION</b>				
(5C)	ADDRESS	4	FCTDSDP	>> DSNAME ENTRY FOR DYNAMIC ALLOCATION.
(60)	ADDRESS	4	FCTDSBCP	>> DSNAME ENTRY WITH BASE CLUSTER NAME.
Buffer pool pointer				
(64)	ADDRESS	4	FCTDSBFP	Pointer to buffer pool header
(68)	FULLWORD	4	FCTVSEXT (0)	BASE FOR OVERLAYING
<b>VSAM EXTENSION</b>				
(68)	ADDRESS	4	FCTDSBWC	BUFFER WAIT CHAIN
(6C)	HALFWORD	2	FCTDSCBW	CURRENT # WAITING FOR BUFFER
(6E)	HALFWORD	2	FCTDSHBW	HIGHEST # WAITED FOR BUFFER
(70)	FULLWORD	4	FCTDSTBW	TOTAL # WAITED FOR BUFFER
(74)	ADDRESS	4	FCTVSWA	Free VSWAs
(78)	BITSTRING	1	FCTDSDBN	BUFFER SIZE INDEX FOR DATA BUFFERS
(79)	BITSTRING	1	FCTDSIBN	BUFFER SIZE INDEX FOR INDEX BUFFERS
(7A)	BITSTRING	1	FCTVSVR1	VSAM DATA SET CONTROL IND 1
			..111 1.1.	FCTDSKSD
			1... ..	FCTKSDS
			..111 1.1.	FCTDSESD
			1.. ..	FCTESDS
			..111 1.1.	FCTDSSHR
			..1. ....	FCTSHRIM
			.... 1..	FCTSHRSP
			..111 1.1.	FCTDSSGF
			.... 1..	FCTSHBG
			.... ..1.	FCTVRRDS
			..111 1.1.	FCTDSADR
			.... ..1.	FCTADR
			..111 1.1.	FCTDSRRD
			.... ..1	FCTRRDS
(7B)	BITSTRING	1	FCTDSOBJ	VSAM OBJECT TYPE (OR MODE)
<b>MODE OF ACCESS THROUGH VSAM (DETERMINED AT OPEN-TIME, ON OS)</b>				
			..111 1.11	FCTDSPAT
			...1 ....	FCTPATH
			..111 1.11	FCTDSALT
			.... 1..	FCTALTIX
			.... ..1.	FCTBASE
(7C)	ADDRESS	1	FCTIPOOL	LSR POOL IDENTIFIER
(7D)	BITSTRING	1	FCTVSVR2	VSAM DS INDICATOR 2
			1... ..	FCT_IMMEDIATE_CLOSE
			1.. ..	FCTDTOPN
			..1. ....	FCTNODSN
			.... 1..	FCTILFLG
			.... ..1.	FCTDREUS
			.... ..1.	FCTMTYRQ
			.... ..1	FCTDLFLG
<b>DATA SET CONTROL INDICATOR 6</b> VSAM only journaling and logging options.				
(7E)	BITSTRING	1	FCTDSVR6	Dataset control indicator 6
			1... ..	FCTJFR
			..1. ....	FCTJWAC

Offset Hex	Type	Len	Name (Dim)	Description
	..1. ....		FCTFUZZY	"X'20" Fuzzy Image Copy Allowed according to FCTE
	...1 ....		FCTBWO	"X'10" BWO allowed for this FCTE set according to FCTE or VSAM Catalog - whichever is being used
EQU X'08' Reserved EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved DATA SET CONTROL INDICATOR 7 VSAM RLS options.				
(7F)	BITSTRING	1	FCTDSVR7	RLS bit settings
	1... ....		FCTCR	"X'80" Consistent read
	.1.. ....		FCTRR	"X'40" Repeatable read
	..1. ....		FCTUQENA	"X'20" Re-ENABLE on QUIOPEN
	...1 ....		FCTCQENA	"X'10" Re-ENABLE on QUICEND
(80)	HALFWORD	2	FCTDSASC	Active string count
(82)	HALFWORD	2	FCTDSCWC	VSAM current string wait count
THE NEXT TWO FIELDS CONTAIN LIMITS, AGAINST WHICH FCTDSASC IS TESTED.				
(84)	HALFWORD	2	FCTDSMSC	Upper limit for string count
(86)	HALFWORD	2	FCTDSPMS	Limit for UPDATE/ADD string count
THE NEXT THREE FIELDS CONTAIN HISTORICAL INFORMATION, COLLECTED FOR USE IN STATISTICAL REPORTS				
(88)	FULLWORD	4	FCTDSTSW	Total # tasks waited for string
(8C)	FULLWORD	4	FCTDSEDL	Number of DELETES
(90)	HALFWORD	2	FCTDSSHWS	Highest # tasks waited on string
(92)	HALFWORD	2	FCTUPSTG	Number of strings required by VSAM during an UPDATE request
THE NEXT FIELD IS THE MAXIMUM RECORD LENGTH SPECIFIED IN THE DEFINITION OF THE VSAM DATA SET AND IS ALSO USED FOR ESTIMATING THE SIZE OF BUFFER REQUIRED FOR LARGE VSAM RECORDS.				
(94)	FULLWORD	4	FCTMAXLN	Maximum record length
(98)	FULLWORD	4	FCTCFRLN	CFDT user specified reclen
TWO FIELDS REPRESENT SYSTEM-PROGRAMMER-SUPPLIED VALUES, THAT WILL BE DYNAMICALLY INSERTED IN THE ACB :				
(9C)	HALFWORD	2	FCTBUFND	Specified number of data buffers
(9E)	HALFWORD	2	FCTBUFNI	Specified number of index buffers
(A0)	FULLWORD	4	FCTDSACB	Pointer to VSAM ACB
(A4)	BITSTRING	1	FCTDSBWE	Buffer wait ECB
(A5)	BITSTRING	1		Reserved
(A6)	BITSTRING	1	FCTFRLOG	Forward recovery log id
(A7)	BITSTRING	1	FCTVSPWL	VSAM password length
(A8)	CHARACTER	8	FCTVSPWD	VSAM password
(B0)	CHARACTER	8	FCTBASEN	Symbolic name of base
(B8)	FULLWORD	4	FCTDTSIZ	Data table size
(BC)	ADDRESS	4	FCTDTTKN	Data table token
(C0)	FULLWORD	4	FCTDTRDS	Data table reads
(C4)	FULLWORD	4	FCTDTRNF	Data table reads via VSAM
(C8)	FULLWORD	4	FCTDTAVR	Data table adds via read
(CC)	FULLWORD	4	FCTDTADS	Data table adds via API
(D0)	FULLWORD	4	FCTDTARJ	Data table adds suppressed
(D4)	FULLWORD	4	FCTDTATF	Data table adds and table full
(D8)	FULLWORD	4	FCTDTRWS	Data table rewrites
(DC)	FULLWORD	4	FCTDSDL	Data table deletes
(E0)	FULLWORD	4	FCTDTLDS	Data table LOADING responses
(E4)	FULLWORD	4	FCTDTSHI	Data table record hwm
(E8)	ADDRESS	4	FCTDTPH	Data table path token
(EC)	ADDRESS	4	FCTBCCHN	Open file chain
(F0)	ADDRESS	4	FCT_NEXT_RLS_FCTE	Address of next file open in RLS mode
(F4)	ADDRESS	4	FCT_BC_CONN_CHAIN	Address of next FCT entry connected to this base
(F8)	ADDRESS	4	FCT_RLS_TIMEOUTS	Number Of RLS timeouts
(FC)	CHARACTER	8	FCTDT_NAME	Data Table Name
(104)	CHARACTER	8	FCTCF_POOL_NAME	CFDT Pool Name
(10C)	ADDRESS	4	FCTCF_POOL_ELEM_ADDR	Address of pool element
(110)	ADDRESS	4	FCTCF_NEXT_IN_POOL_CHAIN	Address of next FCT entry open against a CFDT in this pool
(114)	FULLWORD	4	FCTCF_DT_TOKEN	CFDT Token
(118)	BITSTRING	1	FCTCF_FLAGS	CFDT Flags Byte
	1... ....		FCTCF_UM_CONTEN	"X'80" CFDT update model is contention
	.1.. ....		FCTCF_LOADREQ	"X'40" CFDT requires loading
	..1. ....		FCTCF_SOURCE	"X'20" CFDT has a source data set
	...1 ....		FCTCF_REOPEN	"X'10" CFDT access needs reopening
(11C)	FULLWORD	4	FCTCF_LOADER_ID	CFDT loader id
(120)	CHARACTER	3		Reserved
(120)	FULLWORD	4	FCTVSEL	"-DFHFCTDS" Length of VSAM file entry
(68)	FULLWORD	4	FCTDAEXT (0)	
BDAM EXTENSION				
(68)	ADDRESS	4	FCTSDCB	Data Control Block address
(6C)	ADDRESS	2	FCTDSREC	Record length

Offset Hex	Type	Len	Name (Dim)	Description
(6E)	ADDRESS .111 ....	2	FCTDSBLK FCTNVEL	Block size "-DFHFCTDS" Length of BDAM file entry

FILE CONTROL TABLE PREFIX

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHFPFDS	TO PRECEDE FIRST FCT ENTRY
(0)	BITSTRING	1	FPFATTR	ATTRIBUTES OF LOCAL FILES SEE DFHFCT FOR SIGNIFICANCE
(1)	BITSTRING	3		RESERVED
(4)	ADDRESS	4	FPFAFCTA	First AFCT entry
(8)	ADDRESS	4	FPFSELFA	SELF-POINTER (FOR F-DUMP)
(C)	ADDRESS	4		Reserved
(10)	ADDRESS	4		Reserved
(14)	ADDRESS	4		Reserved
(18)	ADDRESS	4	FPFPVADR	ADDRESS SHARED-POOL VECTOR
(1C)	ADDRESS ..1. ....	4	FPFPRFL	Reserved "-DFHFPFDS" LENGTH OF FCT PREFIX

## FCTSR File control shared resources

CONTROL BLOCK NAME = DFHFCTSR  
 DESCRIPTIVE NAME = CICS FCT SHARED RESOURCES CONTROL BLOCK  
 FUNCTION =  
 To represent CICS's requirements of, and use made of,  
 a VSAM local shared resources pool.  
 Part of FILE CONTROL (the database component).  
 There is one instance for each pool mentioned in the  
 FCT, ie up to 8 in OS and 1 in VSE.  
 LIFETIME & STORAGE CLASS =  
 Same as the rest of the FCT.  
 LOCATION =  
 By pointers and identifying numbers, all within the FCT.  
 INNER CONTROL BLOCKS =  
 None in the strict sense.  
 Certain fields repeat others defined in DFHFCSBK,  
 and can be used as a work area.  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None.  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
 DATA AREAS =  
 The six fields named FCTVR... are all defined over  
 the list-form of VSAM macro BLDVRP.  
 CONTROL BLOCKS =  
 None.  
 GLOBAL VARIABLES (Macro pass) = Used only for splitting source.  
 FILE CONTROL TABLE  
 SHARED RESOURCES CONTROL

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHFCTSR	VSAM SHARED RESOURCES CONTROL
(0)	CHARACTER	8	FCTSRGRP (0)	(RDO group name)
(0)	CHARACTER	8		SHARED RESOURCES CONTROL EYE-CATCHER
(8)	BITSTRING	1	FCTSRCSN (0)	STRING-NUMBER STATUS
	1... ....		FCTCPSTN	"X'80" MUST COMPUTE STRING NUMBER
(8)	BITSTRING	1	FCTSRCKL (0)	KEY-LENGTH STATUS
	.1.. ....		FCTCPKYL	"X'40" MUST COMPUTE LENGTH FOR KEYS
(8)	BITSTRING	1	FCTSRCCI (0)	STATUS OF CI SIZES
	..1. ....		FCTCPCIS	"X'20" MUST COMPUTE CI SIZES
(8)	BITSTRING	1	FCTSRSDI (0)	Separate DATA/INDEX buffers
	...1 ....		FCTSRSEP	"X'10" Use separate buffers
(8)	BITSTRING	1	FCTSRORG (0)	SHRCTL block origin
	.... 1..		FCTSRUSR	"X'08" Defined by TYPE=SHRCTL
(8)	BITSTRING	1	FCTSRERR (0)	ERROR BUILDING POOL
	.... ..1.		FCTSRDMP	"X'02" FORMATTED DUMP ISSUED
(8)	BITSTRING	1	FCTSRPST (0)	STATUS OF THIS POOL
	.... ..1		FCTSRBLT	"X'01" POOL IS BUILT
(8)	BITSTRING	1		SHARED RESOURCES CONTROL FLAGS
(9)	SIGNED	1	FCTSRPID	NUMERICAL POOL IDENTIFIER

Offset Hex	Type	Len	Name (Dim)	Description
(A)	HALFWORD	2	FCTSRUC	NUMBER OF OPEN ACBs ON THE POOL
(C)	ADDRESS	4	FCTSRBWC	BUFFER WAIT CHAIN START
(10)	ADDRESS	4	FCTSR TSC	Transaction ID suspend chain
(14)	HALFWORD	2	FCTSRPCT	PERCENTILE VALUE
(16)	HALFWORD	2		Reserved
(18)	HALFWORD	2	FCTSRNAS	NUMBER OF ACTIVE STRINGS
(1A)	HALFWORD	2	FCTSRCSW	CURRENT NUMBER WAITING FOR STRING
(1C)	HALFWORD	2	FCTSRNKL	KEY LENGTH FOR NEXT BUILD
(1E)	HALFWORD	2	FCTSRNST	STRING NUMBER FOR NEXT BUILD
(20)	FULLWORD	4	FCTSRCHN	String wait chain
(24)	CHARACTER	8	FCTSRCTD	STCK Creation Time
(2C)	CHARACTER	8	FCTSRDTD	STCK Deletion Time
(34)	HALFWORD	2	FCTSRKYL	COMPUTED KEY LENGTH
(36)	HALFWORD	2	FCTSRSTN	COMPUTED NUMBER OF STRINGS
(38)	HALFWORD	2	FCTSRHAS	HIGHEST NUMBER OF ACTIVE STRINGS
(3A)	HALFWORD	2	FCTSRHSW	HIGHEST NUMBER WAITED FOR STRING
(3C)	FULLWORD	4	FCTSR TSW	TOTAL NUMBER WAITED FOR STRING
(40)	BITSTRING	26	FCTSRMAP	WRTBFR TRANSID USE MAP
(5A)	CHARACTER	2		Reserved
(5C)	FULLWORD	4	FCTSRCIS (0)	FORMAT OF REPEATING FIELDS
(5C)	ADDRESS	2	FCTSRBSZ	Buffer size
(5E)	HALFWORD	2	FCTSRVBN	Virtual buffers this build
(60)	FULLWORD	4	FCTSRVBX	Virtual buffers next build
(64)	FULLWORD	4	FCTSRHBN	Hiperspace bufs this build
(68)	FULLWORD	4	FCTSRHXB	Hiperspace bufs next build
(6C)	FULLWORD	4	FCTSRBFF	NUMBER OF LOOK-ASIDE HITS
(70)	FULLWORD	4	FCTSRFRD	NUMBER OF BUFFER READS
(74)	FULLWORD	4	FCTSRUIW	NO OF USER INITIATED WRITES
(78)	FULLWORD	4	FCTSRNUW	NO OF NON-USER INITIATED WRITES
(7C)	FULLWORD	4	FCTSRCRS	Number successful CREADS
(80)	FULLWORD	4	FCTSRCWS	Number successful CWRITES
(84)	FULLWORD	4	FCTSRCRF	Number failing CREADS
(88)	FULLWORD	4	FCTSRCWF	Number failing CWRITES
	..11 ....		FCTSRCIL	**"-FCTSRCIS" LENGTH OF BUFFER SIZE ENTRY
(5C)	BITSTRING	1	FCTSR512_DATA (0)	512 CI'S NUMBER AND STATISTICS
(8C)	BITSTRING	1	FCTSR1K_DATA (0)	1K CI'S NUMBER AND STATISTICS
(BC)	BITSTRING	1	FCTSR2K_DATA (0)	2K CI'S NUMBER AND STATISTICS
(EC)	BITSTRING	1	FCTSR4K_DATA (0)	4K CI'S NUMBER AND STATISTICS
(11C)	BITSTRING	1	FCTSR8K_DATA (0)	8K CI'S NUMBER AND STATISTICS
(14C)	BITSTRING	1	FCTSR12K_DATA (0)	12K CI'S NUMBER AND STATISTICS
(17C)	BITSTRING	1	FCTSR16K_DATA (0)	16K CI'S NUMBER AND STATISTICS
(1AC)	BITSTRING	1	FCTSR20K_DATA (0)	20K CI'S NUMBER AND STATISTICS
(1DC)	BITSTRING	1	FCTSR24K_DATA (0)	24K CI'S NUMBER AND STATISTICS
(20C)	BITSTRING	1	FCTSR28K_DATA (0)	28K CI'S NUMBER AND STATISTICS
(23C)	BITSTRING	1	FCTSR32K_DATA (0)	32K CI'S NUMBER AND STATISTICS
(23C)			FCTSRRFL	"(*-FCTSRCIS)" Length of repeating fields
	.... 1.11		FCTSRNCI	"(FCTSRRFL/FCTSRCIL)"Number of CI sizes
(26C)	BITSTRING	1	FCTSR512_INDX (0)	512 CI'S NUMBER AND STATISTICS
(29C)	BITSTRING	1	FCTSR1K_INDX (0)	1K CI'S NUMBER AND STATISTICS
(2CC)	BITSTRING	1	FCTSR2K_INDX (0)	2K CI'S NUMBER AND STATISTICS
(2FC)	BITSTRING	1	FCTSR4K_INDX (0)	4K CI'S NUMBER AND STATISTICS
(32C)	BITSTRING	1	FCTSR8K_INDX (0)	8K CI'S NUMBER AND STATISTICS
(35C)	BITSTRING	1	FCTSR12K_INDX (0)	12K CI'S NUMBER AND STATISTICS
(38C)	BITSTRING	1	FCTSR16K_INDX (0)	16K CI'S NUMBER AND STATISTICS
(3BC)	BITSTRING	1	FCTSR20K_INDX (0)	20K CI'S NUMBER AND STATISTICS
(3EC)	BITSTRING	1	FCTSR24K_INDX (0)	24K CI'S NUMBER AND STATISTICS
(41C)	BITSTRING	1	FCTSR28K_INDX (0)	28K CI'S NUMBER AND STATISTICS
(44C)	BITSTRING	1	FCTSR32K_INDX (0)	32K CI'S NUMBER AND STATISTICS
(47C)			FCTSR LNG	**"-DFHFCTSR" RESOURCE CONTROL ENTRY LENGTH



## FFL Fast file locate

CONTROL BLOCK NAME = DFHFFLPS  
 DESCRIPTIVE NAME = CICS/ESA Fast File Locate Element (FFLE)  
 FUNCTION =  
 This Control Block provides the description of the Fast File Locate Element (FFLE).  
 The FFLE records the address of the AFCT entry (in order to avoid repeated locates) and the results of any security checks.  
 LIFETIME =  
 The FFLE is created when the first request against a specific file is made, and destroyed at Syncpoint.  
 STORAGE CLASS =  
 Held in the FC\_FFLE subpool.  
 LOCATION =  
 Chained from the 'APEF' work token for the Recovery Manager.  
 INNER CONTROL BLOCKS =  
 None.  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
 None.  
 DATA AREAS =  
 None.  
 CONTROL BLOCKS =  
 None.  
 GLOBAL VARIABLES (Macro pass) =  
 None.

Offset	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	17	DFHFFLE	
(0)	ADDRESS	4	FFL_NEXT_FFLE	Next FFLE in chain
(4)	CHARACTER	8	FFL_FILE_NAME	File Name
(C)	ADDRESS	4	FFL_AFCTE_ADDRESS	Address Of AFCTE
(10)	BITSTRING	1	FFL_SECURITY_ACCESS	Security Characteristics
	1... ....		FFL_READ_ALLOWED	Read security check OK
	.1... ....		FFL_UPDATE_ALLOWED	Update security check OK
	..11 1111		*	

## FIOA File input/output area

CONTROL BLOCK NAME = DFHFIOA  
 DESCRIPTIVE NAME = CICS File I/O Area.  
 FUNCTION = FILE I/O AREA

The FIOA is acquired dynamically from main storage by File Control whenever a request is made for I/O to a BDAM data set. The data area, beginning at field FIOADBA, is used as the true I/O area from/to which records are read/written. The FRTE contains the address of the FIOA at FRT\_WORK\_AREA\_ADDRESS. The following fields form part of the Product-Sensitive Programming Interface.

FIOAIND  
 FIOAM  
 FCFIODEC  
 FCFIOBEX  
 FCFIOECB  
 FCFIOLRA  
 FIOADBA  
 FCDS01D

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHFIOA	DUMMY SECTION - FILE I/O AREA @
FIXED SECTION				
(0)	HALFWORD	2	FIOALGTH	Length of FIOA.
DATA EVENT CONTROL BLOCK				
(2)	BITSTRING 11.. ....	1	FIOAIND (0) FIOAM	FILE I/O AREA INDICATOR "X'00" FILE I/O AREA
(4)	FULLWORD	4	FCFIODEC (0)	DATA EVENT CONTROL BLOCK
(4)	FULLWORD	4	FCFIOBEX (0)	EXCEPTION CODES - BDAM
(4)	FULLWORD	4	FCFIOECB	EVENT CONTROL BLOCK
(8)	HALFWORD	2	FCFIOTYP	TYPE OF OPERATION
(A)	HALFWORD	2	FCFIOLNG	DATA / AREA LENGTH
(C)	FULLWORD	4	FCFIODCB	DATA CONTROL BLOCK ADDRESS
(10)	ADDRESS	4	FCFIOAA	INPUT / OUTPUT DATA ADDR
(14)	FULLWORD	4	FCFIOIOB	IOB ADDRESS
(18)	FULLWORD	4	FCFIOKA	KEY ADDRESS
(1C)	FULLWORD	4	FCFIOBRF	BLKREF FIELD - BDAM
(20)	FULLWORD	4	FCFNXADR	ADDR OF NEXT ADDR FEEDBACK FLD
VARIABLE SECTION				
(24)	BITSTRING 1... ....	1	FCIOEXB (0) FCECIND	EXCLUSIVE CONTROL INDICATOR "X'80" RECORD IS UNDER EXCLUSIVE CNTRL
(24)	CHARACTER	1	(3)	RESERVED
(28)	ADDRESS	4	FIOAFRTE	ADDRESS OF ASSOCIATED FRTE
(2C)	FULLWORD	4	FCFIOLRA	LOGICAL RECORD ADDRESS
(30)	HALFWORD	2	FCFIOLRL	Logical record length
(34)	FULLWORD	4	FCFIOFCT	FILE CONTROL TABLE ENTRY ADDR
(38)	FULLWORD	4	FIOA_KEY_ADDRESS	Address of RIDFLD in FIOA
(3C)	FULLWORD	4		Reserved
(40)	FULLWORD	4	FIOA_BLOCK_END	Address of end of block
(44)	HALFWORD	2	FIOA_BROWSE_ KEYLENGTH	Keylength during browse
(46)	HALFWORD	2	FIOA_BROWSE_RRN	DEBREC number in browse
(48)	CHARACTER	8	FIOA_KEY_WORKAREA	Workarea for real address conversion
(50)	CHARACTER	8	FIOA_JOURNAL_ECN	Workarea for FCJL
(58)	BITSTRING 1... ....	1	FIOA_BROWSE_FLAGS FIOA_BROWSE_ IN_PROGRESS	Indicators for browse
	.1.. ....		FIOA_DEBREC_BROWSE	"X'80" Browse in progress
	.1. ....		FIOA_DEBKEY_BROWSE	"X'40" DEBREC browse
(59)	BITSTRING 1... ....	1	FIOA_INDICATORS FIOA_DEBLOCK_ REQUIRED	"X'20" DEBKEY browse Miscellaneous indicators
(60)	DBL WORD .11. ....	8	FIOACAE (0) FIOACAD	"X'80" Deblock required CONTROL AREA ENDING ADDRESS
	.1.1 11..		FIOAL	"-DFHFIOA" CONTROL AREA DISPLACEMENT
(60)	DBL WORD .11. ....	8	FCDS01D (0) FIOADBA	"-FCFIOECB" FIOA LENGTH BEGINNING ADDRESS DATA AREA "FCDS01D" DATA BEGINNING ADDRESS

## FLABC File lasting access block

CONTROL BLOCK NAME = DFHFLABC  
DESCRIPTIVE NAME = CICS File Lasting Access Block (FLAB)  
FUNCTION =

DFHFLAB describes the DSECT for the File Lasting Access Block. This block serves as an anchor for the set of File Request Thread Elements (FRTEs) belonging to a particular file within a given transaction and a given environment.

If a transaction accesses several files from within the same environment, there will be one FLAB for each file.

If a transaction accesses the same file from more than one environment, there will be one FLAB for each environment.

The FLAB holds the following data:-

- (1) The address of the corresponding FCTE and the name of the corresponding file
- (2) The environment identifier
- (3) The address of the owning FRAB
- (4) The address of the first FRTE in the chain of FRTEs owned by this FLAB. Note that the associated file can not be closed if there are any FRTEs addressed by this FLAB.
- (5) An indicator that the associated file must not be closed until syncpoint phase 2, even if the FRTE chain is empty.
- (6) An indicator that recoverable work has been done against this file. If this bit is OFF and do\_not\_close is ON, this indicates that the uow has only done repeatable reads.
- (7) An indicator that the corresponding file entry must not be reallocated to a different dataset, even if the file is closed and disabled.
- (8) An indicator of whether or not backout attempts are currently disabled for this file by this unit of work which is set on when the associated data set first suffers a backout failure, and is cleared when the unit of work is unshunted for a backout retry.
- (9) Some indicators used to keep track of state during the rebuilding of enqueues on CICS restart.
- (10) An indicator that an RLS QUICOPY or QUIBWO request was received for the dataset, and the UOW that owns the FLAB has updated the file.
- (11) Fields to record the type of syncpoint failure which has caused the FLAB to be retained.
- (12) Fields to record the address, length, location & key of SET storage owned by a READ SET issued for this file within this environment.

LIFETIME =  
 The File Lasting Access Block is built by File Control as part of processing of the first File Control request for a particular file within a given transaction and environment.  
 The storage for the FLAB is obtained from a FLAB storage subpool, created by DFHFCRP during File Control initialisation.  
 The File Lasting Access Block is deleted after all the FRTEs have been processed during syncpoint terminate processing, provided that there have been no syncpoint failures for the file within the unit of work. At this point, the FLAB storage is not returned to the FLAB storage subpool, but is instead added to a chain of free FLABs, addressed by FC\_STATIC\_FLAB\_FREE\_CHAIN in FC static. Subsequent requests to build a FLAB are, if possible, satisfied by a quick cell mechanism from this chain. If the UOW is shunted, FLABs may be shunted with it. Recoverable FLABs are rebuilt at Emergency Restart, and sometimes also at warm restart.  
 Note.  
 -----  
 If new fields are added to the FLAB, DFHFCIR must be modified to rebuild those fields at warm or emergency restart.  
 STORAGE CLASS =  
 Above 16M line. CICS key.  
 LOCATION =  
 Issuing an INQUIRE\_WORK\_TOKEN to the recovery manager with a client name of 'FC' returns the address of the FRAB. The FRAB contains the address of the first FLAB in field FRAB\_FLAB\_CHAIN\_ADDRESS. Subsequent FLABs for this transaction are addressed by field FLAB\_NEXT\_FLAB\_ADDRESS.  
 INNER CONTROL BLOCKS =  
 DFHSETCC  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	64	DFHFLAB	
Eye catcher				
(0)	CHARACTER	16	FLAB_EYE_CATCHER	Eye catcher
(0)	HALFWORD	2	FLAB_LENGTH	Length of FLAB
(2)	CHARACTER	6	FLAB_EYE1	>DFHFC FC 'domain'
(8)	CHARACTER	8	FLAB_EYE2	FLAB
Main part of FLAB.				
(10)	CHARACTER	48	FLAB_MAIN_PART	Main part of FLAB
(10)	ADDRESS	4	FLAB_NEXT_FLAB_ADDRESS	Address of next FLAB on chain from owning FLAB
(10)	ADDRESS	4	FLAB_FREE_FLAB_ADDRESS	Address of next FLAB on free chain
(14)	ADDRESS	4	FLAB_FRAB_ADDRESS	Address of FRAB that owns this FLAB
(18)	CHARACTER	8	FLAB_FILENAME	Name of associated file
(20)	ADDRESS	4	FLAB_FCTE_ADDRESS	Address of associated FCT entry
(24)	UNSIGNED	4	FLAB_ENVIRONMENT_ID	Environment identifier
This part of the FLAB addresses the FRTE chain and controls whether the file may be closed or reallocated.				
(28)	ADDRESS	4	FLAB_FRTE_CHAIN_ADDRESS	Address of first FRTE owned by this FLAB
(2C)	BITSTRING	1	FLAB_FLAGS	Flag byte
	1... ..		FLAB_DO_NOT_CLOSE	Do not close file until syncpoint commit
	.1.. ..		FLAB_DO_NOT_REALLOCATE	Do not reallocate file: Retained locks exist
	..1. ....		FLAB_BACKOUT_ATTEMPTS_DISABLED	Do not attempt backout: base data set has had a backout failure since the last unshunt
	...1 ....		FLAB_RECOVERABLE_WORK_DONE	Recoverable work done and therefore eligible for shunting.
	.... 1...		FLAB_MI_COMPLETE_SEEN	

Offset Hex	Type	Len	Name (Dim)	Description
	.... .1..		FLAB_WA_ COMPLETE_SEEN	Mass insert complete log rec seen (restart)
	.... ..1.		FLAB_QUICMP_ PENDING	Write add complete log rec seen (restart)
(2D)	.... ...1 BITSTRING	1	* FLAB_SECURITY_ ACCESS	RLS QUICOPY or QUIBWO quiesce request received for base data set Reserved
	1... ....		FLAB_READ_ ALLOWED	Security Characteristics
	.1.. ....		FLAB_UPDATE_ ALLOWED	Read security check OK
(2E)	..11 1111 UNSIGNED	1	* FLAB_RETAIN_ REASON	Update security check OK Reserved
(2F)	UNSIGNED	1	FLAB_RETAIN_ REASON2	Reason work had to be retained
				Sub-reason for backout failures
SET storage for READ_SET requests				
(30)	CHARACTER	8	FLAB_SET_ CONTROL	Set storage control
(38)	CHARACTER	8	FLAB_SETU_ CONTROL	Set storage control
(40)	CHARACTER		*	Align to double word boundary

## Constants

Len	Type	Value	Name	Description
1	DECIMAL	0	FLAB_NOT_RETAINED	
1	DECIMAL	1	FLAB_FILE_ BACKOUT_FAILURE	
1	DECIMAL	2	FLAB_CACHE_FAILURE	
1	DECIMAL	3	FLAB_RLS_ CATASTROPHE	
1	DECIMAL	4	FLAB_INDOUBT	
1	DECIMAL	5	FLAB_COMMIT_FAILURE	
1	DECIMAL	6	FLAB_CICS_FAILURE	
Values for flab_ retain_reason2				
1	DECIMAL	0	FLAB_NO_SUBREASON	
1	DECIMAL	1	FLAB_IO_ERROR	
1	DECIMAL	2	FLAB_NO_SPACE	
1	DECIMAL	3	FLAB_AIX_FULL	
1	DECIMAL	4	FLAB_DUP_RECORD	
1	DECIMAL	5	FLAB_OPEN_ERROR	
1	DECIMAL	6	FLAB_NO_LDEL	
1	DECIMAL	7	FLAB_DEADLOCK	
1	DECIMAL	8	FLAB_COPY_ACTIVE	
1	DECIMAL	9	FLAB_SEVERE_ERROR	
1	DECIMAL	10	FLAB_RETAINABLE_LOCKS	
1	DECIMAL	11	FLAB_REPEATABLE_READS	
1	DECIMAL	12	FLAB_LOCK_STRUC_FULL	

## FMH Function management headers

MODULE NAME = DFHFHMDS  
 DESCRIPTIVE NAME = CICS CICS Function Management Headers  
 FUNCTION =  
 Copybook DFHFHMDS provides dsect DFHFHMDS.  
 DFHFHMDS describes the format of the Function Management Headers (FMHs) used by CICS.  
 LIFETIME =  
 FMHs are used (in conjunction with user data) for communication between CICS and other LUs. These include:  
 1. 3600 and batch LUs  
 2. LUs supporting LU6.1 protocols  
 3. LUs supporting LU6.2 protocols  
 4. LUs supporting (CICS) IRC protocols  
 The lifetime, as far as CICS is concerned, is no more than the lifetime of the TIOAs containing the FMHs and user data.  
 STORAGE CLASS =  
 As for TIOAs.  
 LOCATION =  
 As for TIOAs.  
 INNER CONTROL BLOCKS =  
 There are no inner control blocks.  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = There are no restrictions.  
 MODULE TYPE = Control block definition.  
 EXTERNAL REFERENCES =  
 DATA AREAS =  
 CONTROL BLOCKS =  
 GLOBAL VARIABLES (Macro pass) =  
 COMMON SECTION - 3600, BATCH LU

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHFHMDS	DSECT - FORMAT MESSAGE HDR
(0)	BITSTRING	1	FMHLENG	FMH LENGTH
	.... .11		FMHL3600	"3" ...LENGTH OF 3600 FMH
	.... .11.		FMHLBLU	"6" ...LENGTH OF BATCH LU FMH
	.... 1..1		FMHLLU4	"9" ...LENGTH OF LU4 FMH-NO DSN
(1)	BITSTRING	1	FMHHD	HEADER DESCRIPTION
	.1.. ....		FMHFD	"X'40'" ...MESSAGE HAS FORMATTED DATA
	..1. ....		FMHALARM	"X'20'" ...TRIGGER ALARM AT DEVICE
	.... .1..1		FMHTBLU	"X'01'" ...BATCH LU IS TYPE X'01'
(2)	BITSTRING	1	FMHLDC	LOGICAL DEVICE CODE -- SAME VALUES IN DFHSLDC, EXCEPT:
	1... ....		FMHBLUIN	"X'80'" ...INPUT INDICATOR FOR BATCH LU
(3)	BITSTRING	1		RESERVED
BATCH LU EXTENSION				
(4)	BITSTRING	1	FMHFLAGS	BATCH LU FLAGS
	1... ....		FMHSUSP	"X'80'" ...SUSPEND DATA SET
	.1.. ....		FMHBODS	"X'40'" ...BEGINNING OF DATA SET
	..1. ....		FMHEODS	"X'20'" ...END OF DATA SET ...BITS 3-7 RESERVED
(5)	BITSTRING	1		RESERVED
RESPECIFICATION FOR BATCH LU FMHS				
TYPE 1 FMH FORMAT				
(0)	BITSTRING	1	FMHLEN	LENGTH OF COMPLETE FMH
(1)	BITSTRING	1	FMHTYPE	TYPE OF FMH
	.... .1..1		FMHFTYP1	"X'01'" ..TYPE 1 FMH
	.... .1.		FMHFTYP2	"X'02'" ..TYPE 2 FMH
	.... .11		FMHFTYP3	"X'03'" ..TYPE 3 FMH
	1... ....		FMHFCONC	"X'80'" CONCATENATED FMH
(2)	BITSTRING	1	FMHMEDIA	MEDIA SELECTION BYTE
	.... ....		FMHMEFCN	"X'00'" ..CONSOLE
	...1 ....		FMHMEFEX	"X'10'" ..EXCHANGE MEDIA
	..1. ....		FMHMEFCD	"X'20'" ..CARD READER
	..11 ....		FMHMEFPR	"X'30'" ..PRINT
	.1.. ....		FMHMEFDI	"X'40'" ..DISK
	.11. ....		FMHMEFPD	"X'60'" ..PDS
	.1.1 ....		FMHMEXDC	"X'50'" .. EXTENDED DOCUMENT
	1... ....		FMHMEWM1	"X'80'" .. WP MEDIUM 1
	1..1 ....		FMHMEWM2	"X'90'" .. WP MEDIUM 2
	1.1. ....		FMHMEWM3	"X'A0'" .. WP MEDIUM 3
	11.. ....		FMHMEWM4	"X'C0'" .. WP MEDIUM 4
	11.1 ....		FMHMENCI	"X'D0'" .. NCI
	.111 1111		FMHMEFAN	"X'7F'" ..ANY NOTE ONLY BITS 1-3 USED BIT 0 RESERVED BIT 4-7 LOGICAL SUBADDRESS
(3)	BITSTRING	1	FMHFLAG3 (0)	FLAG BYTE
	1... ....		FMHT1STK	"X'80'" 'YOUR' STACK INDICATOR BIT 1-3 RESERVED
(3)	BITSTRING	1	FMHDSP (0)	DATA STREAM PROFILE
	.... ....		FMHDSPE	"X'00'" DEFAULT DSP

Offset Hex	Type	Len	Name (Dim)	Description
	.... .1		FMHDSPBA	"X'01" BASE DSP
	.... .11		FMHDSPJB	"X'03" JOB DSP
	.... .1..		FMHDSRPW	"X'04" WP RAW
	.... .11.		FMHDSPI1	"X'06" OII LEVEL 1
	.... .111		FMHDSPI2	"X'07" OII LEVEL 2
	.... 1...		FMHDSPI3	"X'08" OII LEVEL 3 X'09' - X'0A' RESERVED
	.... 1.11		FMHDSPSF	"X'0B" STRUCTURED FIELDS X'0C' - X'0F' RESERVED
(3)	BITSTRING	1	FMHSDSDSP	DEFINE STORAGE
(4)	BITSTRING	1	FMHDESEL	DESTINATION SELECT FIELD BIT 0-2 ONLY
	.... .1..		FMHDEFRE	"X'00" ..RESUME DATA SET
	.... .1.		FMHDEFEN	"X'20" ..END DATA SET
	.... .1..		FMHDEFBG	"X'40" ..BEGIN DATA SET
	.... .11.		FMHDEFBD	"X'60" ..BEGIN AND END DATA SET
	.... 1...		FMHDEFUS	"X'80" ..SUSPEND DATA SET
	.... 1.1.		FMHDEFAB	"X'A0" ..ABORT DATA SET
(5)	BITSTRING	1	FMHRESV1 (0)	RESERVED
(5)	BITSTRING	1	FMHERCI	EXCHANGE RECORD LENGTH
(6)	BITSTRING	1	FMHRESV2 (2)	RESERVED
(8)	BITSTRING	1	FMHDSNL	LENGTH OF DESTINATION NAME
(9)	CHARACTER	1	FMHDSNH (0)	ACTUAL DSN NAME

TYPE 2 FMH OVERLAY

(2)	BITSTRING	1	FMH2OPCD	TYPE OF OPERATION
	.... .1.		FMH2FADD	"X'24" ..ADD OPERATION
	.... .1.1		FMH2FREP	"X'25" ..REPLACE OPERATION
	.... 1...		FMH2FQUE	"X'28" ..QUERY OPERATION
	.... 1.1.		FMH2FNOT	"X'29" ..NOTE OPERATION
	.... 1.1.1		FMH2NTRY	"X'2A" ..NOTE REPLY OPERATION
	.... 1.1.11		FMH2FRID	"X'2B" ..RECID OPERATION
	.... 1.1.11.		FMH2FERA	"X'2C" ..ERASE OPERATION
	.... 1.1.111.		FMH2FVOL	"X'2E" ..VOLID OPERATION
(3)	BITSTRING	1	FMH2NURC (0)	NUMBER OF RECORDS AFFECTED
(3)	BITSTRING	1	FMH2RITY (0)	TYPE OF KEY FOR RECID TYPE
	.... .1..		FMH2RIAK	"X'00" ..ADDRESSED DIRECT
	.... .1.		FMH2RID1	"X'01" ..KEY DIRECT KEY1
	.... .1.1		FMH2RID2	"X'02" ..KEY DIRECT KEY2
	.... .1.11		FMH2RIAP	"X'03" ..APPLICATION DEFINITION
	.... .1.1.		FMH2RICC	"X'04" ..CONTROL DEFINITION
(3)	BITSTRING	1	FMH2DAT1 (0)	START OF DATA FIRST TYPE
(3)	BITSTRING	1		OVERLAYED BYTE
(4)	CHARACTER	1	FMH2DAT2 (0)	START OF DATA SECOND TYPE

THE FOLLOWING DSECT DESCRIBES FUNCTION MANAGEMENT HEADERS AND IN SOME CASES THE DATA THAT CAN FOLLOW THE HEADER. THE ORGANIZATION OF THE DEFINITIONS WITHIN THIS PART OF THE COPY BOOK IS AS FOLLOWS :-

1. THE STANDARD PART OF A FUNCTION MANAGEMENT HEADER. THESE DEFINITIONS APPLY WHATEVER TYPE, GROUP AND FUNCTION CODE THE HEADER MAY CARRY.
2. DEFINITIONS FOR FUNCTION MANAGEMENT HEADERS OF TYPE 5; THAT IS, ATTACH HEADERS. THESE MAY BE IDENTIFIED BY THE PREFIX 'FMHA' FOR LU6.1 AND BY THE PREFIX 'FMHB' FOR LU6.2.
3. DEFINITIONS FOR FUNCTION MANAGEMENT HEADERS OF TYPE 6; THAT IS, SCHEDULER MODEL, QUEUE MODEL AND DL/I MODEL HEADERS. THESE MAY BE IDENTIFIED BY THE PREFIXES 'FMHS', 'FMHQ' AND 'FMHD' RESPECTIVELY.
4. DEFINITIONS FOR FUNCTION MANAGEMENT HEADERS OF TYPE 7; THAT IS, SYSTEM MESSAGES. THESE ARE IDENTIFIED BY THE PREFIX 'FMHSM'
5. DEFINITIONS FOR FUNCTION MANAGEMENT HEADERS OF TYPE 10; THAT IS, SYNCPOINT HEADERS. THESE ARE IDENTIFIED BY THE PREFIX 'FMHP'
6. DEFINITIONS FOR FUNCTION MANAGEMENT HEADERS OF TYPE 12; THAT IS, TRANSFORMED PASSWORD HEADERS. THESE ARE IDENTIFIED BY THE PREFIX 'FMHV'.
7. DEFINITIONS FOR FUNCTION MANAGEMENT HEADERS OF TYPE 43; THAT IS, CICS PRIVATE HEADERS. THESE MAY BE IDENTIFIED BY THE PREFIX 'FMHC'.

NOTE THAT THE DECLARED LENGTHS OF VARIABLE LENGTH PARAMETERS ALLOW FOR THE (REASONABLE) LENGTH OF THE PARAMETER VALUES. TO EACH MUST BE ADDED ONE BYTE FOR THE PRECEEDING LENGTH FIELD. (REFER TO MODULE DFHXFP FOR EXAMPLES OF HOW VARIABLE LENGTH PARAMETERS ARE HANDLEED.)

NOTE ALSO THAT A THEORETICAL MAXIMUM LENGTH IS QUOTED FOR MOST FMHS. THIS PERMITS THE FASTER CONSTRUCTION OF FMHS AT THE EXPENSE OF A FEW EXTRA BYTES OF STORAGE.

(0)	CHARACTER	1	FMHL	LENGTH OF FMH
(1)	CHARACTER	1	FMHCT	CONCATENATION FLAG AND FMH TYPE BITS SET AS FOLLOWS

Offset Hex	Type	Len	Name (Dim)	Description
	1... ..		FMHCAT	"X'80" A SECOND F.M. HEADER COMES AFTER THIS ONE BIT1 - BIT 7 FMH TYPE VALUES SET AS FOLLOWS
	.... .1.1		FMHT05	"X'05" IBM ARCHITECTED ATTACH F.M. HEADER
	.... .11.		FMHT06	"X'06" IBM ARCHITECTED MODEL F.M. HEADER
	.... .111		FMHT07	"X'07" IBM ARCHITECTED SYSTEM MESSAGE F.M. HEADER
	.... 1.1.		FMHT0A	"X'0A" IBM ARCHITECTED SYNCPOINT F.M. HEADER
	.... 11..		FMHT0C	"X'0C" IBM ARCHITECTED TRANSFORMED PASSWORD F.M. HEADER
	..1. .11		FMHT43	"X'43" CICS ARCHITECTED MODEL F.M. HEADER
(2)	CHARACTER	2	FMHXCMD (0)	GROUP AND FUNCTION CODES
(2)	CHARACTER	2	FMHXSS (0)	FMH T7 SYSTEM SENSE
(2)	CHARACTER	1	FMHGROUP	GROUP CODE
(3)	CHARACTER	1	FMHFN	FUNCTION CODE
(4)	CHARACTER	2	FMHXUS (0)	FMH T7 USER SENSE
(4)	CHARACTER	1	FMHXM0D	MODIFIER BITS SET AS FOLLOWS
	1... ..		FMHXLNSZ	"X'80" '0' FOR 1 BYTE FMH LENGTH FIELDS(LU6.1 FMH ONLY)
	..1. ....		FMHXTOS	"X'40" Set if system supports Time-out delete of remote skeletons (Transaction Routing only)
				BIT2 RESERVED BIT3 RESERVED BIT4 RESERVED BIT5 RESERVED BIT6 RESERVED BIT7 RESERVED
(5)	CHARACTER	1	FMHFXCT	LENGTH OF FIXED LENGTH PARAMETERS IN FMH
(6)	CHARACTER	1	FMHFORG (0)	ORIGIN FOR THE TYPE, GROUP AND FUNCTION DEPEND- ENT FIXED LENGTH PARAMETERS
	.... .11.		LFMH	"-DFHFMHDS" LENGTH OF THE STANDARD PART OF THE HEADER
TYPE 5 FUNCTION MANAGEMENT HEADERS FUNCTION MANAGEMENT HEADERS SENT AND RECEIVED IN SUPPORT OF ATTACH MANAGEMENT LU6.1 ATTACH FUNCTION MANAGEMENT HEADER X'0202' GROUP AND FUNCTION FMHGROUP VALUES SET AS FOLLOWS				
	.... .1.		FMHT5ATT	"X'02" GROUP IS ATTACH FMHFN VALUES SET AS FOLLOWS
	.... .1.		FMHATTFN	"X'02" FUNCTION IS ATTACH
(6)	CHARACTER	1	FMHATDS	SECURITY ALGORITHM VALUE
(7)	CHARACTER	1	FMHATDBA	DATA ALGORITHM VALUE VALUES SET AS FOLLOWS
	.... ....		FMHAU	"X'00" UNDEFINED
	.... ...1		FMHAV	"X'01" VARIABLE LENGTH
	.... .1.		FMHASCSD	"X'02" DOCUMENT SUBSET OF SCS
	.... .11		FMHASCSC	"X'03" CARD SUBSET OF SCS
	.... .1.		FMHARUC	"X'04" CHAIN OF REQUEST UNITS
	.... .1.1		FMHARU	"X'05" REQUEST UNIT
	.... 1...		LFMH0202	"-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
	.... 1...		LF050202	"-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	FMHATDPN (0)	PROCESS TO BE INITIATED
(0)	CHARACTER	1	FMHATDPL	PROCESS NAME LENGTH
	.... ...1		FMHARLEN	"1" LENGTH OF AN ARCHITECTED PROCESS NAME
(1)	CHARACTER	4	FMHATDPV (0)	PROCESS NAME UP TO FOUR CHARACTERS
	..11 1111		FMHARMAX	"X'3F" MAXIMUM POSSIBLE VALUE FOR ARCHITECTED PROCESS NAMES - NON-GRAPHIC VALUES
(0)	CHARACTER	8	FMHATPRN (0)	RESOURCE FOR INITIATED PROCESS
(0)	CHARACTER	8	FMHARDPN (0)	RETURN PROCESS NAME
(0)	CHARACTER	8	FMHARPRN (0)	RESOURCE FOR RETURN PROCESS
(0)	CHARACTER	8	FMHATDQN (0)	QUEUE TO BE ASSOCIATED WITH INITIATED PROCESS
	..1. .11		TA050202	"LF050202+1+L'FMHATDPN+1+L'FMHATPRN+1+L'FMHARDPN"
	..11 .1.1		MF050202	"TA050202+1+L'FMHARPRN+1+L'FMHATDQN" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE ATTACH FMH
LU6.2 ATTACH FUNCTION MANAGEMENT HEADER X'02FF' GROUP AND FUNCTION GROUP AND FUNCTION VALUES SET AS FOLLOWS				
(0)	BITSTRING		FMHBCMD	"X'02FF" ATTACH LU6.2
	1111 1111		FMHBTTFN	"X'FF" FUNCTION = LU6.2 ATTACH FLAGS SET IN FMHXM0D
	.... 1...		FMHBPIP	"X'08" PIP PRESENT
	.... .1..		FMHBXSEC	"X'04" Extended security bit
	1... ....		FMHBAVER	"X'80" USERID ALREADY VERIFIED
	..1. ....		FMHBPVER	"X'40" USERID PERSISTENTLY VERIFIED
	..1. ....		FMHBPV2	"X'20" Userid Persistently Signed On FMHFXCT
	.... .11		FMHBFXCT	"X'03" LENGTH OF FIXED LENGTH PARMS
(6)	BITSTRING	1	FMHBCVT (0)	CONVERSATION TYPE
	11.1 ....		FMHBUNMP	"X'D0" UNMAPPED
	11.1 ...1		FMHBMAPD	"X'D1" MAPPED
(6)	BITSTRING	1	FMHBFXT1	1ST BYTE
(7)	BITSTRING	1	FMHBFXT2	2ND BYTE - RESERVED 3RD BYTE
(8)	BITSTRING	1	FMHBSPL (0)	BITS 0-1 - SYNC POINT LEVEL
	.... ....		FMHBSPL0	"X'00" NO SYNC
	..1. ....		FMHBSPL1	"X'40" COMMIT ONLY (CONFIRM)
	1... ....		FMHBSPL2	"X'80" FULL SYNCPT
	11.. ....		FMHBSPMK	"X'C0" SYNC POINT MASK
(8)	BITSTRING	1	FMHBRSTL (0)	BIT 2 - RESTART LEVEL
	.... ....		FMHBRNO	"X'00" - NO
	..1. ....		FMHBRYES	"X'20" - YES
(8)	BITSTRING	1	FMHBFXT3	3RD BYTE
	.... 1.1		LF0502FF	"-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	1	FMHBTPNL	ACTUAL LENGTH OF FMHBTPN
(1)	CHARACTER	32	FMHBTPN (0)	TRANSACTION PROGRAM NAME
(0)	CHARACTER	1	FMHBACCL	ACTUAL LENGTH OF FMHBACC



Offset Hex	Type	Len	Name (Dim)	Description
(1)	CHARACTER	73	FMHBACC (0)	SECURITY ACCESS CODE
(0)	CHARACTER	1	FMHBACSL	ACCESS SUBFIELD LENGTH
(1)	CHARACTER	1	FMHBACST	ACCESS SUBFIELD TYPE
.... ....			FMHBACPR	"X'00" PROFILE-ID
.... ...1			FMHBACPA	"X'01" PASSWORD
.... ..1.			FMHBACUS	"X'02" USER-ID
1111 1.1.			FMHBAC_RRS	"X'FA" RRS data field
1111 1.11			FMHBAC_EPN	"X'FB" ENTRY PORT NAME
1111 11..			FMHBAC_EPT	"X'FC" ENTRY PORT TYPE
The entry port type can either be X'00' representing a VTAM terminal, or X'01' representing a console.				
.... ....			FMH_VTAM_TERMINAL	"X'00"
.... ...1			FMH_CONSOLE	"X'01"
1111 11.1			FMHBAC_APL	"X'FD" APPLID OF ENTRY PORT
1111 111.			FMHBAC_PRI	"X'FE" SHIPPED TASK PRIORITY
1111 1111			FMHBAC_SRC	"X'FF" MVS/WLM SRC TOKEN
(2)	CHARACTER	40	FMHBACSD (0)	ACCESS SUBFIELD DATA
(0)	CHARACTER	1	FMHBUOWL	ACTUAL LENGTH OF FMHBUOW
(1)	CHARACTER	30	FMHBUOW (0)	UNIT OF WORK ID
(1)	CHARACTER	1	FMHBULUL	LENGTH OF LU NAME
(2)	CHARACTER	17	FMHBULU (0)	LU NAME (NETWORK NAME FROM ACB)
(0)	CHARACTER	6	FMHBUCLK	UOW INSTANCE (STORE CLOCK VALUE)
(6)	CHARACTER	2	FMHBUSEQ	UOW SEQUENCE NO
(0)	CHARACTER	1	FMHBCCSL	ACTUAL LENGTH OF FMHBCCS
(1)	CHARACTER	8	FMHBCCS (0)	SENDER'S CONVERSATION CORRELATOR
(0)	CHARACTER	1	FMHBSEQL	Actual length of FMHBSEQ
(1)	CHARACTER	8	FMHBSEQ (0)	Sender's DCE sequence number
1..1 ..11			TA0502FF	"LF0502FF+1+L'FMHBTPN+1+L'FMHBACC+1+L'FMHBUOW"
1.1. .1..			MF0502FF	"TA0502FF+1+L'FMHBCCS+L'FMHBSEQ" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE LU6.2 ATTACH FMH
TYPE 6 FUNCTION MANAGEMENT HEADERS FUNCTION MANAGEMENT HEADERS SENT AND RECEIVED IN SUPPORT OF THE LU6 SYSTEM MESSAGE MODEL SYSSTAT FUNCTION MANAGEMENT HEADER USED FOR LOGGING ERROR MESSAGES ON CSMT X'0402' GROUP AND FUNCTION NOTE THAT CICS/V/S WILL NOT SEND THE SYSSTAT FMH				
.... .11.			LF060402	"-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
SYSERROR FUNCTION MANAGEMENT HEADER USED FOR ..... X'0404' GROUP AND FUNCTION NOTE THAT CICS/V/S WILL NOT SEND NOR RECEIVE THE SYSERROR FMH				
.... .11.			LF060404	"-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	4	FMHERDPN	DPN FOR INTENDED REPLY
(0)	CHARACTER	4	FMHERPRN	PRN FOR INTENDED REPLY
...1 ....			MF060404	"LF060404+1+L'FMHERDPN+1+L'FMHERPRN" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE SYSERROR FMH
FUNCTION MANAGEMENT HEADERS SENT AND RECEIVED IN SUPPORT OF THE LU6 SCHEDULER MODEL SCHED FUNCTION MANAGEMENT HEADER USED FOR IC SCHEDULE REQUESTS X'0802' GROUP AND FUNCTION ADDITIONAL FLAGS SET IN FMHXMDF FOR SCHED FMH				
.1.. ....			FMHXRPLY	"X'40" REPLY IS EXPECTED
..1. ....			FMHXPROT	"X'20" REQUEST IS PROTECTED
...1 ....			FMHXDELY	"X'10" TIMER IS REQUIRED
.... 1..			FMHRTST	"X'08" Routable START
(6)	CHARACTER	1	FMHSRQST	DETAILS OF SCHEDULE REQUEST BITS SET AS FOLLOWS
1... ....			FMHSTIME	"X'80" TIME DELAY SPECIFIED BIT1 RESERVED BIT2 RESERVED BIT3 RESERVED BIT4 RESERVED BIT5 RESERVED BIT6 RESERVED BIT7 RESERVED
.... .111			LF060802	"-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	FMHSSDPN (0)	NAME OF PROCESS THAT IS TO BE INITIATED
(0)	CHARACTER	4	FMHSPRN (0)	NAME OF PRIMARY RESOURCE FOR PROCESS BEING INITIATED
(0)	CHARACTER	8	FMHSRDPN (0)	SUGGESTED NAME FOR RETURN PROCESS
(0)	CHARACTER	4	FMHSRPRN (0)	SUGGESTED NAME FOR PRIMARY RESOURCE FOR RETURN PROCESS
(0)	CHARACTER	8	FMHSQNM (0)	NAME OF QUEUE ASSOCIATED WITH PROCESS BEING INITIATED
(0)	CHARACTER	8	FMHSREQN (0)	NAME OF REQUEST INSTANCE ASSOCIATED WITH PROCESS
(0)	CHARACTER	6	FMHSDELY (0)	THE INTERVAL OR TIME INITIATION DELAY FIELD
(0)	CHARACTER	8	FMHUSID (0)	THE USERID ON A START COMMAND
(0)	CHARACTER	8	FMHSYSNE (0)	Applid for PF start
(0)	CHARACTER	8	FMHTRMNE (0)	Terminal netname for start
...1 111.			TA060802	"LF060802+1+L'FMHSSDPN+1+L'FMHSPRN+1+L'FMHSRDPN"
..11 .1.1			TB060802	"TA060802+1+L'FMHSRPRN+1+L'FMHSQNM+1+L'FMHSREQN"
1.. 11.1			MF060802	"TB060802+1+L'FMHSDELY+1+L'FMHUSID+L'FMHSYSNE" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE SCHED FMH

Offset Hex	Type	Len	Name (Dim)	Description
SCDSTAT FUNCTION MANAGEMENT HEADER USED FOR IC SCHEDULE REPLIES X'0804' GROUP AND FUNCTION				
(6)	CHARACTER	1	FMHSSSTS .1. .... .1. .... ...1 .... .... 1... .... .1.. .... .1.. .... .1.. .... .1.. .... .1.. .... .1..	STATUS OF SCHEDULE REQUEST BITS SET AS FOLLOWS BIT0 RESERVED "X'40" Unable to ship request to next node "X'20" UNAUTHORIZED REQUEST "X'10" INITIATION TIME EXPIRED "X'08" INVALID PROCESS NAME "X'04" INVALID RESOURCE NAME "X'02" UNABLE TO SCHEDULE DUE TO PROCESSING ERROR "X'01" INVALID REQUEST
(7)	CHARACTER	1	FMHSSST2 1... .... .... 1...	EXTENSION TO FMHSSSTS BITS SET AS FOLLOWS "X'80" USERID ERROR
(0)	CHARACTER	8	FMHSIREQ (0) MF060804	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER REQUEST NAME GENERATED BY RECEIVING SYSTEM "LF060804+1+L'FMHSIREQ" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE SCDSTAT FMH
PURGREQ FUNCTION MANAGEMENT HEADER USED FOR IC CANCEL REQUESTS X'0806' GROUP AND FUNCTION				
(0)	CHARACTER	8	LF060806 (0)	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER see definition for FMHSREQN
(0)	CHARACTER	8	FMHSCDPN (0) MF060806	NAME OF PROCESS THAT IS TO BE CANCELLED "LF060806+1+L'FMHSREQN+1+L'FMHSCDPN" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE PURGREQ FMH
PURGSTAT FUNCTION MANAGEMENT HEADER USED FOR IC CANCEL REPLIES X'0808' GROUP AND FUNCTION				
(6)	CHARACTER	1	FMHSPSTS .... .1.. .... .1.. .... .1.. .... .1.. .... .1..	STATUS OF PURGE REQUEST BITS SET AS FOLLOWS BIT0 RESERVED BIT1 RESERVED BIT2 RESERVED BIT3 RESERVED BIT4 RESERVED "X'04" Unable to ship request to next node "X'02" UNAUTHORIZED REQUEST "X'01" NAMED REQUEST NOT FOUND "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
FUNCTION MANAGMENT HEADERS SENT AND RECEIVED IN SUPPORT OF THE LU6 QUEUE MODEL QPUT FUNCTION MANAGEMENT HEADER USED FOR WRITEQ TD REQUESTS WRITEQ TS REQUESTS X'0A02' GROUP AND FUNCTION				
(6)	CHARACTER	1	FMHCNDRQ FMHQQORG FMHQNSPE FMHQSEQL FMHQLINE FMHQHIER LF060A02 .... .1.. .... .... .... .1.. .... .1.. .... .1.. .... .1.. .... .1..	"X'02" CONDITIONAL REQUEST TYPE OF QUEUE VALUES SET AS FOLLOWS "X'00" QUEUE TYPE NOT SPECIFIED "X'01" QUEUE TYPE IS SEQUENTIAL "X'02" QUEUE TYPE IS LINEAR "X'03" QUEUE TYPE IS HIERARCHICAL "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER THE QUEUE NAME IS FROM 1 TO 16 CHARACTERS "LF060A02+1+L'FMHQNAME" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QPUT FMH
(0)	CHARACTER	16	FMHQNAME (0) MF060A02	
QGET FUNCTION MANAGEMENT HEADER USED FOR READQ TS REQUESTS X'0A04' GROUP AND FUNCTION ADDITIONAL FLAGS SET IN FMXMOD FOR QGET FMH FMHCNDRQ EQU X'02' CONDITIONAL REQUEST				
(6)	CHARACTER	1	LF060A04 .... .1..	see definition for FMHQQORG "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	(0)	see definition for FMHQNAME
(0)	CHARACTER	2	FMHQCURS	THE CURSOR IS HELD AS TWO BYTE BINARY
(0)	CHARACTER	2	FMHQTRSZ ...1 11..	THE MAXIMUM RECORD LENGTH IS HELD AS TWO BYTE BINARY "LF060A04+1+L'FMHQNAME+1+L'FMHQCURS+1+L'FMHQTRSZ" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QGET FMH
QPURGE FUNCTION MANAGEMENT HEADER USED FOR DELETEQ TD REQUESTS DELETEQ TS REQUESTS X'0A06' GROUP AND FUNCTION				
(6)	CHARACTER	1	LF060A06 .... .1..	see definition for FMHQQORG "*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	(0) MF060A06	see definition for FMHQNAME "LF060A06+1+L'FMHQNAME" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QPURGE FMH

Offset Hex	Type	Len	Name (Dim)	Description
QXFR FUNCTION MANAGEMENT HEADER USED FOR READQ TD REPLIES READQ TS REPLIES X'0A08' GROUP AND FUNCTION				
(6)	CHARACTER	1		see definition for FMHQQQORG
(7)	CHARACTER	1	FMHQXFST	STATUS BYTE BITS SET AS FOLLOWS BIT0 RESERVED BIT1 RESERVED BIT2 RESERVED BIT3 RESERVED BIT4 RESERVED
	.... .1..		FMHQDISP	"X'04" DISPOSITION OF QUEUE BIT6 RESERVED
	.... ...1		FMHQEMSG	"X'01" END OF MESSAGE
	.... 1...		LF060A08	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	2	(0)	see definition for FMHQCURS
(0)	CHARACTER	2	FMHQRCNT (0)	NUMBER OF OCCURENCES OF RECORDS AT LOWEST LEVEL OF CURSOR
(0)	CHARACTER	2	FMHQRCLN (0)	RECORD LENGTH BEFORE TRUNCATION
	...1 ...1		MF060A08	"LF060A08+1+L'FMHQCURS+1+L'FMHQRCNT+1+L'FMHQRCLN" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QXFR FMH
QSTATUS FUNCTION MANAGEMENT HEADER USED FOR WRITEQ TD REPLIES WRITEQ TS REPLIES READQ TD REPLIES READQ TS REPLIES DELETEQ TD REPLIES DELETEQ TS REPLIES X'0A0A' GROUP AND FUNCTION NOTE THAT CICS/VS WILL NOT SEND EITHER THE FMHQSENS OR THE FMHQNAME VARIABLE LENGTH PARAMETER				
(6)	CHARACTER	1		see definition for FMHQQQORG
(7)	CHARACTER	2	FMHQSTAT (0)	STATUS OF REQUEST
(7)	CHARACTER	1	FMHQSTA1	FIRST STATUS BYTE BITS SET AS FOLLOWS
	1... ....		FMHQINVL	"X'80" INVALID LENGTH FOR REQUEST
	.1.. ....		FMHQINVN	"X'40" INVALID QUEUE NAME
	.1. ....		FMHQRNVL	"X'20" RECORD NOT AVAILABLE
	...1 ....		FMHQNAVL	"X'10" QUEUE NAME NOT AVAILABLE
	.... 1...		FMHQSPAC	"X'08" NO SPACE LEFT ON QUEUE
	.... .1..		FMHQINVC	"X'04" INVALID CURSOR
	.... ...1		FMHQERRO	"X'02" I/O ERROR WHEN QUEUE ACCESSED
	.... ...1		FMHQEMPT	"X'01" QUEUE IS EMPTY
(8)	CHARACTER	1	FMHQSTA2	RESERVED
	1... ....		FMHQIORG	"X'80" Q-ORG NOT SUPPORTED
	.1.. ....		FMHQNAUT	"X'40" UNAUTHORIZED REQUEST
	.1. ....		FMHQSYSI	"X'20" Unable to ship request to next node
	...1 ....		FMHQDISA	"X'10" Queue exists but has been disabled
	.... 1...		FMHQINVR	"X'08" Invalid request; e.g. DELETEQ for extra TD
	.... .1..		FMHQLOCK	"X'04" Queue is locked
	.... 1..1		LF060A0A	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	2	(0)	see definition for FMHQCURS
(0)	CHARACTER	256	FMHQSENS (0)	SENSE DATA (COULD BE ACCESS METHOD DATA)
(0)	CHARACTER	8	(0)	see definition for FMHQNAME
	.... 11..		MF060A0A	"LF060A0A+1+L'FMHQCURS" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QSTATUS FMH
QREPL FUNCTION MANAGEMENT HEADER USED FOR WRITEQ TS REQUESTS X'0A0C' GROUP AND FUNCTION ADDITIONAL FLAGS SET IN FMHXMOD FOR QREPL FMH FMHCNDRQ EQU X'02' CONDITIONAL REQUEST				
(6)	CHARACTER	1		see definition for FMHQQQORG
	.... .111		LF060A0C	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	(0)	see definition for FMHQNAME
(0)	CHARACTER	2	(0)	see definition for FMHQCURS
	...1 1.11		MF060A0C	"LF060A0C+1+L'FMHQNAME+1+L'FMHQCURS" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QREPL FMH
QGETN FUNCTION MANAGEMENT HEADER USED FOR READQ TD REQUESTS READQ TS REQUESTS X'0A10' GROUP AND FUNCTION ADDITIONAL FLAGS SET IN FMHXMOD FOR QGETN FMH FMHCNDRQ EQU X'02' CONDITIONAL REQUEST				
(6)	CHARACTER	1		see definition for FMHQQQORG
	.... .111		LF060A10	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	(0)	see definition for FMHQNAME
(0)	CHARACTER	2	(0)	see definition for FMHQTRSZ
	...1 1.11		MF060A10	"LF060A10+1+L'FMHQNAME+1+L'FMHQTRSZ" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QGETN FMH

Offset Hex	Type	Len	Name (Dim)	Description
FUNCTION MANAGEMENT HEADERS SENT AND RECEIVED IN SUPPORT OF THE LU6 DL/I MODEL DL/I MODEL FUNCTION MANAGEMENT HEADERS CAN BE FOLLOWED BY ONE OR MORE SELF DESCRIBING PIECES OF DATA.				
(0)	CHARACTER	2	FMHDLENG	LENGTH OF PARAMETER; INCLUDES LENGTH AND TYPE FIELDS
(2)	CHARACTER	1	FMHDTYPE	PARAMETER TYPE - VALUES SET AS FOLLOWS
	.... .1		FMHDIOA	"X'01" FLAG SET TO SHOW THAT PARAMETER IS AN I/O AREA
	.... .1.		FMHDSSA	"X'02" FLAG SET TO SHOW THAT PARAMETER IS A SSA
	.... .11		FMHDPBC	"X'03" FLAG SET TO SHOW THAT PARAMETER IS A PCB
	.... .1..		FMHDKEY	"X'04" FLAG SET TO SHOW THAT PARAMETER IS A KEY
	.... .1.1		FMHDSTFN	"X'05" Flag set to show that parameter is a STATFUNC
	.... .11.		FMHDSRTK	"X'06" Flag set to show that parameter is a SRTOKEN
	.... .111		FMHDSCHD	"X'07" Flag set to show that parameter is a SCHEDINFO
	.... 1...		FMHDAIB	"X'08" Flag set to show that parameter is a AIB
(3)	CHARACTER	256	FMHDPARM (0)	THE PARAMETER ITSELF; 256 IS AN ARBITRARY RATHER THAN MAXIMUM VALUE
(3)	CHARACTER	256	FMHDAREA (0)	THE I/O AREA; 256 IS AN ARBITRARY RATHER THAN MAXIMUM VALUE
(3)	CHARACTER	256	FMHDPSSA (0)	THE SEGMENT SEARCH ARGUMENT; 256 IS AN ARBITRARY RATHER THAN MAXIMUM VALUE
(3)	CHARACTER	256	FMHDPPCB (0)	THE PCB VIEW DESCRIPTOR; 256 IS AN ARBITRARY RATHER THAN MAXIMUM VALUE
(3)	CHARACTER	4	FMHDNTNT	PROCESSING INTENT FOR THIS DATA BASE
(7)	CHARACTER	4	FMHDMKYL	MAXIMUM KEY LENGTH FOR THIS PCB (BINARY)
(B)	CHARACTER	4	FMHDSEGS	NUMBER OF SENSITIVE SEGMENTS (BINARY)
	.... 1111		LFMHVDVD	"*-FMHDLENG" LENGTH OF THE FIXED PART OF THE VIEW DESCR (PCB)
(0)	CHARACTER	8	FMHDDBDN (0)	DBD NAME - VARIABLE PARAM - FROM 1 TO 8 CHARACTERS LONG
(0)	CHARACTER	2	FMHDSAMX (0)	MAX SSA SIZE - VARIABLE PARAM - 2 BYTES LONG
(0)	CHARACTER	2	FMHDIOMX (0)	MAX I/O AREA SIZE - VARIABLE PARAM - 2 BYTES LONG
(0)	CHARACTER	2	FMHDSTC (0)	Status Codes- Variable parameter - 2 bytes long
(0)	CHARACTER	8	FMHDBORG (0)	Database Organisation -Variable param - 8 bytes long
(0)	CHARACTER	8	FMHDPBCN (0)	Real PCBNAME -Variable param - 8 bytes long
	..11 ..11		MAXLVDV	"LFMHVDVD+1+L'FMHDDBDN+1+L'FMHDSAMX+1+L'FMHDIOMX+1+L'FMHDS
GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR VIEW DESCRIPTOR				
(3)	CHARACTER	256	FMHDPKEY (0)	THE FULLY CONCATENATED KEY FOR THIS OPERATION; 256 IS AN ARBITRARY RATHER RATHER THAN MAXIMUM VALUE
DLIDBS FUNCTION MANAGEMENT HEADER USED FOR DL/I SCHEDULE REQUESTS X'4002' GROUP AND FUNCTION				
(0)	CHARACTER	8	LF064002 FMHDPSPB (0) MF064002	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER PSB NAME - VARIABLE PARAM - FROM 1 TO 8 CHARACTERS LONG "LF064002+1+L'FMHDPSPB" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE PSB FMH
DLIDBSR FUNCTION MANAGEMENT HEADER USED FOR DL/I SCHEDULE REPLIES X'4004' GROUP AND FUNCTION				
(6)	CHARACTER	2	FMHDSRCS (0)	DL/I RETURN CODES
(6)	CHARACTER	1	FMHDSRC1	DL/I RETURN CODE WITH BITS SET AS FOLLOWS
	1... ....		FMHDNOPN	"X'80" DATA BASE NOT OPEN
	.1. ....		FMHDNFND	"X'40" PSB NOT FOUND
	.1. ....		FMHDNACT	"X'20" DL/I NOT ACTIVE
	...1 ....		FMHDFAIL	"X'10" PSB INITIALIZATION FAILED
	.... 1...		FMHDNAUT	"X'08" UNAUTHORIZED ACCESS TO PSB
	.... .1.		FMHDCONF	"X'04" INTENT SCHEDULE CONFLICT
	.... .1.		FMHDIPCB	"X'02" Invalid PCB Request E.G. IOPCB for Local PSB BIT6 RESERVED BIT7 RESERVED
(7)	CHARACTER	1	FMHDSRC2 LF064004	RESERVED "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
DLIREPL FUNCTION MANAGEMENT HEADER USED FOR DL/I REPL REQUESTS X'4006' GROUP AND FUNCTION				
(6)	CHARACTER	2	FMHDPBCI LF064006	THE INDEX FOR THIS PCB "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
DLISRT FUNCTION MANAGEMENT HEADER USED FOR DL/I ISRT REQUESTS X'4008' GROUP AND FUNCTION				
(6)	CHARACTER	2	LF064008	see definition for FMHDPBCI "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
DLIDLET FUNCTION MANAGEMENT HEADER USED FOR DL/I DLET REQUESTS X'400A' GROUP AND FUNCTION				
(6)	CHARACTER	2	LF06400A	see definition for FMHDPBCI "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER

Offset Hex	Type	Len	Name (Dim)	Description
	DLIGU FUNCTION MANAGEMENT HEADER USED FOR DL/I GU REQUESTS X'4010' GROUP AND FUNCTION			
(6)	CHARACTER .... 1...	2	LF064010	see definition for FMHDPDCBI "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
	DLIGHU FUNCTION MANAGEMENT HEADER USED FOR DL/I GHU REQUESTS X'4012' GROUP AND FUNCTION			
(6)	CHARACTER .... 1...	2	LF064012	see definition for FMHDPDCBI "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
	DLIGN FUNCTION MANAGEMENT HEADER USED FOR DL/I GN REQUESTS X'4014' GROUP AND FUNCTION			
(6)	CHARACTER .... 1...	2	LF064014	see definition for FMHDPDCBI "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
	DLIGHN FUNCTION MANAGEMENT HEADER USED FOR DL/I GHN REQUESTS X'4016' GROUP AND FUNCTION			
(6)	CHARACTER .... 1...	2	LF064016	see definition for FMHDPDCBI "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
	DLIGNP FUNCTION MANAGEMENT HEADER USED FOR DL/I GNP REQUESTS X'4018' GROUP AND FUNCTION			
(6)	CHARACTER .... 1...	2	LF064018	see definition for FMHDPDCBI "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
	DLIGHNP FUNCTION MANAGEMENT HEADER USED FOR DL/I GHNP REQUESTS X'401A' GROUP AND FUNCTION			
(6)	CHARACTER .... 1...	2	LF06401A	see definition for FMHDPDCBI "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
	DLIDBXHR FUNCTION MANAGEMENT HEADER USED FOR DL/I DATABASE REPLIES (SUCCESSFUL GET REQUESTS) X'401C' GROUP AND FUNCTION			
(6)	CHARACTER	2	FMHDCRDS (0)	DL/I RETURN CODES
(6)	CHARACTER	1	FMHDCRD1	DL/I RETURN CODE WITH BITS SET AS FOLLOWS
	FMHDNOPN EQU X'80' DATA BASE NOT OPEN BIT1 RESERVED BIT2 RESERVED BIT3 RESERVED BIT4 RESERVED			
(7)	.... .1..		FMHDNVRQ	"X'04" INVALID PCB INDEX BIT6 RESERVED BIT7 RESERVED
(8)	CHARACTER	1	FMHDCRD2	RESERVED
(A)	CHARACTER	2	FMHDSEGL	SEGMENT LEVEL (BINARY)
(A)	CHARACTER	2	FMHDSTCD	STATUS CODES
(0)	.... 11..		LF06401C	"-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER ...1 .1.1	8	FMHDSEGN (0) MF06401C	THE SEGMENT NAME IS FROM ONE TO EIGHT CHARACTERS "LF06401C+1+L'FMHDSEGN" GOOD UPPPER ESTIMATE OF MAXIMUM LENGTH FOR THE DLIDBXHR FMH
	DLIDBSTS FUNCTION MANAGEMENT HEADER USED FOR DL/I DATABASE REPLIES (UN)SUCCESSFUL GET REQUESTS AND (UN)SUCCESSFUL REPL/ISRT/DLET REQUESTS) X'401E' GROUP AND FUNCTION			
(6)	CHARACTER	2	(0)	see definition for FMHDCRDS
(6)	CHARACTER	1		see definition for FMHDCRD1
(7)	CHARACTER	1		see definition for FMHDCRD2
(8)	CHARACTER	2		see definition for FMHDSEGL
(A)	CHARACTER	2		see definition for FMHDSTCD
(0)	.... 11..		LF06401E	"-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER ...1 .1.1	8	(0) MF06401E	see definition for FMHDSEGN "LF06401E+1+L'FMHDSEGN" GOOD UPPPER ESTIMATE OF MAXIMUM LENGTH FOR THE DLIDBSTS FMH
	DLIDEQ FUNCTION MANAGEMENT HEADER USED FOR DL/I DEQ REQUESTS X'4020' GROUP AND FUNCTION			

Offset Hex	Type	Len	Name (Dim)	Description
(6)	CHARACTER .... 1...	2	LF064020	PCB index "-DFHFMHDS" Length of fixed part
(8)	ADDRESS	2		Length of view descriptor
(A)	BITSTRING	1		I/O area type View descriptor
(B)	BITSTRING .... 11..	1	MF064020	I/O area (1 byte) "-DFHFMHDS" Maximum length of this header
DLIDEQR Function Management Header Used for DL/I DEQ REPLIES X'4022' Group and Function				
(6)	CHARACTER	2		FMHRCDS
(8)	CHARACTER .... 1.1.	2	FMHDESTC LF064022	DL/I Status Code "-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
DLIDBSI Function Management Header Used for DL/I Schedule requests with IOPCB X'4024' Group and Function				
(6)	CHARACTER .... 111.	8	FMHSIPBNM LF064024	PSB Name "-DFHFMHDS"
(0)	CHARACTER	2		FMHLENG
(2)	CHARACTER	1		FMHDTYPE
(3)	CHARACTER	12	FMHDPSCH (0)	
(3)	CHARACTER	8	FMHDIOPC	
(C)	HALFWORD	2	FMHDNBA	
(E)	HALFWORD ...1 11.1	2	FMHDOBA MF064024	"LF064024+2+1+L'FMHDPSCH"
DLILOG Function Management Header User for DL/I LOG requests X'4026' Group and Function				
(6)	CHARACTER .... 1...	2	LF064026	PCB index "-DFHFMHDS"
DLISTAT Function Management Header User for DL/I STAT requests X'4028' Group and Function				
(6)	CHARACTER .... 1...	2	LF064028	PCB index "-DFHFMHDS"
(0)	CHARACTER	2		FMHLENG
(2)	CHARACTER	1		FMHDTYPE
(3)	CHARACTER	9	FMHDPSTA (0)	
(3)	CHARACTER	4	FMHDSTTY	
(7)	CHARACTER	1	FMHDSTFO	
(8)	CHARACTER ...1 .1..	4	FMHDSTRE MF064028	"LF064028+2+1+L'FMHDPSTA"
DLIINIT Function Management Header User for DL/I INIT requests X'402A' Group and Function				
(6)	CHARACTER .... 1...	2	LF06402A	PCB index "-DFHFMHDS"
DLISETS Function Management Header User for DL/I SETS requests X'402C' Group and Function				
(6)	CHARACTER .... 1...	2	LF06402C	PCB index "-DFHFMHDS"
(0)	CHARACTER	4	FMHDPSRT	
DLIROLS Function Management Header User for DL/I ROLS requests X'402E' Group and Function				
(6)	CHARACTER .... 1...	2	LF06402E	PCB index "-DFHFMHDS"
DLIPOS Function Management Header User for DL/I POS requests X'4030' Group and Function				
(6)	CHARACTER .... 1...	2	LF064030	PCB index "-DFHFMHDS"
DLISSR Function Management Header User for DL/I System Service Reply X'4032' Group and Function				
(6)	CHARACTER	2		FMHRCDS
(8)	CHARACTER .... 1.1.	2	FMHDSSCD LF064032	Status Code "-DFHFMHDS"

Offset Hex	Type	Len	Name (Dim)	Description
	DLIINTR Function Management Header User for DL/I INIT Reply X'4034' Group and Function			
.... .11.			LF064034	"-DFHFMHDS"
	DLICMD Function Management Header User for DL/I ICMD requests X'4036' Group and Function			
(6)	CHARACTER	2	LF064036	PCB index (zero for ICMD, RCMD, GMSG) "-DFHFMHDS" Length of fixed part
.... 1...				
	DLIAOIR Function Management Header User for DL/I ICMD, RCMD, GMSG Reply X'4038' Group and Function			
(6)	CHARACTER	2	LF064038	FMHRCDS "-DFHFMHDS"
.... 1...				
	DLIRCMD Function Management Header User for DL/I RCMD requests X'403A' Group and Function			
(6)	CHARACTER	2	LF06403A	PCB index (zero for ICMD, RCMD, GMSG) "-DFHFMHDS" Length of fixed part
.... 1...				
	DLIGMSG Function Management Header User for DL/I GMSG requests X'403C' Group and Function			
(6)	CHARACTER	2	LF06403C	PCB index (zero for ICMD, RCMD, GMSG) "-DFHFMHDS" Length of fixed part
.... 1...				
	DLINQY Function Management Header User for DL/I INQY requests X'403E' Group and Function			
(6)	CHARACTER	2	LF06403E	PCB index (zero for INQY) "-DFHFMHDS" Length of fixed part
.... 1...				
	TYPE 7 FUNCTION MANAGEMENT HEADERS			
(6)	CHARACTER	1	FMHELOG (0)	LUTYPE 6.2 ERROR LOG
1... ..			FMHELOG1	"X'80" GDS DATA VARIABLE
.... ..			FMHELOG0	"X'00" NO GDS DATA VARIABLE
(6)	CHARACTER	2	FMHSMNUM	MESSAGE NUMBER
.... 1...			LFMHSM	"-DFHFMHDS" LENGTH OF ARCHITECTED T7 FMH
(8)	CHARACTER	1	FMHSMSTD (0)	END OF ARCHITECTED T7 FMH
(8)	CHARACTER	4	FMHSMCCD	CICS ABEND CODE
(C)	CHARACTER	5	FMHSMDCD	DL/I ABEND CODE
...1 ...1			LFMHSMDL	"-DFHFMHDS" LENGTH OF MM T7 FMH
	TYPE 10 FUNCTION MANAGEMENT HEADERS FUNCTION MANAGEMENT HEADERS SENT AND RECEIVED IN SUPPORT OF SYNCPOINT MANAGEMENT SYNCPOINT FUNCTION MANAGEMENT HEADER X'0202' GROUP AND FUNCTION			
.... .1.			FMHPGPSY	"X'02" SYNCH POINT GROUP
.... .1.			FMHPGPPR	"X'02" PREPARE SUBGROUP
(4)	BITSTRING	1	FMHPRSV1	RESERVED '00'
(5)	BITSTRING	1	FMHPPTYP	PREPARE TYPE
.... ..			FMHPPTFL	"X'00" PREPARE WITH KEEP FLOW
.... .1.			FMHPPTCB	"X'01" PREPARE WITH REQUEST EB
.... .1.			FMHPPTCD	"X'02" PREPARE WITH REQUEST CD
.... .11.			LF0A0202	"-DFHFMHDS" LENGTH
	TYPE 12 FUNCTION MANAGEMENT HEADERS FUNCTION MANAGEMENT HEADERS SENT AND RECEIVED IN SUPPORT OF BIND TIME SECURITY TRANSFORMED PASSWORD FUNCTION MANAGEMENT HEADER ---- GROUP AND FUNCTION NOT SUPPORTED			
(2)	BITSTRING	8	FMHVTPW	TRANSFORMED PASSWORD
.... 1.1.			LF0A0202	"-DFHFMHDS" LENGTH
	TYPE 43 FUNCTION MANAGEMENT HEADERS CICS PRIVATE HEADERS THE FUNCTION MANAGEMENT HEADER FOR A CICS REQUEST OR REPLY. SINCE THIS IS A PRIVATE FMH, THE DIRECTION OF TRANSMISSION DETERMINES WHETHER IT REPRESENTS A REQUEST OR A REPLY.			
.... .11.			LFMHCICS	"-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	14	FMHCOPTS (0)	FOR OUTBOUND REQUESTS - THE EXISTENCE AND TCA BITS FROM ARG0
(0)	CHARACTER	9	FMHCINVP (0)	For outbound DPL requests - the name of the invoking program
(0)	CHARACTER	7	FMHCRUDE (0)	FOR INBOUND REPLIES - THE ERROR CODES FROM EIBRCODES

Offset Hex	Type	Len	Name (Dim)	Description
(0)	CHARACTER	5	FMHCTRR (0)	FOR INBOUND REPLIES - THE TRANSACTION ROUTING RETURN CODE TO BE PASSED TO CPSM
THIS FMH IS FOLLOWED BY ZERO OR MORE DATA VARIABLES WHICH REPRESENT ARGUMENTS TO AN EXEC CICS COMMAND. NOT ALL ARGUMENTS WILL BE SENT AND FURTHERMORE THE VALUES TRANSMITTED WILL DEPEND ON THE FUNCTION AND DIRECTION OF TRANSMISSION.				
(0)	CHARACTER	2	FMHCARGL	LENGTH OF PARAMETER; INCLUDES LENGTH AND ARGNO FIELDS
(2)	CHARACTER	1	FMHCARGN	ARGUMENT NUMBER; ARG3 IS REPRESENTED BY VALUE X'06'
(3)	CHARACTER	256	FMHCARGV (0)	THE ARGUMENT ITSELF; IT MAY BE, FOR EXAMPLE, A KEY

## FMI Function and module identifiers

MODULE NAME = DFHFMIPI  
 DESCRIPTIVE NAME = CICS FUNCTION AND MODULE IDENTIFIERS  
 All names defined in DFHFMIPI form part of the Product-Sensitive Programming Interface.  
 FUNCTION AND MODULE IDENTIFIERS  
 (SEE FOLLOWING DSECTS: DFHDWEDS,DFHJCADS,DFHJCR)  
 FUNCTION IDENTIFIERS  
 X'20' PLUS X'8-' ...USE FOR AUTOMATIC JOURNALING  
 X'40' PLUS X'8-' ...USE FOR AUTOMATIC LOGGING  
 X'E0' thru X'FF' are reserved for Sync-Point logging  
 (MUST BE PRESENT IN 'LOGGABLE' DWE'S)  
 DFHFMIPI CONSTANTS  
 JOURNAL CONTROL

Offset Hex	Type	Len	Name (Dim)	Description
1	HEX	80	FIDJCLAB	JOURNAL CONTROL LABEL
FILE CONTROL				
1	HEX	40	FIDALOG	AUTOMATICALLY LOGGED
1	HEX	20	FIDAJRN	AUTOMATICALLY JOURNALLED
1	HEX	10	FIDMASS	MASSINSERT REQ (FIDFCWA ONLY) *
1	HEX	80	FIDFCRO	FILE CONTROL READ-ONLY
1	HEX	81	FIDFCRU	FILE CONTROL READ-UPDATE
1	HEX	82	FIDFCWU	FILE CONTROL WRITE-UPDATE
1	HEX	83	FIDFCWA	FILE CONTROL WRITE-ADD
1	HEX	84	FIDFCWAC	FILE CONTROL WRITE-ADD-COMP *
1	HEX	86	FIDFCWD	FILE CONTROL WRITE-DELETE *
1	HEX	88	FIDFCBOF	Backout Failed Log Record *
1	HEX	8F	FIDFCDSN	Dsname record *
NOTE THAT FID VALUES (AS ABOVE) ARE OFTEN USED BOTH TO IDENTIFY THE FUNCTION OF THE DWE AND THE FUNCTION OF THE LOG RECORD. IN THE CASE OF THE FIDFC EQU'S ABOVE, THEY ARE USED FOR LOG RECORDS ONLY.				
SPECIAL FEATURES FUNCTION IDENTIFIERS				
1	HEX	80	FIDPSOPC	CONTINOUS LOGICAL SPOOLOPEN
1	HEX	81	FIDPSWRC	CONTINOUS LOGICAL SPOOLWRITE
1	HEX	82	FIDPSCLC	CONTINOUS LOGICAL SPOOLCLOSE
1	HEX	83	FIDPSOPS	STANDARD SPOOLOPEN
INTERVAL CONTROL FUNCTION IDENTIFIERS				
1	HEX	50	FIDICPDF	INTERVAL CONTROL PUT,DEFER
1	HEX	80	FIDICRGT	RESTART GET.
1	HEX	90	FIDICCAN	COPY OF CANCELLED ICE
1	HEX	08	FIDICDB	CKOUT MASK
BMS FUNCTION IDENTIFIERS:-				
1	HEX	81	FIDBMPM	BMS - PARTIAL MESSAGE ON
1	HEX	82	FIDBMODS	BMS - OPEN DATA SET ON
TERMINAL CONTROL FUNCTION IDENTIFIERS				
1	HEX	F0	FIDTCML	SYNC POINT - LOG SEQUENCE
1	HEX	01	FIDTCDWL	DEFERRED WRITE DATA
1	HEX	02	FIDTCFMH	FUNCTION MANAGEMENT
1	HEX	04	FIDTCDIP	DIP REQUEST
1	HEX	08	FIDTCDB	DYNAMIC BACKOUT MASK
1	HEX	40	FIDTCAL	AUTOMATIC LOGGING MASK
1	HEX	20	FIDTCAJ	AUTOMATIC JOURNALING MASK
1	HEX	80	FIDCTL	SEQUENCE NUMBER ONLY
1	HEX	81	FIDTCIM	INPUT MESSAGE (LOG AND
1	HEX	82	FIDTCOM	OUTPUT MESSAGE (JOURNAL



Offset Hex	Type	Len	Name (Dim)	Description
1	HEX	83	FIDTCWP	WRITE WAS PURGED (LOG
1	HEX	84	FIDTCP RR	POSITIVE RESPONSE
1	HEX	85	FIDTCIMF	INPUT MESSAGE (W/FMH,
1	HEX	86	FIDTCOMN	OUTPUT MESSAGE, (W/O
1	HEX	87	FIDTC ON	OUTPUT MESSAGE, FMH,
1	HEX	88	FIDTC ONN	OUTPUT MESSAGE, W/O FMH,
1	HEX	89	FIDTCUA	INITIAL TCT USER AREA
1	HEX	8A	FIDTCEIB	INITIAL EXEC COMM AREA
1	HEX	8B	FIDTCIMN	IN MSG, NO FMH, DATA COMPLT *
1	HEX	8C	FIDTCINN	IN MSG, NO FMH, DATA -COMPLT *
GENERAL PURPOSE SUBTASK FUNCTION IDENTIFIERS				
1	HEX	80	FIDSKDF	DEFAULT FUNCTION CODE
Front-End Programming Interface FUNCTION IDENTIFIERS				
1	HEX	F0	FIDFEPIN	FEPI Inbound API-<FEPI
1	HEX	F1	FIDFEPOU	FEPI Outbound API->FEPI
MODULE IDENTIFIERS (MAY BE X'01'-->'X'FF'.)				
1	HEX	08	MODIDIC	INTERVAL CONTROL
1	HEX	10	MODIDTC	TERMINAL CONTROL
1	HEX	11	MODIDFC	FILE CONTROL
1	HEX	13	MODIDTS	TEMPORARY STORAGE
1	HEX	14	MODIDFCJ	FILE CONTROL JOURNALLING *
1	HEX	40	MODIDBM	BASIC MAPPING
1	HEX	45	MODIDJC	JOURNAL CONTROL
1	HEX	53	MODIDPS	SPECIAL FEATURES
1	HEX	5B	MODIDTMP	TABLE MANAGER
1	HEX	5C	MODIDSKP	SUBTASK MANAGER
1	HEX	5D	MODIDFEP	Front-End Prog Inter
1	HEX	FF	MODIDUSR	RESERVED FOR USER SYNC

---

## FRABC File request anchor block

CONTROL BLOCK NAME = DFHFRABC  
DESCRIPTIVE NAME = CICS File Request Anchor Block (FRAB)  
FUNCTION =

DFHFRABC describes the DSECT for the File Request Anchor Block. This block serves as an anchor for the set of File Lasting Access Blocks (FLABs) belonging to a particular transaction. The File Request Thread Elements (FRTes) are chained from the FLABs. The FRAB identifies the transaction to which a given File Control request belongs.

The File Request Anchor Block is built by File Control as part of processing of the first File Control request in a transaction. The storage for the FRAB is obtained from a FRAB storage subpool, created by DFHFICRP during File Control initialisation. The address of the FRAB is then used as the Recovery Manager token associated with the client name 'FC'.

The File Request Anchor Block is deleted after all the FLABs have been processed during SYNCPOINT at transaction termination. At the same time, the Recovery Manager token is reset to zero. At this point, the FRAB storage is not returned to the FRAB storage subpool, but is instead added to a chain of free FRABs, addressed by the FC\_STATIC\_FRAB\_FREE\_CHAIN pointer in FC static. Subsequent requests to build a FRAB are, if possible, satisfied by a quick cell mechanism from this chain.

LIFETIME =

Normal creation is when the first File Control Request for a transaction is processed.

A FRAB is also created if a failure occurs during phase 2 of an intermediate syncpoint: the original FRAB for the transaction is shunted along with the failed parts of the unit of work, and the new FRAB is passed on to the next unit of work in the transaction.

FRABs are deleted at transaction termination (for a shunted FRAB this will be at termination of the transaction which was created in order to retry the failure).

If a UOW is shunted, the FRAB is shunted with it, unless there was no recoverable File Control work in the unit of work.

When CICS is warm or emergency restarted, FRABs will be rebuilt for any units of work which had made file control updates that were not committed at the time of the CICS termination.

Note that if new fields are added to the FRAB, DFHFICR must be modified to rebuild these fields.

STORAGE CLASS =

Above 16M line. CICS key.

LOCATION =

Issuing an INQUIRE\_WORK\_TOKEN to the recovery manager with client name 'FC' returns the address of the File Request Anchor Block.

INNER CONTROL BLOCKS =

IFGLUWID

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = None

MODULE TYPE = Control block definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	248	DFHFRABC	
Eye catcher				
(0)	CHARACTER	16	FRAB_EYE_CATCHER	Eye catcher
(0)	UNSIGNED	2	FRAB_LENGTH	Length of FRAB
(2)	CHARACTER	6	FRAB_EYE1	>DFHFC FC 'domain'
(8)	CHARACTER	8	FRAB_EYE2	FRAB
Main part of FRAB				
(10)	CHARACTER	232	FRAB_MAIN_PART	Main part of FRAB
(10)	ADDRESS	4	FRAB_NEXT_ FRAB_ADDRESS	
				Ptr to next FRAB in FRAB chain
(10)	ADDRESS	4	FRAB_FREE_ FRAB_ADDRESS	
				Next FRAB in FC static free chain.
(14)	ADDRESS	4	FRAB_PREV_ FRAB_ADDRESS	
				Pointer to previous FRAB in FRAB chain
(18)	ADDRESS	4	FRAB_FLAB_ CHAIN_ADDRESS	
				Pointer to start of FLAB chain for current transaction.

Offset Hex	Type	Len	Name (Dim)	Description
(1C)	ADDRESS	4	FRAB_FLLB_CHAIN_ADDRESS	Pointer to start of FLLB chain for current transaction. VSWA that suffered excl control conflict for this task.
(20)	ADDRESS	4	FRAB_EXCL_VSWA	
(24)	ADDRESS	4	FRAB_TRANSACTION_TOKEN	
(28)	FULLWORD	4	FRAB_UPDATE_TOKEN	Current transaction's transaction token (TCA address) Current update token
Data tables section of FRAB				
(2C)	ADDRESS	4	FRAB_DT_UOW_TOKEN	Data tables recovery token
Recovery-related section of FRAB				
(30)	BITSTRING 1... ..	1	FRAB_FLAGS FRAB_RLS_LOCKS_HELD	Assorted flags IDALKREL is required
	.1.. ..		FRAB_NON_RLS_LOCKS_HELD	NQ Manager DEQ is required
	..1. ....		FRAB_HAS_BEEN_SHUNTED	UOW has been shunted at least once
	...1 .... .... 1...		FRAB_UOWID_SET FRAB_PHASE_2_SYNC	UOW has been recorded in FRAB
	.... .1..		FRAB_REQUEST_FORGET	UOW has been through ph2 of syncpoint
	.... ..11		*	Request_forget has been issued
(31)	CHARACTER	3	*	Reserved
(34)	ADDRESS	4	FRAB_FCUP_CHAIN_ADDRESS	Reserved Pointer to start of FCUP chain
RLS section of FRAB				
(38)	CHARACTER	1	*	Reserved
(3A)	UNSIGNED	2	FRAB_RLS_TIMEOUT	Timeout value
(3C)	FULLWORD	4	FRAB_SERVER_SEQUENCE	Sequence number of server at time FRAB created.
(40)	CHARACTER	4	FRAB_TRANNUM	Transaction # for deadlock/timeout pd
(44)	CHARACTER	4	FRAB_TRANID	Transaction id for deadlock/timeout pd
(48)	CHARACTER	96	FRAB_LUWID	RLS Luwid
(A8)	CHARACTER	80	FRAB_VSAM_WORKAREA	VSAM workarea
(A8)	FULLWORD	4	*(20)	(20 words)
(F8)	CHARACTER		*	Align to double word boundary

```

MACRO NAME: IFGLUWID
DESCRIPTION: Mapping the Logical Unit of Work ID Control Block
STATUS: Version 1 DFSMS Release 3.0
PROPRIETARY V3 STATEMENT
LICENSED MATERIALS - PROPERTY OF IBM
"RESTRICTED MATERIALS OF IBM"
5695-DF1
END PROPRIETARY V3 STATEMENT
FUNCTION = Mapping Macro for Logical Unit of Work ID
INCLUDED MACROS = NONE
METHOD OF ACCESS = PL/X-370 OR ASSEMBLER
  
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	96	IFGLUWID	
(0)	CHARACTER	16	LUWIDHDR	
(0)	CHARACTER	8	LUWIDID	Eye Catcher - IFGLUWID
(8)	FULLWORD	4	LUWIDLEN	Control Block Length
(C)	UNSIGNED	1	LUWIDVER	Version Identifier
(D)	CHARACTER	3	*	Reserved
(10)	CHARACTER	8	LUWIDVAL	Logical Unit Of Work ID
(18)	CHARACTER	36	LUWIDPDI	deadlock/timeout problem
determination information				
(18)	BITSTRING 1... ..	1	LUWIDFL1 LUWIDNDL	first flag field '1'= LUWID is not a preferred
deadlock victim				
(19)	CHARACTER	3	*	reserved
(1C)	CHARACTER	32	LUWIDPD	Deadlock/time out problem
determination data area				

Offset Hex	Type	Len	Name (Dim)	Description
(3C)	UNSIGNED	4	LUWIDWLM	WLM transaction token or 0
The LUWID should be on a dblword boundary. In PL/X, if LIKE is used, LIKE must specify BDY(DWORD). To avoid potential problems with how the user gets the LUWID block, whether PL/X or ASM, VSAM will save result of TIMEUSED in a BDY(DWORD) internal field and then move to LUWIDCPU				
(40)	CHARACTER	8	LUWIDCPU	Total CPU time used by the
current SRB up until TIMEUSED is issued. Time used by TCB is NOT included. (Field must be cleared by user before issuing a VSAM request. Field is not available until the VSAM request is complete. For SYN,RLSWAIT, field is available when control is returned from RLSWAIT exit. For ASY requests, field is available when CHECK completes. VSAM may not be able to set this field if Cancel or ABEND occurs, or TIMEUSED fails.)				
(48)	ADDRESS	4	LUWIDSV A	Ptr to a 20-word BDY(DWORD)
user-provided area required for VSAM to use TIMEUSED				
(4C)	FULLWORD	4	* (5)	Reserved, unused

## Constants

Len	Type	Value	Name	Description
8	CHARACTER		LUWIDNUL	Null LUWID
8	CHARACTER	IFGLUWID	LUWIDIDC	Eyecatcher
1	DECIMAL	1	LUWIDVRC	Version Number

## FRTEC File request thread element

CONTROL BLOCK NAME = DFHFRTEC  
 DESCRIPTIVE NAME = CICS File Request Thread Element  
 FUNCTION =  
 DFHFRTEC describes the dsect for File Request Thread Elements (FRTEs). These elements are used to represent active File Control Requests. They are also used to reconcile related requests (eg READ\_UPDATE -> REWRITE). FRTEs are created by DFHFRCR and hung off a chain for the particular file within a given task and environment. The FRTE is created at the start of the request thread and destroyed at the end of the request thread. For example, a FRTE is created on a STARTBR and destroyed by an ENDBR.

LIFETIME =  
 For the duration of the File Control request thread.

STORAGE CLASS =  
 Above 16M line. CICS key.

LOCATION =  
 Issuing an INQUIRE\_WORK\_TOKEN to the recovery manager returns the address of the FRAB. The FRAB contains the address of the head of the FLAB chain for this task. Each FLAB addresses the chain of active FRTEs for that specific file and environment.

INNER CONTROL BLOCKS =  
 DFHSETC

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	108	DFHFRTE	
Eye catcher				
(0)	CHARACTER	16	FRT_EYE_CATCHER	Eye catcher
(0)	HALFWORD	2	FRT_LENGTH	length of FRTE
(2)	CHARACTER	6	FRT_EYE1	>DFHFC FC 'domain'
(8)	CHARACTER	8	FRT_EYE2	FRTE
Main part of FRTE				
(10)	CHARACTER	88	FRT_MAIN_PART	Main part of FRTE
(10)	ADDRESS	4	FRT_NEXT_ FRTE_ADDRESS	

Offset Hex	Type	Len	Name (Dim)	Description
(10)	ADDRESS	4	FRT_FREE_ FRTE_ADDRESS	Pointer to next FRTE in chain for current file.
(14)	ADDRESS	4	FRT_FLAB_ADDRESS	Next FRTE in FC static storage free chain.
(18)	CHARACTER	1	FRT_FUNCTION	Address of FLAB that owns this FRTE.
(19)	BITSTRING	1	FRT_FLAGS	Function byte - see CONSTANT definitions
	1... ..		FRT_PRIVILEGED	FRTE flag byte
	.1.. ..		FRT_INITIAL_LOAD	Privileged request
	..1. ....		FRT_USE_FCDT	Initial loading lock held.
	...1 ....		FRT_BACKOUT	Call FCDT if a CMT
	.... 1...		FRT_CONTINUATION	Backing out
	.... .1..		FRT_ACCMETH_ MODULE_ACTIVE	This request continues a previous one
	.... ..1.		FRT_UMT_LOCK_HELD	The access method dependent module is active
	.... ...1		*	UMT record lock held for frt_key_copy
(1A)	UNSIGNED	2	FRT_REQID	...Reserved
(1C)	ADDRESS	4	FRT_DATA_BUFFER	Browse request ident.
(20)	ADDRESS	4	FRT_UPDATE_TOKEN	Temporary area to read record into. TOKEN for read update
This section of the FRTE describes the work area (VSWA or FIOA)				
(24)	ADDRESS	4	FRT_WORK_ AREA_ADDRESS	Address of work area i.e. VSWA or FIOA
(28)	UNSIGNED	4	FRT_WORK_ AREA_LENGTH	Work area length
(2C)	CHARACTER	8	FRT_WORK_ AREA_SUBPOOL	Work area subpool
This section of the FRTE describes SET storage				
(34)	CHARACTER	8	FRT_SET_CONTROL	Set storage control area.
This section of the FRTE is used by data tables				
(3C)	ADDRESS	4	FRT_KEY_COPY	Key copy area
(40)	CHARACTER	12	FRT_DT_ RECORD_TOKEN	Table record token
(40)	ADDRESS	4	FRT_FBWA_ADDRESS	Table browse area
(4C)	ADDRESS	4	FRT_CF_ CONNECTION_TOKEN	CFDT pool connect token
(50)	FULLWORD	4	FRT_CF_ INSTANCE_NUMBER	CFDT server instance number
This section of the FRTE is temporary and will be removed later				
(54)	ADDRESS	4	FRT_BCB_ADDRESS	Base Cluster Block addr
This section of the FRTE is used by the log and journal program				
(58)	ADDRESS	4	FRT_FORCE_TOKEN	Token returned from RMRE APPEND & supplied to RMRE FORCE
This section of the FRTE is used by RLS. NOTE: frt_ifgluwid_pointer is NOT part of frt_main_part. This ensures that this field is not cleared when the FRTE is reused. The FRTE stays permanently attached the IFGLUWID area.				
(5C)	FULLWORD	4	FRT_WRMJ_COUNT	no. of massinsert requests to recoverable ESDS.
(60)	CHARACTER	8	FRT_WRMJ_START_TIME	Time of first massinsert to recoverable ESDS.
(68)	ADDRESS	4	FRT_IFGLUWID_POINTER	Address of IFGLUWID * area associated with this request thread.

## Constants

Len	Type	Value	Name	Description
1	DECIMAL	1	FRT_READ	Read
1	DECIMAL	3	FRT_READ_UPDATE	Read_Update
1	DECIMAL	5	FRT_WRITE	Write
1	DECIMAL	8	FRT_DELETE	Delete
1	DECIMAL	10	FRT_START_BROWSE	Start Browse

## ICE Interval control element

CONTROL BLOCK NAME = DFHICEDS  
 DESCRIPTIVE NAME = CICS Interval Control Element (ICE)  
 FUNCTION =  
 An ICE is created for each time-dependent request received by the interval control program. These ICEs are logically chained from CSAICEBA in the CSA in expiration time-of-day sequence.  
 LIFETIME =  
 Expiration of a time-ordered request is detected by the expired request logic of the interval control program running as a CICS system task. The type of service represented by the expired ICE is initiated, if all resources required for the service are available, and the ICE is removed from the chain. If the resources are not available, the ICE remains on the chain and another attempt to initiate the request service is made the next time the expiry logic runs.  
 STORAGE CLASS =  
 LOCATION =  
 INNER CONTROL BLOCKS =  
 NOTES :  
 DEPENDENCIES = S/370  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
 DATA AREAS =  
 CONTROL BLOCKS =  
 GLOBAL VARIABLES (Macro pass) =  
 The following fields form part of the product sensitive programming interface:  
 ICECHNAD ICERQID ICETRMID ICETRNID ICEXTOD

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	200	DFHICEDS	ICE control block
(0)	CHARACTER	16	ICEPRFX	ICE prefix
(0)	UNSIGNED	2	ICELEN	ICE length
(2)	CHARACTER	6	ICEBLKID	Eye-catcher ('>DFHAP')
(8)	CHARACTER	8	ICEBLKNM	Control block name ('ICE')
(10)	CHARACTER	8	ICEBODY	ICE body
(10)	ADDRESS	4	ICECHNAD	ICE chain address
(14)	ADDRESS	4	ICETECAA	Timer event area address
(18)	ADDRESS	4	ICETCAAD	TCA address
(18)	CHARACTER	4	ICETRMID	Symbolic terminal id
(1C)	CHARACTER	4	ICETRNID	Transaction identification
(20)	CHARACTER	11	ICESECSF	Security
(20)	UNSIGNED	1	ICEUSIDL	Length of userid
(21)	CHARACTER	10	ICEUSRID	userid
(2B)	CHARACTER	2	*	Reserved
(2D)	CHARACTER	1	ICETYPE	Type of ICE
(2E)	BITSTRING	1	ICESTATI	ICE status indicator
			1... ..	ICESTNRL
			.1.. ..	ICE_BEING_ PROCESSED
			..1. ....	ICESTXTE
			...1 ....	ICESTCNL
			.... 1...	ICESTXTM
			.... .1..	ICESTRES
			.... ..1.	*
			.... ..1	ICESTCHN
(2F)	CHARACTER	1	ICERQCLS	Request identification
(30)	UNSIGNED	4	ICE_UNIQUE_ID	Number used to construct unique request id.
(30)	CHARACTER	4	ICEXTOD	Exp'n time of day
(34)	CHARACTER	8	ICERQID	Request identification
(3C)	CHARACTER	8	ICENETSY	Netname/sysid from XICTENF exit
(44)	CHARACTER	8	ICEMODEN	Mode name
(4C)	CHARACTER	1	ICETR	Transaction routing indicator
(4D)	CHARACTER	1	ICEFS	Function shipping indicator

Offset Hex	Type	Len	Name (Dim)	Description
(4E)	BITSTRING	1	ICEFLAGS	Flags
	1... ..		ICESZ	Startcode SZ for FEPI
	.1.. ..		ICEFLATX	Flat_Transuser set
	..1. ....		ICEUSSET	Transaction user set
	...1 ....		ICEDYNTR	Transaction dynamic
	.... 1...		ICEUSSYS	System userid requested
	.... .1..		ICE_DATA_	
			RECOVERABLE	
	.... ..1.		ICE_ZERO_INTERVAL	ICE is associated with a recoverable TS queue
	.... ...1		ICE_PROTECTED	Originating request specified an INTERVAL of zero
(4F)	BITSTRING	1	ICEFLAG2	Flags
	1... ..		ICERTST	Routable START
	.111 1111		*	Reserved
(50)	CHARACTER	4	ICE_USER_TOKEN	User token
(54)	CHARACTER	4	ICECURTR	Current terminal id
(58)	CHARACTER	48	ICEFLATU	US domain Flat_Transuser
(88)	CHARACTER	12	ICE_QUALIFIED_	
			EXPIRY_TIME	
				Expiry time and expiry time qualifier
(88)	CHARACTER	8	ICE_EXPIRY_TIMES	Absolute expiry times
(88)	CHARACTER	8	ICE_EXPIRY_STCK	STCK expiry time for an interval ICE
(88)	CHARACTER	8	ICE_EXPIRY_DT	Date and time of expiry for time ICE
(88)	CHARACTER	4	ICE_EXPIRY_DATE	ccyyddd+ expiry date for time ICE
(8C)	CHARACTER	4	ICE_EXPIRY_TIME	Timer unit (1/300sec) expiry TOD for time ICE
(90)	CHARACTER	4	ICETIMST	Expiry time qualifier
(94)	HALFWORD	2	ICE_START_DATA_LEN	Length of data
(96)	CHARACTER	2	*	Reserved
(98)	CHARACTER	8	ICE_CREATION_TIME	Creation time STCK value
(A0)	CHARACTER		*	
(A0)	CHARACTER	8	ICE_TERMINAL_NETNAME	
				Netname of terminal
(A8)	CHARACTER	4	ICESHSYS	Shipped via sysid
(AC)	CHARACTER	8	ICE_TOR_NETNAME	Netname of TOR
(B4)	ADDRESS	4	ICE_ROUTER_	
			COMM_ADDR	
				Address of commarea for dynamic routing program
(B8)	HALFWORD	2	ICE_ROUTER_COMM_LEN	
				Length of DYP commarea
(BA)	CHARACTER	4	ICEDFTRN	Transaction id for deferred dynamic start request
(BE)	CHARACTER	8	ICEDSRP	Router program name - stored here for ICXM processing to reduce SHRTM calls
(C6)	CHARACTER	2	*	RESERVED

## Constants

Len	Type	Value	Name	Description
4	DECIMAL	200	ICEAD	ICE length
Possible values of ICETYPE				
1	HEX	20	ICEWTM	...Wait
1	HEX	30	ICEPST	...Post
1	HEX	40	ICEINT	...ICP - initiate request
1	HEX	50	ICEPUT	...ICP - put data request
Values used in DFHIC get wait requests				
1	DECIMAL	0	ICE_GW_DATA	Resumed due to new data
1	DECIMAL	4	ICE_GW_SHUTDOWN	Resumed due to shutdown

---

**ICUE      Interval control EXEC parameter list**



CONTROL BLOCK NAME = DFHICUEC  
DESCRIPTIVE NAME = CICS EXEC argument list for Interval  
Control user exits.

Although provided in a general library, DFHICUED is not  
to be used as a general programming interface. Refer to  
product documentation to determine intended usage.

The following fields are part of the Product-sensitive  
Programming Interface.

```
IC_ADDR0
IC_ADDR1
IC_ADDR2
IC_ADDR3
IC_ADDR4
IC_ADDR5
IC_ADDR6
IC_ADDR7
IC_ADDR8
IC_ADDR9
IC_ADDRA
IC_ADDRB
IC_ADDRD
IC_ADDRE
IC_ADDRF
IC_ADDR10
# IC_ADDR11
# IC_ADDR12
# IC_ADDR13
# IC_ADDR14
# IC_ADDR15
# IC_ADDR16
# IC_ADDR1D
# IC_ADDR1E
# IC_ASKTIME_ABSTIME
IC_BITS1
IC_BITS2
IC_BITS3
IC_CANCEL_REQID
IC_CANCEL_SYSID
IC_CANCEL_TRANSID
IC_DELAY_HOURS
IC_DELAY_INTERVAL
IC_DELAY_MINUTES
IC_DELAY_REQID
IC_DELAY_SECONDS
IC_DELAY_TIME
IC_EIDOPT5
IC_EIDOPT6
IC_EIDOPT7
IC_EIDOPT8
# IC_FORMATTIME_ABSTIME
# IC_FORMATTIME_DATE
# IC_FORMATTIME_DATEFORM
# IC_FORMATTIME_DATESEP
# IC_FORMATTIME_DAYCOUNT
# IC_FORMATTIME_DAYOFMONTH
# IC_FORMATTIME_DAYOFWEEK
# IC_FORMATTIME_DDMMYY
# IC_FORMATTIME_DDMMYYYY
# IC_FORMATTIME_FULLDATE
# IC_FORMATTIME_MMDDYY
# IC_FORMATTIME_MMDDYYYY
# IC_FORMATTIME_MONTHOFYEAR
# IC_FORMATTIME_TIME
# IC_FORMATTIME_TIMESEP
# IC_FORMATTIME_YEAR
# IC_FORMATTIME_YDMM
# IC_FORMATTIME_YDMMDD
# IC_FORMATTIME_YDMMDDMM
# IC_FORMATTIME_YDMMDDMMDD
# IC_FORMATTIME_YDMMDDMMDDMM
# IC_FORMATTIME_YDMMDDMMDDMMDD
IC_FUNCT
IC_GROUP
IC_HOURS
IC_INTERVAL
IC_MINUTES
IC_POST_HOURS
IC_POST_INTERVAL
IC_POST_MINUTES
IC_POST_REQID
IC_POST_SECONDS
IC_POST_SET
```

continued

IC\_POST\_TIME  
 IC\_QUEUE  
 IC\_REQID  
 IC\_RETRIEVE\_INT0  
 IC\_RETRIEVE\_LENGTH  
 IC\_RETRIEVE\_QUEUE  
 IC\_RETRIEVE\_RTERMID  
 IC\_RETRIEVE\_RTRANSID  
 IC\_RETRIEVE\_SET  
 IC\_RTERMID  
 IC\_RTRANSID  
 IC\_SECONDS  
 IC\_START\_FROM  
 IC\_START\_HOURS  
 IC\_START\_INTERVAL  
 IC\_START\_LENGTH  
 IC\_START\_MINUTES  
 IC\_START\_QUEUE  
 IC\_START\_REQID  
 IC\_START\_RTERMID  
 IC\_START\_RTRANSID  
 IC\_START\_SECONDS  
 IC\_START\_SYSID  
 IC\_START\_SYSNET  
 IC\_START\_TERMID  
 IC\_START\_TIME  
 IC\_START\_TRANSID  
 IC\_START\_USERID  
 IC\_SYSID  
 IC\_TIME  
 IC\_TRANSID

All equates for values of EIBRCODE, EIBRESP and EIBRESP2 form part of the General-purpose Programming Interface. All remaining fields used in defining the Exec Parameter List are product sensitive and may vary between CICS releases.

FUNCTION =

To define the EXEC parameter list for Interval Control requests, for use by global user exit programs at exit points XICEREQ and XICEREQC.  
 On entry to the XICEREQ and XICEREQC User Exits, the EXEC parameter list is pointed to by UEPCLPS.  
 The EXEC parameter list for Interval Control consists of thirty one addresses.  
 The thirty one addresses are defined by IC\_ADDR0 to IC\_ADDR1E.  
 This DSECT defines IC\_ADDR0 to IC\_ADDR1E and the areas that they point to.  
 On entry to the XICEREQ and XICEREQC User Exits, the copy of EIBRCODE is pointed to by UEPRCODE, the copy of EIBRESP is pointed to by UEPRESP and the copy of EIBRESP2 is pointed to by UEPRESP2.  
 This DSECT also contains equates for values of EIBRCODE, EIBRESP and EIBRESP2 used by Interval Control.

LIFETIME = Lifetime of the IC command request

STORAGE CLASS = As the storage being mapped is the translated source in the user's application program, the storage may be either above or below the line.

LOCATION = (1) EXEC Parameter List is addressed by UEPCLPS.  
 (2) Fields copied from the EIB are addressed by UEPRCODE, UEPRESP and UEPRESP2.  
 (3) The token for use in communicating between XICEREQ and XICEREQC is addressed by UEPICCTOK.

INNER CONTROL BLOCKS =

IC\_ADDR\_LIST declares the EXEC addresses.  
 IC\_EID defines the EID pointed to by IC\_ADDR0.

NOTES :

DEPENDENCIES = S/370 ESA  
 RESTRICTIONS = None  
 MODULE TYPE = Control Block definition

EXTERNAL REFERENCES =

None.  
 DATA AREAS =  
 None.

CONTROL BLOCKS =

None.

GLOBAL VARIABLES (Macro pass) =

None.

The command parameter list is a list of addresses which reference the various elements of the EXEC CICS command. The addresses are only valid if the element is applicable to this command. The existence bits in the EID component (IC\_BITS1) specify those addresses that are valid, and the flagword bits (IC\_EIDOPT5 - IC\_EIDOPT8) specify the keywords that were given in the EXEC CICS command.

#  
 #  
 #

Offset Hex	Type	Len	Name (Dim)	Description
<b>APAR PQ26514</b>				
has made many changes to this Data Area.				
(0)	STRUCTURE	124	IC_ADDR_LIST	Addresses of...
(0)	ADDRESS	4	IC_ADDR0	the EID
# (4)	ADDRESS	4	IC_ADDR1	TIME or INTERVAL value (DELAY, POST or START) SET address (RETRIEVE) REQID value (CANCEL) ABSTIME value (FORMATIME or ASKTIME)
# (8)	ADDRESS	4	IC_ADDR2	REQID value (DELAY, POST or START) LENGTH value (RETRIEVE) YYDDDD value (FORMATIME)
# (C)	ADDRESS	4	IC_ADDR3	TRANSID value (START,CANCEL) SET address (POST) YYMMDD value (FORMATIME)
# (10)	ADDRESS	4	IC_ADDR4	FROM address (START) YYDDMM value (FORMATIME)
# (14)	ADDRESS	4	IC_ADDR5	LENGTH value (START) DDDMMY value (FORMATIME)
# (18)	ADDRESS	4	IC_ADDR6	TERMIN value (START) MMDDYY value (FORMATIME)
# (1C)	ADDRESS	4	IC_ADDR7	SYSID value (START,CANCEL) DATE value (FORMATIME)
# (20)	ADDRESS	4	IC_ADDR8	RTRANSID value (START or RETRIEVE) DATEFORM value (FORMATIME)
# (24)	ADDRESS	4	IC_ADDR9	RTERMIN value (START or RETRIEVE) DATESEP value (FORMATIME)
# (28)	ADDRESS	4	IC_ADDR10	QUEUE value (START or RETRIEVE) DAYCOUNT value (FORMATIME)
# (2C)	ADDRESS	4	IC_ADDR11	HOURS value (DELAY, POST or START) DAYOFWEEK value (FORMATIME)
# (30)	ADDRESS	4	IC_ADDR12	MINUTES value (DELAY, POST or START) DAYOFMONTH value (FORMATIME)
# (34)	ADDRESS	4	IC_ADDR13	SECONDS value (DELAY, POST or START) MONTHOFYEAR value (FORMATIME)
# (38)	ADDRESS	4	IC_ADDR14	USERID value (START) YEAR value (FORMATIME)
# (3C)	ADDRESS	4	IC_ADDR15	System netname TIME value (FORMATIME)
# (40)	ADDRESS	4	IC_ADDR16	BREXIT value (START) TIMESEP value (FORMATIME)
# (44)	ADDRESS	4	IC_ADDR17	YYYYDDDD value (FORMATIME)
# (48)	ADDRESS	4	IC_ADDR18	YYYYMMDD value (FORMATIME)
# (4C)	ADDRESS	4	IC_ADDR19	YYYYDDMM value (FORMATIME)
# (50)	ADDRESS	4	IC_ADDR20	DDMMYYYY value (FORMATIME)
# (54)	ADDRESS	4	IC_ADDR21	MMDDYYYY value (FORMATIME)
# (58)	ADDRESS	4	IC_ADDR22	FULLDATE value (FORMATIME)
# (5C)	ADDRESS	4	* (6)	Addresses 23-28
# (74)	ADDRESS	4	IC_ADDR1D	BRDATA address (START)
# (78)	ADDRESS	4	IC_ADDR1E	BRDATALENGTH value (START)

IC\_EID (addressed by IC\_ADDR0) gives the request type, and uses bits to identify those keywords that are valid and/or have been explicitly stated in the EXEC CICS command being processed.  
 Note: Equates for IC\_GROUP, IC\_FUNCT, EIBRCODE, EIBRESP and EIBRESP2 values are defined at the end of this data structure.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	9	IC_EID	
# (0)	CHARACTER	1	IC_GROUP	X'10' = Interval Control X'4A' = ASKTIME or FORMATTIME
# (1)	CHARACTER	1	IC_FUNCT	If IC_GROUP = X'10' X'02' = Asktime X'04' = Delay X'06' = Post X'08' = Start X'0A' = Retrieve X'0C' = Cancel If IC_GROUP = X'4A' X'02' = ASKTIME X'04' = FORMATTIME

The existence bits specify the parameters that are valid for this command.

For example, IC\_EXIST7 set on indicates that IC\_ADDR7 is valid, meaning that it addresses a SYSID value.

IC\_ADDR0 is always valid and has no existence bit.

(2)	BITSTRING	1	IC_BITS1
-----	-----------	---	----------

IC\_EXIST1 is set if IC\_ADDR1 is valid.

IC\_EXIST1 is always set on DELAY, POST, RETRIEVE and CANCEL commands, or on a CANCEL command which specifies REQID.

IC\_EXIST1 may only be modified by a user exit program invoked for a CANCEL command.

1... ..	IC_EXIST1
1... ..	IC_TIME_INTERVAL_V
1... ..	IC_DELAY_
	TIME_INTERVAL_V
1... ..	IC_POST_
	TIME_INTERVAL_V
1... ..	IC_START_
	TIME_INTERVAL_V
1... ..	IC_RETRIEVE_
	SET_INTQ_V
1... ..	IC_CANCEL_
	REQID_V

IC\_EXIST2 is set if IC\_ADDR2 is valid.

IC\_EXIST2 is always set on RETRIEVE commands, or if REQID is specified on a DELAY, POST or START command.

IC\_EXIST2 may only be modified by a user exit program invoked for a DELAY, POST or START command.

.1.. ....	IC_EXIST2
.1.. ....	IC_REQID_V
.1.. ....	IC_DELAY_REQID_V
.1.. ....	IC_POST_REQID_V
.1.. ....	IC_START_REQID_V

Offset Hex	Type	Len	Name (Dim)	Description
	.1.. ....		IC_RETRIEVE_LENGTH_V	
<p>IC_EXIST3 is set if IC_ADDR3 is valid.                      IC_EXIST3 is always set on START and POST commands, or if TRANSID is specified on a CANCEL command.                      IC_EXIST3 may only be modified by a user exit program invoked for a CANCEL command.</p>				
	..1. ....		IC_EXIST3	
	..1. ....		IC_TRANSID_V	
	..1. ....		IC_CANCEL_TRANSID_V	
	..1. ....		IC_START_TRANSID_V	
	..1. ....		IC_POST_SET_V	
<p>IC_EXIST4 is set if IC_ADDR4 is valid.                      IC_EXIST4 is set if a START command specifies FROM.                      IC_EXIST4 may only be modified by a user exit program invoked for a START command.</p>				
	...1 ....		IC_EXIST4	
	...1 ....		IC_START_FROM_V	
<p>IC_EXIST5 is set if IC_ADDR5 is valid.                      IC_EXIST5 is set if a START command specifies LENGTH                      IC_EXIST5 may only be modified by a user exit program invoked for a START command.</p>				
	.... 1..		IC_EXIST5	
	.... 1..		IC_START_LENGTH_V	
<p>IC_EXIST6 is set if IC_ADDR6 is valid.                      IC_EXIST6 is set if a START command specifies TERMID                      IC_EXIST6 may only be modified by a user exit program invoked for a START command.</p>				
	.... .1..		IC_EXIST6	
	.... .1..		IC_START_TERMID_V	
<p>IC_EXIST7 is set if IC_ADDR7 is valid.                      IC_EXIST7 is set if a START or CANCEL command specifies SYSID.                      IC_EXIST7 may only be modified by a user exit program invoked for a START or CANCEL command.</p>				
	.... .1.		IC_EXIST7	
	.... .1.		IC_SYSID_V	
	.... .1.		IC_CANCEL_SYSID_V	
	.... .1.		IC_START_SYSID_V	
<p>IC_EXIST8 is set if IC_ADDR8 is valid.                      IC_EXIST8 is set if a START or RETRIEVE command specifies RTRANSID.                      IC_EXIST8 may only be modified by a user exit program invoked for a START or RETRIEVE command.</p>				
	.... ...1		IC_EXIST8	
	.... ...1		IC_RTRANSID_V	
	.... ...1		IC_START_RTRANSID_V	
	.... ...1		IC_RETRIEVE_RTRANSID_V	
<p>IC_BITS2 defines existence bits for keywords containing values.</p>				
(3)	BITSTRING	1	IC_BITS2	
<p>IC_EXIST9 is set if IC_ADDR9 is valid.                      IC_EXIST9 is set if a START or RETRIEVE command specifies RTERMID.                      IC_EXIST9 is set if a FORMATTIME command specifies DATESEP.                      IC_EXIST9 may only be modified by a user exit program invoked for a START or RETRIEVE command.</p>				
	1... ....		IC_EXIST9	
	1... ....		IC_RTERMID_V	
	1... ....		IC_START_RTERMID_V	
	1... ....		IC_RETRIEVE_RTERMID_V	
#	1... ....		IC_FORMATTIME_DATESEP_V	
<p>IC_EXISTA is set if IC_ADDRA is valid.                      IC_EXISTA is set if a START or RETRIEVE command specifies QUEUE.                      IC_EXISTA may only be modified by a user exit program invoked for a START or RETRIEVE command.</p>				
	.1.. ....		IC_EXISTA	
	.1.. ....		IC_QUEUE_V	
	.1.. ....		IC_START_QUEUE_V	
	.1.. ....		IC_RETRIEVE_QUEUE_V	

Offset Hex	Type	Len	Name (Dim)	Description
IC_EXISTB is set if IC_ADDRB is valid. IC_EXISTB is set if a DELAY, POST or START command specifies HOURS. IC_EXISTB may only be modified by a user exit program invoked for a DELAY, POST or START command.				
..1. ....			IC_EXISTB	
..1. ....			IC_HOURS_V	
..1. ....			IC_DELAY_HOURS_V	
..1. ....			IC_POST_HOURS_V	
..1. ....			IC_START_HOURS_V	
IC_EXISTC is set if IC_ADDRC is valid. IC_EXISTC is set if a DELAY, POST or START command specifies MINUTES. IC_EXISTC may only be modified by a user exit program invoked for a DELAY, POST or START command.				
...1 ....			IC_EXISTC	
...1 ....			IC_MINUTES_V	
...1 ....			IC_DELAY_MINUTES_V	
...1 ....			IC_POST_MINUTES_V	
...1 ....			IC_START_MINUTES_V	
IC_EXISTD is set if IC_ADDRD is valid. IC_EXISTD is set if a DELAY, POST or START command specifies SECONDS. IC_EXISTD may only be modified by a user exit program invoked for a DELAY, POST or START command.				
.... 1..			IC_EXISTD	
.... 1..			IC_SECONDS_V	
.... 1..			IC_DELAY_SECONDS_V	
.... 1..			IC_POST_SECONDS_V	
.... 1..			IC_START_SECONDS_V	
IC_EXISTE is set if IC_ADDRE is valid. IC_EXISTE is set if a START command specifies a USERID				
.... .1.			IC_EXISTE	
.... .1.			IC_START_USERID_V	
IC_EXISTF is set if IC_ADDRF is valid IC_EXISTF is set if a start is for it's PF				
.... .1.			IC_EXISTF	PF starts
.... .1.			IC_START_SYSNET_V	
IC_EXIST10 is set if IC_ADDR10 is valid IC_EXIST10 is set if START specifies BREXIT with an argument IC_EXIST10 is set if a FORMATTIME command specifies TIMESEP.				
.... ...1			IC_EXIST10	BREXIT(value)
.... ...1			IC_START_BREXIT_V	
.... ...1			IC_FORMATTIME_TIMSEP_V	
EIDOPT4 Any changes made by the exit are ignored				
(4)	BITSTRING	1	IC_EIDOPT4	
	1... ....		IC_SYSEIB	Program uses SYSEIB
	.1. ....		IC_NOEDF	NOEDF specified
	.1. ....		IC_NOHANDLE	NOHANDLE specified
	...1 111.		*	Language identifying bits
	.... ...1		*	Reserved
EIDOPT5 - EIDOPT8 The next 4 bytes are the flagword bits that identify the keywords that were specified on the EXEC CICS command. Some bits have more than one meaning, depending on the command function being processed, and thus have multiple definitions. Do not test these bits unless you know that the keywords are valid for the specific command being processed.				
EIDOPT5				
(5)	BITSTRING	1	IC_EIDOPT5	
#	1... ....		IC_FORMATTIME_ABSTIME_X	ABSTIME specified on a FORMATTIME command.
#	1... ....		IC_ASKTIME_ABSTIME_X	ABSTIME specified on an ASKTIME command.
#	.1. ....		IC_FORMATTIME_YDDD_X	YDDD specified on a FORMATTIME command.
#	.1. ....		IC_FORMATTIME_YMMDD_X	YYMMDD specified on a FORMATTIME command.
#	...1 ....		IC_FORMATTIME_YDDMM_X	YYDDMM specified on a FORMATTIME command.
#	.... 1..		IC_FORMATTIME_DDMMYY_X	DDMMYY specified on a FORMATTIME command.
#	.... .1.		IC_FORMATTIME_MMDDYY_X	MMDDYY specified on a FORMATTIME command.
#	.... ...1		IC_FORMATTIME_DATE_X	DATE specified on a FORMATTIME command.

Offset Hex	Type	Len	Name (Dim)	Description
	.... ...1		IC_RETRIEVE_SET_X	SET (not INTO) specified on a RETRIEVE command. This bit may NOT be modified by a user exit.
#	.... ...1		IC_START_ATTACH_X	ATTACH specified on a START command. This bit may NOT be modified by a user exit.
#	.... ...1		IC_FORMATTIME_DATEFORM_X	DATEFORM specified on a FORMATTIME command.
<hr/>				
EIDOPT6				
(6)	BITSTRING	1	IC_EIDOPT6	
	1... ....		IC_START_ROUTABLE	
#	1... ....		IC_FORMATTIME_DATESEP_X	DATESEP specified on a FORMATTIME command.
#	.1.. ....		IC_FORMATTIME_DAYCOUNT_X	DAYCOUNT specified on a FORMATTIME command.
#	.1.. ....		IC_FORMATTIME_DAYOFWEEK_X	DAYOFWEEK specified on a FORMATTIME command.
#	...1 ....		IC_START_FMH_X	FMH specified on a START command.
#	...1 ....		IC_FORMATTIME_DAYOFMONTH_X	DAYOFMONTH specified on a FORMATTIME command.
#	.... 1..		IC_FORMATTIME_MONTHOFYEAR_X	MONTHOFYEAR specified on a FORMATTIME command.
#	.... .1..		IC_FORMATTIME_YEAR_X	YEAR specified on a FORMATTIME command.
#	.... .1..		IC_START_PROTECT_X	PROTECT specified on a START command.
#	.... .1..		IC_FORMATTIME_TIME_X	TIME specified on a FORMATTIME command.
#	.... ...1		IC_START_NOCHECK_X	NOCHECK specified on a START command.
#	.... .1..		IC_FORMATTIME_TIMESEP_X	TIMESEP specified on a FORMATTIME command.
#				
<hr/>				
EIDOPT7				
(7)	BITSTRING	1	IC_EIDOPT7	
#	1... ....		IC_FORMATTIME_YYYYDDD_X	YYYYDDD specified on a FORMATTIME command.
#	.1.. ....		IC_FORMATTIME_YYYYMMDD_X	YYYYMMDD specified on a FORMATTIME command.
#	.1.. ....		IC_START_HEADER_X	RTRANSID, RTERMIN, FMH and/or QUEUE specified on a START command.
#	.1.. ....		IC_FORMATTIME_YYYYDDMM_X	YYYYDDMM specified on a FORMATTIME command.
#	...1 ....		IC_START_DATA_X	FROM, RTRANSID, RTERMIN, FMH and/or QUEUE specified on a START command.
#	...1 ....		IC_FORMATTIME_DDMMYYYY_X	DDMMYYYY specified on a FORMATTIME command.
#	.... 1..		IC_DELAY_TIME_X	TIME (not INTERVAL) specified on a DELAY command.
#	.... 1..		IC_POST_TIME_X	TIME (not INTERVAL) specified on a POST command.
#	.... 1..		IC_START_TIME_X	TIME (not INTERVAL) specified on a START command.
#	.... 1..		IC_RETRIEVE_WAIT_X	WAIT specified on a RETRIEVE command.
#	.... 1..		IC_FORMATTIME_MMDDYYYY_X	MMDDYYYY specified on a FORMATTIME command.
#	.... .1..		IC_CANCEL_REQID_X	REQID specified on a CANCEL command.
#	.... .1..		IC_DELAY_REQID_X	REQID specified on a DELAY command.
#	.... .1..		IC_POST_REQID_X	REQID specified on a POST command.
#	.... .1..		IC_START_REQID_X	REQID specified on a START command.
#	.... .1..		IC_FORMATTIME_FULLDATE_X	FULLDATE specified on a FORMATTIME command.
#	.... .1..		*	Reserved
#	.... ...1		IC_START_TERMID_X	TERMID specified on a START command.
<hr/>				
EIDOPT8				
(8)	BITSTRING	1	IC_EIDOPT8	
	1... ....		IC_FORAFTER_X	Command specifies FOR or AFTER
	1... ....		IC_DELAY_FOR_X	FOR (not UNTIL) specified on a DELAY command.
	1... ....		IC_POST_AFTER_X	AFTER (not AT) specified on a DELAY command.
	1... ....		IC_START_AFTER_X	AFTER (not AT) specified on a START command.
	.1.. ....		IC_ATUNTIL_X	Command specifies AT or UNTIL
	.1.. ....		IC_DELAY_UNTIL_X	UNTIL (not FOR) specified on a DELAY command.
	.1.. ....		IC_POST_AT_X	AT (not AFTER) specified on a POST command.
	.1.. ....		IC_START_AT_X	AT (not AFTER) specified on a START command.
	.1.. ....		*	Reserved
	...1 ....		IC_START_BREXIT_X	START BREXIT
	.... 1..		IC_START_BRDATA_X	... with BRDATA
	.... .1..		IC_START_BRDATALENGTH_X	... and BRDATALENGTH *
	.... ...11		*	

The following definitions are for the rest of the arguments in the EXEC parameter list, addressed by IC\_ADDR1 - IC\_ADDRE in IC\_ADDR\_LIST.

IC\_DATA1 - Addressed by IC\_ADDR1

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	IC_DATA1	
(0)	CHARACTER	8	*	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_INTERVAL	Value of INTERVAL
(0)	CHARACTER	4	IC_START_INTERVAL	
(0)	CHARACTER	4	IC_DELAY_INTERVAL	
(0)	CHARACTER	4	IC_POST_INTERVAL	
(0)	CHARACTER	4	IC_TIME	Value of TIME
(0)	CHARACTER	4	IC_START_TIME	
(0)	CHARACTER	4	IC_DELAY_TIME	
(0)	CHARACTER	4	IC_POST_TIME	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	IC_CANCEL_REQID	Value of REQID on
(0)	CHARACTER	8	*	a CANCEL command.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_RETRIEVE_INT0	Value of DATA on a
(0)	CHARACTER	*	*	RETRIEVE INTO cmd

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_RETRIEVE_SET	Pointer for SET on
(0)	ADDRESS	4	*	a RETRIEVE command
# (0)	CHARACTER	8	IC_FORMATTIME_ABSTIME	
# (0)	CHARACTER	8	IC_ASKTIME_ABSTIME	

IC\_DATA2 - Addressed by IC\_ADDR2

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	IC_DATA2	
(0)	CHARACTER	8	*	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	IC_REQID	Value of REQID
(0)	CHARACTER	8	IC_DELAY_REQID	Value of REQID on a DELAY cmd
(0)	CHARACTER	8	IC_POST_REQID	Value of REQID on a POST cmd
(0)	CHARACTER	8	IC_START_REQID	Value of REQID on a START cmd

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	2	IC_RETRIEVE_LENGTH	Value of LENGTH on a RETRIEVE cmd
(0)	HALFWORD	2	*	
# (0)	CHARACTER	*	IC_FORMATTIME_YYDDD	

WARNING For requests that specify INTO do not change the value of IC\_RETRIEVE\_LENGTH to a value greater than that specified by the application. To do so causes a storage overlay in the application.

IC\_DATA3 - Addressed by IC\_ADDR3

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_DATA3	
(0)	ADDRESS	4	IC_POST_SET	SET address on a POST command
(0)	CHARACTER	4	IC_TRANSID	Value of TRANSID
(0)	CHARACTER	4	IC_CANCEL_TRANSID	Value of TRANSID on a CANCEL cmd
(0)	CHARACTER	4	IC_START_TRANSID	Value of TRANSID on a START cmd
# (0)	CHARACTER	*	IC_FORMATTIME_YYMMDD	

IC\_DATA4 - Addressed by IC\_ADDR4

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_DATA4	
(0)	CHARACTER	*	IC_START_FROM	Data on a START command
# (0)	CHARACTER	*	IC_FORMATTIME_YYDDMM	

IC\_DATA5 - Addressed by IC\_ADDR5

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	2	IC_DATA5	
(0)	HALFWORD	2	IC_START_LENGTH	Length of data on a START cmd
# (0)	CHARACTER	*	IC_FORMATTIME_DDMMYY	

IC\_DATA6 - Addressed by IC\_ADDR6

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_DATA6	
(0)	CHARACTER	4	IC_START_TERMID	Value of TERMID on a START cmd
# (0)	CHARACTER	*	IC_FORMATTIME_MMDDYY	

IC\_DATA7 - Addressed by IC\_ADDR7

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_DATA7	
(0)	CHARACTER	4	IC_SYSID	Value of SYSID
(0)	CHARACTER	4	IC_START_SYSID	Value of SYSID on a START cmd
(0)	CHARACTER	4	IC_CANCEL_SYSID	Value of SYSID on a CANCEL cmd
# (0)	CHARACTER	*	IC_FORMATTIME_DATE	

IC\_DATA8 - Addressed by IC\_ADDR8

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_DATA8	
(0)	CHARACTER	4	IC_RTRANSID	Value of RTRANSID
(0)	CHARACTER	4	IC_START_RTRANSID	Value of RTRANSID on a START cmd
(0)	CHARACTER	4	IC_RETRIEVE_RTRANSID	Value of RTRANSID on a RETRIEVE cmd
# (0)	CHARACTER	6	IC_FORMATTIME_DATEFORM	

IC\_DATA9 - Addressed by IC\_ADDR9



Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_DATA9	
(0)	CHARACTER	4	IC_RTERMID	Value of RTERMID
(0)	CHARACTER	4	IC_START_RTERMID	Value of RTERMID on a START cmd
(0)	CHARACTER	4	IC_RETRIEVE_RTERMID	Value of RTERMID on a RETRIEVE cmd
# (0)	CHARACTER	1	IC_FORMATTIME_DATESEP	

IC\_DATA10 - Addressed by IC\_ADDRA

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	IC_DATA10	
(0)	CHARACTER	8	IC_QUEUE	Value of QUEUE
(0)	CHARACTER	8	IC_START_QUEUE	Value of QUEUE on a START cmd
(0)	CHARACTER	8	IC_RETRIEVE_QUEUE	Value of QUEUE on a RETRIEVE cmd
# (0)	FULLWORD	4	IC_FORMATTIME_DAYCOUNT	

IC\_DATA11 - Addressed by IC\_ADDRB

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_DATA11	
(0)	CHARACTER	4	IC_HOURS	Value of HOURS
(0)	CHARACTER	4	IC_DELAY_HOURS	Value of HOURS on a DELAY cmd
(0)	CHARACTER	4	IC_POST_HOURS	Value of HOURS on a POST cmd
(0)	CHARACTER	4	IC_START_HOURS	Value of HOURS on a START cmd
# (0)	FULLWORD	4	IC_FORMATTIME_DAYOFWEEK	

IC\_DATA12 - Addressed by IC\_ADDRC

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_DATA12	
(0)	CHARACTER	4	IC_MINUTES	Value of MINUTES
(0)	CHARACTER	4	IC_DELAY_MINUTES	Value of MINUTES on a DELAY cmd
(0)	CHARACTER	4	IC_POST_MINUTES	Value of MINUTES on a POST cmd
(0)	CHARACTER	4	IC_START_MINUTES	Value of MINUTES on a START cmd
# (0)	FULLWORD	4	IC_FORMATTIME_DAYOFMONTH	

IC\_DATA13 - Addressed by IC\_ADDRD

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_DATA13	
(0)	CHARACTER	4	IC_SECONDS	Value of SECONDS
(0)	CHARACTER	4	IC_DELAY_SECONDS	Value of SECONDS on a DELAY cmd
(0)	CHARACTER	4	IC_POST_SECONDS	Value of SECONDS on a POST cmd
(0)	CHARACTER	4	IC_START_SECONDS	Value of SECONDS on a START cmd
# (0)	FULLWORD	4	IC_FORMATTIME_MONTHOFYEAR	

IC\_DATA14 - Addressed by IC\_ADDRE

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	IC_DATA14	
(0)	CHARACTER	8	IC_START_USERID	Value of USERID on START command
# (0)	FULLWORD	4	IC_FORMATTIME_YEAR	

IC\_DATA15 - Addressed by IC\_ADDRF

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	IC_DATA15	
(0)	CHARACTER	8	IC_START_SYSNET	Value of SYSNET
(0)	FULLWORD	*	IC_FORMATTIME_TIME	

IC\_DATA16 - Addressed by IC\_ADDR10

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	IC_DATA16	
(0)	CHARACTER	8	IC_START_BREXIT	Value BREXIT
(0)	CHARACTER	1	IC_FORMATTIME_TIMESEP	

IC\_DATA17 - Addressed by IC\_ADDR11

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_DATA17	
(0)	FULLWORD	*	IC_FORMATTIME_YYYYDDD	

IC\_DATA18 - Addressed by IC\_ADDR12

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_DATA18	
(0)	FULLWORD	*	IC_FORMATTIME_YYYYMMDD	

IC\_DATA19 - Addressed by IC\_ADDR13

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_DATA19	
(0)	FULLWORD	*	IC_FORMATTIME_YYYYDDMM	

IC\_DATA20 - Addressed by IC\_ADDR14

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_DATA20	
(0)	FULLWORD	*	IC_FORMATTIME_DDMYYYYY	

IC\_DATA21 - Addressed by IC\_ADDR15

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_DATA21	
(0)	FULLWORD	*	IC_FORMATTIME_MMDDYYYY	

# IC\_DATA22 - Addressed by IC\_ADDR16

#	Offset Hex	Type	Len	Name (Dim)	Description
#	(0)	STRUCTURE	*	IC_DATA22	
#	(0)	FULLWORD	*	IC_FORMATTIME_FULDATE	

IC\_DATA29 - Addressed by IC\_ADDR1D

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_DATA29	
(0)	CHARACTER	*	IC_START_BRDATA	Address BRDATA

IC\_DATA30 - Addressed by IC\_ADDR1E

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_DATA30	
(0)	FULLWORD	4	IC_START_BRDATALENGTH	Value BRDATALENGTH

## Constants

Len	Type	Value	Name	Description	
1	HEX	10	IC_INTERVAL_GROUP		
#	1	HEX	4A	IC_ABSTIME_GROUP	

Equates for IC\_ FUNCT values.

#	Len	Type	Value	Name	Description
1	1	HEX	02	IC_ASKTIME	Asktime
1	1	HEX	04	IC_FORMATTIME	Formattime
1	1	HEX	04	IC_DELAY	Delay
1	1	HEX	06	IC_POST	Post
1	1	HEX	08	IC_START	Start
1	1	HEX	0A	IC_RETRIEVE	Retrieve
1	1	HEX	0C	IC_CANCEL	Cancel

Start of General Use Programming Interface.

Equates for EIBRCODE values used by Interval Control.

Len	Type	Value	Name	Description
1	HEX	00	IC_OK_EIBRCODE	OK
1	HEX	01	IC_ENDDATA_EIBRCODE	ENDDATA
1	HEX	04	IC_IOERR_EIBRCODE	IOERR
1	HEX	11	IC_TRANSIDERR_EIBRCODE	TRANSIDERR
1	HEX	1B	IC_PGMIDERR_EIBRCODE	PGMIDERR
1	HEX	20	IC_EXPIRED_EIBRCODE	EXPIRED
1	HEX	81	IC_NOTFND_EIBRCODE	NOTFND
1	HEX	D0	IC_SYSIDERR_EIBRCODE	SYSIDERR
1	HEX	D1	IC_ISCINVREQ_EIBRCODE	ISCINVREQ
1	HEX	D6	IC_NOTAUTH_EIBRCODE	NOTAUTH
1	HEX	E1	IC_LENGERR_EIBRCODE	LENGERR
1	HEX	E9	IC_ENVDEFERR_EIBRCODE	ENVDEFERR
1	HEX	D8	IC_USERIDERR_EIBRCODE	USERIDERR
1	HEX	FF	IC_INVREQ_EIBRCODE	INVREQ

Equates for EIBRESP values used by Interval Control.

Len	Type	Value	Name	Description
1	DECIMAL	0	IC_OK_EIBRESP	OK
1	DECIMAL	13	IC_NOTFND_EIBRESP	NOTFND
1	DECIMAL	16	IC_INVREQ_EIBRESP	INVREQ
1	DECIMAL	17	IC_IOERR_EIBRESP	IOERR
1	DECIMAL	22	IC_LENGERR_EIBRESP	
1	DECIMAL	27	IC_PGMIDERR_EIBRESP	PGMIDERR
1	DECIMAL	28	IC_TRANSIDERR_EIBRESP	TRANSIDERR
1	DECIMAL	29	IC_ENDDATA_EIBRESP	ENDDATA
1	DECIMAL	31	IC_EXPIRED_EIBRESP	EXPIRED
1	DECIMAL	53	IC_SYSIDERR_EIBRESP	SYSIDERR
1	DECIMAL	54	IC_ISCINVREQ_EIBRESP	ISCINVREQ
1	DECIMAL	56	IC_ENVDEFERR_EIBRESP	ENVDEFERR
1	DECIMAL	69	IC_USERIDERR_EIBRESP	USERIDERR

Len	Type	Value	Name	Description
1	DECIMAL	70	IC_NOTAUTH_EIBRESP	NOTAUTH
Equates for EIBRESP2 values used by Interval Control.				
1	DECIMAL	0	IC_OK_EIBRESP2	OK
1	DECIMAL	1	IC_ROUTER_REJECTED_EIBRESP2	Router rejected start request
1	DECIMAL	4	IC_INVHRS_EIBRESP2	Hours out of range
1	DECIMAL	5	IC_INVMINS_EIBRESP2	Minutes out of range
1	DECIMAL	6	IC_INVSECS_EIBRESP2	Seconds out of range
1	DECIMAL	7	IC_NOTAUTH_EIBRESP2	Request not authorised
1	DECIMAL	8	IC_USERID_NOT_DEFINED_EIBRESP2	Userid not known
1	DECIMAL	9	IC_SURROGATE_FAILURE_EIBRESP2	Surrogate check failed
1	DECIMAL	10	IC_USERID_NOT_DETERMINED_EIBRESP2	CICS is unable to determine whether the userid exists
1	DECIMAL	18	IC_SECURITY_INACTIVE_EIBRESP2	SEC=NO specified on SIT
1	DECIMAL	11	IC_REMOTE_ATTACH_EIBRESP2	tried to ship ATTACH
1	DECIMAL	12	IC_ATTACH_FAILED_EIBRESP2	ATTACH failed
1	DECIMAL	13	IC_NO_BREXIT_EIBRESP2	No brexit specified
1	DECIMAL	14	IC_NOT_AUTH_BREXIT_EIBRESP2	Not auth for brexit
1	DECIMAL	15	IC_TRANSID_NOT_FOUND_EIBRESP2	Transid not found
1	DECIMAL	16	IC_TRANSID_DISABLED_EIBRESP2	Transid disabled
1	DECIMAL	17	IC_TRANSID_SHUTDOWN_EIBRESP2	Not enabled for shutdown
1	DECIMAL	18	IC_TRANSID_SYSTEM_EIBRESP2	System transid *-*-*-*-*-*-*-*-*-*-*-* End of General Use *-* *-* Programming Interface *-* *-*-*-*-*-*-*-*-*-*-*

## IMSDS Function request shipping message

```

CONTROL BLOCK NAME = DFHIMSDS
DESCRIPTIVE NAME = CICS Function Request Shipping Message
    Insert Area.
FUNCTION =
    Description of message insert information chained off
    ISC TCTTE during session failure while in doubt.
LIFETIME =
STORAGE CLASS =
LOCATION =
INNER CONTROL BLOCKS =
NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS =
    MODULE TYPE = Control block definition
EXTERNAL REFERENCES =
DATA AREAS =
CONTROL BLOCKS =
GLOBAL VARIABLES (Macro pass) =
    
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHIMSDS	
(0)	FULLWORD	4		SAA (CLASS=CONTROL)
(4)	ADDRESS	4	(10)	Parm address list for MGP
(2C)	BITSTRING	6	ISMDESC	Message descriptor for MGP
(32)	ADDRESS	2		Reserved
(2E)	HALFWORD	2	ISMMSGNO	Message number
(34)	CHARACTER	6	ISMISTM	LL & ISC terminal
(3A)	CHARACTER	6	ISMRSYS	LL & remote system id
(40)	CHARACTER	6	ISMTRAN	LL & transaction id
(46)	CHARACTER	6	ISMOPTM	LL & operator's terminal
(4C)	CHARACTER	5	ISMOPID	LL & operator id
(51)	CHARACTER	7	ISMTKNO	LL & task number (packed)
(58)	CHARACTER	11	ISMTIME	LL & time hh:mm:sss
(63)	CHARACTER	4	ISMMODID	LL & module id
(67)	CHARACTER	41	ISMUOWID (0)	Full formatted UOW id def
(67)	HALFWORD	2	ISMUWLEN	UOW length excluding this field
(69)	CHARACTER	17	ISMUWLUN	LU name (NB variable length)

Offset Hex	Type	Len	Name (Dim)	Description
NB The offsets of the following fields will be different if the length of the variable length field ISMUWLUN is less than 17.				
(7A)	CHARACTER	3	ISMUWC1	A constant
(7D)	CHARACTER		ISMUWTKN	Token
(89)	CHARACTER	2	ISMUWC2	A constant
(8B)	CHARACTER	5	ISMUWSEQ	Sequence number
	1..1 ....		ISMEND	***
	.1.1 11..		ISMKPL	"ISMEND-***" Length to be keypointed
(34)	CHARACTER	1	ISMKP	Bytes to be keypointed
	1..1 ....		ISMLEN	"ISMEND-DFHIMSDS" Dsect length

## IRC Interregion control blocks

CONTROL BLOCK NAME = DFHIRSPS  
 DESCRIPTIVE NAME = CICS Interregion Control Blocks  
 FUNCTION =  
 Descriptions of all inter-region communication control blocks which are visible to the subsystem level of inter-region communication.  
 The control blocks defined are:  
 SLCB Subsystem Logon Control Block  
 SCCB Subsystem Connection Control Block  
 SCACB(E) Subsystem Connection Address Control Block

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = N/A  
 MODULE TYPE = Control block definition  
 Subsystem Logon Control Block  
 This DSECT describes the format of the SLCB which is the control block that contains the information relevant to the logon session which is of interest to the subsystem level of inter-region communication.  
 First define the format of the fields in the SLCB.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	SLCB	
(0)	FULLWORD	4	SLCBLECB	Logon (Master) ECB
(4)	FULLWORD	4	SLCBSCAC	SCACB Address
(8)	CHARACTER	4	SLCBSTTS	Status bytes
(8)	CHARACTER	1	SLCBSTS1	Status byte 1
FLAGS IN STATUS BYTE 1: LCBSTTS1 OR SLCBSTS1				
	1... ....		LCBFAM31	'80'X User of LCB is AMODE(31)
	.1.. ....		LCBFQUIP	'40'X Normal quiesce in progress
	..1. ....		LCBFQUIM	'20'X Immediate quiesce
	...1 ....		LCBFSPST	'10'X System Post
	.... 1...		LCBFBTCH	'08'X Batching of opsys
	.... .1..		LCBFBTCP	'04'X Batch=Postexit
	.... .1.		LCFBEXL	'02'X Exit Loaded
	.... ...1		LCBFUNIQ	'01'X LCB corresponds to a UNIQUE user
(9)	CHARACTER	1	SLCBSTS2	Status byte 2
FLAGS IN STATUS BYTE 2: LCBSTTS2 OR SLCBSTS2				
	1... ....		LCBFNWCN	'80'X New connector: scan ECBs
	.1.. ....		LCBFQUCM	'40'X Quiesce complete
	..1. ....		LCBFSWFS	'20'X Switch First received
	...1 ....		LCBFDSCR	'10'X Disconnect received
	.... 1...		LCBFJOIN	'08'X IXCJOIN may have been done@LAA
	.... .1..		LCBFLVIP	'04'X IXCLEAVE in flight
	.... ..11		*	Reserved
(A)	BITSTRING	1	SLCBSTS3	Status byte 3
(B)	CHARACTER	1	SLCBSTS4	Status byte 4
FLAGS IN STATUS BYTE 4: LCBSTTS4 OR SLCBSTS2				
	1... ....		LCBSRBSE	'80'X Serialization with work queue processor
	.111 1111		*	Reserved
(C)	ADDRESS	4	SLCBLCB	Address of LCB

Subsystem Connection Control Block  
This DSECT defines the SCCB, the control block which contains the information about a particular connection which can be accessed by the subsystem level of inter-region communication function.  
First define the format of the fields in the SCCB.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	96	SCCB	
(0)	FULLWORD	4	SCCBDECB	Dependent ECB
(4)	FULLWORD	4	SCCBTHNM	Thread number
(8)	FULLWORD	4	SCCBTHID	Thread identification
(C)	CHARACTER	4	SCCBSTAT	Status bytes
(C)	CHARACTER	1	SCCBSTS1	Status byte 1
	1... ..		CCBFNWCN	'80'X New connector
	.1. ....		*	'40'X Was CCBFCNTR - now reserved
	.1. ....		CCBFSWDT	'20'X Data passed with switch
	...1 ....		CCBFSWFS	'10'X Switch First received
	.... 1...		CCBFDTNF	'08'X Data doesn't fit
	.... .1.		CCBFDWFP	'04'X Disconnect when possible
	.... .1.		CCBFSWIT	'02'X Invalid target for switch
	.... .1.		CCBFUNEX	'02'X Unexpected failure in SRB/subtask
	.... ...1		CCBIRCWT	'01'X This side is waiting for a session recovery response from the other side.
(D)	CHARACTER	1	SCCBSTS2	Status byte 2

---

FLAGS IN STATUS BYTE 2:

	1... ..		CCBFTERM	'80'X Other side terminated normally
	.1. ....		CCBFABTM	'40'X Other side terminated abnormally
	.1. ....		CCBFABTQ	'20'X Abnormal termination due to Quiesce
	...1 ....		CCBFCNCT	'10'X The connection is currently connected
	.... 1...		CCBFFTRM	'08'X Other side's normal disc. requests FORGET
(E)	BITSTRING	1	SCCBSTS3	Status byte 3
	1... ..		CCBFPRIM	'80'X This is a primary SCCB
(F)	BITSTRING	1	SCCBSTS4	Status byte 4
(10)	FULLWORD	4	SCCBDLTH	Total length of data passed
(14)	FULLWORD	4	SCCBSLTH	Target area length
(18)	ADDRESS	4	SCCBAREA	Target area address
(1C)	CHARACTER	8	SCCBCNAM	Connector LOGON name
(24)	FULLWORD	4	SCCBUSER	User field
(28)	CHARACTER	8	SCCBSEC	Security user field
(30)	ADDRESS	4	SCCBELA	SCCB associated work element
(38)	CHARACTER	8	SCCBCTIM	STCK time at which connection connected
(40)	CHARACTER	8	SCCBSTOD	STCK time by when the secondary TCB had chosen a specific instance of the target primary
(48)	CHARACTER	24	SCCBEL	SCCB internal work element

Subsystem Connection Address Control Block  
These DSECTs define the format of the SCACB and its entries. The SCACB is used by the subsystem level of interregion communication function to obtain the addresses of the SCCBs representing its connections.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	SCACB	
(0)	FULLWORD	4	SCACBNUM	Number of entries in SCACB
(4)	FULLWORD	4	SCACBENT	Start of entries
(4)	FULLWORD	4	SCACBEND	End marker = 'FFFFFFF'

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	SCACBE	
(0)	FULLWORD	4	SCACBEAD	Address of SCCB

Lagon Connections List  
This list is passed to logon by the requester, and it describes the systems to which this logger-on can be connected.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	22	LCL	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	CHARACTER	8	LCLNAME	Name of connected system
(8)	CHARACTER	8	LCLUSRID	Was security userid (ignored)
(10)	UNSIGNED	2	LCLSECNO	Number of secondaries for connections to given system
(12)	UNSIGNED	2	LCLPRMNO	Number of primaries for connections to given system
(14)	BITSTRING	1	LCLFLG	Flag byte
	1... ..		LCLFLGLS	'80'X Last element in list
	.1... ..		LCLFLGCN	'40'X Connections to this system are initially 'IN SERVICE'
	..1... ..		LCLFLGSK	'20'X Partner must be a system key user
	...1 .....		LCLFLGXM	'10'X Cross-Memory acceptable
(15)	BITSTRING	1	*	Reserved

The SVC argument list comprises a list of addresses, each of which is the address of a function argument list.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IRSVCADS	
(0)	FULLWORD	4	IRVCAARG	Address of function argument list

The function argument list, addressed from the SVC argument list, contains different arguments according to the function being requested. The first six arguments identify the function required, the function modifier (for SWITCH, DISCONNECT or QUIESCE), the user number and identification, and the thread number and identification (where required). The remaining three arguments depend on the function requested and identify a system name (for LOGON, INSERV or QUIESCE), a subsystem control block address (for LOGON or CONNECT) and a parameter list (for LOGON or SWITCH).

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	24	IRSVCFDS	
(0)	UNSIGNED	1	IRVCLEN	Length of parameter list
(1)	UNSIGNED	1	IRVCTYP	Function type
(2)	HALFWORD	2	IRVCSTYP	Function modifier
(4)	FULLWORD	4	IRVCUSID	Address of userid argument (except LOGON) OR userid return slot (LOGON only)
(8)	FULLWORD	4	IRVCTHID	Address of thread ID argument (SWITCH, PULL or DISCONNECT only) or thread number return slot (CONNECT only)
(C)	CHARACTER	12	IRVCALST	Start of function specific argument list
(18)	CHARACTER		IRVCEND	

Offset Hex	Type	Len	Name (Dim)	Description
(8)	STRUCTURE	4	IRVCLGFL	Logon flags
(8)	UNSIGNED	1	IRVCLGF1	First flag byte
	1... ..		IRVCLGSP	SYS POST req'd on links
	.1... ..		IRVCLGBT	Batching of operating system POSTs
	..1... ..		IRVCLGBX	BATCH=POSTEXIT
	...1 .....		IRVCLEXM	Exit module name given
	.... 1...		IRVCLELT	Latent parameter supplied on logon
	.... .1..		IRVCLDOK	Allow duplicate names for this logon
	.... ..11		*	Reserved
(9)	UNSIGNED	1	IRVCLGF2	Second flag byte
(A)	UNSIGNED	1	IRVCLGBV	Batching value (IRVCLGBT set)
(B)	UNSIGNED	1	IRVCLGGM	GETMAIN above if SVCLOC=ANY
	1... ..		IRVCLSVC	1 SVCLOC=ANY, 0 SVCLOC=BELOW
	.111 1111		*	Reserved

Offset Hex	Type	Len	Name (Dim)	Description
(C)	STRUCTURE	20	*	Argument list for LOGON
(C)	FULLWORD	4	IRVCLGIM	Address of MYNAME argument
(10)	FULLWORD	4	IRVCLGSL	Address of SLCB addr return slot
(14)	FULLWORD	4	IRVCLGMU	Address of max users argument
(18)	FULLWORD	4	IRVCLGEX	Addr of exit module name
(1C)	FULLWORD	4	IRVCLGLT	Addr of latent parameter

Offset Hex	Type	Len	Name (Dim)	Description
(C)	STRUCTURE	12	*	Argument list for LOGOFF
(C)	FULLWORD	4	IRVCLODS	Address of dynamic storage operand
(10)	CHARACTER	8	*	

Offset Hex	Type	Len	Name (Dim)	Description
(C)	STRUCTURE	12	*	Argument list for CONNECT
(C)	FULLWORD	4	IRVCCNTO	Address of TO argument
(10)	FULLWORD	4	IRVCCNSC	Address of SCCB addr return slot
(14)	CHARACTER	4	*	

Offset Hex	Type	Len	Name (Dim)	Description
(C)	STRUCTURE	12	*	Argument list for SWITCH
(C)	FULLWORD	4	*	Reserved
(10)	FULLWORD	4	*	Reserved
(14)	FULLWORD	4	IRVCSWPM	Address of parameter to pass

Offset Hex	Type	Len	Name (Dim)	Description
(C)	STRUCTURE	12	*	Argument list for QUIESCE
(C)	FULLWORD	4	IRVCQUTO	Address of TO argument
(10)	CHARACTER	8	*	

Offset Hex	Type	Len	Name (Dim)	Description
(C)	STRUCTURE	12	*	Argument list for INSERV
(C)	FULLWORD	4	IRVCINTO	Address of TO argument
(10)	CHARACTER	8	*	

Offset Hex	Type	Len	Name (Dim)	Description
(C)	STRUCTURE	12	*	Argument list for RECOVER
(C)	FULLWORD	4	*	Reserved
(10)	FULLWORD	4	IRVCRCRS	Register 13 save area
(14)	FULLWORD	4	IRVCRCSA	Address of save area argument

Offset Hex	Type	Len	Name (Dim)	Description
(C)	STRUCTURE	12	*	Argument list for EOT/M CLEAR
(C)	HALFWORD	2	IRVCEOAS	ASID of failing memory or ASID of memory containing failing task
(E)	HALFWORD	2	*	Reserved
(10)	FULLWORD	4	IRVCEOTA	TCB address of failing task
(14)	FULLWORD	4	IRVCEOSC	Address of SSCT

Offset Hex	Type	Len	Name (Dim)	Description
(C)	STRUCTURE	12	*	Argument list for ADD
(C)	FULLWORD	4	IRVCANM	Pointer to netname (=IRVCLGIM)
(10)	FULLWORD	4	IRVCATOK	ADD token pointer
(14)	FULLWORD	4	IRVCALCL	A(LCL) - same offset as LOGON

Offset Hex	Type	Len	Name (Dim)	Description
(C)	STRUCTURE	4	*	Argument list for CHCKLEVL
(C)	FULLWORD	4	IRVCALVL	Caller's level identifier



## Constants

Len	Type	Value	Name	Description
4	DECIMAL	16	SLCBLENG	Length of SLCB
4	DECIMAL	96	SCCBLENG	Length of SCCB
1	HEX	80	IRXMTHRD	If not XCF, X-Memory thread
1	HEX	40	IRNXTHRD	Non-XCF thread ID
4	DECIMAL	8	SCACBLEN	Basic SCACB length
4	DECIMAL	4	SCACBELN	Length of SCACB entry
4	DECIMAL	22	LCLLENG	Connection list element length
4	DECIMAL	24	IRVCMAXM	Maximum parameter length
4	DECIMAL	1	IRVCLVL1	Function lvl 1 - basic XCF
4	DECIMAL	2	IRVCLVL2	Function lvl 2 - FORGET

The following equates define the function request codes for the Interregion Communication Program. There are two levels of function request defined here: The SVC function code addressed from the SVC argument list and the function type qualification code addressed from the function argument list for particular functions.

SVC FUNCTION CODES				
1	DECIMAL	0	IRVCEQLG	LOGON
1	DECIMAL	4	IRVCEQLF	LOGOFF
1	DECIMAL	8	IRVCEQCN	CONNECT
1	DECIMAL	12	IRVCEQDC	DISCONNECT
1	DECIMAL	16	IRVCEQSW	SWITCH
1	DECIMAL	20	IRVCEQQU	QUIESCE
1	DECIMAL	24	IRVCEQPL	PULL
1	DECIMAL	28	IRVCEQIN	INSERV
1	DECIMAL	32	IRVCEQCL	CLEAR
1	DECIMAL	36	IRVCEQRC	RECOVER
1	DECIMAL	40	IRVCEQEO	EOT/M CLEAR
1	DECIMAL	44	IRVCEQMX	Immediate Quiesce
1	DECIMAL	48	IRVCEQAD	Connection ADD
1	DECIMAL	52	IRVCEQCK	Check DFHIRP level

FUNCTION QUALIFICATION CODES				
1	DECIMAL	0	IRVCEQDN	Normal DISCONNECT
1	DECIMAL	4	IRVCEQDA	Abnormal DISCONNECT
1	DECIMAL	8	IRVCEQDF	FORGET disc (normal quies)
1	DECIMAL	0	IRVCEQQN	Normal QUIESCE
1	DECIMAL	4	IRVCEQQI	Immediate QUIESCE
1	DECIMAL	0	IRVCEQSS	SWITCH SUBSEQUENT
1	DECIMAL	4	IRVCEQSF	SWITCH FIRST
1	DECIMAL	0	IRVCEQRP	Recover from program check
1	DECIMAL	4	IRVCEQRA	Recover from ABEND
1	DECIMAL	0	IRVCEQET	End of Task
1	DECIMAL	4	IRVCEQEC	End of Cross Memory Resource Owner Task
1	DECIMAL	8	IRVCEQEM	End of Memory
1	DECIMAL	0	IRVCEQPR	ADD_PREPARE
1	DECIMAL	4	IRVCEQCM	ADD_COMMIT
1	DECIMAL	8	IRVCEQRL	ADD_ROLLBACK

**Error Return Codes**  
 The following equates define the return codes passed back by the interregion communication SVC when it detects an error. These error codes are loaded into R15.

INVALID REQUEST ERROR RETURN CODES				
2	DECIMAL	4	IRERRINF	Invalid function requested
2	DECIMAL	8	IRERRAUT	User not authorized to use SVC (MVS only)
VALIDATE SUDB ERROR RETURN CODES				
2	DECIMAL	12	IRERRINE	Environment incorrect
VALIDATE USER ERROR RETURN CODES				
2	DECIMAL	16	IRERRUMM	Invalid user number
2	DECIMAL	20	IRERRUID	Invalid user identification
2	DECIMAL	24	IRERRKEY	PSW key not same as at LOGON
VALIDATE THREAD ERROR RETURN CODES				
2	DECIMAL	28	IRERRTHN	Invalid thread number
2	DECIMAL	32	IRERRTHD	Invalid thread ID
SET FOOTPRINT ERROR RETURN CODES				
2	DECIMAL	36	IRERRCFT	Set footprint failed
CHCKLEVL-SPECIFIC ERROR RETURN CODES				
2	DECIMAL	40	IRERRLVE	* DFHIRP services are down-level
MORE VALIDATE USER ERROR RETURN CODES				
2	DECIMAL	44	IRERRLGN	Valid userno & ID but LCB not fully logged on
LOGON-SPECIFIC ERROR RETURN CODES				
2	DECIMAL	52	IRERRNOS	No SCTE in the SVA
2	DECIMAL	56	IRERRNFL	No free LACBE for LOGON

Len	Type	Value	Name	Description
2	DECIMAL	60	IRERRDPL	Duplicate LOGON
2	DECIMAL	64	IRERRMXL	Maximum LOGONs already reached
2	DECIMAL	68	IRERRGMD	GETMAIN failed XCF busy retry TQE storage
2	DECIMAL	72	IRERRGM1	GETMAIN failed LACB storage
2	DECIMAL	76	IRERRGM4	GETMAIN failed SUDB storage
2	DECIMAL	80	IRERRGM2	GETMAIN failed LCB/CCB storage
2	DECIMAL	84	IRERRGM3	GETMAIN failed - private area storage
1	DECIMAL	1	IRERQSCW	IRERRGM3 qualifier security work area
1	DECIMAL	2	IRERQLCC	IRERRGM3 qualifier LCL copy area
1	DECIMAL	3	IRERQVFW	IRERRGM3 qualifier SSI VERIFY work area
1	DECIMAL	4	IRERQSDW	SUDB work area security work area
1	DECIMAL	5	IRERQJSB	IRERRGM3 qualifier JSB storage
1	DECIMAL	6	IRERQSCA	IRERRGM3/IRERRSIZ qualifier SCACB storage
1	DECIMAL	7	IRERQLCV	IRERRGM3/IRERRSIZ qualifier LCBE vector storage
1	DECIMAL	8	IRERQLCD	IRERRGM2/IRERRSIZ qualifier LCBD, LCBE & CCB storage
1	DECIMAL	9	IRERQSCC	IRERRGM3/IRERRSIZ qualifier SCCB storage
1	DECIMAL	10	IRERQLCX	IRERRGM3/IRERRSIZ qualifier LCBEX & CCBX storage
1	DECIMAL	11	IRERQPHB	IRERRGM3/IRERRSIZ qualifier PHB storage
1	DECIMAL	12	IRERQSLC	IRERRGM3/IRERRSIZ qualifier SLCB storage
1	DECIMAL	13	IRERQSRW	IRERRGM3/IRERRSIZ qualifier SRB work area
1	DECIMAL	14	IRERQXTT	IRERRGM3/IRERRSIZ qualifier XCF Trace Table
1	DECIMAL	15	IRERQQSW	IRERRGM3/IRERRSIZ qualifier QUERY SYSPLEX work area
1	DECIMAL	16	IRERQGXW	IRERRGM3/IRERRSIZ qualifier XCF Group Exit work area
1	DECIMAL	17	IRERQRXW	IRERRGM3/IRERRSIZ qualifier XCF busy retry SRB work area
1	DECIMAL	18	IRERQRTT	IRERRGM3/IRERRSIZ qualifier XCF busy retry SRB Trace Table
2	DECIMAL	256	IRERRWEN	Bad name for EXITS=
2	DECIMAL	260	IRERRWEL	LOAD failed for IR work exit
2	DECIMAL	264	IRERRWEF	IR work exit is bad format
<b>CONNECT-SPECIFIC ERROR RETURN CODES</b>				
2	DECIMAL	12	IRERRSP	Secondary to Primary converter
2	DECIMAL	88	IRERRNSK	Potential partner is not a system key user but LCBE insists on system key partners
2	DECIMAL	92	IRERRNLG	System not logged on
2	DECIMAL	96	IRERRNCT	Primary & secondary DFHIRP levels have incompatible XCF User State Data formats
2	DECIMAL	100	IRERRGM5	GETMAIN failed CSB/CND storage
2	DECIMAL	104	IRERRNSS	Secondary system not in primary LCB
2	DECIMAL	108	IRERRCCS	No secondary CCB found for primary system
2	DECIMAL	112	IRERRIQS	Secondary is in QUIESCE
2	DECIMAL	116	IRERRNSP	
Primary system not in secondary LCB				
2	DECIMAL	120	IRERRCCP	
No primary CCB found for secondary				
2	DECIMAL	124	IRERRIQP	
Primary is in QUIESCE				
2	DECIMAL	128	IRERRCCR	No primary CCB/retry req
2	DECIMAL	176	IRERRSCF	Security check failed
1	DECIMAL	1	IRERQAUT	IRERRSCF qualifier AUTH denied access
1	DECIMAL	2	IRERQFAU	IRERRSCF qualifier FASTAUTH denied access
<b>DISCONNECT-SPECIFIC ERROR RETURN CODES</b>				
2	DECIMAL	132	IRERRDSC	Link is already disconnected
<b>SWITCH-SPECIFIC ERROR RETURN CODES</b>				
2	DECIMAL	136	IRERRSWI	Other side cannot receive data
2	DECIMAL	140	IRERRNSW	This side cannot send data
<b>PULL-SPECIFIC ERROR RETURN CODES</b>				
2	DECIMAL	144	IRERRPL1	Other side cannot be pulled from
2	DECIMAL	148	IRERRPL2	This side cannot pull data
2	DECIMAL	152	IRERRNPP	There is no pull pending
2	DECIMAL	156	IRERRNDP	No data to be pulled (Internal error)
<b>INSERT-SPECIFIC ERROR RETURN CODES</b>				
2	DECIMAL	160	IRERRLIQ	LCB is in QUIESCE
2	DECIMAL	164	IRERRUKS	Target system not found in LCB
<b>MISCELLANEOUS ERROR RETURN CODES</b>				
2	DECIMAL	168	IRERRCSB	CSB cannot be found
2	DECIMAL	172	IRERRLNC	Link is not connected
2	DECIMAL	180	IRERRSCH	Attempt to schedule an SRB/subtask failed
2	DECIMAL	184	IRERRGM7	GETMAIN failed for SRB storage (MVS)
2	DECIMAL	208	IRERRGM8	GETMAIN failed for Transfer Buffer
2	DECIMAL	212	IRERRGM9	GETMAIN failed for EOM wk area
2	DECIMAL	236	IRERRGMA	GETMAIN failed for XCF part table or XCF retry storage
2	DECIMAL	228	IRERRGMX	GETMAIN failed for use count array
2	DECIMAL	232	IRERRAX	Non-zero AX value currently set
2	DECIMAL	240	IRERRCAT	Connect SRB ATSET failed
2	DECIMAL	244	IRERRXME	Cross memory environment error
2	DECIMAL	248	IRERRIDL	Total data length invalid For SWITCH or PULL
2	DECIMAL	252	IRERRMPD	M/C check paging I/O or DAT error
2	DECIMAL	188	IRERRPST	'Special' ABEND (Bad ECB etc.)
2	DECIMAL	216	IRERRREN	Subsystem notification error (MVS only)

Len	Type	Value	Name	Description
2	DECIMAL	268	IRERRLCL	Error in LOGON/ADD connections list
1	DECIMAL	1	IRERQDNM	Duplicate connection name in LCL or LCBs
1	DECIMAL	2	IRERQEXC	Restricted options requested by an EXCI user
1	DECIMAL	3	IRERQ#SN	Number of sessions is invalid
1	DECIMAL	4	IRERQ#NU	Primary sessions requested by a non-unique user or LCL end flag cleared asynchronously
<b>INVALID ADDRESS RETURN CODES</b>				
2	DECIMAL	192	IRERRIA0	Invalid argument or Parameter addr
2	DECIMAL	196	IRERRIA1	Invalid address in parameter list
2	DECIMAL	200	IRERRIA2	Invalid address in data list
2	DECIMAL	204	IRERRABN	An MVS ABEND occurred
2	DECIMAL	220	IRERRIA3	Invalid target for data movement
2	DECIMAL	224	IRERRILE	Internal logic error
2	DECIMAL	276	IRERRXCQ	IXCQUERY failure, reason in R0
2	DECIMAL	280	IRERRTKN	Token not found - dynamic ADD
2	DECIMAL	284	IRERRSCV	SCTE already built by an incompatible version of DFHIRP
2	DECIMAL	288	IRERRRSM	MVS RESMGR failed - 1st 2 bytes of RF is RESMGR return code
2	DECIMAL	292	IRERRSIZ	Max. size exceeded for SCACB, LCBE vector, LCBd block, SCCB block or LCBEX block
2	DECIMAL	296	IRERRTSW	Non-zero POST code from TRANSWAP
2	DECIMAL	300	IRERRSN#	No unused session numbers left for an XCF CONNECT request
2	DECIMAL	304	IRERRMTM	LCBFJOIN set at start of IRCJOIN but XCF member token not present in LCB - probably caused by a previous ABEND during IXCJOIN

## IRRD5 Interregion session recovery

CONTROL BLOCK NAME = DFHIRRDS  
 DESCRIPTIVE NAME = CICS Interregion Session Recovery  
 Data Stream.

FUNCTION =  
 This DSECT describes the datastream sent by both primary and secondary at the start of an IRC session. The datastream is used to perform session recovery immediately after a new IRC connection has been established between two systems.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHIRRDS	
(0)	BITSTRING	1	IRRSTRT (0)	START
(0)	BITSTRING	4	IRFLGS (0)	FLAGS
(0)	BITSTRING	1	IRFLG1	FLAG BYTE 1
	1... ..		IRFLGFx	"X'80" .. FAST PATH XFORMER SUPPORTED
	.1.. ..		IRFLFACC	"X'40" .. Revised State-after-Rollback rules are required
	..1. ....		IRFLBSND	"X'20" .. Sender is 'new batch'
	...1 ....		IRFLBREJ	"X'10" .. Sender is non-batch connection reject
	.... 1...		IRFLCONT	"X'08" .. More bind data after IRLLEN (see IRCONT DSECT below)
	.... .1..		IRFLRSYN	"X'04" .. Sender is capable of new (LU62-style) resync
	.... ..1.		IRFLFCTK	"X'02" .. Sender can handle FC Tokens
	.... ...1		IRFRRS	"X'01" .. Sender supports transactional EXCI
(1)	BITSTRING	1	IRFLG2	
	1... ..		IRFLRTST	"X'80" .. Routable START support
(2)	BITSTRING	2		RESERVED
(4)	BITSTRING	4	IRRELNO	SENDER'S RELEASE LEVEL (SAME FORMAT AS ISC RLSE NO IN USER AREA IN BIND)
(8)	CHARACTER	4	IRSNAM	SENDER'S NAME
(C)	CHARACTER	4	IRRNAM	NAME TO WHICH SENDER WAS CONNECTED IN PREV. SESSION (BLANKS IF NONE OR UNKNWN)
(10)	BITSTRING	2	IRLONO	LOGICAL OUTBOUND SEQUENCE NO. AT END OF LAST SESSION (ZEROS IF COLD-STARTED)
(12)	BITSTRING	2	IRLINO	LOGICAL OUTBOUND SEQUENCE NO. AT END OF LAST SESSION (ZEROS IF COLD-STARTED)
	...1 .1..		IRLEN	**IRRSTRT" LENGTH OF DATASTREAM

The IRCONT DSECT describes a bind continuation element. The presence of such an element is signalled by the setting of the IRFLCONT flag in IRFLGS (see the DFHIRRDS DSECT above). The element appears immediately after the bind data (ie at offset IRLLEN from DFHIRRDS).

Offset Hex	Type	Len	Name (Dim)	Description
(0)			IRCONT	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	HALFWORD	2	IRCONT_LTH	lth of data item (including lth field itself)
(2)	HALFWORD	2	IRCONT_TYPE	type of data item
	.... ..1		IRCONT_JOBID	"X'01" type value for jobid data item
	.... ..1.		IRCONT_XLN	"X'02" type value for bind XLN data
(4)	BITSTRING	1	IRCONT_DATA (0)	start of data proper
(2)	BITSTRING	1	IRCONT_FLAG	flag at start of type field
	1... ....		IRCONT_MORE	"X'80" IRCONT_FLAG value indicating presence of another data item

## JCA Journal control area

CONTROL BLOCK NAME = DFHJCAPS  
 DESCRIPTIVE NAME = CICS Journal Control Area  
 FUNCTION =  
 The JCA contains the parameter lists that communicate between a task requiring journaling services, and other fields used internally by journaling.  
 LIFETIME =  
 A JCA is normally created on the first occasion that a task requests a service of journaling, and persists until the task terminates. ( Journaling also creates some JCAs for internal purposes.) Creation involves DFHJCP; deletion is incidental to deletion of the TCA.  
 STORAGE CLASS =  
 JCA ('9B'X)  
 LOCATION =  
 Addressed by TCAJCAAD in the user TCA.  
 INNER CONTROL BLOCKS =  
 None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	54	DFHJCADS	JCA
(0)	HALFWORD	2	JCALEN	Length of the JCA
(2)	CHARACTER	6	JCAEYE	JCA eyecatcher
(8)	BITSTRING	1	JCATR3	- type of request, byte 3
(9)	BITSTRING	1	JCATR2	- type of request, byte 2
(A)	BITSTRING	1	JCATR1	- type of request, byte 1
(B)	BITSTRING	1	JCAJCR3	- return code
(C)	ADDRESS	4	JCAADATA	- A(user data)
(10)	ADDRESS	4	JCAAPRF3	- A(user prefix)
(14)	FULLWORD	4	JCAFTOK	force token
(18)	FULLWORD	4	JCAFL3N	- fullword L(user data)
(18)	HALFWORD	2	*	- section to allow 64K
(1A)	HALFWORD	2	JCALDATA	- used with LENGTH
(1C)	HALFWORD	2	JCALPRF3	- L(user prefix)
(1E)	HALFWORD	2	JCAJNUM	journal number as halfword
(20)	UNSIGNED	1	JCAJFID	- journal identifier
(21)	CHARACTER	8	JCAJNAME	journal name identifier
(29)	CHARACTER	2	JCADOMID	calling domain identifier

JCA user prefix: terminal control segment

(2C)	CHARACTER	10	JCAUPTC	origin of user prefix
(2C)	CHARACTER	2	JCAJRTID	- JC rec type (DFHFMIPS)
(2C)	BITSTRING	1	JCAMODFN	- module function
(2D)	BITSTRING	1	JCASVMID	- module id
(2E)	HALFWORD	2	JCAVSPIN	LU6.1 inbound sequence number
(30)	HALFWORD	2	JCAVSPON	LU6.1 outbound sequence number
(32)	CHARACTER	4	JCAUPTID	Terminal ID

## Constants

Len	Type	Value	Name	Description
1	HEX	10	JCATRANY	Concerning addressing mode -- user data may be 'anywhere'
JCATR2 - Request-modifying symbolic settings				
1	HEX	01	JCATROUT	TYPE=OUTPUT (with OPEN)
1	HEX	01	JCATRL	LEAVE=YES (with CLOSE request)
1	HEX	01	JCATRCR	Conditional (WRITE) request
1	HEX	02	JCATRIN	TYPE=INPUT (with OPEN)
1	HEX	02	JCATRSIO	STARTIO=YES (with WRITE)
1	HEX	04	JCATRPFX	User prefix specified (WRITE)
JCATR1 - Request-type symbolic settings				
1	HEX	01	JCATRWR	TYPE=WRITE
1	HEX	02	JCATRW	TYPE=WAIT
1	HEX	03	JCATRPUT	TYPE=PUT (=WRITE,WAIT)
JCAJCRC - return code symbolic settings				
1	HEX	00	JCARCNR	normal response
1	HEX	01	JCARCIDE	journal id error
1	HEX	02	JCARCIRE	invalid request
1	HEX	03	JCARCSE	status error
1	HEX	04	@NM00002	reserved
1	HEX	05	JCARCNOE	journal not open
1	HEX	06	JCARCLE	length error
1	HEX	07	JCARCIOE	I/O error
1	HEX	08	JCARCEOF	end of file (for input req)
1	HEX	09	JCARCCR	COND=YES, buffer full
MISCELLANEOUS VALUES				
1	HEX	63	JCAJNMAX	Max journalname = 99

## KCS Transaction manager static storage

CONTROL BLOCK NAME = DFHKCSPS				
DESCRIPTIVE NAME = CICS TRANSACTION MANAGER STATIC STORAGE				
FUNCTION =				
Static storage used by task control component for				
ECBs and working storage.				
There is a single instance of this control block in a CICS				
system.				
LIFETIME =				
It is allocated and initialized to hex zeroes in DFHSIB1.				
It has the lifetime of the CICS system.				
STORAGE CLASS =				
CICS static storage.				
LOCATION =				
Addresses from static storage address list.				
INNER CONTROL BLOCKS =				
NOTES :				
DEPENDENCIES = S/370				
RESTRICTIONS =				
MODULE TYPE = Control block definition				
EXTERNAL REFERENCES = None				
DATA AREAS = None				
CONTROL BLOCKS = PCT				
GLOBAL VARIABLES (Macro pass) = None				

Offset	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	20	DFHKCSPS	
(0)	CHARACTER	4	KCSOBECB	open-for-business ECB
(0)	BITSTRING	1	*	
	1... ..		*	Reserved
	.1. ....		KCSOBPST	open-for-business post bit *
(4)	CHARACTER	4	KCSCPECB	KC restart complete ECB *
(4)	BITSTRING	1	*	
	1... ..		*	Reserved
	.1. ....		KCSCPPST	restart complete post bit *
(8)	BITSTRING	1	KCSFLAGS	restart flags
	1... ..		KCSRSTIN	restart initiated
(9)	UNSIGNED	1	KCSRSTRC	restart return code
(A)	CHARACTER	2	KCSREASN	MSG DFH0302 REASON CODE *
(C)	ADDRESS	4	KCSNQPCH	DFHHC ENQ string enqueue pool
(10)	ADDRESS	4	KCSNQPAD	DFHHC ENQ address enqueue pool
(14)	CHARACTER		KCSTLEN	LENGTH INDICATOR

## KERRD Kernel error data

CONTROL BLOCK NAME = DFHKERRD  
 DESCRIPTIVE NAME = CICS Kernel Error Data  
 FUNCTION = Kernel Error Data.  
 After an MVS Abend, Program Check or Domain Requested Recovery,  
 The following data is available to the task in recovery state.  
 Once the recovery state is cleared or percolated, this data is  
 no longer available.

The data splits into three parts:

1. Error Code and Interrupt information.

The Error Code is supplied on a CICS Request Recovery Call  
 and is a CICS Abend Code (as documented in CICS Messages  
 and Codes).

If the Error Code is AKEA then there has been a program  
 check and the System Interrupt data will be the program  
 check code ( 00CX ).

If the Error Code is AKEB then there has been an MVS Abend  
 and then System and User Interrupt data will contain the  
 MVS Abend Code split up into the System and User parts.

The Kernel will calculate the offset within your program  
 that the CICS error occurred. If not in your program, this  
 field is set negative.

2. SYSTEM Error Data - PSW and Registers taken from the SDWA.

SDWA: "PSW and Registers at time of error."

There are two sets of PSW and Registers, which are different  
 when CICS has called an SVC (say) which then issues an  
 Abend. In this case the phrase 'at time of error' indicates  
 that this set of PSW and Registers will be those of the  
 SVC: the PSW will be the address (in the SVC routine)  
 of an Abend SVC (13).

3. CICS Error Data - PSW and Registers taken from the SDWA.

SDWA: "PSW and Registers of last interrupt of the RB that  
 issued this STAE/ESTAE."

This is a rather cryptic phrase. Remember, however, that  
 the RB that issued the ESTAE is actually CICS and that,  
 since CICS does not issue LINK, CICS only ever has the one  
 RB EXCEPT when we issue an SVC.

S370 hardware implements SVC's and Program Checks as  
 interrupts. Thus, if CICS issues an SVC that then abends,  
 the last interrupt we received WAS the SVC. So, this  
 save area describes the last thing CICS did before the  
 Abend.

Notes

1. If CICS issues an Abend (or program checks) from its  
 own code, these two save areas are identical and identify  
 the place where the Abend or program check happened.

2. In the case of requested recovery, both sets of PSW and  
 Registers will identify the state at the time the request  
 recovery was issued.

3. When the Abend is issued from 'the System', the two save  
 areas are used for different purposes.

If the problem is to diagnose what VTAM/VSAM/MVS/etc. was  
 doing for us at the time, the appropriate Error Data is the  
 SYSTEM's, since that tells us what the state was on that  
 side of the SVC.

If the problem is to diagnose an invalid request made by  
 CICS, then the last thing CICS did is relevant and so the  
 CICS Error Data is relevant.

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS = None

MODULE TYPE = Control block definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	424	KERNEL_ERROR_DATA	
(0)	CHARACTER	8	KERNEL_ ERROR_CODE	XXX/NNNN System & User Code
(8)	UNSIGNED	1	KERNEL_ ERROR_TYPE	Error type, see below
(9)	BITSTRING	1	KERNEL_ ERROR_FLAGS	MVS FLAGS
1... ..			KERNEL_ ERROR_DUMP_ REQUESTED	
.111 ...			KERNEL_ ERROR_EXECUTING_ RB	A dump was requested
.1.. ...			KERNEL_ ERROR_SRB_MODE	Flags determining error RB.
..1. ....			KERNEL_ ERROR_IRB	Error in SRB mode
...1 ....			KERNEL_ ERROR_CICS_ RB_NOT_ACTIVE	IRB on RB stack

Offset Hex	Type	Len	Name (Dim)	Description
	.... 1...		*	CICS RB not in control
	.... .1..		KERNEL_ ERROR_REASON_PRESENT	Reserved
(A)	.... ..11	2	KERNEL_ ERROR_SYSTEM_INT	Abend reason code is present Reserved
(C)	BITSTRING	2	KERNEL_ ERROR_USER_INT	XXX in binary format
(E)	HALFWORD	2	KERNEL_ ERROR_OFFSET	NNNN in binary format
(10)	CHARACTER	8	KERNEL_ ERROR_PROGRAM	Offset in program of error
(18)	ADDRESS	4	KERNEL_ ERROR_ADDRESS	Name of program in error
(1C)	FULLWORD	4	KERNEL_ ERROR_TASRQTOK	Address of program in error
(20)	FULLWORD	4	KERNEL_ ERROR_TASTRTOK	Attach token of task
(24)	ADDRESS	4	KERNEL_ ERROR_TAS_ADDRESS	Transaction token of task
(28)	FULLWORD	4	KERNEL_ ERROR_NUMBER	Address of task in error
(2C)	CHARACTER	4	KERNEL_ ERROR_REASON	Error number
(30)	CHARACTER	160	CICS_ERROR_DATA	Abend reason code
(30)	CHARACTER	8	CICS_ERROR_BC_PSW	CICS error data
(38)	CHARACTER	8	CICS_ERROR_EC_PSW	PSW BC Mode
(38)	CHARACTER	2	*	PSW EC Mode
(3A)	BITSTRING	1	CICS_ERROR_EC_BYTE3	Padding
	1... ....		CICS_ERROR_AR_MODE	
(40)	CHARACTER	8	CICS_ERROR_EC_ADD	CICS AR mode flag
(48)	ADDRESS	4	CICS_ERROR_INSTRUCTION_ADDR	Int Code,ILC from SDWAAEC2
(4C)	UNSIGNED	1	CICS_ERROR_KEY	PSW address
(4D)	UNSIGNED	3	*	PSW key in form X'n0'
(50)	CHARACTER	64	CICS_ERROR_REGST	Padding
(50)	ADDRESS	4	CICS_ERROR_REGISTERS (16)	
(90)	CHARACTER	64	CICS_ERROR_ACCESS_REGST	Registers in CICS
(90)	ADDRESS	4	CICS_ERROR_ACCESS_REGISTERS (16)	
(D0)	CHARACTER	160	SYSTEM_ERROR_DATA	CICS Access Regs@L3A
(D0)	CHARACTER	8	SYSTEM_ERROR_BC_PSW	System error data
(D8)	CHARACTER	8	SYSTEM_ERROR_EC_PSW	PSW BC Mode
(D8)	CHARACTER	2	*	PSW EC Mode
(DA)	BITSTRING	1	SYSTEM_ERROR_EC_BYTE3	Padding
	1... ....		SYSTEM_ERROR_AR_MODE	
(E0)	CHARACTER	8	SYSTEM_ERROR_EC_ADD	SYSTEM AR mode flag
(E8)	ADDRESS	4	SYSTEM_ERROR_INSTRUCTION_ADDR	Int Code,ILC from SDWAAEC1
(EC)	UNSIGNED	1	SYSTEM_ERROR_KEY	PSW address
(ED)	UNSIGNED	3	*	PSW key in form X'n0'
(F0)	CHARACTER	64	SYSTEM_ERROR_REGST	Padding
(F0)	ADDRESS	4	SYSTEM_ERROR_REGISTERS (16)	
(130)	CHARACTER	64	SYSTEM_ERROR_ACCESS_REGST	

Offset Hex	Type	Len	Name (Dim)	Description
(130)	ADDRESS	4	SYSTEM_ERROR_ACCESS_REGISTERS (16)	
(170)	BITSTRING	8	KERNEL_ERROR_TIMESTAMP	System access registers
(178)	CHARACTER	32	KERNEL_ERROR_FP_REGS	Timestamp of error
(178)	CHARACTER	8	KERNEL_ERROR_FP_REG_0	FP register values:
(180)	CHARACTER	8	KERNEL_ERROR_FP_REG_2	FP register 0
(188)	CHARACTER	8	KERNEL_ERROR_FP_REG_4	FP register 2
(190)	CHARACTER	8	KERNEL_ERROR_FP_REG_6	FP register 4
				FP register 6

The following 2 fields are only valid if  
KERNEL\_ERROR\_IN\_SUBSPACE is set

(198)	CHARACTER	8	KERNEL_ERROR_STOKEN	Stoken for subspace
(1A0)	CHARACTER	4	KERNEL_ERROR_ALET	ALET for subspace
(1A4)	BITSTRING	1	KERNEL_ERROR_SUBSPACE_FLAGS	
			KERNEL_ERROR_IN_SUBSPACE	error while in ss
(1A5)	CHARACTER	3	*	Reserved
			*	Reserved

### Constants

Len	Type	Value	Name	Description
1	DECIMAL	1	KERNEL_ERROR_PROGRAM_CHECK	
1	DECIMAL	2	KERNEL_ERROR_ABEND	
1	DECIMAL	3	KERNEL_ERROR_RUNAWAY	
1	DECIMAL	4	KERNEL_ERROR_REQUESTED	
1	DECIMAL	5	KERNEL_ERROR_PERCOLATE	
1	DECIMAL	6	KERNEL_ERROR_KERNERROR	
1	DECIMAL	7	KERNEL_ERROR_DEFERRED_ABEND	
1	DECIMAL	8	KERNEL_ERROR_LINKAGE	
1	DECIMAL	9	KERNEL_ERROR_ABEND_PERCOLATE	
1	DECIMAL	10	KERNEL_ERROR_ABEND_REQUESTED	
1	DECIMAL	11	KERNEL_ERROR_RUNNING_CANCEL	

Kernel Error Executing RB : Test value  
- Error occurred in CICS RB if:  
not in SRB mode,  
no IRB in RB stack,  
and CICS RB was in control.

0	BIT	000	KERNEL_ERROR_CICS_RB	
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## KPLEC      Keypoint list element

CONTROL BLOCK NAME = DFHKPLEC  
 DESCRIPTIVE NAME = CICS (FILE) Keypoint List Element DSECT  
 FUNCTION =  
     Declare a structure for the keypoint list element (KPLE).  
     The keypoint list forms part of file control's implementation of fuzzy image copy, also known as backup while open. One KPLE exists for each keypoint and records the start and end times at which tie up records are written.

LIFETIME =  
     The keypoint list elements are created, processed and deleted (when they become redundant) by DFHFCBWO. DFHFCBWO is called from the file control recovery program DFHFCRC following RMKP take keypoint calls from recovery manager.

LOCATION =  
     The KPLE chain is anchored off fc\_kple\_chain in file control static storage.

STORAGE CLASS =  
     KPLEs are getmained from the variable length file control subpool above the line.

INNER CONTROL BLOCKS =  
     None.

NOTES :  
 DEPENDENCIES = S/390  
 RESTRICTIONS = None.  
 MODULE TYPE = Control block definition.

EXTERNAL REFERENCES =  
     None.

DATA AREAS =  
     None.

CONTROL BLOCKS =  
     None.

GLOBAL VARIABLES (Macro pass) =  
     None.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	20	KPLE	keypoint list element
(0)	ADDRESS	4	KPLE_NEXT	pointer to next element, or null pointer if the last
(4)	CHARACTER	8	KPLE_START_WRITE_PACKED	
(4)	CHARACTER	4	KPLE_START_WRITE_DAY	when starting to write TURs
(8)	CHARACTER	4	KPLE_START_WRITE_TIME	... in packed format 0CYYDDDC
(C)	CHARACTER	8	KPLE_END_WRITE_PACKED	... in packed format HHMSSTC
(C)	CHARACTER	4	KPLE_END_WRITE_DAY	when ending write of TURs
(10)	CHARACTER	4	KPLE_END_WRITE_TIME	... in packed format 0CYYDDDC
				... in packed format HHMSSTC

**LDGDS Loader statistics**

CONTROL BLOCK NAME = DFHLDGDS  
 DESCRIPTIVE NAME = CICS Loader Statistics  
 FUNCTION =  
   This block described the statistics maintained by the Loader.  
   The loader maintains a single instance of this block representing its global statistics  
 LIFETIME = This block is created by the Loader to satisfy a request for statistics  
 STORAGE CLASS =  
 LOCATION = The user is passed a pointer to the head of the block  
 INNER CONTROL BLOCKS = none  
 NOTES :  
   DEPENDENCIES = S/370  
   RESTRICTIONS = none  
   MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = none  
 DATA AREAS = none  
 CONTROL BLOCKS = Data from Loader domain  
 GLOBAL VARIABLES (Macro pass) = none

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHLDGDS	Loader statistics (GLOBAL)
(0)	FULLWORD	4	(0)	Reserved
(0)	HALFWORD	2	LDGLEN	Length of data area
	...1 111.		LDGIDE	"30" Global loader stats id mask
(2)	ADDRESS	2	LDGID	Loader domain global stats id
	.... ...1		LDGVERS	"X'01" DSECT version number
(4)	CHARACTER	1	LDGDVERS	Domain data format version number
(5)	CHARACTER	3		Reserved
	.... 1...		LDGHEND	*** End of header
	.... 1...		LDGHLEN	***LDGLEN" Length of header
<b>Offset Hex</b>	<b>Type</b>	<b>Len</b>	<b>Name (Dim)</b>	<b>Description</b>
(0)			LDGGLOBAL	Global statistics DSECT
(0)	FULLWORD	4	LDGLLR	Number of library load requests
(4)	FULLWORD	4	LDGLLT	Total time for all loads
(8)	FULLWORD	4	LDGPUSES	Number of program uses
(C)	FULLWORD	4	LDGWLR	Number of loader reqs waiting
(10)	FULLWORD	4	LDGWLRHW	HWM waiting loader reqs
(14)	FULLWORD	4	LDGHWMT	Times at HWM
(18)	FULLWORD	4	LDGTTW	Total time waiting
(1C)	FULLWORD	4	LDGDREBS	Number of library DEB rebuilds
(20)	FULLWORD	4	LDGWTDLR	Number of loader reqs that waited
(24)	FULLWORD	4		Reserved
(28)	FULLWORD	4		Reserved
(2C)	FULLWORD	4		Reserved
(30)	FULLWORD	4		Reserved
(34)	FULLWORD	4		Reserved
(38)	FULLWORD	4		Reserved
	..11 11..		LDGGEND	*** End of global statistics
	..11 11..		LDGGLEN	***LDGGLOBAL" Length of global statistics
<b>Offset Hex</b>	<b>Type</b>	<b>Len</b>	<b>Name (Dim)</b>	<b>Description</b>
(0)			LDGDSASTAT	Program stats on a DSA basis
(0)	FULLWORD	4	LDGSTGNIU	Amount of storage occupied by NIU programs
(4)	FULLWORD	4	LDGPROGNIU	Number of programs on NIU queue
(8)	FULLWORD	4	LDGRECNIU	Number of programs reclaimed from NIU queue
(C)	FULLWORD	4	LDGDPSCR	Number of programs removed by DPSC
(10)	BITSTRING	8	LDGDPSC	Total time on NIU queue
(18)	BITSTRING	1	LDGDSAINDEX	DSA index
(19)	BITSTRING	3		Reserved
(1C)	FULLWORD	4		Reserved
(20)	FULLWORD	4		Reserved
(24)	FULLWORD	4		Reserved
(28)	FULLWORD	4		Reserved
(2C)	FULLWORD	4		Reserved
	..11 ....		LDGDSAEND	*** End of DSA program stats
	..11 ....		LDGDSALEN	***LDGDSASTAT" Length of DSA program stats

Equates for LDGDSASTAT array

.... .11.	LDGMAXDSA	"6" Number of elements
.... ...1	LDGCDSA	"1" CDSA

Offset Hex	Type	Len	Name (Dim)	Description
....	.1.		LDGECDSA	"2" ECDSA
....	.11		LDGSDSA	"3" SDSA
....	.1..		LDGESDSA	"4" ESDSA
....	.1.1		LDGRDSA	"5" RDSA
....	.11.		LDGERDSA	"6" ERDSA

## LDRDS Loader statistics for programs

CONTROL BLOCK NAME = DFHLDRDS  
 DESCRIPTIVE NAME = CICS Loader Statistics for programs  
 FUNCTION =  
 This block described the statistics collected by the Loader Domain.  
 There is an instance of this block for each program for which statistics have been requested.  
 LIFETIME = This block exists until the statistics request has been satisfied.  
 STORAGE CLASS =  
 LOCATION = The user is passed a pointer to the head of the block  
 INNER CONTROL BLOCKS = none  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = none  
 DATA AREAS = none  
 CONTROL BLOCKS = Data from Loader Domain  
 GLOBAL VARIABLES (Macro pass) = none

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHLDRDS	Loader statistics (RESID)
(0)	FULLWORD	4	(0)	Reserved
(0)	HALFWORD	2	LDRLLEN	Length of data area
...	1..1		LDRIDR	"25" Loader stats Resid mask
(2)	ADDRESS	2	LDRID	Loader domain stats id
....	...1		LDRVERS	"X'01" DSECT version number
(4)	CHARACTER	1	LDRDVERS	Domain data format version number
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	LDRPNAME	Program name
(10)	FULLWORD	4	LDRTU	Times used since last reset
(14)	FULLWORD	4	LDRFC	Fetch count
(18)	FULLWORD	4	LDRFT	Total time taken for all fetchs
(1C)	FULLWORD	4	LDRRPLO	Offset into RPL DD of owning PDS
(20)	FULLWORD	4	LDRTN	Times NEWCOP'ed
(24)	FULLWORD	4	LDRPSIZE	Program size
(28)	FULLWORD	4	LDRRPC	Times removed by program compression
(2C)	ADDRESS	1	LDRLOCN	Location of current copy
....	....		LDRNOCO	"X'00" No current copy
....	...1		LDRCDCO	"X'01" Current copy in the CDSA
....	..11		LDRLPACO	"X'03" Current copy in the LPA
....	.1..		LDRECDCO	"X'04" Current copy in the ECDSA
....	.11.		LDRERDCO	"X'06" Current copy in the ERDSA
....	.111		LDRELPCO	"X'07" Current copy in the ELPA
....	1..		LDRSDCO	"X'08" Current copy in the SDSA
....	1..1		LDRESDCO	"X'09" Current copy in the ESDSA
....	1.1.		LDRRDICO	"X'0A" Current copy in the RDSA
(2D)	ADDRESS	3		Reserved
..11	....		LDREND	""
..11	....		LDRCLLEN	""-LDRLLEN" Length of DSECT

## LFM LIFO parameter list and standard DSA

CONTROL BLOCK NAME = DFHPLST, DFHLFS  
 DESCRIPTIVE NAME = CICS LIFO Parameter List and Standard DSA  
 FUNCTION =  
 Maps the parameter list passed to DFHLFA.  
 The values of the field DFHLMOD are given in the module  
 identifiers in DFHFMIDS.  
 Maps the standard DSA.  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Control block definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHPLST	DSECT FOR PLIST
	.... ....		OFF0	"00" OFFSET OF FLAGS
	.... ..1		OFF1	"01" OFFSET OF STATUS FLAGS
	.... ..1.		OFLN	"02" LENGTH OFFSET
	.... .1..		OFDR	"04" CHAIN BACK OFFSET
	.... 11..		OFLR	"12" OFFSET OF REG 14
	...1 1...		OFR1	"24" OFFSET OF REG 1
	.1.. 11..		OFNB	"X'4C" NAB OFFSET
	.1.. 11..		NAB	"X'4C" NAB OFFSET
	.1.1 ....		OFTASN	"X'50" OFFSET OF TASN
	1111 111.		CINTISA	"X'FE" INITIAL SEGMENT NO *

PLIST PASSED BETWEEN MODULE AND FIRST GET LIFO MODULE

(0)	HALFWORD	2	DFHLPLEN	LENGTH OF PLIST
(2)	HALFWORD	2	DFHLPDFG	DSA ID
(4)	HALFWORD	2	DFHLPDLN	DSA LENGTH
(6)	HALFWORD	2	DFHLPMDS	OFFSET OF MODULE START FROM PLIST START
(8)	FULLWORD	4	DFHLPTRC	TRACE FLAGS
(C)	HALFWORD	2	DFHLMOD	MOD ID
(E)	HALFWORD	2	DFHLMDC	MOD ID IN CHARACTER FORM
(10)	BITSTRING	1	DFHLPTRF	OPTION SETTING
	.1.. ....		LFLPTRRC	"X'40" RECOVERY ROUTINE PRESENT
	.... 1...		LFLPTRCN	"X'08" CONDITIONAL REQUEST
	.... .1..		LFLPTRRN	"X'04" COND RETURN REQUEST
	.... ..1.		LFLPTRIC	"X'02" IC LOGIC IS REQUESTED.
	.... ..1		LFLPTRTR	"X'01" TRACE IS REQUESTED.
(11)	BITSTRING	1	DFHLPTR2	PERFORM,ACCOUNT,EXCEPT
(12)	BITSTRING	1	DFHLPRS3	RESERVED
(13)	BITSTRING	1	DFHLPRS4	RESERVED
(14)	FULLWORD	4	DFHLPSMD	Smode index
	.... ....		DFHLPS31	"0" Smode 31
	.... 1...		DFHLPS24	"8" Smode 24
(18)	ADDRESS	4	DFHLPPRC	Recovery routine address *

STANDARD DSA

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHLFS	
(0)	BITSTRING	1	LFDSOFF0	FLAG BYTE 0
(1)	BITSTRING	1	LFDSOFF1	FLAG BYTE 1
	1... ....		LFDSLLOOP	"X'80" DSA may be looping
	.1.. ....		LFDSERRD	"X'40" DFHKERRD exists, i.e. stack in error state
	...1 ....		LFDSACR	"X'20" CICS Recovery added
	.... 1...		LFDSSAVE	"X'10" Save area exists and is pointed to by KERNSAVP
	.... ..1..		LFDSLCON	"X'08" Loop controller
	.... .1..		LFSDSFAB	"X'04" Deferred abend scheduled against this stack
(2)	HALFWORD	2	LFDSOFLN	LENGTH OF DSA
(4)	ADDRESS	4	LFDSOFDR	CHAIN BACK
(8)	ADDRESS	4		RESERVED
(C)	ADDRESS	4	LFDSOFLR	REG 14
(10)	ADDRESS	4	LFDSOFBR	REG 15
(14)	ADDRESS	4	LFDSOFR0	REG 0
(18)	ADDRESS	4	LFDSOFR1	REG 1
(1C)	ADDRESS	4	LFDSOFR2	REG 2
(20)	ADDRESS	4	LFDSOFAR	REG 3
(24)	ADDRESS	4	LFDSOFR4	REG 4
(28)	ADDRESS	4	LFDSOFR5	REG 5
(2C)	ADDRESS	4	LFDSOFR6	REG 6
(30)	ADDRESS	4	LFDSOFR7	REG 7
(34)	ADDRESS	4	LFDSOFR8	REG 8

Offset Hex	Type	Len	Name (Dim)	Description
(38)	ADDRESS	4	LFDSOFR9	REG 9
(3C)	ADDRESS	4	LFDSOFRX	REG 10
(40)	ADDRESS	4	LFDSOFRY	REG 11
(44)	ADDRESS	4	LFDSOFRCR	REG 12
(48)	ADDRESS	4	LFDSVDR	R13 OR R14 IF CRCE SET
(4C)	ADDRESS	4		Used by Kernel.
(50)	ADDRESS	4	LF DSTASN	ADDRESS OF TASK ENTRY.
(54)	ADDRESS	4	LF DSPAWN	ADDRESS OF PROCESS OWN.
(58)	ADDRESS	4	LF DSDTAB	Caller's domain entry
(5C)	FULLWORD	4	LF DSTRFL	Trace flags
(60)	ADDRESS	4	LF DSOFNB	NAB
(64)	ADDRESS	4	LF DSAPLT	A(MODULE PLIST)
(68)	ADDRESS	4		Used by Kernel.
(6C)	FULLWORD	4	LF DSSMOD	SMODE index 0=31-bit 8=24-bit
(70)	BITSTRING	1	LF DSMOD1	MODULE ID
(71)	BITSTRING	1	LF DSMOD2	SUB MODULE ID
(72)	HALFWORD	2	LF DSMODN	MOD NAME 2 CHAR
(74)	ADDRESS	4		Reserved.
(78)	ADDRESS	4		Reserved.
(7C)	ADDRESS	4		Reserved.
(80)	DBL WORD	8	LF DSUSS1 (0)	USER AREA START
(80)	DBL WORD	8	LF DSUSS2 (0)	START USER AREA AFTER COPY *

END OF STANDARD SECTION  
 Kernel Domain Table Entry Overlay. Pointed to by LF DSDTAB.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			LF DSDTE	'
(0)	CHARACTER	8		Used by Kernel
(8)	FULLWORD	4	LF DSDTEI	Domain index
(C)	CHARACTER	4		USED BY KERNEL
(10)	ADDRESS	4	LF DSDTEA	Domain anchor
(14)	CHARACTER	1	(0)	Used by Kernel

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHLFS	Continue stack dsect

## LGGF General log format

A General Log is any CICS log other than the CICS System Log. It may reside upon the MVS Logger or upon MVS SMF. Such a log comprises a sequence of contiguous blocks. A block is the unit of output when flushing the internal log buffer.

Each block comprises a block header followed by a variable number of CICS records. The format of the block header is defined by the dsect "lgbh\_block\_header".

Each CICS record comprises a record header followed by the caller data part. The record header is defined by the dsect "glrh\_record\_header".

The format of the caller data part is unknown at the Log Manager functional level. It usually comprises one or several other CICS component record headers followed by yet another embedded caller data part. The record header fields "glrh\_rec\_type" and "glrh\_rec\_compid" indicates which CICS component is to be used to define this part of the record.

If this is 'UJ', which means the record originated from an application program, then this record header is followed by a user header as defined by "cl\_user\_header".

The following diagram shows the physical layout of a General Log block.

```

general log
__ first general log block
__ __ block header (lgbh_block_header)
__ __ __ first cics record
__ __ __ __ record header (glrh_record_header)
__ __ __ __ caller data
__ __ __ __ next cics record
__ __ __ __ ...
__ __ __ __ last cics record
__ __ __ __ ...
__ next general log block
__ ...
__ last general log block
__ ...

```

This copybook defines the block header, record header, general user header, and 'start of run' record body for General Logs.

Each block starts with a block header as defined here.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	40	LGBH_BLOCK_HEADER	
(0)	STRUCTURE	40	*	
			IsA(MVSLOGBLOCKHEADER)	
(0)	CHARACTER	8	LGBH_GLOBAL_INFO	
(0)	CHARACTER	4	LGBH_BLOCK_TYPE	set to '>DFH' to
(0)	CHARACTER	1	LGBH_BT_ARROW	identify a CICS
(1)	CHARACTER	3	LGBH_BT_DFH	block
(4)	CHARACTER	4	*	
(4)	UNSIGNED	1	LGBH_LOG_TYPE	general or system log
(5)	CHARACTER	1	LGBH_FLAGS	reserved
(6)	UNSIGNED	2	LGBH_BLOCK_VER	block format version number
(8)	CHARACTER	24	LGBH_CICS_INFO	
(8)	CHARACTER	8	LGBH_GENERIC_APPLID	CICS generic applid
(10)	CHARACTER	8	LGBH_START_GMT	record time (GMT)
(18)	CHARACTER	8	LGBH_START_LOCAL	record time (LOCAL)
(20)	CHARACTER	8	LGBH_BLOCK_INFO	
(20)	CHARACTER	8	LGBH_BLOCK_NUMBER	block sequence number
(28)	CHARACTER		LGBH_DATA	records follow

```
--
-
Each record starts with a record header as defined here.
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	56	GLRH_RECORD_HEADER	
(0)	STRUCTURE	56	*	
(0)	CHARACTER	12	IsA(GENLOGRECORD)	
(0)	UNSIGNED	4	GLRH_RECORD_LENGTH	inclusive length of this record
(4)	UNSIGNED	4	GLRH_HEADER_LENGTH	inclusive length of this header
(8)	UNSIGNED	4	GLRH_REC_DATA_LEN	length of data following this header
(C)	CHARACTER	16	GLRH_TIMESTAMPS	timestamps
(C)	CHARACTER	8	GLRH_GMT	record time (GMT)
(14)	CHARACTER	8	GLRH_LOCAL	record time (LOCAL)
(1C)	CHARACTER	12	GLRH_TASK_INFO	logging task information
(1C)	CHARACTER	4	GLRH_TRAN_ID	transaction id
(20)	CHARACTER	4	GLRH_TASK_ID	task number
(24)	CHARACTER	4	GLRH_TERM_ID	terminal id
(28)	CHARACTER	12	GLRH_RECORD_ID	record identification
(28)	UNSIGNED	2	GLRH_REC_TYPE	start_of_run (sor) or user
(2A)	CHARACTER	2	GLRH_REC_COMPID	logging component id
(2C)	CHARACTER	8	GLRH_REC_JOURNAL	logging journal name
(34)	CHARACTER	4	GLRH_LGSSI	for DFHLGSSI conversion rtn
(34)	CHARACTER	1	GLRH_LGSSI_FLAGS	not set for system log
			GLRH_START_OF_TASK	equivalent to JCSPSOTK
			GLRH_START_OF_UOW	equivalent to JCSPLSTK
(35)	CHARACTER	3	GLRH_LGSSI_RSVD	reserved
(38)	CHARACTER		GLRH_REC_DATA	

```
--
-
When CICS connects to a MVS Logger General Log it writes a 'start-of-run' record to the log as the first record written during this run of CICS. This record is made up of a record header as defined above followed by the dsect "gl_sor_body".
```

NOTE: "gl\_sor\_body" is a particular case of 'caller data' referred to above.

The following diagram shows how a 'start-of-run' record appears within a General Log block.

```

general log
___ ...
___ a general log block
___ block header (lgbh_block_header)
___ first cics record
___ record header (glrh_record_header)
___ start of run record body (gl_sor_body)
___ next cics record
___ ...
___ last cics record
___ ...
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	20	GL_SOR_BODY	
(0)	STRUCTURE	20	*	
(0)	CHARACTER	20	IsA(STARTOFRUNDATA)	
(0)	CHARACTER	20	SOR_CICS_INFO	start-of-run information
(0)	CHARACTER	4	SOR_CICS_RELEASE	CICS version and release
(4)	CHARACTER	8	SOR_SPECIFIC_APPLID	CICS specific applid
(C)	CHARACTER	8	SOR_CICS_USERNAME	CICS userid

```
--
-
```

The CICS API supports writing directly to a user journal (which may be a General Log or the System Log) using the EXEC CICS WRITE JOURNALNAME command. This takes as input the journal type, user data and optional user prefix data. These elements are put together as shown in the dsect "cl\_user\_header".

NOTE: "cl\_user\_header" is a particular case of 'caller data' referred to above.

In this case "glrh\_rec\_compnd" will be set to 'UJ'.

The following diagram shows how a user header appears within a General Log record.

```

general log
__ ...
__ general log block
__ block header (lgbh_block_header)
__ first cics record
__ ...
__ next cics record
__ record header (glrh_record_header)
__ user header (cl_user_header)
__ rest of caller data
__ last cics record
__ ...
    
```

NOTE: "cl\_uh\_prefix\_length" shows the number of bytes of data that is contained in the user prefix. The user prefix data, if present, immediately follows this header, which in turn is followed by the user data.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	CL_USER_HEADER	
(0)	STRUCTURE	12	*	
	IsA(GENLOGUSER)			
(0)	UNSIGNED	4	CL_UH_LENGTH	length of structure inclusive of this field
(4)	UNSIGNED	2	CL_UH_JOURNAL_TYPE	journal type
(6)	CHARACTER	2	CL_UH_RSVD1	reserved
(8)	UNSIGNED	4	CL_UH_PREFIX_LENGTH	user prefix length
(C)	CHARACTER		CL_UH_END	user prefix data (if any) followed by user data

### Constants

Len	Type	Value	Name	Description
2	DECIMAL	1	LGBH_BLOCK_VERSION_NO	
3	CHARACTER	DFH	LGBH_BLOCK_TYPE_DFH	
1	CHARACTER	>	LGBH_BLOCK_TYPE_ARROW	
1	DECIMAL	0	LGBH_LOG_TYPE_GENERAL	
1	DECIMAL	1	LGBH_LOG_TYPE_SYSTEM	
2	DECIMAL	1	SOR_REC_TYPE	
2	DECIMAL	2	USER_REC_TYPE	



## LGMS SMF log format

A CICS user journal (not the System Log) can be defined to reside upon SMF (a special log that MVS SMF manages). This log comprises a sequence of contiguous blocks, some of which are built and written by CICS.

Each block built and written by CICS comprises a SMF block header, CICS SMF product section, followed by a CICS data section. The latter comprises of a variable number of CICS records. The format of the block header is defined by the dsect "smf\_block\_header".

The SMF CICS data section, which only shows its start address, has been included for completeness. In reality this section includes a variable number of CICS records.

Each CICS record comprise a record header followed by the caller data part. The format of the record header is defined by the dsect "glrh\_record\_header". The format of the caller data part is unknown at the Log Manager functional level. It usually comprises one or several other CICS component record headers. The record header fields "glrh\_rec\_type" and "glrh\_rec\_compid" indicates which CICS component is to be used to define this part of the record.

The following diagram shows the physical layout of an SMF log block

```

MVS SMF log
__ first log block
__ __ smf block header (smf_header)
__ __ smf cics product section (smf_product_section)
__ __ smf cics data section (smf_data_section)
__ __ __ first cics record
__ __ __ __ record header (lgrh_record_header)
__ __ __ __ caller data
__ __ __ __ next cics record
__ __ __ __ ...
__ __ __ __ last cics record
__ __ __ __ ...
__ next general log block
__ ...
__ last general log block
__ ...
    
```

This copybook defines the SMF block header. It should be used in conjunction with the General Log copybook DFHLGGFD which defines the record header and user header.

Each block starts with a block header as defined here.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	158	SMF_BLOCK_HEADER	
(0)	STRUCTURE	158	*	
			ISA(SMFLOGBLOCKHEADER)	
(0)	CHARACTER	44	SMF_HEADER	
(0)	UNSIGNED	2	SMFH_LEN	record length
(2)	UNSIGNED	2	SMFH_SEG	segment descriptor
(4)	CHARACTER	1	SMFH_FLG	operating system indicator (see constant prefixed smfh_flg below)
(5)	CHARACTER	1	SMFH_RTY	record type (see constant prefixed smfh_rty below)
(6)	CHARACTER	4	SMFH_TME	time record moved (HHMMSS+)
(A)	CHARACTER	4	SMFH_DTE	date record moved (0CYYDDD+)
(E)	CHARACTER	4	SMFH_SID	system identification
(12)	CHARACTER	4	SMFH_SSI	sub-system identification (see constant prefixed smfh_ssi below)
(16)	UNSIGNED	2	SMFH_STY	record subtype (see constant prefixed smfh_sty below)
(18)	UNSIGNED	2	SMFH_TRN	number of triplets in record
(1A)	UNSIGNED	2	SMFH_RSVD1	reserved
(1C)	UNSIGNED	4	SMFH_APS	offset to CICS product section
(20)	UNSIGNED	2	SMFH_LPS	length of CICS product section
(22)	UNSIGNED	2	SMFH_NPS	number of CICS product sections
(24)	UNSIGNED	4	SMFH_ASS	offset to CICS data section
(28)	UNSIGNED	2	SMFH_ASF	length of CICS data section
(2A)	UNSIGNED	2	SMFH_ASN	number of CICS data sections
(2C)	CHARACTER		*	
(2C)	CHARACTER	114	SMF_PRODUCT_SECTION	

Offset Hex	Type	Len	Name (Dim)	Description
(2C)	CHARACTER	2	SMFPS_VRM	record version format x'0vrrm' v = version r = release m = modification (set to &SMF in DFHSYS)
(2E)	CHARACTER	8	SMFPS_PRN	product name (generic APPLID)
(36)	CHARACTER	8	SMFPS_SPN	specific APPLID
(3E)	CHARACTER	2	SMFPS_MFL	record maintenance indicator
(40)	CHARACTER	2	SMFPS_RSVD2	reserved
(42)	CHARACTER	52	SMFPS_RSVD3	reserved
(76)	CHARACTER	8	SMFPS_JNM	journal name
(7E)	CHARACTER	8	SMFPS_JBN	jobname
(86)	CHARACTER	4	SMFPS_RSD	job date
(8A)	CHARACTER	4	SMFPS_RST	job time
(8E)	CHARACTER	8	SMFPS_UIF	user identification
(96)	CHARACTER	8	SMFPS_PDN	operating system product level
(9E)	CHARACTER		*	
(9E)	CHARACTER		SMF_DATA_SECTION	CICS records
(9E)	CHARACTER		SMFDS_DATA	records follow

### Constants

Len	Type	Value	Name	Description
4	CHARACTER	CICS	SMFH_SSI_CICS	sub-system identification
1	CHARACTER	ú	SMFH_FLG_ESA4	MVS/ESA V4
1	CHARACTER	>	SMFH_RTY_110	record type 110 for CICS
2	DECIMAL	0	SMFH_STY_LG	for journaling
2	DECIMAL	1	SMFH_STY_MN	for monitoring
2	DECIMAL	2	SMFH_STY_ST	for statistics
4	DECIMAL	2	SMFH_NUMBER_TRIPLETS	
4	DECIMAL	0	SMFH_MFL_ID	
2	HEX	0530	SMFPS_VRM_VAL	
2	DECIMAL	0	SMFPS_MFL_0	
4	DECIMAL	44	SMFH_PRD_SECT_OFFSET	
4	DECIMAL	114	SMFH_PRD_SECT_LENGTH	
4	DECIMAL	1	SMFH_PRD_SECT_NUMBER	
4	DECIMAL	158	SMFH_DATA_SECT_OFFSET	
4	DECIMAL	0	SMFH_DATA_SECT_LENGTH	
4	DECIMAL	1	SMFH_DATA_SECT_NUMBER	
4	DECIMAL	32756	SMF_MAX_BLOCK_LEN	
4	DECIMAL	32598	SMF_MAX_DATA_SECTION_LEN	

## LGRDS Log manager journal statistics

CONTROL BLOCK NAME = DFHLGRDS  
 DESCRIPTIVE NAME = CICS Log Manager Journal Statistics  
 CICS level at which this module was last updated  
 FUNCTION =  
 This data area contains journal statistics provided by the Log Manager Domain.  
 It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics exit.  
 There is a single instance of this data block.  
 LIFETIME =  
 This data block is created by the Log Manager Domain to store statistics to be passed to the user in response to a request for statistics. The storage is released when the user task is detached.  
 The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.  
 STORAGE CLASS =  
 LOCATION =  
 The user is passed a pointer to the head of the storage block.  
 INNER CONTROL BLOCKS = none  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Domain call buffer  
 EXTERNAL REFERENCES = none  
 DATA AREAS = none  
 CONTROL BLOCKS = from logger domain  
 GLOBAL VARIABLES (Macro pass) = none  
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHLGRDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHLGRDS	Log Mgr Resid stats record
(0)	HALFWORD	2	LGRLEN	Record length
(2)	ADDRESS	2	LGRID	Log Manager stats id
(4)	CHARACTER	1	LGRDVERS	Log Manager stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	LGRJNLNAME	Journal name
(10)	BITSTRING	1	LGRJTYPE	Journal type (MVS,SMF,Dummy)
(11)	CHARACTER	1		Reserved
(12)	CHARACTER	26	LGRSTREAM	Log stream name
(2C)	FULLWORD	4	LGRWRITES	No of journal writes
(30)	BITSTRING	8	LGRBYTES	Total No of bytes written
(38)	FULLWORD	4	LGRBUFLSH	No of buffer flush requests
(3C)	CHARACTER	8		Reserved
	.1.. .1..		LGREND	""
	.1.. .1..		LGRDLEN	""-LGRLEN" Record length

Constants that denote a LG stats record

.1.1	11.1	LGRIDR	"93" Log Manager resid stats id
....	...1	LGRVERS	"X'01" Record version number

LGRJTYPE enumeration

....	...1	LGRJTYPMVS	"1" MVS log stream
....	..1.	LGRJTYPESMF	"2" SMF log
....	..11	LGRJTYPEDMY	"3" Dummy log

## LGSDS Log manager logstream statistics

CONTROL BLOCK NAME = DFHLGSDS  
 DESCRIPTIVE NAME = CICS Log Manager Logstream Statistics  
 FUNCTION =  
 This data area contains logstream statistics provided by the Log Manager Domain.  
 It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics exit.  
 There is a single instance of this data block.

LIFETIME =  
 This data block is created by the Log Manager Domain to store statistics to be passed to the user in response to a request for statistics. The storage is released when the user task is detached.  
 The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.

STORAGE CLASS =  
 LOCATION =  
 The user is passed a pointer to the head of the storage block.

INNER CONTROL BLOCKS = none

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Domain call buffer

EXTERNAL REFERENCES = none  
 DATA AREAS = none  
 CONTROL BLOCKS = from logger domain  
 GLOBAL VARIABLES (Macro pass) = none

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHLGSDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHLGSDS	Log Mgr Resid stats record
(0)	HALFWORD	2	LGSLLEN	Record length
(2)	ADDRESS	2	LGSID	Log Manager logstream stats id
(4)	CHARACTER	1	LGSDVERS	Log Manager stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	26	LGSSTRNAM	Log stream name
(22)	CHARACTER	2		Reserved
(24)	FULLWORD	4	LGSWRITES	No of log writes
(28)	BITSTRING	8	LGSBYTES	Total No of bytes written
(30)	FULLWORD	4	LGSCUFWTRS	Current number of force waiters
(34)	FULLWORD	4	LGSPKFWTRS	Peak number of force waiters
(38)	FULLWORD	4	LGSTFCWAIT	Total number of force waits
(3C)	FULLWORD	4	LGSBUFWAIT	No of waits due to buffer full
(40)	FULLWORD	4	LGSBRWSTRT	No of log browse starts
(44)	FULLWORD	4	LGSBRWREAD	No of log browse reads
(48)	FULLWORD	4	LGSDELETES	No of log deletes
(4C)	FULLWORD	4	LGSRTYERRS	No of retryable errors
(50)	FULLWORD	4	LGSBUFAPP	No of buffer append reqs
(54)	CHARACTER	1	LGSSYSLG	System log flag
(55)	CHARACTER	1	LGSDONLY	DASD only flag
(56)	CHARACTER	2		Reserved
(58)	CHARACTER	16	LGSSTRUC	CF structure name
(68)	FULLWORD	4	LGSMAXBL	Max block length
(6C)	FULLWORD	4	LGSRETPD	Data retention period
(70)	CHARACTER	1	LGSAUTOD	Data auto delete flag
(71)	CHARACTER	3		Reserved
(74)	CHARACTER	4		Reserved
(78)	CHARACTER	4		Reserved
.111 11..			LGSEND	""
.111 11..			LGSDSLEN	""-LGSLLEN" Record length

Constants that denote a LG logstream stats record

.1.1 111.	LGSIDR	"94" Log Manager resid stats id
.... ...1	LGSDVERS	"X'01" Record version number
.... ...1	LGSSLYES	"X'01" System log flag - yes
.... ..1.	LGSSLNO	"X'02" System log flag - no
.... ...1	LGSDOYES	"X'01" DASD only log stream - yes
.... ..1.	LGSDONO	"X'02" DASD only log stream - no
.... ...1	LGSADYES	"X'01" Auto delete log stream - yes
.... ..1.	LGSADNO	"X'02" Auto delete log stream - no

## LLDC Tc local logical device code table

CONTROL BLOCK NAME = DFHLLDC  
 DESCRIPTIVE NAME = CICS (TC) Local Logical Device Code Table  
 FUNCTION =  
     LOCAL LOGICAL DEVICE CODE  
     AVAILABILITY LIST  
 The Local Logical Device Code (LLDC) is an optional table that is used to override values specified in the System Logical Device Code (SLDC) table. The LLDC table is generated by the DFHTCT TYPE=TERMINAL or DFHTCT TYPE=LDCLIST macro instructions.  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHLLDC	
(0)	BITSTRING	1	LLDCFLGS	FLAGS
	1... ..		LLDCEXT	"X'80" EXTENDED LOCAL LIST
(0)	CHARACTER	2	LLDCMN	LOGICAL DEVICE CODE MNEMONIC
(2)	BITSTRING	1	LLDCCD	LOGICAL DEVICE CODE
	.... ..11		LLDCEND	"" END OF LOCAL LOGICAL DEVICE CODE ENTRY
	.... ..11		LLDCLEN	""-DFHLLDC" LENGTH OF LOCAL LDC ENTRY

## LUC Parameter list

CONTROL BLOCK NAME = DFHLUCPS  
 DESCRIPTIVE NAME = CICS DFHLUC Parameter List  
 FUNCTION =  
     Contains the request and response for modules called by the DFHLUC macro.  
     When the DFHLUC macro is used to invoke a LU6.2 request appropriate fields in the parameter list are set, and module DFHZARL is invoked. All information passed to and from DFHZARL is passed in this parameter list.  
     It is also used to pass information from DFHZARL to DFHZERH and DFHZARR for certain requests, and to DFHZXR3 for LU6.2 transaction routing.  
 LIFETIME =  
 STORAGE CLASS =  
 LOCATION =  
     The control block is located in the LIFO storage of the module which issues the DFHLUC macro; it may also be copied into the LIFO of the called module.  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = None  
 CONTROL BLOCKS = None  
 GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	20	DFHLUCDS	
The first part of the parameter list is common to all requests				
(0)	CHARACTER	1	LUCOPN0	MAJOR REQUEST BYTE
(1)	CHARACTER	1	LUCOPN1	MINOR REQUEST BYTE 1
(1)	CHARACTER		*	ALLOCATE / ALLOCATE PRIV
	1... ..		LUCNOQ	NOQUEUE specified
	.1.. ....		LUCASYSV	LUCASYS is valid
	..1. ....		*	
	...1 ....		*	
	.... 1...		LUCAPRFV	APROFILE specified
	.... .1..		LUCNPRFV	NPROFILE specified
	.... ..1		*	
	.... ...1		*	
(1)	CHARACTER		*	INITIAL CALL, SEND, SEND-FMH

Offset Hex	Type	Len	Name (Dim)	Description
	1... ..		LUCFROM	Initial data provided or application data provided
	.1. ....		LUCLISTV	LLID data specified
	..1. ....		*	
	...1 ....		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	.... ...1		*	
(1)	CHARACTER		*	ISSUE ABEND / ISSUE ERROR
	1... ..		LUCABUSE	User invocation
	.1. ....		*	
	..1. ....		*	
	...1 ....		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	.... ...1		*	
(1)	CHARACTER		*	ISSUE ATTACH request
	1... ..		LUCNOCHK	TPN check not required
	.1. ....		*	
	..1. ....		*	
	...1 ....		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	.... ...1		*	
(1)	CHARACTER		*	RECEIVE / RECEIVE FMH request
	1... ..		LUCSET	SET option specified
	.1. ....		LUCBELOW	DATALOC option
	..1. ....		LUCNOLA	Look Ahead option
	...1 ....		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	.... ...1		*	
(1)	CHARACTER		*	SYNC-COMMITTED request
	1... ..		LUCEXP	Explicit FORGET specified
	.1. ....		LUCIMPF	Implicit FORGET specified
	..1. ....		*	
	...1 ....		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	.... ...1		*	
(1)	CHARACTER		*	FREE request
	1... ..		LUCFRIMP	IMPLICIT free
	.1. ....		*	
	..1. ....		*	
	...1 ....		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	.... ...1		*	
(2)	CHARACTER	1	LUCOPN2	MINOR REQUEST BYTE 2
(2)	CHARACTER		*	ALLOCATE / ALLOCATE-PRIV
	1... ..		LUCMODNV	LUCMODNM is valid
	.1. ....		LUCATI	'ATT' Allocate
	..1. ....		LUCPRIV	ALLOCATE PRIV request
	...1 ....		LUCNETV	NETNAME= specified
	.... 1...		LUCMNPRF	Modename set to use profile modename
	.... .1..		*	
	.... ..1.		*	
	.... ...1		*	
(2)	CHARACTER		*	ISSUE ERROR / ISSUE ABEND
	1... ..		LUCAMSGV	LUCAMSG, LUCLMSG valid
	.1. ....		LUCSENSV	LUCSENSE is valid
	..1. ....		LUCMSGNV	LUCMSGNO is valid
	...1 ....		*	
	.... 1...		LUCSEND	STATE=SEND was specified
	.... .1..		LUCSRECV	STATE=RECEIVE specified
	.... ..1.		*	
	.... ...1		*	
(2)	CHARACTER		*	RECEIVE request
	1... ..		LUCLLID	receive LLID
	.1. ....		LUCBUFR	receive BUFFER
	..1. ....		LUCIMMED	SUBTYPE=IMMEDIATE specified
	...1 ....		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	.... ...1		*	
(2)	CHARACTER		*	SEND / SEND-FMH request
	1... ..		LUCNVIT	INVITE option
	.1. ....		LUCLAST	LAST option (also used for SYNC- PREPARE and SYNC-REQ-COMMIT
	..1. ....		LUCCONF	CONFIRM option
	...1 ....		LUCFLSH	WAIT (or FLUSH ) option

Offset Hex	Type	Len	Name (Dim)	Description
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	.... ...1		*	
(3)	CHARACTER	1	LUCOPN3	MINOR REQUEST BYTE 3
(3)	CHARACTER		*	
	1... ..		LUCSYSCL	System call
	.1.. ..		LUCNOSIG	Do not return SIGNAL (Rec)
	..1. ....		LUCNOSF	Do not return sess fails
	...1 ....		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	.... ...1		*	
(4)	CHARACTER	6	LUCRCODE	FEEDBACK FOR REQUEST RELATED ERRORS
(4)	CHARACTER	1	LUCRCOD1	MAJOR ERROR BYTE
(5)	CHARACTER	1	LUCRCOD2	MINOR ERROR BYTE
(6)	CHARACTER	1	LUCRCOD3	MINOR ERROR BYTE
(7)	CHARACTER	1	LUCRCOD4	Reserved
(8)	CHARACTER	1	LUCRCOD5	Reserved
(9)	CHARACTER	1	LUCRCOD6	Reserved
(A)	CHARACTER	6	LUCSDBLK	FEEDBACK FOR Conversation Related Errors
(A)	CHARACTER	1	LUCFDBK1	STORAGE DEFINITION
	1... ..		LUCCIDCM	1 - DATA COMPLETE
	.1.. ..		LUCCISYN	1 - SYNCPOINT REQ'D
	..1. ....		LUCCIFRE	1 - FREE REQUESTED
	...1 ....		LUCCIREC	1 - RECEIVE REQUIRED
	.... 1...		LUCCISIG	1 - SIGNAL RECEIVED
	.... .1..		LUCCICON	1 - CONFIRMATION REQ'D
	.... ..1.		LUCCIERR	1 - ERROR RECEIVED
	.... ...1		LUCCIRBK	1 - ROLLBACK REQUESTED
(B)	CHARACTER	1	LUCFDBK2	Negative response received
	1... ..		LUCCINEG	RECEIVE IMMEDIATE was unsuccessful
	.1.. ..		LUCCINSU	
	..1. ....		*	
	...1 ....		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	.... ...1		*	
(C)	CHARACTER	4	LUCCDRCD	ERROR CODE RECEIVED
(10)	ADDRESS	4	LUCTTERQ	ADDRESS OF TCTTE FOR THE CURRENT REQUEST

The second part of the parameter list is used by some requests only, and in different ways by each request:

(14)	CHARACTER		LUCORG	ADDITIONAL PARAMETERS ARE OVERLAID ON LUCORG
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Overlay for ALLOCATE and ALLOCATE-PRIV requests

Offset Hex	Type	Len	Name (Dim)	Description
(14)	STRUCTURE	52	*	
inputs				
(14)	ADDRESS	4	LUCASYS	SYSID (TCTSE) ADDRESS
(18)	CHARACTER	4	LUCNSYS	SYSID (TCTSE) NAME
(1C)	CHARACTER	8	LUCMODNM	MODENAME
outputs				
(24)	ADDRESS	4	LUCTTEAL	ADDRESS OF ALLOCATED TCTTE
further inputs				
(28)	ADDRESS	4	LUCAPROF	Address of PROFILE
(2C)	CHARACTER	8	LUCNPROF	Name of PROFILE
(34)	FULLWORD	4	LUCNETNL	Netname length
(38)	CHARACTER	8	LUCNETNM	Netname
(40)	CHARACTER	8	LUCMGAL	Mode group allocated

Overlay for EXTRACT PROCESS requests

Offset Hex	Type	Len	Name (Dim)	Description
(14)	STRUCTURE	92	*	
outputs				
(14)	CHARACTER	1	LUCEPCON	CONVTYPE SPECIFIED IN LU6.2 ATTACH FMH RECEIVED

Offset Hex	Type	Len	Name (Dim)	Description
(15)	CHARACTER	1	LUCEPSYN	SYNCLEVEL SPECIFIED IN LU6.2 ATTACH FMH RECEIVED
(16)	CHARACTER	1	LUCTTPNL	ACTUAL LENGTH OF TPN IN LU6.2 ATTACH FMH RECEIVED
(17)	CHARACTER	64	LUCTTPN	TPN IN LU6.2 ATTACH FMH RECEIVED
(57)	CHARACTER	1	*	alignment
(58)	ADDRESS	4	LUCPIPDA	address of PIP list
(5C)	HALFWORD	2	LUCPIPDL	LENGTH OF PIPLIST
(5E)	CHARACTER	8	LUCMODEN	Mode name
(66)	HALFWORD	2	LUCLUNML	Length of fully qualified LU name
(68)	CHARACTER	8	LUCLUNAM	Qualified LU name

Overlay for FREE STORAGE request

Offset Hex	Type	Len	Name (Dim)	Description
(14)	STRUCTURE	4	*	
inputs				
(14)	ADDRESS	4	LUCASTG	ADDR STORAGE TO BE FREED

Overlay for GET-MY-LUNAME request

Offset Hex	Type	Len	Name (Dim)	Description
(14)	STRUCTURE	4	*	
outputs				
(14)	ADDRESS	4	LUCALUNM	ADDRESS OF QUALIFIED LUNAME - ONE BYTE LENGTH FOLLOWED BY QUALIFIED LUNAME

Overlay for ISSUE-ABEND and ISSUE-ERROR requests

Offset Hex	Type	Len	Name (Dim)	Description
(14)	STRUCTURE	12	*	
inputs				
(14)	ADDRESS	4	LUCAMSG	MESSAGE TEXT ADDRESS
(18)	HALFWORD	2	LUCLMSG	MESSAGE TEXT LENGTH
(1A)	CHARACTER	2	LUCMSGNO	MESSAGE NUMBER
(1C)	CHARACTER	4	LUCSENSE	SENSE CODE

Overlay for ISSUE-ATTACH request

Offset Hex	Type	Len	Name (Dim)	Description
(14)	STRUCTURE	68	*	
inputs				
(14)	CHARACTER	1	LUCRQCON	CONVTYPE REQUIRED IN LU6.2 ATTACH FMH SENT
(15)	CHARACTER	1	LUCRQSYN	SYNCLEVEL REQUIRED IN LU6.2 ATTACH FMH SENT
(16)	CHARACTER	1	LUCFTPNL	LENGTH OF TPN FOR LU6.2 ATTACH FMH SENT
(17)	CHARACTER	64	LUCFTPN	TPN FOR LU6.2 ATTACH FMH SENT
(57)	CHARACTER	1	LUCPIP	PIP DATA TO BE SENT
	1... ....		*	
	.1.. ....		*	
	..1. ....		*	
	...1 ....		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	.... ...1		LUCPIPI	1 - PIP DATA PRESENT



Overlay for RECEIVE (R) and RECEIVE-FMH (RF) requests

Offset Hex	Type	Len	Name (Dim)	Description
(14)	STRUCTURE	16	*	
inputs				
(14)	ADDRESS	4	LUCTAREA	INTO AREA ADDR (R, RF)
(18)	FULLWORD	4	LUCTAREL	MAX. APPL LENG (R, RF)
outputs				
(1C)	ADDRESS	4	LUCBFPTR	SET DATA ADDR (R, RF)
(20)	FULLWORD	4	LUCTDATL	ACT. DATA LENG (R, RF)

Overlay for SEND (S), SEND-FMH (SF) and INITIAL-CALL requests

Offset Hex	Type	Len	Name (Dim)	Description
(14)	STRUCTURE	16	*	
inputs				
(14)	ADDRESS	4	LUCFDATA	DATA ADDRESS (S, SF)
(18)	FULLWORD	4	LUCFDATL	DATA LENGTH (S, SF)
(1C)	ADDRESS	4	LUCLISTA	LIST address (Send)
(20)	FULLWORD	4	LUCLISTS	LIST size

Overlay for SYNC-PREPARE request

Offset Hex	Type	Len	Name (Dim)	Description
(14)	STRUCTURE	1	*	
outputs				
(14)	CHARACTER	1	LUCSPRET	RESULT OF PREPARE
	1... ..		LUCSPRQD	RQD2 received
	.1. ....		LUCSPFGT	FORGET received
	..1. ....		LUCSPHM	HM Received
	...1 ....		LUCSPVUR	Vote unreliable received
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	.... ...1		*	

Overlay for SYNC-REQ-COMMIT request

Offset Hex	Type	Len	Name (Dim)	Description
(14)	STRUCTURE	1	*	
outputs				
(14)	CHARACTER	1	LUCSRRET	RESULT OF REQUEST COMMIT
	1... ..		LUCSRDR2	DR2 received
	.1. ....		LUCSRNVL	Invalid response received
	..1. ....		LUCSRHM	HM received
	...1 ....		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	.... ...1		*	

Overlay for SYNC-COMMITTED request

Offset Hex (14)	Type	Len	Name (Dim)	Description
outputs				
(14)	CHARACTER	1	LUCSCRET	RESULT OF COMMITTED
	1... ..		LUCSCFGT	FORGET received
	.1.. ..		LUCSCNVL	Invalid response received
	..1. ....		LUCSCHM	HM Received
	...1 ....		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	.... ...1		*	

### Constants

Len	Type	Value	Name	Description
1	HEX	01	LUCALLOC	ALLOCATE REQUEST
1	HEX	02	LUCSIG	TEST-SIGNAL request
1	HEX	03	LUCXTP	EXTRACT PROCESS REQUEST
1	HEX	05	LUCFREE	FREE REQUEST
1	HEX	06	LUCIABN	ISSUE ABEND REQUEST
1	HEX	07	LUCIATT	ISSUE ATTACH REQUEST
1	HEX	08	LUCICON	ISSUE CONFIRMATION REQ
1	HEX	09	LUCIERR	ISSUE ERROR REQUEST
1	HEX	0A	LUCISIG	ISSUE SIGNAL REQUEST
1	HEX	0B	LUCRECV	RECEIVE REQUEST
1	HEX	0C	LUCSEND	SEND REQUEST
1	HEX	0D	LUCWAIT	WAIT REQUEST
1	HEX	10	LUCFRST	FREE STORAGE REQUEST
1	HEX	11	LUCICAL	INITIAL CALL REQUEST
1	HEX	12	LUCPRVAL	ALLOCATE-PRIV REQUEST
1	HEX	13	LUCPREP	SYNC PREPARE REQUEST
1	HEX	14	LUCRQCM	SYNC REQUEST COMMIT REQ
1	HEX	15	LUCMTD	SYNC COMMITTED REQUEST
1	HEX	16	LUCFGET	SYNC FORGET REQUEST
1	HEX	18	LUCGLUN	Get LUNAME request
1	HEX	19	LUCRBCK	SYNC ROLLBACK REQUEST
1	HEX	1A	LUCSFMH	SEND FMH request
1	HEX	1B	LUCRFMH	RECEIVE-FMH REQUEST
1	HEX	1C	LUCUNBDC	UNBIND-CLEANUP request
1	HEX	1D	LUCISPRE	ISSUE-PREPARE request
1	HEX	20	LUCRERP	ERP FMH RECEIVED
1	HEX	21	LUCRNEG	NEG RESP RECEIVED
1	HEX	22	LUC LSDST	CLSDST call
1	HEX	23	LUCPRGSD	PURGE-SEND call

The following constants define the values of the Major Error byte LUCRCOD1:

1	HEX	01	LUCESYSI	SYSID error
<p>The following values of LUCRCOD2 qualify this value of LUCRCOD1: '08'X SYSID is out of service This is further qualified by the following values of LUCRCOD3: '00'X Local queueing was not attempted '04'X Local queueing did not succeed '0C'X SYSID is not known in TCT This is further qualified by the following values of LUCRCOD3: '00'X SYSID name is not known '04'X SYSID name is not that of a TCTSE '08'X SYSID.MODENAME is not known '0C'X SYSID.PROFILE is not known</p>				
1	HEX	02	LUCEYSYB	SYSBUSY error
1	HEX	03	LUCEINVR	INVREQ ERROR

The following values of LUCRCOD2 qualify this value of LUCRCOD1: '00'X Session is not defined as LU6.2 '04'X Conervation level is wrong '08'X State error '0C'X Synclevel cannot be supported '0D'X Negative receive length (LUCTAREL) '10'X LL count error '11'X LL is invalid '12'X LL is incomplete '14'X Invalid request '18'X TPN send check failed '24'X Invalid request to ISSUE PREPARE

Equates for LUCRCOD2 qualifiers documented above

1	HEX	00	LUCERC00	
1	HEX	01	LUCERC01	
1	HEX	02	LUCERC02	
1	HEX	03	LUCERC03	
1	HEX	04	LUCERC04	
1	HEX	05	LUCERC05	
1	HEX	06	LUCERC06	
1	HEX	08	LUCERC08	
1	HEX	0C	LUCERC0C	
1	HEX	0D	LUCERC0D	Negative receive length
1	HEX	10	LUCERC10	
1	HEX	14	LUCERC14	

Len	Type	Value	Name	Description
1	HEX	18	LUCERC18	
1	HEX	1C	LUCERC1C	
1	HEX	20	LUCERC20	
1	HEX	24	LUCERC24	
1	HEX	04	LUCENTAL	NOTALLOC error
1	HEX	05	LUCELENG	LENGERR ERROR
1	HEX	06	LUCEPROF	PROFILE not found
1	HEX	11	LUCERLLE	Invalid LL
1	HEX	12	LUCERLLI	Incomplete LL
Constant values for LUCRQCON (also used for LUCEPCON)				
1	HEX	00	LUCUNMP	CONVTYPE IS UNMAPPED (GDS)
1	HEX	01	LUCMAPD	CONVTYPE IS MAPPED (ELM)
Constant values for LUCRQSYN (also used for LUCEPSYN)				
1	HEX	00	LUCSYNC0	SYNCLEVEL 0 (NOSYNC)
1	HEX	01	LUCSYNC1	SYNCLEVEL 1 (CONFIRM)
1	HEX	02	LUCSYNC2	SYNCLEVEL 2 (SYNCP)
Define the length of the control block				
4	DECIMAL	112	LUCLSTG	

## LUM Parameter list

CONTROL BLOCK NAME = DFHLUMPS  
 DESCRIPTIVE NAME = CICS DFHLUCM Parameter List  
 FUNCTION =  
 Contains the request and response for modules called by the DFHLUCM macro.  
 When the DFHLUCM macro is used to invoke a LU6.2 migration request, appropriate fields in the parameter list are set, and module DFHZARM is invoked.  
 LIFETIME =  
 STORAGE CLASS =  
 LOCATION =  
 The control block is located in the LIFO storage of the module which issues the DFHLUCM macro.  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = None  
 CONTROL BLOCKS = None  
 GLOBAL VARIABLES (Macro pass) =

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	DFHLUMDS	
MAJOR AND MINOR REQUEST BYTES				
(0)	BITSTRING	1	LUMOPN0	MAJOR REQUEST BYTE
(1)	BITSTRING	1	LUMOPN1	MINOR REQUEST BYTE 1
(2)	BITSTRING	1	LUMOPN2	MINOR REQUEST BYTE 2
(3)	BITSTRING	1	LUMOPN3	MINOR REQUEST BYTE 3
OTHER DEFINITIONS				
(4)	ADDRESS	4	LUMTTERQ	ADDRESS OF TCTTE FOR THE CURRENT REQUEST
(8)	CHARACTER	4	LUMCDRCD	ERROR CODE, IF ANY, THAT HAS OCCURRED
(C)	CHARACTER	4	LUMPARMS	OVERLAY FOR ADDITIONAL PARAMETERS WHERE NEEDED
(C)	CHARACTER	2	LUMGDSID	GDS ID THAT IS EITHER UNKNOWN OR UNSUPPORTED
(E)	CHARACTER	2	*	Reserved

## Constants

Len	Type	Value	Name	Description
1	HEX	01	LUMSEND	SEND REQUEST
1	HEX	02	LUMWAIT	WAIT REQUEST
1	HEX	03	LUMRECV	RECEIVE REQUEST
1	HEX	04	LUMSIGN	SIGNAL REQUEST
1	HEX	06	LUMFREE	FREE REQUEST
1	HEX	07	LUMBDID	INVALID ID REQUEST
1	HEX	08	LUMRSET	RESET REQUEST

## LUSDS Zcp LU services manager parameter

CONTROL BLOCK NAME = DFHLUSPS  
DESCRIPTIVE NAME = CICS (ZCP) LU services manager parameter list.

### FUNCTION =

This control block is used to pass parameter information to the LU services manager.

Note that the PLX version of this control block differs somewhat from the assembler version:

1. The assembler version is prefixed by two halfwords which are used by DFHIC GET/PUT. Users of the PLX version are expected to manage define that extra storage themselves. This apparent snag is balanced by the fact that the PLX version is more useful for command level usage, where the length is logically separated from the data
2. The assembler version does not define the DCE signoff structure, since no assembler code uses it

LIFETIME =

STORAGE CLASS =

LOCATION =

INNER CONTROL BLOCKS =

NOTES :

DEPENDENCIES = S/370

RESTRICTIONS =

MODULE TYPE = Control block definition

EXTERNAL REFERENCES =

DATA AREAS =

CONTROL BLOCKS =

GLOBAL VARIABLES (Macro pass) =

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	DFHLUSPS	
(0)	CHARACTER	20	LUS_PV_PARM_LIST	2@L4D
(0)	BITSTRING	1	LUSTYPE	CALL TYPE
(1)	BITSTRING	1	*	Reserved
(2)	HALFWORD	2	LUSUSERL	USERID II(SIGNOFF)
(4)	CHARACTER	4	LUSNSYS	SYSID NAME
(8)	CHARACTER	8	LUSUSER	USERID (SIGNOFF)
(10)	ADDRESS	4	LUSURDA	A(URD)
(0)	CHARACTER	*	LUS_DCE_PARM_LIST	
(0)	CHARACTER	4	LUS_IDENTIFIER	identifies the data
(4)	UNSIGNED	1	LUS_ITEM_COUNT	number of UUIDs
(5)	CHARACTER	54	UUID_ENTRIES (*)	
(5)	UNSIGNED	1	LUS_TABLE_FLAG	LOFT or LOTT table
(6)	CHARACTER	4	LUS_CONNECTION	connection id
(A)	CHARACTER	16	LUS_CURRENT_UUID	Current uuid
(1A)	CHARACTER	32	LUS_PARTNER_UUIDS	
(3A)	UNSIGNED	1	LUS_MECHANISM_ID	Partners uuids mechanism

## Constants

Len	Type	Value	Name	Description
1	HEX	05	LUSRSYNC	RESYNC
1	HEX	06	LUSOFF	SIGNOFF
1	HEX	07	LUSTOUT	TIMEOUT

The following constant defines the values of LUS\_IDENTIFIER

4	CHARACTER	*DCE	LUS_DCE
---	-----------	------	---------

The following constants define the values of LUS\_TABLE\_FLAG

1	HEX	01	LUS_SIGNED_ON_TO
1	HEX	02	LUS_SIGNED_ON_FROM

The following constant defines the values of LUS\_MECHANISM\_ID0

1	HEX	01	LUS_DCE_TICKET
---	-----	----	----------------

## MAP BMS map object DSECT

MODULE NAME = DFHMAPDS  
 DESCRIPTIVE NAME = CICS/ESA BMS MAP OBJECT DSECT  
 DUAL LANGUAGE DSECT  
 FUNCTION = DUAL LANGUAGE DSECT FOR THE BMS MAP OBJECT. CONTAINS  
 SEPARATE SECTIONS FOR THE MAPSET HEADER, THE TAB MAP,  
 THE MAP HEADER, THE MAPNAME ALIAS EXTENSION AREA, AND  
 THE FIELD SPECIFICATION.  
 THE MAP OBJECT IS BUILT BY THE MAP DEFINITION MACROS  
 ON ASSEMBLING A MAP SPECIFYING SYSPARM=MAP. IT IS  
 STORED IN THE PROGRAM LIBRARY WITH A PPT ENTRY. IT IS  
 LOADED INTO MAIN MEMORY BY DFHMCP.  
 THE MAP OBJECT IS REFERENCED BY BMS MODULES.

NOTES :

DEPENDENCIES = S/370  
 RESTRICTIONS = NONE  
 MODULE TYPE = Control Block  
 EXTERNAL REFERENCES = NONE  
 MACROS = NONE

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	DFHMAPDS	DUMMY SECTION - MAP DESCRIPTION
MAP SET SPECIFICATIONS				
(0)	CHARACTER	8	BMSNAME	MAP SET NAME
(8)	UNSIGNED	1	BMSTRL	PAGE OVERFLOW TRAILER LENGTH
(9)	CHARACTER	1	*	RESERVED
(A)	CHARACTER	2	BMSDELDM	DEFAULT LDC MNEMONIC
(C)	CHARACTER		BMSMSHEA	MAP SET HEADER ENDING ADDRESS

### TAB FORMAT MAP SPECIFICATIONS

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	18	BMSTABM	
FIELDS ARE SEQUENCE SENSITIVE WITH NORMAL MAP				
(0)	CHARACTER	1	BMSMTI	MAP TYPE INDICATOR
(1)	CHARACTER	3	*	RESERVED
(4)	BITSTRING	1	BMSTFMI	TAB MAP INDICATOR
	1... ..		*	
	.1.. ..		BMSTFMV	VERTICAL TAB MAP
	..1. ....		BMSTFMH	HORIZONTAL TAB MAP
(5)	CHARACTER	3	*	RESERVED
(8)	CHARACTER	8	BMSTFN	TAB MAP NAME
(10)	HALFWORD	2	BMSTFL	TAB MAP LENGTH
(12)	CHARACTER		BMSTFEA	ENDING ADDRESS

### MAP SPECIFICATIONS

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	79	BMSMAPH	
FIELDS ARE SEQUENCE SENSITIVE WITH TAB FORMAT MAP				
(0)	HALFWORD	2	BMSMHLL	MAP HEADER LENGTH 0 FOR PRE1.7 MAPS X'8100' FOR TAB MAPS
(0)	CHARACTER	1	BMSMT	MAP TYPE CODE
(1)	CHARACTER	1	*	RESERVED
(2)	CHARACTER	2	BMSIPR	NAME OF INPUT PARTITION
(4)	ADDRESS	4	BMSMDA	MAP DATA ADDRESS
(4)	CHARACTER	2	BMSOPR	NAME OF OUTPUT PARTITION
(6)	CHARACTER	2	BMSAPR	NAME OF ACTIVE PARTITION
(8)	CHARACTER	8	BMSMNAME	MAP NAME
(10)	HALFWORD	2	BMSMS	MAP LENGTH, INCLUDING ANY MAP HEADER EXTENSION AREA
(12)	HALFWORD	2	BMSMSSL	IF BMSMODE(BMSMHEXT) IS SET ON THEN THIS IS THE OFFSET OF THE MAP HEADER EXTENSION AREA FROM THE START OF THE MAP HEADER. ON ENTRY TO DFHML1 IT HOLDS (NUMBER OF FIELDS)*10 AND DFHML1 USES THIS FIGURE OTHERWISE IT IS IGNORED
(14)	HALFWORD	2	BMSMSI	INPUT WORK AREA LENGTH
(16)	HALFWORD	2	BMSMSO	OUTPUT WORK AREA LENGTH
(18)	CHARACTER	1	BMSMODE	MAP DESCRIPTOR FLAG BYTE
	1... ..		BMSMODO	MODE = OUT
	.1... ..		BMSMODI	MODE = IN
	..1... ..		BMSMHEXT	THIS MAP OR MAP COPY HAS A MAP HEADER EXTENSION AREA
	...1... ..		*	
	.... 1...		BMSMODOF	THIS MAP ELIGIBLE FOR OUTBOARD FORMATING, IF ON AT ASSEMBLY TIME. IF ON IN M32 - MAP IS USED FOR OUTBOARD FORMAT
	.... .1..		BMSMODOR	THIS MAP (COPY) WHICH IS USED WITH AN OUTBOARD FORMAT HAS BEEN RELOCATED BY PBP. SET BY PBP, TESTED BY M32
	.... ..1.		BMSMODTC	THIS MAP (COPY) ALSO CONTAINS A TIOA COPY
	.... ...1		BMSDATB	DATA = BLOCK
(19)	CHARACTER	1	BMSWCC	3270 WRITE CONTROL CHARACTER
(1A)	HALFWORD	2	BMSCURSR	3270 CURSOR POSITION
(1C)	CHARACTER	1	BMSMARG	MAP MARGIN
	1... ..		*	
	.1... ..		*	
	..1... ..		*	
	...1... ..		*	
	.... 1...		BMSMARBG	JUSTIFY = BOTTOM
	.... .1..		BMSMARGR	JUSTIFY = RIGHT
	.... ..1.		BMSMARGL	JUSTIFY = LAST
	.... ...1		BMSMARGF	JUSTIFY = FIRST
(1D)	UNSIGNED	1	BMSML	MAP LENGTH - NUMBER OF LINES
(1E)	UNSIGNED	1	BMSMW	MAP WIDTH - NUMBER OF COLUMNS
(1F)	UNSIGNED	1	BMSMSL	MAP STARTING LINE NUMBER
(20)	UNSIGNED	1	BMSMSC	MAP STARTING COLUMN NUMBER
(21)	CHARACTER	1	BMSMI	MAP INDICATORS
	1... ..		BMSMIXM	EXTENDED ATTRS IN MAP
	.1... ..		BMSMIXD	EXTENDED ATTRS IN APPLICATION STRUCTURE
	..1... ..		BMSMIAL	1 = ALIGNED MAP, 0 =UNALIGNED MAP
	...1... ..		BMSMI16	MAP ASSEMBLED AT CICS/V5 1.6 OR LATER
	.... 1...		BMSMICL	CURSOR IN FIELD IND REQD *
	.... .1..		BMSMIH	HEADER MAP
	.... ..1.		BMSMIT	TRAILER MAP
	.... ...1		BMSMIS	FIELDS ARE NOT IN SEQUENCE
(22)	CHARACTER	1	BMSMSTR2	TYPE REQUEST BYTE TWO FROM TCA
(23)	CHARACTER	1	BMSMSTR3	TYPE REQUEST BYTE THREE FROM TCA
	1... ..		*	
	.1... ..		*	
	..1... ..		BMSMASHON	HONEOM REQD ON O/P MAPPING * (EXEC I/F ONLY)
	...1... ..		*	
	.... 1...		BMSMSTC	CURSOR = NUMBER
	.... ..1.		BMSMSTCW	CTRL = ANY 3270 WCC
(24)	CHARACTER	1	BMSMSTR4	TYPE REQUEST BYTE FOUR FROM TCA
	1... ..		*	
	.1... ..		BMSMSTDN	DATA = NO
	..1... ..		BMSMSTRS	TYPE = SAVE
	...1... ..		*	
	.... 1...		*	
	.... ..1.		BMSMSTRM	TYPE = MAP
	.... ...1		BMSMSTRE	TYPE = ERASE
	.... ...1		BMSMSTRI	TYPE = IN
(25)	CHARACTER	1	BMSMSTR5	TYPE REQUEST BYTE FIVE FROM TCA
	1... ..		BMSMSTRB	TYPE = PAGEBLD
	.1... ..		*	
	..1... ..		*	
	...1... ..		*	
	.... 1...		*	
	.... ..1.		BMSMSTRO	TYPE = OUT
(26)	HALFWORD	2	BMSMSCP	CURSOR POSITION FROM TCA
(26)	HALFWORD	2	BMSDESCO	offset of ADS descriptor in loaded mapset, if present
(28)	CHARACTER	1	BMSMSWCC	WRITE CONTROL CHARACTERS FROM TCA
(29)	UNSIGNED	1	BMSATNO	FOR EXTENDED FORMAT MAPS, THE NUMBER OF BYTES IN BMSMATTS AND BMSDATTS =12 FOR RELEASE 1.7
(29)	CHARACTER	1	BMSMI2	MAP INDICATOR EXTENSION
	1... ..		BMSMI2RM	KANJI EXTENDED ATTRS IN MAP *
	.1... ..		BMSMI2RD	KANJI EXTENDED ATTRS IN APPLICATION STRUCTURE
(2A)	CHARACTER		BMSMSEA	MAP SPECIFICATION ENDING ADDRESS FOR PRE1.7 MAPS

Offset Hex	Type	Len	Name (Dim)	Description
EXTENDED FORMAT MAPS FOLLOWING FIELDS ARE ADDED FOR CICS R1.7 MAPS ASSEMBLED IN R170 AND AFTER WILL CONTAINS THESE FIELDS IN THE MAP HEADER				
(2A)	ADDRESS	4	BMSMCA	MAP CHAIN ADDRESS
(2E)	HALFWORD	2	BMSMAL	LENGTH OF ATTRIBUTES IN FIELD IN MAP
(30)	HALFWORD	2	BMSDAL	LENGTH OF ATTRIBUTES IN FIELD IN DATA STRUCTURE *
(32)	CHARACTER	12	BMSMATTS	MASK FOR ATTRIBUTES IN MAP FIELD: 00 - ATTR NOT IN FIELD NN - INDEX OF ATTR IN FLD *
(3E)	CHARACTER	12	BMSDATTS	MASK FOR ATTRIBUTES IN DATA STRUCTURE FIELD 00 - ATTR NOT IN FIELD NN - INDEX OF ATTR IN FLD *
(4A)	UNSIGNED	1	BMSFLDSL	LENGTH OF FIELD SEPARATOR 0 IF NOT SPECIFIED
(4B)	CHARACTER	4	BMSFLDSP	FIELD SEPARATOR UP TO FOUR CHARACTERS
(4F)	CHARACTER		BMSXMSEA	MAP SPECIFICATION ENDING ADDRESS FOR EXTENDED FORMAT MAPS

FIELD SPECIFICATIONS

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	BMSFLD	
(0)	CHARACTER	8	BMSFSL	FIELD SPEC NO EXTATT
(0)	HALFWORD	2	BMSFPP	FIELD PAGE POSITION
(0)	UNSIGNED	1	BMSFPP_BYTE1	FIELD PAGE BYTE1
(1)	UNSIGNED	1	BMSFPP_BYTE2	FIELD PAGE BYTE2
(2)	HALFWORD	2	BMSFL	FIELD LENGTH
(4)	CHARACTER	1	BMSFDFB	FIELD DESCRIPTOR FLAG BYTE
	1... ..		BMSFDCM	CASE = MIXED
	.1. ....		BMSFDGFE	GROUP FIELD ENTRY
	..1. ....		BMSFDGFD	GROUP FIELD DESCRIPTOR
	...1 ....		BMSFDPDA	ATTRB = DET
	.... 1...		BMSFDJZ	JUSTIFY = ZERO
	.... .1..		BMSFDJR	JUSTIFY = RIGHT
	.... ..1.		BMSFDD	INITIAL = ANY USER INFORMATION
	.... ...1		BMSFDNF	DSECT ENTRY EXISTS
(5)	CHARACTER	1	BMSFA	FIELD ATTRIBUTE
(6)	HALFWORD	2	BMSFP	FIELD POSITION
(8)	CHARACTER		BMSFEA	FIELD ENDING ADDRESS
(8)	CHARACTER	4	BMSXATTR	EXTENDED ATTRIBUTES
(8)	CHARACTER	1	BMSFXC	FIELD COLOR ATTRIBUTE
(9)	CHARACTER	1	BMSFXP	FIELD PSS ATTRIBUTE
(A)	CHARACTER	1	BMSFXH	FIELD HIGHLIGHT ATTRIBUTE
(B)	CHARACTER	1	BMSFXV	FIELD VALIDATION ATTRIBUTE
(C)	CHARACTER		BMSFEAL	FIELD END ADDRESS IF EXTENDED ATTRIBUTES INCLUDED

ALIAS EXTENSION AREA

THIS IS THE FIRST USE OF A MAP HEADER EXTENSION AREA. THIS FOLLOWS THE LAST FIELD IN A MAP, AND IS POINTED TO BY BMSMSS THE FLAG BMSMODE(BMSMHEXT) IS SET ON IF THIS AREA IS PRESENT THIS AREA CONTAINS A NUMBER OF EXTENSION RECORDS, EACH HEADED BY ONE BYTE LENGTH AND TYPE FIELDS. IT IS THUS EXTENDABLE. NOTE HOWEVER THAT THE CICS/VS 1.5 OBF CODE DOES NOT TEST THE EXTENSION RECORD TYPE AND LENGTH. ANY FURTHER USE OF THIS MAY REQUIRE REWORK OF THE OBF SUPPORT IN PBP AND M32. THE MAP ALIAS EXTENSION RECORD IS USED FOR PASSING THE NAMES OF OUTBOARD MAP-GROUP AND OUTBOARD FORMAT TO M32

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	19	BMSALIAS	
(0)	UNSIGNED	1	BMSALLNG	LENGTH OF ALIAS EXTENSION
(1)	CHARACTER	1	BMSALTYP	TYPE CODE FOR ALIAS EXTENSION
	1... ..		*	
	.1. ....		*	
	..1. ....		*	
	...1 ....		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	.... ...1		*	
(2)	CHARACTER	8	BMSALTEQ	ALIAS EXTENSION TYPE CODE
(A)	CHARACTER	8	BMSOGNME	OUTBOARD MAP-GROUP NAME
(12)	CHARACTER	8	BMSOFNME	OUTBOARD FORMAT NAME
	CHARACTER	1	BMSOFFLG	FLAG BYTE
	1... ..		*	
	.1. ....		*	
	..1. ....		*	

Offset Hex	Type	Len	Name (Dim)	Description
....1 ....			*	
.... 1...			*	
.... .1..			*	
.... ..1.			*	
(13) .... ..1	CHARACTER		BMSOFMGS BMSALEND	MAP-GROUP NAME SUFFIXED END OF ALIAS EXTENSION AREA

### Constants

Len	Type	Value	Name	Description
1	HEX	81	BMSMTF	INDICATING TAB MAP
1	HEX	C0	BMSMODIO	MODE = INOUT
1	HEX	FF	BMSMSLN	LINE = NEXT
1	HEX	FE	BMSMSLS	LINE = SAME
1	HEX	FF	BMSMSCN	COLUMN = NEXT
1	HEX	FE	BMSMSCS	COLUMN = SAME
1	HEX	C0	BMSMSTDY	DATA = YES

## MBCA Transient data buffer control

MODULE NAME = DFHMBCPS  
 DESCRIPTIVE NAME = Transient Data Buffer Control  
 CICS/ESA AP Domain

FUNCTION =  
 Copybook DFHMBCPS provides structures, DFHMBCA and DFHMBCB and DFHMQCB.  
 DFHMBCA describes the Buffer Common Area (MBCA), only one MBCA is allocated.  
 DFHMBCB describes the Buffer Control Block (MBCB), one MBCB is allocated for each I/O buffer.  
 DFHMQCB describes the Queue Control Block (MQCB), one MQCB is allocated for each I/O buffer. MQCBs are used to optimize the search for I/O buffers containing records for a given queue.

LIFETIME =  
 The lifetime of the control blocks and I/O buffers is essentially that of CICS.

STORAGE CLASS =  
 The control blocks are located in storage allocated from the DFHTDG31 subpool.  
 The I/O buffers, if required, are located in storage allocated from the DFHTDIOB subpool.  
 Note that the number of I/O buffers is defined as a SIT parameter / override.  
 Note also that the number of I/O buffers allocated may exceed the number requests where this does not cause further pages to be allocated.

LOCATION =  
 The MBCA is located from the TDST.  
 MBCBs are located on one of three bi-directional chains whose anchors are located in the MBCA  
 1. unallocated, I/O buffer is (logically) empty  
 2. unallocated, I/O buffer contains valid data  
 3. allocated, I/O buffer is (logically) modified  
 MQCBs are located on one of many bi-directional chains  
 1. anchor located in the MBCA when the associated MBCB is on chain 1  
 2. anchor located in the relevant DCTE when the associated MBCB is on chain 2 or chain 3.  
 Each MQCB may be located from its associated MBCB and vice versa.

INNER CONTROL BLOCKS =  
 There are no inner control blocks.

NOTES :  
 DEPENDENCIES =  
 S/370  
 RESTRICTIONS =  
 There are no restrictions.

MODULE TYPE =  
 Control block definition.  
 MULTIPLE BUFFERS - BUFFER COMMON AREA (MBCA)



Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	112	DFHMBCA	
(0)	CHARACTER	16	MBCA_PREFIX	prefix
(0)	HALFWORD	2	MBCA_LENGTH	- length
(2)	CHARACTER	1	MBCA_ARROW	- value - '>'
(3)	CHARACTER	3	MBCA_DFH	- value - 'DFH'
(6)	CHARACTER	2	MBCA_DOMID	- value - 'TD'
(8)	CHARACTER	8	MBCA_BLOCK	- value - 'MBCA '
(10)	CHARACTER	4	*	MBCA STATUS
(10)	CHARACTER	1	MBCAFLG0	- I/O BUFFERS
			MBCABFAL	- ALLOCATED
			MBCABFRQ	- REQUIRED
			*	- Reserved
(11)	CHARACTER	1	MBCAFLG1	- Reserved
(11)	BITSTRING	1	*	- Reserved
(12)	CHARACTER	1	MBCAFLG2	- Reserved
(12)	BITSTRING	1	*	- Reserved
(13)	CHARACTER	1	MBCAFLG3	- Reserved
(13)	BITSTRING	1	*	- Reserved
(14)	CHARACTER	12	*	I/O BUFFERS
(14)	FULLWORD	4	MBCANBFR	- #(BUFFERS REQUESTED)
(18)	FULLWORD	4	MBCANBFA	- #(BUFFERS ALLOCATED)
(1C)	FULLWORD	4	MBCABFSZ	- L(EACH BUFFER)
(20)	CHARACTER	32	*	MBCB CHAIN ANCHORS
(20)	CHARACTER	8	MBCACHN1	- UNALLOC/EMPTY CHAIN
(20)	ADDRESS	4	MBCAFCN1	- A(FIRST MBCB)
(24)	ADDRESS	4	MBCABCN1	- A(LAST MBCB)
(28)	CHARACTER	8	MBCACHN2	- UNALLOC/VALID CHAIN
(28)	ADDRESS	4	MBCAFCN2	- A(FIRST MBCB)
(2C)	ADDRESS	4	MBCABCN2	- A(LAST MBCB)
(30)	CHARACTER	8	MBCACHN3	- ALLOCATED CHAIN
(30)	ADDRESS	4	MBCAFCN3	- A(FIRST MBCB)
(34)	ADDRESS	4	MBCABCN3	- A(LAST MBCB)
(38)	CHARACTER	8	MBCACHNS	- STATIC CHAIN
(38)	ADDRESS	4	MBCAFCNS	- A(FIRST MBCB)
(3C)	ADDRESS	4	*	- Reserved
(40)	CHARACTER	8	*	MQCB CHAIN ANCHORS
(40)	CHARACTER	8	MBCACHNQ	- QUEUE INDEPENDENT CHAIN
(40)	ADDRESS	4	MBCAFCNQ	- A(FIRST MQCB)
(44)	ADDRESS	4	MBCABCNQ	- A(LAST MQCB)
(48)	CHARACTER	8	MBCA_SRC	MBCB allocation chain
(48)	ADDRESS	4	MBCA_TCA_P	- A(owning TCA) or 0
(4C)	ADDRESS	4	MBCA_MWCB_P	- A(first MWCB) or 0
(50)	CHARACTER	32	*	MBCB STATISTICS
(50)	CHARACTER	12	*	- ALLOCATION REQUESTS
(50)	FULLWORD	4	MBCATNAL	- TOTAL
(54)	FULLWORD	4	MBCACNAL	- CURRENT CONCURRENT
(58)	FULLWORD	4	MBCAMXAL	- MAXIMUM CONCURRENT
(5C)	CHARACTER	12	*	- QUEUED REQUESTS
(5C)	FULLWORD	4	MBCATNWT	- TOTAL
(60)	FULLWORD	4	MBCACNWT	- CURRENT CONCURRENT
(64)	FULLWORD	4	MBCAMXWT	- MAXIMUM CONCURRENT
(68)	CHARACTER	8	*	- # CONTAINING VALID DATA
(68)	FULLWORD	4	MBCACNIU	- CURRENT
(6C)	FULLWORD	4	MBCAMXIU	- MAXIMUM
(70)	CHARACTER		*	

MULTIPLE BUFFERS - BUFFER CONTROL BLOCK (MBCB)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	56	DFHMBCB	
(0)	CHARACTER	12	*	MBCB CHAINS
(0)	CHARACTER	8	*	- STATUS SPECIFIC CHAIN
(0)	ADDRESS	4	MBCBFCHN	- A(NEXT MBCB)
(4)	ADDRESS	4	MBCBBCHN	- A(PREVIOUS MBCB)
(8)	CHARACTER	4	*	- STATIC CHAIN
(8)	ADDRESS	4	MBCBSCHN	- A(NEXT MBCB) OR 0
(C)	CHARACTER	4	*	I/O BUFFER STATUS
(C)	CHARACTER	1	MBCBFLG0	- ALLOCATION
			MBCBLCKD	- PREEMPTED
			*	- Reserved
(D)	CHARACTER	1	MBCBFLG1	- CONTENTS
			MBCBVALD	- VALID
			*	- Reserved
(E)	CHARACTER	1	MBCBFLG2	- ACTIONS
			MBCBPTRQ	- WRITE
			MBCBGTRQ	- READ
			*	- Reserved
(F)	CHARACTER	1	MBCBFLG3	- Reserved
(F)	BITSTRING	1	*	- Reserved
(10)	CHARACTER	24	*	I/O BUFFER PARAMETERS

Offset Hex	Type	Len	Name (Dim)	Description
(10)	CHARACTER	12	*	- LOCATION, DEFINED BY
(10)	ADDRESS	4	MBCBABFR	- A(I/O BUFFER)
(14)	FULLWORD	4	MBCBLBFR	- L(I/O BUFFER)
(18)	ADDRESS	4	MBCBACDF	- A(CIDF)
(1C)	CHARACTER	8	*	- CONTENTS, DEFINED BY
(1C)	FULLWORD	4	MBCBCRBA	- RBA(CI)
(20)	ADDRESS	4	MBCBMRCA	- A(MRCA)
(24)	ADDRESS	4	MBCB_DCTE_P	- A(DCTE) or 0
(28)	CHARACTER	8	*	associated control blocks
(28)	ADDRESS	4	MBCB_MQCB_P	- A(MQCB)
(2C)	ADDRESS	4	MBCB_MRCA_P	- A(MRCA) or 0
(30)	CHARACTER	8	MBCB_SRC	MBCB preemption chain
(30)	ADDRESS	4	MBCB_TCA_P	- A(owning TCA) or 0
(34)	ADDRESS	4	MBCB_MWCB_P	- A(first MWCB) or 0
(38)	CHARACTER		*	

MULTIPLE BUFFERS - QUEUE CONTROL BLOCK (MQCB)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	DFHMQCB	
(0)	CHARACTER	8	*	QUEUE SPECIFIC CHAIN
(0)	ADDRESS	4	MQCBFCHN	- A(NEXT MQCB)
(4)	ADDRESS	4	MQCBBCHN	- A(PREVIOUS MQCB)
(8)	CHARACTER	8	*	associated control blocks
(8)	ADDRESS	4	MQCB_MBCB_P	- A(MBCB)
(C)	CHARACTER	4	*	- Reserved
(10)	CHARACTER		*	

## MCA Map control area description

MODULE NAME = DFHMCAD  
 DESCRIPTIVE NAME = CICS MAP CONTROL AREA DESCRIPTION  
 FUNCTION = DESCRIBE MAP CONTROL AREA FOR SETTING UP BMS OUTPUT  
 DATA STREAM FOR 3270 OR LU1 SCS PRINTER DEVICE

This area contains information pertinent to one of the maps being used in a page build process for a 3270 or LU1 SCS printer device.

The Map Control Areas for one page of data are maintained on a chain which is anchored in field TTPMMFCP contained in the current TTP. The chain is maintained in order by the field position of the next field to be processed in each map. The last Map Control Area in the chain is always a dummy MCA containing only a zero chain address and a maximum possible field position. Each MCA contains copies of those fields of the map header which are required to build the data stream. All the Map Control

Areas for one page of data are contained in one area of storage with the first one being the dummy MCA.

EXTERNAL REFERENCES :

NONE

TABLES :

NONE

MACROS :

NONE

METHOD :

USED BY DFHM32 AND DFHML1 TO HOLD INFORMATION ABOUT A SINGLE MAP AND ITS FIELDS.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHMCADS	
(0)	CHARACTER	4	MCACBID	MCA SELF IDENTIFICATION. SET TO 'MCAD' WHEN AN MCA IS CREATED
(4)	ADDRESS	4	MCACHAIN	ADDRESS OF NEXT MCA IN CHAIN
(8)	HALFWORD	2		RESERVED
(A)	HALFWORD	2	MCAFPF	PAGE ADDRESS OF CURRENT FIELD (COPY OF BMSFPF)
	.... 11..		MCADEL	""-DFHMCADS" DUMMY MCA LENGTH
(C)	ADDRESS	4	MCAMAP	ADDRESS OF MAP
(10)	ADDRESS	4	MCATIOA	ADDRESS OF TIOA
(14)	ADDRESS	4	MCADEA	ADDRESS OF END OF TIOA

THE FOLLOWING TWO WORDS ARE ACCESSED VIA LM AND STM INSTRUCTIONS

Offset Hex	Type	Len	Name (Dim)	Description
(18)	ADDRESS	4	MCADATA	CURRENT DATA ADDRESS IN TIOA
(1C)	ADDRESS	4	MCAFIELD	CURRENT FIELD ADDRESS IN MAP
(20)	CHARACTER	1	MCAMODE	MAP DESCRIPTOR FLAG BYTE (COPY OF BMSMODE)
(21)	CHARACTER	1	MCAMSTR4	TYPE REQUEST BYTE FOUR FROM TCA (COPY OF BMSMSTR4)
	1... ..		MCAMSTDT	"X'80" DATA CAN BE TAKEN FROM THE TIOA
	.1.. ..		MCAMSTDM	"X'40" DATA CAN BE TAKEN FROM THE MAP
(22)	CHARACTER	1	MCAMI	MAP INDICATORS (COPY OF BMSMI)
(23)	CHARACTER	1	MCAMI2	MAP INDICATORS (COPY OF BMSMI2)
(24)	CHARACTER	1		RESERVED
(25)	CHARACTER	1	MCAFLAG	FLAGS FOR INTERNAL USE
	1... ..		MCAGMF	"X'80" MF (MODIFY FIELD) TO BE GENERATED RATHER THAN SFE(START FIELD EXTENDED)
	.1.. ..		MCANOSC	"X'40" NO SHIFT OUT / SHIFT IN CHARACTERS ALLOWED IN DATA
	..1. ....		MCAMHSA	"X'20" MAP CONTAINS SOSI FIELD ATTRIBUTE
(26)	HALFWORD	2	MCAMHLL	OFFSET TO FIRST MAP FIELD
(28)	HALFWORD	2	MCAMAL	NUMBER OF MAT ATTRIBUTES
(2A)	HALFWORD	2	MCADAL	NUMBER OF ADS ATTRIBUTES
(2C)	CHARACTER	12	MCATERMM	MAP/TERMINAL MASK
(31)	CHARACTER	1	MCATERSO	SOSI MASK BYTE
(38)	CHARACTER	12	MCATERMD	DSECT/TERMINAL MASK
(44)	CHARACTER	13	MCAMXAT0 (0)	MAP FIELD ATTRIBUTE WORK AREA
(44)	CHARACTER	1		THIS BYTE MUST BE ZERO
(45)	CHARACTER	12	MCAMXAT	COPY OF MAP FIELD ATTRIBUTES
(51)	CHARACTER	13	MCADXAT0 (0)	ADS FIELD ATTRIBUTE WORK AREA
(51)	CHARACTER	1		THIS BYTE MUST BE ZERO
(52)	CHARACTER	12	MCADXAT	COPY OF ADS FIELD ATTRIBUTES
(5E)	HALFWORD	2		RESERVED

INFORMATION ABOUT MCA EXTENSION, FILLED IN IF THE  
 MAP CONTAINS FIELDS NOT IN ORDER OF PAGE POSITION

(60)	FULLWORD	4	MCANXF	NEXT FIELD TO BE PROCESSED IN EXT
(64)	HALFWORD	2	MCAEXF	NUMBER OF FIELDS IN EXTENSION
(66)	HALFWORD	2	MCAEXL	EXTENSION LENGTH
(68)	HALFWORD	2	MCAEXT (0)	EXTENSION START
	.11. 1...		MCAEL	"*-DFHMCADS" MCA ENTRY LENGTH

MCA EXTENSION: FORMAT OF FIELD INFORMATION

(68)	HALFWORD	2	MCAPP	FIELD POSITION ON PAGE
(6A)	ADDRESS	4	MCADP	-> FIELD DATA IN TIOA USE ICM
(6E)	ADDRESS	4	MCAMP	-> FIELD DATA IN MAP DSECT USE ICM

## MCB BMS message control block

MODULE NAME = DFHMCBDS  
 DESCRIPTIVE NAME = CICS BMS MESSAGE CONTROL BLOCK  
 FUNCTION = DEFINE THE STATE OF A BMS LOGICAL MESSAGE. THIS IS USED BY THE TERMINAL PAGE RETRIEVAL PROGRAM DFHTPR. THERE IS ONE MCB PER LEVEL OF PAGE CHAINING. THE MCBS ARE CHAINED TOGETHER, WITH AN ANCHOR IN THE BMS TCTTE EXTENSION. MCBS ARE ALLOCATED AND FREED BY DFHTPR. THEY RESIDE IN SHARED STORAGE.  
 THE MCB HAS SEVERAL PARTS:-  
 A) A COMMON PART CONTAINING INFORMATION SUCH AS THE TS QUEUE NAME.  
 B) A PART CONTAINING STATUS INFORMATION (E.G. CURRENT PAGE NUMBER) FOR THE CURRENT LDC OR PARTITION.  
 C) AN ENTRY FOR EACH LDC OR PARTITION CONTAINING DTATUS DATA (E.G. CURRENT PAGE NUMBER, TOTAL PAGE COUNT) FOR THAT LDC OR PARTITION. THIS IS COPIED INTO B) WHEN THE LDC OR PARTITION BECOMES CURRENT.  
 D) THE PAGE/LDC TABLE WITH ONE ENTRY PER PAGE OF THE MESSAGE, INDICATING THE LDC OR PARTITION FOR THIS PAGE  
 THE MCB IS PARTIALLY BUILT FROM THE MESSAGE CONTROL RECORD (MCR) WHEN THIS IS RETRIEVED FROM TS. OTHER PARTS ARE MAINTAINED BY DFHTPR.

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = NONE  
 REGISTER CONVENTIONS = SEE COMMENTS IN CODE  
 PATCH LABEL = NOT APPLICABLE  
 MODULE TYPE = DSECT  
 MODULE SIZE = NOT APPLICABLE  
 ATTRIBUTES = NOT APPLICABLE  
 ENTRY POINT = NOT APPLICABLE  
 PURPOSE = SEE FUNCTION  
 LINKAGE = NOT APPLICABLE  
 INPUT = NOT APPLICABLE  
 OUTPUT = NOT APPLICABLE  
 EXIT-NORMAL = NOT APPLICABLE  
 EXIT-ERROR = NOT APPLICABLE  
 EXTERNAL REFERENCES = NONE  
 CONTROL BLOCKS = NOT APPLICABLE  
 TABLES = NOT APPLICABLE  
 MACROS = NONE

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHMCB	
(0)	FULLWORD	4	MCBSAA	SHARED STORAGE ACCOUNTING
(4)	FULLWORD	4	MCBCOMN (0)	START MCB COMMON CONTROL AREA

MCB COMMON CONTROL AREA

(4)	ADDRESS	4	MCBNEXT	POINTER TO CHAINED MCB @
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FIELDS ABOVE OVERLAP THE BMS TCTTE EXTENSION FOR FINDING THE MCB CHAIN HEADER

(8)	CHARACTER	8	MCBCBID	MCB SELF IDENTIFICATION. SET TO 'DFHMCBDS' WHEN MCB CREATED
(10)	ADDRESS	4	MCBCUREP	A(CURRENTLY ACTIVE REPEATED)
(14)	ADDRESS	4	MCBCURPG	A(CURRENT PAGING ENTRY)
(18)	ADDRESS	4	MCBPGLDC	POINTER TO PAGE/LDC TABLE
(1C)	ADDRESS	4	MCBAPSET	POINTER TO INCORE APPLICATION PARTITION SET
(20)	CHARACTER	12	MCBMSGID (0)	MESSAGE ID OF LOGICAL MESSAGE
(20)	CHARACTER	8	MCBTSID (0)	TEMPORARY STORAGE KEY
(20)	CHARACTER	2	MCBTSPFX	TEMPORARY STORAGE RECOVERY PREFIX
(22)	ADDRESS	1	MCBTSPKY	BMS IDENTIFIER -'X'FD'
(23)	BITSTRING	3	MCBUNQID	MESSAGE ID OF THIS MSG
(26)	CHARACTER	1	MCBTTS	TERMINAL TYPE SUFFIX OF RECEIVING TERMINAL
(27)	BITSTRING	1	MCBTSQUL	TEMP. STORAGE QUALIFICATION
(28)	BITSTRING	1	MCBCHN	CHAIN NUMBER OF THIS MESSAGE
(29)	BITSTRING	1	MCBFLAGS	FLAGS

NOTE -- DSECTS FOR THE MCR AND MCB SHOULD HAVE EQUIVALENT BIT PATTERNS FOR THE FOLLOWING FLAGS --

XXXTITLE - MESSAGE HAS A TITLE  
 XXXWBCUR WTBK=CURR (2741)  
 XXXWBALL WTBK=ALL (2741)  
 XXXEODOP EODPURG=OPER  
 WHERE XXX IS ONE OF MCR OR MCB

1... ..	MCBTITLE	"X'80" ...MESSAGE HAS A TITLE
.1. ....	MCBWBCUR	"X'40" ...WTBRK=CURRENT (2741 ONLY)
..1. ....	MCWBALL	"X'20" ...WTBRK=ALL (2741 ONLY)
...1 ....	MCBEODOP	"X'10" ...EODPURG=OPER FOR THIS MESSAGE

Offset Hex	Type	Len	Name (Dim)	Description
	.... 1...		MCBOPCHK	"X'08" ...OPERATOR CHECKING WITH MESSAGE
	.... .1..		MCBMCRCCK	"X'04" ...MCR HAS BEEN CHECKED
	.... .1.		MCBCURR	"X'02" ...THIS IS CURRENT CHAIN LEVEL
	.... ...1		MCBACT	"X'01" ...THIS MCB IS ACTIVE
THESE FIELDS POSITIONALLY DEPENDENT ON 'MCBMSGID' & 'MCBLDCL'				
(2A)	HALFWORD	2	(0)	
(2A)	CHARACTER	18	MCBCLDCI (0)	DESTINATION INFORMATION
(2A)	HALFWORD	2	MCBPAG	PAGE NUMBER CURRENTLY BEING DISPLAYED
(2C)	CHARACTER	2	MCBCLDCM	CURRENTLY ACTIVE LDC MNEMONIC
(2E)	BITSTRING	1	MCBCLDCD	CURRENTLY ACTIVE LDC DEVICE CODE
(2F)	BITSTRING	1	MCBLDCF	CURRENTLY ACTIVE DESTINATION CODE
REFER TO 'MCBRLDCF' FOR VALUES				
(30)	HALFWORD	2	MCBPGCNT	TOTAL NUMBER OF PAGES PER DESTINATION
(32)	CHARACTER	8	MCBCDSN	CURRENTLY ACTIVE DESTINATION NAME
(3A)	BITSTRING	1	MCBCDSP	DATA STREAM PROFILE
(3C)	HALFWORD	2	MCBHCNT	NUMBER OF CHAIN LEVELS 01 CONNECTED TO TERMINAL 01 (FIRST MCB ONLY)
(40)	FULLWORD	4	(0)	ALIGNMENT
(40)	CHARACTER	2	MCBCPRTN	NAME OF CURRENT PARTITION
(42)	CHARACTER	1	MCBCPID	PID OF CURRENT PARTITION
(43)	BITSTRING	3		RESERVED
(46)	BITSTRING	1	MCBIND02	MCB INDICATOR TWO
	1... ....		MCBAPDUN	"X'80" ALL AUTOMATIC PAGING COMPLETE
	.1.. ....		MCBPNLUN	"X'40" PAGING NOT COMPLETE
	.1. ....		MCBFSUN	"X'20" FINAL SCAN COMPLETE
	...1 ....		MCBQKPRG	"X'10" MESSAGE ELIGIBLE FOR QUICK PURGE
	.... 1...		MCBSCSA	"X'08" USE ALTERNATE SCREENSIZE
	.... .1..		MCBTRAN	"X'04" PAGES INCLUDE EXTRA BYTE FOR TRANSPARENT MODE
	.... .1.		MCBRDPSL	"X'02" REDISPLAY CURRENT PAGE IN EACH PARTITION
	.... ...1		MCBSCHED	"X'01" AID for this MCB has been rescheduled by DFHACP
(48)	FULLWORD	4	MCBCEND (0)	END COMMON MCB
	.1.. 1...		MCBLEN	"MCBCEND-DFHMCB" LENGTH OF COMMON MCB AREA
MCB/LDC REPEATED ENTRY				
	.... .1..		MCBDRLDC	"4" DEFAULT REPEATED ENTRY COUNT
THESE FIELDS POSITIONALLY DEPENDENT ON 'MCBCLDCI'				
	.1.. 1...		MCBLDCL	"" LDC REPEATED ENTRY LIST
(48)	HALFWORD	2	MCBRCPAG	CURRENT PAGE NUMBER
(4A)	CHARACTER	2	MCBRLDCM	LDC MNEMONIC
(4C)	BITSTRING	1	MCBRLDCD	LOGICAL DEVICE CODE
(4D)	BITSTRING	1	MCBRLDCF	PAGING STATUS FLAG ONLY
	1... ....		MCBPSTAT	"TCTTEPGP" PAGING STATUS
	.1.. ....		MCBTREV	"TCTTEPGR" PAGING STATUS TEMPORARILY REVERSED. LAST 6 BITS RESERVED
(4E)	HALFWORD	2	MCBRTPC	TOTAL PAGE COUNT FOR THIS LDC
(50)	CHARACTER	8	MCBRDSN	DESTINATION NAME
(58)	CHARACTER	1	MCBRDSP	DATA STREAM PROFILE
(5A)	HALFWORD	2	(0)	ENSURE ALIGNMENT
	.1.1 1.1.		MCBRLDCE	"" END REPEATED ENTRY
	...1 .1.		MCBRLN	"MCBRLDCE-MCBLDCL" LDC REPEATED ENTRY LENGTH
(48)	CHARACTER		MCBLDCLL (0)	DEFINE MCB/LDC LIST
MCB'S PG/LDC TABLE				
	.... 1...		MCBDLDCP	"8" PAGE/LDC TABLE SIZE (NUMBER OF ENTRIES)
DEFINE SPACE FOR THE PAGE/LDC TABLE				
(90)	CHARACTER	1		"" END OF TABLE
	1.1. ....		MCBEXEND	"" END OF TABLE
	1.1. ....		MCBEXLEN	"MCBEXEND-DFHMCB" LENGTH OF TABLE

**MCR BMS message control record DSECT**

MODULE NAME = DFHMCRDS  
 DESCRIPTIVE NAME = CICS BMS MESSAGE CONTROL RECORD DSECT  
 FUNCTION = DEFINE THE BMS MESSAGE CONTROL RECORD (MCR). THE MCR  
 DEFINES A BMS LOGICAL MESSAGE ON TEMPORARY STORAGE.  
 IT IS OUTPUT BY DFHMCP, AND READ/UPDATED BY DFHTPS,  
 DFHTPQ, AND DFHTPR.  
 THE MCR TS QUEUE ID IS RELATED TO THE CORRESPONDING  
 LOGICAL MESSAGE PAGE TS QUEUE BY A NAMING CONVENTION.

## NOTES :

DEPENDENCIES = S/370  
 RESTRICTIONS = NONE  
 REGISTER CONVENTIONS = NOT APPLICABLE  
 PATCH LABEL = NONE  
 MODULE TYPE = DSECT  
 MODULE SIZE = NOT APPLICABLE  
 ATTRIBUTES = DSECT  
 ENTRY POINT = NOT APPLICABLE  
 PURPOSE = SEE FUNCTION  
 LINKAGE = NOT APPLICABLE  
 INPUT = NOT APPLICABLE  
 OUTPUT = NOT APPLICABLE  
 EXIT-NORMAL = NOT APPLICABLE  
 EXIT-ERROR = NOT APPLICABLE  
 EXTERNAL REFERENCES = NONE  
 CONTROL BLOCKS = NOT APPLICABLE  
 TABLES = NOT APPLICABLE  
 MACROS = NONE  
 ALL DISPLACEMENTS ARE COMPUTED FROM 'DFHMCRDS'

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHMCRDS	MCR DUMMY SECTION
(0)	DBL WORD	8	MCRSAAP	STORAGE ACCOUNTING INFORMATION; STORAGE CLASS=USER
	.... 1....		MCRSTART	*** START OF MCR
(8)	FULLWORD	4	MCRLLBB	VARIABLE-LENGTH RECORD INFORMATION (LLBB)
(C)	CHARACTER	8	MCRCBID	MCR SELF IDENTIFICATION. SET TO 'DFHMCRDS' WHEN MCR CREATED
(14)	HALFWORD	2	MCRPGCNT	TOTAL PAGE COUNT
(16)	HALFWORD	2	MCRIDCNT	COUNT OF TERMINALS TO RECEIVE MESSAGE
(18)	HALFWORD	2	MCRLSTRM	DISPLACEMENT TO LAST TERMINAL ENTRY IN THIS RECORD
(1A)	HALFWORD	2	MCRITLD	DISPLACEMENT TO TITLE PAGE
(1C)	HALFWORD	2	MCRPLTD	DISPLACEMENT TO THE PAGE/LDC TABLE
(1E)	CHARACTER	2	MCRETLD	ERROR TERMINAL'S LDC MNEMONIC
(20)	CHARACTER	4	MCRERRID	ID OF TERMINAL TO RECEIVE ERROR NOTIFICATION
(24)	CHARACTER	3	MCROPCL	OPERATOR CLASS
(27)	BITSTRING	1	MCRPGCHN	PAGE CHAIN LEVEL
(28)	BITSTRING	1	MCRFLAGS	FLAGS

NOTE -- DSECTS FOR THE MCR AND MCB SHOULD HAVE  
 EQUIVALENT BIT PATTERNS FOR THE FOLLOWING FLAGS --  
 XXXTITLE - MESSAGE HAS A TITLE  
 XXXWBCUR WTBK=CURR (2741)  
 XXXWBALL WTBK=ALL (2741)  
 XXXEODOP EODPURG=OPER  
 WHERE XXX IS ONE OF MCR OR MCB

	1... ....		MCRTITLE	"X'80" ...TITLE RECORD IN THIS MCR
	.1. ....		MCRWBCUR	"X'40" ...WTBRK=CURRENT (2741 ONLY)
	.1. ....		MCRWBALL	"X'20" ...WTBRK=ALL (2741 ONLY)
	...1 ....		MCREODOP	"X'10" ...EODPURG=OPER
	.... 1...		MCRPAGE	"X'08" ...MAKE TEMPORARILY PAGING
	.... .1.		MCRAUTOP	"X'04" ...MAKE TEMPORARILY AUTOPAGE
	.... .1.		MCRBSSM	"X'02" ...BMS - SYSTEM MESSAGE
	.... ...1		MCRRTAIN	"X'01" ...CTRL=RETAIN
(29)	BITSTRING	1	MCRSTAT	STATUS FLAG
	1... ....		MCRQKPRG	"X'80" MESSAGE ELIGIBLE FOR QUICK PURGE
	.1. ....		MCRMLDC	"X'40" MCR CONTAINS MULTIPLE LDC'S
	.... 1...		MCRSCSA	"X'08" USE ALTERNATE SCREENSIZE
	.... .1.		MCRTRAN	"X'04" PAGES CONTAIN EXTRA BYTE FOR TRANSPARENT MODE
	.1. 11..		MCRIDLST	*** START OF TERMINAL LIST TERMINAL ENTRY FOR ONE TERMINAL -
(2C)	CHARACTER	4	MCRTRMID	TERMINAL IDENTIFICATION
(30)	CHARACTER	2	MCRLDCMN	LDC MNEMONIC
(32)	HALFWORD	2	MCRLDCPG	PAGE COUNT PER LDC
(34)	BITSTRING	1	MCRLDCCD	LDC CODE
(35)	CHARACTER	3	MCROPID	OPERATOR ID
(38)	BITSTRING	1	MCRSF	STATUS FLAG
	1... ....		MCRSFPG	"TCTTEPGP" PAGING STATUS
	.1. ....		MCRFAIL	"X'40" LOCATE FAILED - ENTRY IS SKIPPED ONLY IF MCRMLDC IS ON
(39)	BITSTRING	1	MCRTEYP	TYPE OF TERMINAL ENTRY
	1... ....		MCRTEREM	"X'80" REMOTE TERMINAL
(3A)	CHARACTER	8	MCRDSN (0)	DESTINATION NAME IF LOCALLY OWNED TERMINAL

Offset Hex	Type	Len	Name (Dim)	Description
(3A)	CHARACTER	4	MCRSYSID	ID OF TERMINAL OWNING SYSTEM (OR FIRST IN CHAIN) IF REMOTELY OWNED TERMINAL
(3E)	CHARACTER	4		RESERVED
(42)	BITSTRING	1	MCRDSP	DATA STREAM PROFILE
(43)	BITSTRING	1		RESERVED
	.1.. .1..		MCRIDNXT	"" LOCATION OF NEXT ID ENTRY
	...1 1...		MCRLNTRY	"MCRIDNXT-MCRIDLST" MCR TERMINAL LIST ENTRY LENGTH

## MCTDR Monitoring dictionary entry

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DICTNTRY	

MACRO NAME = DFHMCTDR  
 DESCRIPTIVE NAME = CICS/ESA Monitoring Dictionary entry  
 FUNCTION = Field definitions to map a monitoring dictionary  
 entry.  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 ATTRIBUTES = none

Offset Hex	Type	Len	Name (Dim)	Description
(0)	CHARACTER	8	CMODNAME	NAME OF OWNER
(8)	CHARACTER	1	CMODTYPE	OBJECT-TYPE 'S' = CLOCK 'A' = COUNT 'C' = BYTE-STRING 'T' = TIMESTAMP (STCK FORMAT) 'P' = PACKED-DECIMAL FIELD
(9)	CHARACTER	3	CMODIDNT	NUMERIC ID. WITHIN OBJECT-TYPE
(C)	HALFWORD	2	CMODLENG	LENGTH OF OBJECT
(E)	BITSTRING	2	CMODCONN	ASSIGNED CONNECTOR
(10)	BITSTRING	2	CMODOFST	ASSIGNED OFFSET
(12)	CHARACTER	8	CMODHEAD	INFORMAL NAME
	...1 1.1.		CMODNEXT	""

## MGM MGM format of prototype messages

CONTROL BLOCK NAME = DFHMGM TYPE=DSECT  
 DESCRIPTIVE NAME = CICS MGM Format of Prototype Messages  
 FUNCTION =  
     The MGT entry describes the message to be issued.  
     This DSECT maps the MGT entry.  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Control block definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)			ETMGDSCT	
(0)	BITSTRING	1	ETMGCTYP	TYPE 0 NO TCTTE PASSED 1 TCTTE PASSED 2 IST TCTTE = SENT MSG TCTTE, 2ND TCTTE = TERM IN INSERTS
THE OPTIONS SPECIFIED WITH THE MSG ARE ADDED TO THOSE PASSED BY THE CALLER NORMALLY NOTHING SHOULD BE SET				
(1)	ADDRESS	1	ETMGDEST	DESTINATION
FIELD SAME AS MGMGDEST				
	..1. ....		ETMDTERM	"X'20" DEST TERM
	.... 1..		ETMDRETN	"X'08" DEST RETURN TO CALLER
	.... .1.		ETMDNNUM	"X'04" PRODUCE NO NUMBER
	.... ..1.		ETMDTIOA	"X'02" OBTAIN A TIOA
(2)	HALFWORD	2	ETMGMGNO	MSG NO
(4)	BITSTRING	1	ETMGMCOD	I/A/ TYPE ETC
FIELD SAME AS MGMOPTN1				
	1... ....		ETMGMCDI	"X'80" I TYPE MESSAGE
	.1. ....		ETMGMCDA	"X'40" A TYPE MESSAGE
	..1. ....		ETMGMNLS	"X'20" NLS MESSAGE
	...1 ....		ETMGRESP	"X'10" response required
	.... 1..		ETMG1CID	"X'08" Component id specified
	.... .1.		ETMGMCNX	"X'04" ERRATT=NEXT
	.... ..1.		ETMGMCNL	"X'02" ERRATT=LASTLINE
	.... ...1		ETMGMCNE	"X'01" ERRATT=NO
(5)	ADDRESS	1	ETMGINS2	INSERT INFO - MGMOPTN2
FIELD SAME AS MGMOPTN2				
(6)	ADDRESS	1	ETMDDUMP ETMGPTN3	"X'10" DUMP ON THIS MESSAGE SWITCHES - MGMOPTN3
FIELD SAME AS MGMOPTN3				
(7)	BITSTRING	1	ETMG3PID	"X'80" Product id specified
(8)	ADDRESS	1	ETMOFFV	OFFS OF MSG IN STG AREA
(9)	CHARACTER	2	ETMGDEXS	DESTINATION EXTENTION BYTE
(B)	CHARACTER	3	ETMGCOMP	Component id
(E)	CHARACTER	2	ETMGPROD	Product id
(10)	HALFWORD	2	ETMGTLN	TOTAL L OF MSG TEXTS.
	CHARACTER	1	ETMGTSRT (0)	START OF TEXT
	...1 ....		TEXTOFF	"*-ETMGDSCT" MSG TXT OFFSET

THIS DSECT DESCRIBES PARTIAL MESSAGES IN PROTOTYPE MSGS

Offset Hex	Type	Len	Name (Dim)	Description
(0)			ETMGTEXT	MSG TEXT.
(0)	HALFWORD	2	ETMGTYPL (0)	TYPE/LENGTH OF MSG TEXT
(0)	CHARACTER	1	ETMGTYPE	TYPE OF MSG TEXT.
(1)	CHARACTER	1	ETMGLEN	LENGTH OF MSG TEXT.
(2)	CHARACTER	1	ETMGMGDA	ACTUAL MSG

THIS DSECT DESCRIBES THE INPUT PLIST

Offset Hex	Type	Len	Name (Dim)	Description
(0)			MGMAMAP	*** MAP THE FW ADCONS IN DFHINS ***
(0)	ADDRESS	4	MGMAMSG	A(MGMMDEST)



Offset Hex	Type	Len	Name (Dim)	Description
(4)	ADDRESS 1... ..	4	MGMAPARM MGMAMLST	A(INSERT/MSG TABLE) "X'80" LAST FLAG

THIS DSECT DESCRIBES THE FIRST PARAMETER, WHICH IS ALWAYS PRESENT

Offset Hex	Type	Len	Name (Dim)	Description
(0)			MGMMDDEST	*** MESSAGE NO AND DESTINATION CODE ***
(0)	BITSTRING .... ..1	1	MGMGTYPE MGMGTCTE	TYPE OF MESSAGE "X'01" MGMAPARM = A(TCTTE)
(1)	CHARACTER .1. .... .... 1... .... .1.. .... ..1.	1	MGMGDEST MGMDTERM MGMDRETN MGMDNNUM MGMDTIOA	DESTINATION/ACTION. "X'20" DEST TERM "X'08" DEST RETURN TO CALLER "X'04" NO MSG NO. TO BE PRODUCED "X'02" OBTAIN A TIOA
(2)	ADDRESS	2	MGMGNO	MSG NO
(4)	BITSTRING 1... .. .1. .... .1. .... ..1 .... .... 1... .... .1.. .... ..1. .... ..1	1	MGMOPTN1 MGMD1CDI MGMD1CDA MGMD1NLS MGMDRESP MGMD1CID MGMD1CNX MGMD1CNL MGMD1CNE	TYPE /I/A RESERVED "X'80" I TYPE MESSAGE "X'40" A TYPE MESSAGE "X'20" NLS MESSAGE "X'10" MGP Response code required "X'08" COMP ID PRESENT "X'04" ERRATT=NEXT "X'02" ERRATT=LASTLINE "X'01" ERRATT=NO
(5)	BITSTRING 1... .. .1. .... ..1 .... ..1 .... .... 1... .... .1.. .... ..1. .... ..1	1	MGMOPTN2 MGMTERAS MGMTFMHP MGMTCONV MGMDDUMP MGMDOFFS	OPTION TWO "X'80" ERASE REQUIRED * "X'40" FMH PRESENT "X'20" CONVERSE REQUIRED "X'10" DUMP REQUIRED "X'08" PUT MESSAGE AT AN OFFSET (GIVEN BY VALUE OF MGMOFFV) WITHIN STORAGE AREA * "X'04" UNLOCK OPTION REQUIRED "X'02" LAST OPTION REQUIRED "X'01" WAIT OPTION REQUIRED *
(6)	BITSTRING 1... ..	1	MGMOPTN3 MGMO3PID	OPTION THREE "X'80" PRODUCT ID SPECIFIED
(7)	BITSTRING	1	MGMOFFV	VALUE OF OFFSET WITHIN STG AREA FOR START OF MSG
(8)	CHARACTER	1	MGMGDESX	DESTINATION EXTENTION BYTE
(9)	BITSTRING	1	MGMRESP	MGP Response code
(A)	CHARACTER	2	MGMGCOMP	COMPONENT ID
(C)	CHARACTER .... 1111	3	MGMGPROD MGMMDLN	PRODUCT ID "-MGMMDDEST" LENGTH OF MGMMDLST PARM

Offset Hex	Type	Len	Name (Dim)	Description
(0)			MGININSERT	*** LENGTH AND 'TEXT' OF INSERT ***
(0)	ADDRESS	2	MGINSR	LENGTH OF INSERT IF ANY
(2)	CHARACTER	1	MGINSRD	INSERT IF ANY

## MNEMP Monitoring domain user EMP structure

CONTROL BLOCK NAME = DFHMNEMP  
 DESCRIPTIVE NAME = CICS Monitoring Domain User EMP structure  
 definitions for EMP Qualifiers, EMP chaining, and EMP options.  
 FUNCTION =  
 This copy book contain the structure definitions used by the Monitoring Domain for User EMPs defined in the Monitoring Control Table (if any).  
 It contains the following structures...  
 a) User EMP address list defined in an MCT.  
 b) User EMP Qualifier and EMP chaining.  
 c) User EMP Option definitions.  
 The MN Domain User Event Monitoring Point (EMP)  
 The User Event Monitoring Point contains:  
 The address of the next EMP with the same id  
 The address of the EMP qualifier  
 A sequence of EMP options  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Structure definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = None  
 CONTROL BLOCKS = None  
 GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	DFHMNEMP	
(0)	ADDRESS	4	MNEMP_NEXT_ EMP_FOR_ID	
(4)	ADDRESS	4	MNEMP_QUALIFIER_PTR	

### EMP Options

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	DFHMNOPT	
(0)	UNSIGNED	2	MNEMP_OPTION_TYPE	
(2)	UNSIGNED	2	MNEMP_OPTION_SOURCE	
(4)	ADDRESS	4	MNEMP_OPTION_OFFSET	
(8)	UNSIGNED	4	MNEMP_OPTION_CONSTANT	

## Constants

Len	Type	Value	Name	Description
2	DECIMAL	1	MNEMP_SCLOCK	
2	DECIMAL	2	MNEMP_PCLOCK	
2	DECIMAL	3	MNEMP_SCPUCLK	
2	DECIMAL	4	MNEMP_PCPUCLK	
2	DECIMAL	5	MNEMP_ADDCNT	
2	DECIMAL	6	MNEMP_SUBCNT	
2	DECIMAL	7	MNEMP_NACNT	
2	DECIMAL	8	MNEMP_ORCNT	
2	DECIMAL	9	MNEMP_EXCNT	
2	DECIMAL	10	MNEMP_MLTCNT	
2	DECIMAL	11	MNEMP_MOVE	
2	DECIMAL	12	MNEMP_DELIVER	
2	DECIMAL	65535	MNEMP_END	
2	DECIMAL	1	MNEMP_CONSTANT	
2	DECIMAL	2	MNEMP_DATA1	
2	DECIMAL	3	MNEMP_DATA2	

## MNEXC Monitoring exception record

```

MACRO NAME = DFHMNEXC
DESCRIPTIVE NAME = CICS Monitoring Exception Record
FUNCTION =
  To generate the dsect for the Monitoring Exception Record
NOTES :
  DEPENDENCIES = S/370
  RESTRICTIONS = None
  REGISTER CONVENTIONS = None
  MODULE TYPE = Object definition macro
  ATTRIBUTES = N/A
PURPOSE = To generate the dsect for the Monitoring Exception
  Record.
SYNTAX = <name> DFHMNEXC <PREFIX=xxx>
INPUTS = None
OUTPUTS = Definition of the Monitoring Exception Record.
RETURN CODES = None
PROGRAMMING NOTES = None
MACRO MESSAGES =
  DFHMNEXC - INVALID OVERRIDING PREFIX
EXTERNAL REFERENCES =
  MACROS (Macro pass) = None
  ROUTINES (Generated code) = None
  DATA AREAS (Generated code) = None
  CONTROL BLOCKS (Generated code) = None
  GLOBAL VARIABLES (Macro pass) = None
  
```

Offset Hex (0)	Type	Len	Name (Dim)	Description
			MNEXCDS	
(0)	CHARACTER	4	EXCMNTRN	TRANSACTION IDENTIFICATION
(4)	BITSTRING	4	EXCMNTER	TERMINAL IDENTIFICATION
(8)	CHARACTER	8	EXCMNUSR	USER IDENTIFICATION
(10)	CHARACTER	4	EXCMNTST	TRANSACTION START TYPE
(14)	BITSTRING	8	EXCMNSTA	EXCEPTION START TIME
(1C)	BITSTRING	8	EXCMNSTO	EXCEPTION STOP TIME
(24)		4	EXCMNTNO	TRANSACTION NUMBER
(28)	BITSTRING	4	EXCMNTPR	TRANSACTION PRIORITY
(2C)	CHARACTER	4		RESERVED
(30)	CHARACTER	8	EXCMNLUN	LUNAME
(38)	CHARACTER	4		RESERVED
(3C)	BITSTRING	4	EXCMNEXN	EXCEPTION NUMBER
(40)	CHARACTER	8	EXCMNRTY	EXCEPTION RESOURCE TYPE
(48)	CHARACTER	8	EXCMNRID	EXCEPTION RESOURCE ID
(50)	BITSTRING	2	EXCMNTYP	EXCEPTION TYPE
	.... ..1		EXCMNWT	"X'0001" WAIT
	.... ..1.		EXCMNBWT	"X'0002" BUFFER WAIT
	.... ..11		EXCMNSWT	"X'0003" STRING WAIT
(52)	CHARACTER	2		RESERVED
(54)	CHARACTER	8	EXCMNTCN	TRANSACTION CLASS NAME
(5C)	CHARACTER	8	EXCMNSRV	SERVICE CLASS NAME
(64)	CHARACTER	8	EXCMNRPT	REPORT CLASS NAME
(6C)	CHARACTER	20	EXCMNPNX	NETWORK UNIT-OF-WORK PREFIX
(80)	BITSTRING	8	EXCMNNSX	NETWORK UNIT-OF-WORK SUFFIX
(88)	BITSTRING	8	EXCMNTRF	TRANSACTION FLAGS
(90)	CHARACTER	4	EXCMNFCN	TRANSACTION FACILITY NAME
(94)	CHARACTER	8	EXCMNCPN	CURRENT PROGRAM NAME
(9C)	CHARACTER	4	EXCMNBTR	BRIDGE TRANSACTION ID
(A0)	BITSTRING	16	EXCMNURI	RRMS/MVS UNIT OF RECOVERY ID
(B0)	FULLWORD	4	EXCMNRIL	EXCEPTION RESOURCE ID LENGTH
(B4)	BITSTRING	256	EXCMNRIX	EXCEPTION RESOURCE ID (EXTENDED)
END OF EXCEPTION RECORD ...				

**MNG Monitoring domain statistics**

CONTROL BLOCK NAME = DFHMNGDS  
 DESCRIPTIVE NAME = CICS Monitoring domain statistics  
 FUNCTION =  
 This data area contains global statistics provided by the Monitoring Domain  
 It is provided for use in users monitoring applications to map the statistics written to SMF by the statistics domain.  
 There is a single instance of this data block.  
 LIFETIME =  
 This data block is created when the Monitoring Domain is initialised and remains until the domain is shut down.  
 LOCATION =  
 User is passed a pointer to the head of the storage block.  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 MODULE TYPE = Domain call buffer  
 EXTERNAL REFERENCES = none  
 DATA AREAS = none  
 CONTROL BLOCKS = none  
 GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHMNGDS	Monitoring Domain Stats
(0)	FULLWORD	4	(0)	Reserved
(0)	HALFWORD	2	MNGLEN	Length of data
	.1.1 ...1		MNGIDE	"81" Monitoring domain id mask
(2)	ADDRESS	2	MNGID	Monitoring domain id
	.... ...1		MNGVERS	"X'01" DSECT version mask
(4)	CHARACTER	1	MNGDVERS	DSECT version number
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	MNGER	No. Exception records
(C)	FULLWORD	4	MNGERS	No. Exception records supp. by exit
(10)	FULLWORD	4	MNGPR	No. Performance records
(14)	FULLWORD	4	MNGPRS	No. Performance records supp. by exit
(18)	FULLWORD	4	MNGSMFR	No. SMF records
(1C)	FULLWORD	4	MNGSMFE	No. SMF Errors
(20)	FULLWORD	4	MNGSYSER	No. Sysevent records
(24)	FULLWORD	4	MNGSYSEE	No. Sysevent errors
	..1. 1...		MNGEND	***
	..1. 1...		MNGCLEN	**-MNGLEN" Length

## MNSMF SMF header and SMF product section

```

MACRO NAME = DFHMNSMF
DESCRIPTIVE NAME = CICS SMF Header and SMF Product Section
                    for Monitoring
FUNCTION =
    TO GENERATE THE SMF HEADER AND SMF PRODUCT SECTION DSECT
    FOR THE MONITORING SMF RECORDS.
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
REGISTER CONVENTIONS = None
MODULE TYPE = DSECT DEFINITION MACRO
ATTRIBUTES = N/A
PURPOSE = GENERATE THE DSECT FOR THE MONITORING RECORD SMF HEADER
          AND SMF PRODUCT SECTION.
SYNTAX = <name> DFHMNSMF <TYPE=xxx>
INPUTS = NONE
OUTPUTS = DEFINITION FOR SMF HEADER AND SMF PRODUCT SECTION
RETURN CODES = NONE
PROGRAMMING NOTES = NONE
OPERAND = TYPE=xxx
FUNCTION = To provide an overriding field name prefix.
DEFAULT = None
RESTRICTIONS = None
NOTES = None
EXAMPLES
    TYPE=ABC
MACRO MESSAGES =
    DFHMNSMF - INVALID OVERRIDING PREFIX
MACRO EXAMPLES =
GENERATED CODE = NONE
EXTERNAL REFERENCES = NONE
MACROS (MACRO PASS) = NONE
ROUTINES (GENERATED CODE) = NONE
DATA AREAS (GENERATED CODE) = NONE
CONTROL BLOCKS (GENERATED CODE) = NONE
GLOBAL VARIABLES (MACRO PASS) = NONE
    
```

Offset Hex (0)	Type	Len	Name (Dim)	Description
			MNSMFDS	
(0)	BITSTRING	2	SMFMNLEN	RECORD LENGTH
(2)	BITSTRING	2	SMFMNSEG	SEGMENT DESCRIPTOR
(4)	BITSTRING	1	SMFMNFLG	OPERATING SYSTEM INDICATOR
	11.. ....		SMFMNESA	"X'C0" SMF SYSTEM INDICATOR
(5)	BITSTRING	1	SMFMNRTY	RECORD TYPE 110 FOR CICS
(6)	BITSTRING	4	SMFMNTME	TIME RECORD MOVED
(A)	BITSTRING	4	SMFMNDTE	DATE RECORD MOVED
(E)	BITSTRING	4	SMFMNSID	SYSTEM IDENTIFICATION
(12)	CHARACTER	4	SMFMNSSI	SUB-SYSTEM IDENTIFICATION
(16)	BITSTRING	2	SMFMNSTY	RECORD SUBTYPE - 'X'0000' FOR JOURNALING - 'X'0001' FOR MONITORING - 'X'0002' FOR STATISTICS
(18)	BITSTRING	2	SMFMNTRN	NUMBER OF TRIPLETS IN RECORD
(1A)	BITSTRING	2		RESERVED
(1C)	BITSTRING	4	SMFMNAPS	OFFSET TO CICS PRODUCT SECTION
(20)	BITSTRING	2	SMFMNLPS	LENGTH OF CICS PRODUCT SECTION
(22)	BITSTRING	2	SMFMNPPS	NUMBER OF CICS PRODUCT SECTIONS
(24)	BITSTRING	4	SMFMNASS	OFFSET TO CICS DATA SECTION
(28)	BITSTRING	2	SMFMNASL	LENGTH OF CICS DATA SECTION
(2A)	BITSTRING	2	SMFMNASN	NUMBER OF CICS DATA SECTIONS
END OF SMF-HEADER ...				
... START OF SMF PRODUCT-SECTION ...				
(2C)	BITSTRING	2	SMFMNRVN	RECORD VERSION, FORMAT 'X'0VRM' V = VERSION R = RELEASE M = MODIFICATION
(2E)	CHARACTER	8	SMFMNPRN	PRODUCT NAME (APPLID)
(36)	CHARACTER	8	SMFMNSPN	SPECIFIC APPLID
(3E)	BITSTRING	2	SMFMNMFL	RECORD MAINTENANCE INDICATOR
(40)	BITSTRING	2		RESERVED
(42)	BITSTRING	2	SMFMNCL	CLASS OF DATA
(44)	BITSTRING	4	SMFMNDCA	OFFSET TO CICS FIELD CONNECTORS
(48)	BITSTRING	2	SMFMNDCL	LENGTH OF EACH CICS FIELD CONNECTOR
(4A)	BITSTRING	2	SMFMNDCN	NUMBER OF CICS FIELD CONNECTORS
(4C)	BITSTRING	4	SMFMNDRA	OFFSET TO FIRST CICS DATA RECORD
(50)	BITSTRING	2	SMFMNDRL	LENGTH OF EACH CICS DATA RECORD
(52)	BITSTRING	2	SMFMNDRN	NUMBER OF CICS DATA RECORDS
(54)	BITSTRING	20		Reserved
(68)	BITSTRING	4	SMFMNTAD	Local TOD clock adjustment value
(6C)	BITSTRING	8	SMFMNLSO	Leap Second Offset TOD format
(74)	BITSTRING	8	SMFMNDTO	Local Time/Date Offset
(7C)	BITSTRING	2		RESERVED

Offset Hex	Type	Len	Name (Dim)	Description
(7E)	CHARACTER	8	SMFMNJBN	JOBNAME
(86)	BITSTRING	4	SMFMNRSD	JOB DATE
(8A)	BITSTRING	4	SMFMNRST	JOB TIME
(8E)	CHARACTER	8	SMFMNUIF	USER IDENTIFICATION
(96)	CHARACTER	8	SMFMNPDN	OPERATING SYSTEM PRODUCT LEVEL

... END OF SMF PRODUCT-SECTION.

## MNT Transaction monitoring data

CONTROL BLOCK NAME = DFHMNTDS  
 DESCRIPTIVE NAME = CICS Transaction Monitoring data  
 copybook  
 FUNCTION = This copybook describes a transaction monitoring data record. The record is built by the monitoring domain. There is one record for each transaction.  
 LIFETIME = The storage for a record is obtained when a request is made for transaction monitoring data. It is released when the request has been satisfied.  
 LOCATION = The caller is passed a pointer to the head of the record.  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = None  
 CONTROL BLOCKS = In monitoring domain  
 GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHMNTDS	.
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	MNTLEN	Length of data
	.1.1 .1.		MNTIDE	"82" Monitoring domain id mask
(2)	ADDRESS	2	MNTID	Monitoring domain id
	.... 1.1		MNTVERS	"X'01" DSECT version mask
(4)	CHARACTER	1	MNTDVERS	DSECT version number
(5)	CHARACTER	3		Reserved
(8)	HALFWORD	2	TMRBEGIN (0)	
(8)	CHARACTER	4	TMRTRID	TRAN - Transaction identification
(C)	CHARACTER	4	TMREID	TERM - Terminal identification
(10)	CHARACTER	8	TMRUSID	USERID - User identification
(18)	CHARACTER	4	TMRTRTY	TTYPE - Transaction type
(1C)	CHARACTER	8	TMRATT	START - Task start time
(24)	CHARACTER	8	TMRDETT	STOP - Task stop time
(2C)	CHARACTER	4	TMRTRSN	TRANNUM - Transaction sequence number
(30)	BITSTRING	4	TMRTPRI	TRANPRI - Transaction priority
(34)	CHARACTER	8	TMRTCLSN	TCLSNAME - Transaction class name
(3C)	CHARACTER	8	TMRLUNM	LUNAME - VTAM logical unit name
(44)	CHARACTER	8	TMRPGNM	PGMNAME - First program name Originating Network Unit-of-Work id
(4C)	CHARACTER	20	TMRNETPX	NETUOWPX - Network Unit-of-Work Netname
(60)	BITSTRING	8	TMRNETSX	NETUOWSX - Network Unit-of-Work Instance/Seqno
(68)	CHARACTER	4	TMRRSYS	RSYSID - Remote sysid routed to
(6C)	BITSTRING	4	TMRPRCNT	PERRECNT - Performance record count
(70)	CHARACTER	8	TMRMUOW	RMUOWID - Recovery Manager Unit-of-Work id
(78)	CHARACTER	8	TMRSRVCL	SRVCLSNM - Workload Manager service class name
(80)	CHARACTER	8	TMRRPTCL	RPTCLSNM - Workload Manager report class name
(88)	CHARACTER	4	TMRFACTY	FCTYNAME - Transaction Facility name
(8C)	BITSTRING	8	TMRTFLG (0)	TRANFLAG - Transaction flags
(8C)	BITSTRING	1	TMTRFL1	Transaction Flag 1
	1... ....		TMTRFL1_NONE	"X'80" None
	.1. ....		TMTRFL1_TERM	"X'40" Terminal Facility
	..1. ....		TMTRFL1_SURR	"X'20" Surrogate Terminal Facility
	...1 ....		TMTRFL1_DEST	"X'10" Destination Facility
	.... 1..		TMTRFL1_BRDG	"X'08" Bridge Facility EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved
(8D)	BITSTRING	1	TMTRFL2	Transaction Flag 2
	1... ....		TMTRFL2_SYSTEM	"X'80" System Transaction
	.1. ....		TMTRFL2_MIRROR	"X'40" Mirror Transaction
	..1. ....		TMTRFL2_DPL	"X'20" Mirror Transaction - DPL
	...1 ....		TMTRFL2_ONC_RPC	"X'10" Alias Transaction - ONC/RPC
	.... 1..		TMTRFL2_WEB	"X'08" Alias Transaction - WEB
	.... .1.		TMTRFL2_BRIDGE	"X'04" Bridge Transaction EQU X'02' Reserved
	.... ...1		TMRTFFL2_RUN_TRAN	"X'01" BTS Run Transaction
(8E)	BITSTRING	1	TMTRFL3	Transaction Flag 3

Offset Hex	Type	Len	Name (Dim)	Description
	1... ..		TMRTFL3_RPT	"X'80" WLM Report
	.1.. ..		TMRTFL3_NTFY_COMP	"X'40" WLM Notify - Completion
	.1. ....		TMRTFL3_NTFY	"X'20" WLM Notify
(8F)	BITSTRING	1	TMRTFL4	Transaction Flag 4
	1... ..		TMRTFL4_LOC_BELOW	"X'80" Taskdataloc=below
	.1.. ..		TMRTFL4_CICS_KEY	"X'40" Taskdatakey=cics
	.1. ....		TMRTFL4_ISOLATE_NO	"X'20" Isolate=no
	...1 ..		TMRTFL4_DYNAMIC	"X'10" Dynamic=yes EQU X'08' Reserved EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved
(90)	BITSTRING	1	TMRTFL5	Transaction Flag 5 Transaction origin type
(91)	BITSTRING	1	TMRTFL6	Transaction Flag 6 - Reserved
(92)	BITSTRING	1	TMRTFL7	Transaction Flag 7 - Reserved
(93)	BITSTRING	1	TMRTFL8	Transaction Flag 8
	1... ..		TMRTFL8_WAIT_NO	"X'80" Indoubt wait = no
	.1.. ..		TMRTFL8_COMMIT	"X'40" Indoubt action = commit
	.1. ....		TMRTFL8_INDOUBT_ACT	"X'20" UOW Indoubt action
	...1 ..		TMRTFL8_UOW_SHUNT	"X'10" UOW Shunt
	.... 1..		TMRTFL8_UOW_UNSHUNT	"X'08" UOW Unshunt
	.... .1..		TMRTFL8_INDBT_FAIL	"X'04" Indoubt failure
	.... .1.		TMRTFL8_RO_FAILURE	"X'02" Resource Owner failure EQU X'01' Reserved
(94)	BITSTRING	4	TMRTINF (0)	TERMINFO - Terminal Information
(94)	BITSTRING	1	TMRNATUR	Nature
	.... ..		TMRNATUR_NOTAPPLIC	"X'00" Not applic
	.... .1		TMRNATUR_TERMINAL	"X'01" Terminal
	.... .1.		TMRNATUR_SESSION	"X'02" Session
(95)	BITSTRING	1	TMRSST	Session Type
	.... ..		TMRSST_NOTAPPLIC	"X'00" Not applic
	.... .1		TMRSST_IRC	"X'01" IRC
	.... .1.		TMRSST_IRC_XM	"X'02" IRC XM
	.... .11		TMRSST_IRC_XCF	"X'03" IRC XCF
	.... .1..		TMRSST_LU61	"X'04" LU61
	.... .1.1		TMRSST_LU62_SING	"X'05" LU62 SINGLE
	.... .11.		TMRSST_LU62_PARA	"X'06" LU62 PARALLEL
(96)	BITSTRING	1	TMRTMTH	Access method
	.... ..		TMRTMTH_NOTAPPLIC	"X'00" Not applic
	.... .1		TMRTMTH_VTAM	"X'01" VTAM
	.... .1.		TMRTMTH_BTAM	"X'02" BTAM
	.... .11		TMRTMTH_BSAM	"X'03" BSAM
	.... .1..		TMRTMTH_TCAM	"X'04" TCAM
	.... .1.1		TMRTMTH_TCAMSNA	"X'05" TCAMSNA
	.... .11.		TMRTMTH_BGAM	"X'06" BGAM
	.... .111		TMRTMTH_CONSOLE	"X'07" CONSOLE
(97)	BITSTRING	1	TMRTVTC	Device type code See TYPETERM RDO attribute
(98)	CHARACTER	4	TMRTCONM	TERMCONM - Terminal Connection name
(9C)	CHARACTER	4	TMRTBRID	BRDGRAN - Bridge Transaction id
(A0)	CHARACTER	16	TMRTURID	RRMSURID - RRMS/MVS Unit of Recovery id
(B0)	CHARACTER	36	TMRTNAME	PRCSNAME - Process name
(D4)	CHARACTER	8	TMRTTYPE	PRCSTYPE - Process type
(DC)	CHARACTER	52	TMRTPCID	PRCSID - Process id
(110)	CHARACTER	52	TMRTACTID	ACTVTYID - Activity id
(144)	CHARACTER	16	TMRTACTNM	ACTVTYNM - Activity name
(154)	CHARACTER	16	TMRTIPADR	CLIPADDR - Client IP Address
(164)	BITSTRING	28	TMRTGPID	TRNGRPID - TRANSACTION GROUP ID
(180)	BITSTRING	4	TMRTERR	TASKFLAG - Transaction error flags
(184)	CHARACTER	4	TMRTABCO	ABCODEO - Original Transaction abend codes
(188)	CHARACTER	4	TMRTABCD	ABCODEC - Current Transaction abend code
(18C)	CHARACTER	4	TMRTYPE	RTYPE - Record type
	11.. .11		TMRTTYPE_CONVERSE	"C'C" Converse
	11.. .1..		TMRTTYPE_DELIVER	"C'D" Deliver
	11.. .11.		TMRTTYPE_FREQUENCY	"C'F" Frequency
	111. .1.		TMRTTYPE_SYNCPOINT	"C'S" Syncpoint
	111. .11		TMRTTYPE_TERMINATE	"C'T" Terminate
(190)	BITSTRING	4	TMRTPINMC	TCMSGIN1 - Primary TC messages - in
(194)	BITSTRING	4	TMRTCI1C	TCCHRIN1 - Primary TC characters - in
(198)	BITSTRING	4	TMRTPOUMC	TCMSGOU1 - Primary TC messages - out
(19C)	BITSTRING	4	TMRTCO1C	TCCHROU1 - Primary TC characters - out
(1A0)	BITSTRING	4	TMRTSINMC	TCMSGIN2 - Secondary TC messages - in
(1A4)	BITSTRING	4	TMRTCI2C	TCCHRIN2 - Secondary TC characters - in
(1A8)	BITSTRING	4	TMRTSOUTC	TCMSGOU2 - Secondary TC messages - out
(1AC)	BITSTRING	4	TMRTCO2C	TCCHROU2 - Secondary TC characters - out
(1B0)	BITSTRING	4	TMRT62IMC	TCM62IN2 - Secondary TC msgs for LU6.2. - in
(1B4)	BITSTRING	4	TMRT62IC	TCC62IN2 - Secondary TC chars for LU6.2. - in
(1B8)	BITSTRING	4	TMRT62OMC	TCM62OU2 - Secondary TC msgs for LU6.2. - out
(1BC)	BITSTRING	4	TMRT62OCH	TCC62OU2 - Secondary TC chars for LU6.2. - out
(1C0)	BITSTRING	4	TMRTAC	TALLOCT - No. TCTTE allocate requests
(1C4)	BITSTRING	4	TMRTSCUGB	SCUGETCT - No. user storage getmains below line
(1C8)	BITSTRING	4	TMRTSCUGA	- No. user storage getmains above line
(1CC)	BITSTRING	4	TMRTSCCGB	SCCGETCT - No. CDSA storage getmains below line
(1D0)	BITSTRING	4	TMRTSCCGA	- No. ECDSA storage getmains above line
(1D4)	BITSTRING	4	TMRTSHWB	SCUSRHWM - User task storage hwm below line

Offset Hex	Type	Len	Name (Dim)	Description
(1D8)	BITSTRING	4	TMRUSHWA	- User task storage hwm above line
(1DC)	BITSTRING	4	TMRCHWMB	SC24CHWM - CDSA storage hwm below the line
(1E0)	BITSTRING	4	TMRCHWMA	SC31CHWM - ECDSA storage hwm above the line
(1E4)	BITSTRING	8	TMRUTSOB	SCUSRSTG - User task stge "occupancy" below line
(1EC)	BITSTRING	8	TMRUTSOA	- User task stge "occupancy" above line
(1F4)	BITSTRING	8	TMRCOCCB	SC24COCC - CDSA storage "occupancy" below line
(1FC)	BITSTRING	8	TMRCOCCA	SC31COCC - ECDSA storage "occupancy" above line
(204)	BITSTRING	4	TMRSC24S	SC24SGCT - Shared stg getmain count below 16M
(208)	BITSTRING	4	TMRSC24G	SC24GSHR - Shared stg bytes getmain'd
(20C)	BITSTRING	4	TMRSC24F	SC24FSHR - Shared stg bytes freemain'd
(210)	BITSTRING	4	TMRSC31S	SC31SGCT - Shared stg getmain count above 16M
(214)	BITSTRING	4	TMRSC31G	SC31GSHR - Shared stg bytes getmain'd
(218)	BITSTRING	4	TMRSC31F	SC31FSHR - Shared stg bytes freemain'd
(21C)	BITSTRING	4	TMRPCUSE	PCSTGHWM - Program storage hwm
(220)	BITSTRING	4	TMRPC31A	PC31AHWM - Prog storage hwm above the line
(224)	BITSTRING	4	TMRPCUSB	PC24BHWM - Prog storage hwm below the line
(228)	BITSTRING	4	TMRPCCAH	PC31CHWM - ECDSA prog storage hwm above
(22C)	BITSTRING	4	TMRPCCBH	PC24CHWM - CDSA prog storage hwm below
(230)	BITSTRING	4	TMRPCRAH	PC31RHWM - R/O prog storage hwm above
(234)	BITSTRING	4	TMRPCRBH	PC24RHWM - R/O prog storage hwm below
(238)	BITSTRING	4	TMRPCSAH	PC31SHWM - Shared prog storage hwm above
(23C)	BITSTRING	4	TMRPCSBH	PC24SHWM - Shared prog storage hwm below
(240)	BITSTRING	4	TMRFCGC	FCGETCT - No. file gets
(244)	BITSTRING	4	TMRFCPC	FCPUTCT - No. file puts
(248)	BITSTRING	4	TMRFCBC	FCBRWCT - No. file browses
(24C)	BITSTRING	4	TMRFCAC	FCADDCT - No. file adds
(250)	BITSTRING	4	TMRFCDC	FCDELCT - No. file deletes
(254)	BITSTRING	4	TMRFCTC	FCTOTCT - Total FC requests
(258)	BITSTRING	4	TMRFCAMC	FCAMCT - No. access method requests
(25C)	BITSTRING	4	TMRTDGC	TDGETCT - No. transient data gets
(260)	BITSTRING	4	TMRTDPC	TDPUTCT - No. transient data puts
(264)	BITSTRING	4	TMRTDRC	TDPURCT - No. transient data purges
(268)	BITSTRING	4	TMRTDTC	TDTOTCT - Total TD requests
(26C)	BITSTRING	4	TMRMSGC	TSGETCT - No. temp storage gets
(270)	BITSTRING	4	TMRSPAC	TSPUTACT - No. temp storage puts - aux
(274)	BITSTRING	4	TMRSPMC	TSPUTMCT - No. temp storage puts - main
(278)	BITSTRING	4	TMRSTC	TSOTCT - Total TS requests
(27C)	BITSTRING	4	TMRBMMC	BMSMAPCT - No. BMS map requests
(280)	BITSTRING	4	TMRBMIC	BMSINCT - No. BMS in requests
(284)	BITSTRING	4	TMRBMOC	BMSOUTCT - No. BMS out requests
(288)	BITSTRING	4	TMRBMTCT	BMSTOTCT - Total BMS requests
(28C)	BITSTRING	4	TMRPCLIC	PCLINKCT - No. program links
(290)	BITSTRING	4	TMRPCXC	PCXCTLCT - No. program xctls
(294)	BITSTRING	4	TMRPCLOC	PCLOADCT - No. program loads
(298)	BITSTRING	4	TMRPCLUC	PCLURMCT - No. program links to URMs
(29C)	BITSTRING	4	TMRPCDPL	PCDPLCT - No. DPL program links
(2A0)	BITSTRING	4	TMRJNLCT	JNLWRCT - No. journal write requests
(2A4)	BITSTRING	4	TMRLOGWCT	LOGWRCT - No. CICS logger write requests
(2A8)	BITSTRING	4	TMRICCT	ICPUICT - No. interval control starts
(2AC)	BITSTRING	4	TMRICTCT	ICTOTCT - Total interval control requests
(2B0)	BITSTRING	4	TMRSPPC	SPSYNCT - No. syncpoint requests
(2B4)	BITSTRING	4	TMRFACT	CFCAPICT - No. OO Class Library API requests
(2B8)	BITSTRING	4	TMRSZACT	SZALLOCT - No. FEPI allocates
(2BC)	BITSTRING	4	TMRSZRCT	SZRCVCT - No. FEPI receives
(2C0)	BITSTRING	4	TMRSZSCT	SZSENDCT - No. FEPI sends
(2C4)	BITSTRING	4	TMRSZTCT	SZSTRCT - No. FEPI starts
(2C8)	BITSTRING	4	TMRSZCOT	SZCHROUT - No. chars sent via FEPI
(2CC)	BITSTRING	4	TMRSZCIN	SZCHRIN - No. chars received via FEPI
(2D0)	BITSTRING	4	TMRSZATO	SZALLCTO - No. FEPI allocate timeouts
(2D4)	BITSTRING	4	TMRSZRTO	SZRCVTO - No. FEPI receive timeouts
(2D8)	BITSTRING	4	TMRSZTOT	SZTOTCT - Total no. FEPI requests
(2DC)	BITSTRING	4	TMRBARSC	BARSYNCT - No. Run Process/Activity Sync
(2E0)	BITSTRING	4	TMRBARAC	BARASYCT - No. Run Process/Activity Async
(2E4)	BITSTRING	4	TMRBALKC	BALKPACT - No. Link Process/Activity reqs
(2E8)	BITSTRING	4	TMRBADPC	BADPROCT - No. Define Process requests
(2EC)	BITSTRING	4	TMRBADAC	BADACTCT - No. Define Activity requests
(2F0)	BITSTRING	4	TMRBTPAC	BARSPACT - No. Reset Process/Activity requests
(2F4)	BITSTRING	4	TMRBSPAC	BASUPACT - No. Suspend Process/Activity requests
(2F8)	BITSTRING	4	TMRBRPAC	BARMPACT - No. Resume Process/Activity requests
(2FC)	BITSTRING	4	TMRBDPC	BADPCACT - No. Delete Activity and Cancel Process or Activity requests
(300)	BITSTRING	4	TMRBAAPC	BAACQPCT - No. Acquire Process requests
(304)	BITSTRING	4	TMRBATPC	BATOTPCT - Total No. Process/Activity requests
(308)	BITSTRING	4	TMRBAPDC	BAPRDCT - No. Process Data Container requests
(30C)	BITSTRING	4	TMRBAADC	BAACDCCT - No. Activity Data Container requests
(310)	BITSTRING	4	TMRBATCC	BATOTCCT - Total No. Data Container requests
(314)	BITSTRING	4	TMRBAREC	BARATECT - No. Retrieve Reattach Event requests
(318)	BITSTRING	4	TMRBADIC	BADFIECT - No. Define Input Event requests
(31C)	BITSTRING	4	TMRBATAEC	BATIAECT - No. Timer Associated Event requests
(320)	BITSTRING	4	TMRBATEC	BATOTECT - Total No. Event requests
(324)	BITSTRING	4	TMRWBRCT	WBRCVCT - No. WEB Receive requests
(328)	BITSTRING	4	TMRWBCTIN	WBCHRIN - No. Characters received via WEB reqs
(32C)	BITSTRING	4	TMRWBSCT	WBSENDCT - No. WEB Send requests
(330)	BITSTRING	4	TMRWBCOT	WBCHROUT - No. Characters sent via WEB requests
(334)	BITSTRING	4	TMRWBCT	WBTOTCT - Total No. WEB requests
(338)	BITSTRING	4	TMRWBRPR	WBREPRCT - No. Repository Reads
(33C)	BITSTRING	4	TMRWBRPW	WBREPCT - No. Repository Writes



Offset Hex	Type	Len	Name (Dim)	Description
(340)	BITSTRING	4	TMRDHCRC	DHCRECT - No. Document Create requests
(344)	BITSTRING	4	TMRDHINC	DHINSCT - No. Document Insert requests
(348)	BITSTRING	4	TMRDHSTC	DHSETCT - No. Document Set requests
(34C)	BITSTRING	4	TMRDHRTC	DHRETCT - No. Document Retrieve requests
(350)	BITSTRING	4	TMRDHTC	DHTOTCT - Total No. Document requests
(354)	BITSTRING	4	TMRDHTDL	DHTOTDCL - Total Document Created length
(358)	BITSTRING	4	TMRSOBEN	SOBYENCT - No. Bytes Encrypted
(35C)	BITSTRING	4	TMRSOBDE	SOBYDECT - No. Bytes Decrypted
(360)	BITSTRING	4	TMRIMSRC	IMSREQCT - Total No. IMS requests
(364)	BITSTRING	4	TMRDB2RC	DB2REQCT - Total No. DB2 requests
(368)	BITSTRING	4	TMRCHMDC	CHMODECT - No. CICS Dispatcher Change Mode's
(36C)	BITSTRING	4	TMRTCBAC	TCBATTCT - No. CICS Dispatcher TCB Attach's
(370)	BITSTRING	8	TMRDIST	USRDISPT - User task Dispatch time
(378)	BITSTRING	8	TMRCPUT	USRCPUT - User task Cpu time
(380)	BITSTRING	8	TMRSUST	SUSPTIME - Task Suspend time
(388)	BITSTRING	8	TMRDWT	DISPWTT - Dispatch Wait time
(390)	BITSTRING	8	TMRQRDSP	QRDISPT - User task QR Mode Dispatch time
(398)	BITSTRING	8	TMRQRCPU	QRCPUT - User task QR Mode Cpu time
(3A0)	BITSTRING	8	TMRMSDSP	MSDISPT - User task Other Mode Dispatch time
(3A8)	BITSTRING	8	TMRMSCPU	MSCPUP - User task Other Mode Cpu time
(3B0)	BITSTRING	8	TMRL8CPU	L8CPUP - User task L8 Mode Cpu time
(3B8)	BITSTRING	8	TMRJ8CPU	J8CPUP - User task J8 Mode Cpu time
(3C0)	BITSTRING	8	TMR88CPU	S8CPUP - User task S8 Mode Cpu time
(3C8)	BITSTRING	8	TMRQRDLY	QRMODDLY - QR Mode delay time
(3D0)	BITSTRING	8	TMRDLY	MAXOTDLY - Max Open TCB delay time
(3D8)	BITSTRING	8	TMRXWTT	EXWTTIME - Exception wait time
(3E0)	BITSTRING	8	TMRTCWT	TCIOWTT - TC i/o wait time
(3E8)	BITSTRING	8	TMRFCWT	FCIOWTT - FC i/o wait time
(3F0)	BITSTRING	8	TMRJCWT	JCIOWTT - JC i/o wait time
(3F8)	BITSTRING	8	TMRTSWT	TSIOWTT - TS i/o wait time
(400)	BITSTRING	8	TMRIRWT	IRIOWTT - IR i/o wait time
(408)	BITSTRING	8	TMRDWT	TDIOWTT - TD i/o wait time
(410)	BITSTRING	8	TMRPCLT	PCLOADTM - Program load time
(418)	BITSTRING	8	TMRFDLY	DSPDELAY - 1st Dispatch delay - TCLASS,MXT,etc
(420)	BITSTRING	8	TMRFDCL	TCLDELAY - 1st Dispatch delay due to TCLASS
(428)	BITSTRING	8	TMRDMXT	MXTDELAY - 1st Dispatch delay due to MXT
(430)	BITSTRING	8	TMRNQDLY	ENQDELAY - Local ENQ delay time
(438)	BITSTRING	8	TMRGQDLY	GNQDELAY - Global ENQ delay time
(440)	BITSTRING	8	TMR61WT	LU61WTT - LU61 i/o wait time
(448)	BITSTRING	8	TMR62WT	LU62WTT - LU62 i/o wait time
(450)	BITSTRING	8	TMRSZWT	SZWAIT - FEPI suspend time
(458)	BITSTRING	8	TMRMIT	RMITIME - Total RMI elapsed time
(460)	BITSTRING	8	TMRMIS	RMISUSP - Total RMI suspend time
(468)	BITSTRING	8	TMRSYNCT	SYNCTIME - Syncpoint elapsed time
(470)	BITSTRING	8	TMRRLSWT	RLSWAIT - RLS wait time
(478)	BITSTRING	8	TMRRLSCP	RLSCPUP - RLS SRB CPU time
(480)	BITSTRING	8	TMRMLDLY	LMDELAY - Lock Mgr delay time
(488)	BITSTRING	8	TMRWTXWT	WTEXWAIT - Wait External wait time
(490)	BITSTRING	8	TMRWCEWT	WTCEWAIT - Wait CICS/Event wait time
(498)	BITSTRING	8	TMRICDLY	ICDELAY - Interval control delay time
(4A0)	BITSTRING	8	TMRGVPWT	GVUPWAIT - Give up control wait time
(4A8)	BITSTRING	8	TMRSHWT	TSSHWAIT - Shared TS wait time
(4B0)	BITSTRING	8	TMRCDTWT	CFDTWAIT - CF Data Table wait time
(4B8)	BITSTRING	8	TMRSYWTT	SRVSYWTT - Server Syncpoint wait time
(4C0)	BITSTRING	8	TMRRRSWT	RRMSWAIT - RRMS/MVS wait time
(4C8)	BITSTRING	8	TMRRTWTT	RUNTRWTT - Run Transaction wait time
(4D0)	BITSTRING	8	TMRSDLY	SYNCDLY - Syncpoint delay time
(4D8)	BITSTRING	8	TMRSOWT	SOIOWTT - Socket I/O wait time
(4E0)	BITSTRING	8	TMRIMSWT	IMSWAIT - IMS wait time
(4E8)	BITSTRING	8	TMRRDQWT	DB2RDYQW - DB2 Readyq wait time
(4F0)	BITSTRING	8	TMRCONWT	DB2CONWT - DB2 Connection wait time
(4F8)	BITSTRING	8	TMRDB2WT	DB2WAIT - DB2 wait time
(500)	BITSTRING	8	TMRJVMT	JVMTIME - Total JVM elapsed time
(508)	BITSTRING	8	TMRJVMS	JVMSUSP - Total JVM suspend time
(508)	BITSTRING	8	MNTCLN	"-MNTLEN" length of DSECT

## MRC Transient data VSAM control

MODULE NAME = DFHMRCPS  
 DESCRIPTIVE NAME = Transient Data VSAM Control  
 CICS/ESA AP Domain

FUNCTION =  
 Copybook DFHMRCPS provides structures, DFHMRCBA and DFHMRCB and DFHMRSB.  
 DFHMRCBA describes the String Common Area (MRCA), only one MRCA is allocated.  
 DFHMRCB describes the String Control Block (MRCB), one MRCB is allocated for each VSAM string.  
 DFHMRSB describes the Segment Descriptor (MRSD), the number of MRSDs allocated depends on the size of the intrapartition data set.

LIFETIME =  
 The lifetime of the control blocks and I/O buffers is essentially that of CICS.

STORAGE CLASS =  
 The control blocks are located in storage allocated from the DFHTDG31 subpool.  
 Note that the number of VSAM strings is defined as a SIT parameter / override.

LOCATION =  
 The MRCA is located from the TDST.  
 MRCBs, if unallocated, are located on a chain whose anchor is located in the MRCA.  
 MRSDs are located on a chain whose anchor is located in the MRCA.  
 Note that the update ACB and output ACB are located from the MRCA.  
 Note also that the RPL and VSAM Error Message Area (VEMA) are located from the associated MRCB.

INNER CONTROL BLOCKS =  
 There are no inner control blocks.

NOTES :  
 DEPENDENCIES =  
 S/370

RESTRICTIONS =  
 There are no restrictions.

MODULE TYPE =  
 Control block definition.  
 MULTIPLE STRINGS - STRING COMMON AREA (MRCA)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	212	DFHMRCBA	
(0)	CHARACTER	16	MRCA_PREFIX	prefix
(0)	HALFWORD	2	MRCA_LENGTH	- length
(2)	CHARACTER	1	MRCA_ARROW	- value - '>'
(3)	CHARACTER	3	MRCA_DFH	- value - 'DFH'
(6)	CHARACTER	2	MRCA_DOMID	- value - 'TD'
(8)	CHARACTER	8	MRCA_BLOCK	- value - 'MRCA '
(10)	CHARACTER	4	MRCA_DFP	DFP release level
(10)	BITSTRING	1	MRCA_DFP_VR	- version, release
(11)	BITSTRING	1	MRCA_DFP_M0	- modification, 0
(12)	BITSTRING	2	*	- reserved
(14)	CHARACTER	64	MRCA_ACB	ACB
(14)	CHARACTER	8	MRCA_DDNAME	- DDNAME
(1C)	CHARACTER	44	MRCA_DSNAME	- DSNAME
(48)	FULLWORD	4	MRCA_STR_N	- #(strings)
(4C)	ADDRESS	4	MRCA_UACB_P	- A(update ACB)
(50)	ADDRESS	4	MRCA_OACB_P	- A(output ACB)
(54)	CHARACTER	24	MRCA_DS	data set
(54)	FULLWORD	4	MRCA_CL_L	- L(control interval)
(58)	FULLWORD	4	MRCA_MIN_L	- L(user data) - minimum
(5C)	FULLWORD	4	MRCA_MAX_L	- L(user data) - maximum
(60)	FULLWORD	4	MRCA_I_RBA	- initial RBA
(64)	FULLWORD	4	MRCA_N_RBA	- next RBA
(68)	FULLWORD	4	MRCA_H_RBA	- high RBA
(6C)	CHARACTER	8	MRCA_CSM	CI status map
(6C)	ADDRESS	4	MRCA_MRSD_P	- A(first MRSD) or 0
(70)	FULLWORD	4	MRCA_MRSD_N	- #(MRSDs allocated)
(74)	CHARACTER	8	MRCA_SRC_1	MRCB allocation chain
(74)	ADDRESS	4	MRCA_TCA_P	- A(owning TCA) or 0
(78)	ADDRESS	4	MRCA_MWCB_P	- A(first MWCB) or 0
(7C)	CHARACTER	8	MRCA_SRC_2	CI formatting chain
(7C)	ADDRESS	4	*	- A(owning TCA) or 0
(80)	ADDRESS	4	*	- A(first MWCB) or 0
(84)	CHARACTER	4	MRCAECB	ECB WORD
	1... ....		*	- ECB BYTE
	.1.. ....		MRCACSMI	- CSM BUILD COMPLETE

Offset Hex	Type	Len	Name (Dim)	Description
(84)	BITSTRING	2	*	RESERVED
(87)	UNSIGNED	1	MRCAERC1	- RETURN CODE
(88)	CHARACTER	4	*	MRCA STATUS
(88)	CHARACTER	1	MRCAFLG0	- DATASET
	1... ..		MRCAPEN	- OPENED
	.1. ....		MRCAESDS	- VSAM ESDS
	.1. ....		MRCADDST	- DD STATEMENT
	...1 1111		*	- RESERVED
(89)	CHARACTER	1	MRCAFLG1	- CONTENTS
	1... ..		MRCAMPTY	- EMPTY (INITIALLY)
	.1. ....		MRCFULL	- FULL
	...1 1111		*	- RESERVED
(8A)	CHARACTER	1	MRCAFLG2	- CSM INIALIZATION
	1... ..		MRCACSMR	- REQUIRED
	.1. ....		MRCACSMR	- IN PROGRESS
	...1 1111		MRCACSMC	- COMPLETE
	...1 1111		*	- RESERVED
(8B)	CHARACTER	1	MRCAFLG3	- RESERVED
(8B)	BITSTRING	1	*	- RESERVED
(8C)	CHARACTER	16	*	MRCB CHAIN ANCHORS
(8C)	CHARACTER	8	MRCACHN1	- UNALLOCATED CHAIN
(8C)	ADDRESS	4	MRC AFCN1	- A(FIRST MRCB)
(90)	ADDRESS	4	MRC ABCN1	- A(LAST MRCB)
(94)	CHARACTER	8	MRCACHNS	- STATIC CHAIN
(94)	ADDRESS	4	MRC AFCNS	- A(FIRST MRCB)
(98)	ADDRESS	4	*	- RESERVED
(9C)	CHARACTER	24	*	MRCB STATISTICS
(9C)	CHARACTER	12	*	- ALLOCATION REQUESTS
(9C)	FULLWORD	4	MRCATNAL	- TOTAL
(A0)	FULLWORD	4	MRCACNAL	- CURRENT CONCURRENT
(A4)	FULLWORD	4	MRCAMXAL	- MAXIMUM CONCURRENT
(A8)	CHARACTER	12	*	- QUEUED REQUESTS
(A8)	FULLWORD	4	MRCATNWT	- TOTAL
(AC)	FULLWORD	4	MRCACNWT	- CURRENT CONCURRENT
(B0)	FULLWORD	4	MRCAMXWT	- MAXIMUM CONCURRENT
(B4)	CHARACTER	32	*	DATASET STATISTICS
(B4)	FULLWORD	4	MRCANCIS	- CURRENT CIS FORMATTED
(B8)	FULLWORD	4	MRC ACTCI	- CURRENT CIS ALLOCATED
(BC)	FULLWORD	4	MRCAMXCI	- MAXIMUM CIS ALLOCATED
(C0)	FULLWORD	4	MRCANOSP	- NOSPACE RETURNED
(C4)	FULLWORD	4	MRC ACTPT	- PUT REQUESTS
(C8)	FULLWORD	4	MRC ACTGT	- GET REQUESTS
(CC)	FULLWORD	4	MRC ACTFT	- FORMAT REQUESTS
(D0)	FULLWORD	4	MRC ACTIO	- I/O ERRORS
(D4)	CHARACTER		*	

MULTIPLE STRINGS - STRING CONTROL BLOCK (MRCB)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	32	DFHMRCB	
(0)	CHARACTER	16	*	MRCB chains
(0)	ADDRESS	4	MRCBFCHN	- A(next inactive MRCB)
(4)	ADDRESS	4	MRCBBCHN	- A(previous inactive MRCB)
(8)	ADDRESS	4	MRCBSCHN	- A(next static MRCB) or 0
(C)	ADDRESS	4	*	- reserved
(10)	CHARACTER	16	*	associated control blocks
(10)	ADDRESS	4	MRCB_RPL_P	- A(RPL)
(14)	ADDRESS	4	MRCB_VE MA_P	- A(VSAM error message area)
(18)	ADDRESS	4	MRCB_MBCB_P	- A(MBCB) or 0
(1C)	ADDRESS	4	MRCB_MWCB_P	- A(MWCB) or 0
(20)	CHARACTER		*	

CI STATUS MAP - SEGMENT DESCRIPTOR (MRSD)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	576	DFHMRSD	
(0)	CHARACTER	16	MRSD_PREFIX	prefix
(0)	HALFWORD	2	MRSD_LENGTH	- length
(2)	CHARACTER	1	MRSD_ARROW	- value - '>'
(3)	CHARACTER	3	MRSD_DFH	- value - 'DFH'
(6)	CHARACTER	2	MRSD_DOMID	- value - 'TD'
(8)	CHARACTER	8	MRSD_BLOCK	- value - 'MRSD '
(10)	CHARACTER	8	MRSD_STATS	

Offset Hex	Type	Len	Name (Dim)	Description
(10)	FULLWORD	4	MRSD_CIS_ ALLOCATED	CIs allocated
(14)	FULLWORD	4	*	Reserved
(18)	CHARACTER	20	MRSDPFIX	SEGMENT PREFIX
(18)	CHARACTER	4	MRSDPFID	- EYE CATCHER
(1C)	FULLWORD	4	MRSDPFLN	- LENGTH
(20)	FULLWORD	4	MRSDPFLN	- #(FIRST CI IN SEGMENT)
(24)	FULLWORD	4	MRSDPFUL	- #(LAST CI IN SEGMENT)
(28)	ADDRESS	4	MRSDPFCN	- A(NEXT SEGMENT) OR 0
(2C)	CHARACTER	512	*	SEGMENT DATA
(2C)	CHARACTER	256	MRSDSEGM	- MASTER AS SCALAR
(2C)	CHARACTER	1	MRSDSARM (0 255)	- MASTER AS ARRAY
(12C)	CHARACTER	256	MRSDSEGB	- BACK-UP AS SCALAR
(12C)	CHARACTER	1	MRSDSARB (0 255)	- BACK-UP AS ARRAY
(22C)	CHARACTER	20	MRSDSFIX	SEGMENT SUFFIX
(22C)	CHARACTER	4	MRSDSFID	- EYE CATCHER
(230)	FULLWORD	4	MRSDSFLN	- LENGTH
(234)	FULLWORD	4	MRSDSFLN	- #(FIRST CI IN SEGMENT)
(238)	FULLWORD	4	MRSDSFUL	- #(LAST CI IN SEGMENT)
(23C)	ADDRESS	4	MRSDSFCN	- A(NEXT SEGMENT) OR 0
(240)	CHARACTER		*	

### Constants

Len	Type	Value	Name	Description
1	HEX	21	MRCA_DFP_21	- V2 R1
1	HEX	22	MRCA_DFP_22	- V2 R2
1	HEX	23	MRCA_DFP_23	- V2 R3

## MWCB Transient data wait control

MODULE NAME = DFHMWCP5  
 DESCRIPTIVE NAME = Transient Data Wait Control  
 CICS/ESA AP Domain

FUNCTION =  
 Copybook DFHMWCP5 provides structure DFHMWCB.  
 DFHMWCB describes the Wait Control Block (MWCB),  
 a MWCB is allocated on an as required basis.

LIFETIME =  
 The lifetime of the control block is essentially  
 that of the wait. They are allocated when it is  
 necessary to suspend a task and freed when the task is  
 resumed.

STORAGE CLASS =  
 The control block is located in storage allocated  
 from the DFHTDWCB subpool.

LOCATION =  
 The MWCB is located from  
 1. a DCTE  
 2. the MBCA  
 3. a MBCB  
 2. the MRCA  
 3. a MRCB  
 depending on the event being waited on.

INNER CONTROL BLOCKS =  
 There are no inner control blocks.

NOTES :  
 DEPENDENCIES =  
 S/370

RESTRICTIONS =  
 There are no restrictions.

MODULE TYPE =  
 Control block definition.  
 MULTIPLE BUFFERS - WAIT CONTROL BLOCK (MWCB)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	40	DFHMWCB	
(0)	CHARACTER	16	MWCB_PREFIX	prefix
(0)	HALFWORD	2	MWCB_LENGTH	- length
(2)	CHARACTER	1	MWCB_ARROW	- value - '>'
(3)	CHARACTER	3	MWCB_DFH	- value - 'DFH'
(6)	CHARACTER	2	MWCB_DOMID	- value - 'TD'
(8)	CHARACTER	8	MWCB_BLOCK	- value - 'MWCB '

Offset Hex	Type	Len	Name (Dim)	Description
(10)	ADDRESS	4	MWCB_MWCB_P	A(next MWCB) or 0
(14)	FULLWORD	4	MWCB_TASK_TOKEN	- task token
(18)	ADDRESS	4	MWCB_SR_TOK	- SUSPEND/RESUME token
(1C)	CHARACTER	4	MWCB_TXN_NUMBER	- Owning txn number
(20)	CHARACTER	4	*	- reserved
(24)	CHARACTER	4	*	- reserved
(28)	CHARACTER	4	*	- reserved

## NCS4D Named counter server cf statistics

CONTROL BLOCK NAME = DFHNCS4D  
 DESCRIPTIVE NAME = CICS Named Counter Server List Str Stats  
 FUNCTION = NC server list structure usage and access statistics.  
 NOTES :  
 DEPENDENCIES = S/370  
 MODULE TYPE = Control block definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHNCS4D	, NC list structure statistics record
(0)	FULLWORD	4	S4 (0)	Start of record
(0)	HALFWORD	2	S4LEN	Length of data area
	.111 11..		S4IDE	"0124" List structure stats mask
(2)	ADDRESS	2	S4ID	List structure stats id
	.... ..1		S4VERS	"X'01" DSECT version number mask
(4)	CHARACTER	1	S4DVERS	List structure stats version number
(5)	CHARACTER	3		Reserved

Coupling facility list structure status information.

(8)	CHARACTER	16	S4NAME (0)	Full name of list structure
(8)	CHARACTER	8	S4PREF	First part of structure name
(10)	CHARACTER	8	S4POOL	Pool name part of structure name
(18)	CHARACTER	16	S4CNNAME (0)	Name for connection to structure
(18)	CHARACTER	8	S4CNPREF	Prefix for connection name
(20)	CHARACTER	8	S4CNSYSN	Own MVS system name from CVTSNAME
(28)	ADDRESS	4	S4SIZE	Structure size (unsigned fullword)
(2C)	ADDRESS	4	S4SIZEMX	Maximum structure size

Usage statistics.

Entry usage statistics.

Note that lowest free counts are kept as well as highest in use counts because the maximum values may be affected by an ALTER.

(30)	FULLWORD	4	S4ENTRCT	Current number of entries in use
(34)	FULLWORD	4	S4ENTRHI	Highest number of entries in use
(38)	FULLWORD	4	S4ENTRLO	Lowest number of free entries
(3C)	FULLWORD	4	S4ENTRMX	Max entries returned by IXLCONN

Coupling facility I/O statistics.

Statistics for each main type of CF request.

(40)	FULLWORD	4	S4CRECT	Create counter
(44)	FULLWORD	4	S4GETCT	Get and increment counter
(48)	FULLWORD	4	S4SETCT	Set counter
(4C)	FULLWORD	4	S4DELCT	Delete counter
(50)	FULLWORD	4	S4KEQCT	Inquire KEQ
(54)	FULLWORD	4	S4KGETCT	Inquire KGE

Statistics for internal CF requests.

(58)	FULLWORD	4	S4ASYCT	Number of asynchronous requests
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IXLLIST completion statistics indexed by internal response value.

(5C)	FULLWORD	4	S4RSP1CT	Normal response, everything OK
(60)	FULLWORD	4	S4RSP2CT	No matching entry was found
(64)	FULLWORD	4	S4RSP3CT	Entry version did not match
(68)	FULLWORD	4	S4RSP4CT	List authority comparison mismatch
(6C)	FULLWORD	4	S4RSP5CT	The list structure is out of space
(70)	FULLWORD	4	S4RSP6CT	An IXLLIST return code occurred other than those described above
	.111 .1..		S4END	"**"
	.111 .1..		S4CLEN	"*-S4LEN" Length of this DSECT

## NCS5D Named counter server storage statistics

CONTROL BLOCK NAME = DFHNCS5D  
 DESCRIPTIVE NAME = CICS Named Counter Server Storage Statistics  
 FUNCTION = Statistics for named counter server main storage usage.  
 NOTES :  
 DEPENDENCIES = S/370  
 MODULE TYPE = Control block definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHNCS5D	, NC server main storage statistics
(0)	FULLWORD	4	S5 (0)	Start of record
(0)	ADDRESS	2	S5LEN	Length of data area
	.111 11.1		S5IDE	"0125" NC server main storage stats mask
(2)	ADDRESS	2	S5ID	NC server main storage stats id
	.... ...1		S5VERS	"X'01" DSECT version number mask
(4)	ADDRESS	1	S5DVERS	NC server main storage stats version
(5)	BITSTRING	3		Reserved

These are the statistics returned by the AXM page pool management routines for the pools AXMPGANY and AXMPGLOW. Storage in these pools is allocated in multiples of 4K pages on a 4K boundary. The most frequent use is for segments of LIFO stack storage. Storage is initially allocated from the pool using a bit map. For faster allocation, free areas are not normally returned to the pool but are added to a vector of free chains depending on the size of the free area (1 to 32 pages). When storage is being acquired, this vector is checked before going to the pool bit map. If there are no free areas of the right size and there is not enough storage left in the pool, free areas in the vector are put back into the pool, starting from the smallest end, until a large enough area has been created. This action appears as a compress attempt in the statistics. If there is still insufficient storage to satisfy the request, the request is failed.  
 Statistics for LOC=ANY storage pool.

(8)	CHARACTER	8	S5ANYNAM	Pool name AXMPGANY
(10)	FULLWORD	4	S5ANYSIZ	Size of storage pool area
(14)	ADDRESS	4	S5ANYPTR	Address of storage pool area
(18)	FULLWORD	4	S5ANYMX	Total pages in the storage pool
(1C)	FULLWORD	4	S5ANYUS	Number of used pages in the pool
(20)	FULLWORD	4	S5ANYFR	Number of free pages in the pool
(24)	FULLWORD	4	S5ANYLO	Lowest free pages (since reset)
(28)	FULLWORD	4	S5ANYRQG	Storage GET requests
(2C)	FULLWORD	4	S5ANYRQF	Gets which failed to obtain storage
(30)	FULLWORD	4	S5ANYRQS	Storage FREE requests
(34)	FULLWORD	4	S5ANYRQC	Compress (defragmentation) attempts

Statistics for LOC=BELOW storage pool.

(38)	CHARACTER	8	S5LOWNAM	Pool name AXMPGLOW
(40)	FULLWORD	4	S5LOWSIZ	Size of storage pool area
(44)	ADDRESS	4	S5LOWPTR	Address of storage pool area
(48)	FULLWORD	4	S5LOWMX	Total pages in the storage pool
(4C)	FULLWORD	4	S5LOWUS	Number of used pages in the pool
(50)	FULLWORD	4	S5LOWFR	Number of free pages in the pool
(54)	FULLWORD	4	S5LOWLO	Lowest free pages (since reset)
(58)	FULLWORD	4	S5LOWRQG	Storage GET requests
(5C)	FULLWORD	4	S5LOWRQF	Gets which failed to obtain storage
(60)	FULLWORD	4	S5LOWRQS	Storage FREE requests
(64)	FULLWORD	4	S5LOWRQC	Compress (defragmentation) attempts
	.11. 1...		S5END	***
	.11. 1...		S5CLEN	**S5LEN" Length of this DSECT

## NEPCA Node error program commarea

MACRO NAME = DFHNEPCA  
 DESCRIPTIVE NAME = CICS DFHZNEP - Node Error Program  
 Commarea Mapper and Descriptor  
 FUNCTION =  
 This macro provides a DSECT description and a storage  
 mapper for the NEP COMMAREA  
 NOTES  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 See OPERANDS sections  
 MODULE TYPE = Executable macro

Offset Hex (0)	Type	Len	Name (Dim)	Description
			DFHNEPCA	
Invocation descriptor. - COMMAREA for the NEP user replaceable module				
These fields are READ ONLY				
(0)	BITSTRING	158	NEPCABEG (0)	
(0)	BITSTRING	4	NEPCAHDR (0)	Invocation descriptor
(0)	BITSTRING	1	NEPCAFNC	Local descriptor
(1)	BITSTRING	2	NEPCACMP	Global descriptor
(3)	BITSTRING	1		Reserved
Identity of terminal and the error code associated with it These fields are READ ONLY				
(4)	BITSTRING	1	TWAEC	Error Code
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	4	TWANID	Terminal identity
(C)	CHARACTER	8	TWANETN	Netname
Action bytes. Initially set to the default actions. User can change these default actions.				
(14)	BITSTRING	4	TWAROPTL (0)	Reserved
(14)	BITSTRING	3	TWAOPTL (0)	User option bytes
(14)	BITSTRING	1	TWAROPT1 (0)	User option byte 1
(14)	BITSTRING	1	TWAOPT1	User option byte 1
	1... ..		TWAOAF	"X'80" Print action flags
	.1. ....		TWAOAOF	"X'40" Print VTAM RPL
	..1. ....		TWAOACTE	"X'20" Print TCTTE
	...1 ....		TWAOAIOA	"X'10" Print TIOA
	.... 1...		TWAOBIND	"X'08" Print BIND area
	.... .1..		TWAOBNTA	"X'04" System dump if no task attached
(15)	BITSTRING	1	TWAROPT2 (0)	User option byte 2
(15)	BITSTRING	1	TWAOPT2	User option byte 2
	1... ..		TWAOAS	"X'80" Abort any send for this terminal
	.1. ....		TWAOAR	"X'40" Abort any receive for "
	..1. ....		TWAOAT	"X'20" Abend any task attached to TCTTE
	...1 ....		TWAOCT	"X'10" Cancel any task att to TCTTE
	.... 1...		TWAOGMM	"X'08" Good Morning message to be sent
	.... .1..		TWAOBPP	"X'04" Purge any BMS pages for this TCTTE
	.... ..1.		TWAOASM	"X'02" SIMLOGON required
(16)	BITSTRING	1	TWAROPT3 (0)	User option byte 3
(16)	BITSTRING	1	TWAOPT3	User option byte 3
	1... ..		TWAOINT	"X'80" Set INTLOG now allowed
	.1. ....		TWAOININT	"X'40" Set no internal gen logons
	...1 ....		TWAOONCN	"X'10" Normal CLSDST (no reset allowed)
	.... 1...		TWAOOSCN	"X'08" Normal CLSDST (reset allowed)
	.... .1..		TWAOONEGR	"X'04" Send negative response
	.... ..1.		TWAOOS	"X'02" Keep node out of service
	.... ...1		TWAOON	"X'01" CLSDST node
(17)	BITSTRING	1		Reserved
Any VTAM sense and RPL codes These fields are READ ONLY				
(18)	BITSTRING	12	TWAVTAM (0)	VTAM information
(18)	HALFWORD	2	TWARPLCD	VTAM RPL feedback codes
(1A)	HALFWORD	2		Reserved
(1C)	FULLWORD	4	TWASENSS (0)	Sense codes to be sent
(1C)	BITSTRING	1	TWASS1	System sense byte No 1
(1D)	BITSTRING	1	TWASS2	System sense byte No 2
(1E)	BITSTRING	1	TWAUS1	User sense byte No 1
(1F)	BITSTRING	1	TWAUS2	User sense byte No 2
(20)	FULLWORD	4	TWASENSR (0)	Sense codes received
(20)	BITSTRING	1	TWASR1	System sense byte No 1
(21)	BITSTRING	1	TWASR2	System sense byte No 2
(22)	BITSTRING	1	TWAUR1	User sense byte No 1
(23)	BITSTRING	1	TWAUR2	User sense byte No 2

Offset Hex	Type	Len	Name (Dim)	Description
Other useful information for NEP				
With the exception of TWANLD, TWANL DL & TWANPFW these fields are READ ONLY				
(24)	BITSTRING	22	TWAADINF (0)	
(24)	FULLWORD	4		Reserved
(28)	BITSTRING	1	TWACTLB	General use control byte
	..1. ....		TWACSC	"X'20" Clear sense code indicator
	...1 ....		TWAPSC	"X'10" Print VTAM sense codes
	.... 1...		TWATIOA	"X'08" Print portion of I/O area
	.... ..1.		TWAVTRTC	"X'02" VTAM return code available
(29)	BITSTRING	1	TWANEP R	NEP return code byte
	1... ....		TWANPFW	"X'80" Retry write with FORCE=YES
(2A)	BITSTRING	1	TWAREASN	VTAM reason code
(2B)	BITSTRING	1	TWASTAT	VTAM status code
(2A)	BITSTRING	1	TWATRSN	CICS Terminal Control terminal error reason code
(2C)	HALFWORD	2	TWAXRSN	Exception response seq number recd
	..1. 111.		TWAR	***
(2E)	BITSTRING	1	TWAPFLG	CLSDST Pass flag
	1... ....		TWAPIP	"X'80" CLSDST Pass in progress
(2F)	BITSTRING	1	TWANEP C	NEP Class Flag
(30)	BITSTRING	1	TWAEISAB	Stand alone begin bracket indicator
	.... ..1.		TWAE S AB	"X'04" Stand alone begin bracket
(31)	BITSTRING	3		Reserved
(34)	ADDRESS	4	TWANLD	NEP data pointers
(38)	HALFWORD	2	TWANL DL	Length of NEP data
Additional system parameters				
With the exception of TWAPNETN, TWAPNTID & TWAUPRR C these fields are READ ONLY				
(3C)	FULLWORD	4	(0)	
(3C)	BITSTRING	68	TWASYS PM (0)	
(3C)	ADDRESS	4	TWATCTA	Address of TCTTE being processed
(40)	ADDRESS	4	TWARPL	Address of VTAM RPL
(44)	ADDRESS	4	TWATIOAA	Address of data portion of TIOA
(48)	HALFWORD	2	TWATIOAL	Length of data portion of TIOA
(4A)	HALFWORD	2	TWACOMML	Length of commarea data for TCTTE
(4C)	CHARACTER	4	TWACOMMA	Address of commarea data for TCTTE
(50)	ADDRESS	4	TWATECIA	Address of TCTTE USER AREA
(54)	HALFWORD	2	TWATECIL	Length of TCTTE USER AREA
(56)	CHARACTER	8	TWAPPNTN	primary 3270 printer netname
(5E)	CHARACTER	4	TWAPPTID	primary 3270 printer termid
(62)	BITSTRING	1	TWAPPELG	primary printer eligible indicator
	.... ..1		TWAPPELY	"X'01" primary printer is eligible flag
(63)	CHARACTER	8	TWASPNTN	secondary 3270 printer netname
(6B)	CHARACTER	4	TWASPTID	secondary 3270 printer termid
(6F)	BITSTRING	1	TWASPELG	secondary printer eligible indicator
	.... ..1		TWASPELY	"X'01" secondary printer is eligible flag
(70)	CHARACTER	8	TWAPNETN	selected 3270 printer netname
(78)	CHARACTER	4	TWAPNTID	selected 3270 printer termid
(7C)	BITSTRING	1	TWAUPRR C	Unavailable Printer rtn return code
	.... ....		TWAUPRNP	"X'00" No printer selected
	.... ..1		TWAUPRPS	"X'01" printer selected
	1111 1111		TWAUPRDD	"X'FF" data disposal complete
	1111 111.		TWAUPRPE	"X'FE" Error on Put request
(7D)	BITSTRING	1	TWAERRF1	Error flag byte 1
	1... ....		TWALXS	"X'80" Logon crossed simlogon
(7E)	BITSTRING	2		reserved
XRF recovery notification data				
User can change these default actions				
(80)	BITSTRING	1	TWAXRNOT	Recovery Notification Options
	1... ....		TWAXRNON	"X'80" Recov Notification = None
	..1. ....		TWAXRMSG	"X'40" Recov Notification = Message
	..1. ....		TWAXRTRN	"X'20" Recov Notification = Transact.
(81)	BITSTRING	3		Reserved
(84)	CHARACTER	8	TWAXMSTN	Recovery Mapset Name
(8C)	CHARACTER	8	TWAXMAPN	Recovery Map Name
(94)	CHARACTER	4	TWAXTRAN	Recovery Transaction ID
Additional system parameters				
(98)	ADDRESS	4	TWACINIT	CINIT RU Address
(9C)	BITSTRING	2	TWACINIL	CINIT RU Length
	1..1 111.		NEPCALEN	"*-NEPCABEG" Length of this DSECT



## NQG Enqueue manager global statistics

CONTROL BLOCK NAME = DFHNQGDS  
 DESCRIPTIVE NAME = CICS Enqueue Manager Statistics  
 CICS level at which this module was last updated  
 FUNCTION =  
 This data area contains global statistics provided by the Enqueue Manager Domain.  
 It is provided for use in users monitoring applications to map the statistics returned via the API, the statistics exit, or offline formatting products.  
 There is a single instance of this data block.  
 LIFETIME =  
 This data block is created by the Enqueue Manager Domain to store statistics to be passed to the user in response to a request for statistics. The storage is released when the user task is detached.  
 STORAGE CLASS =  
 LOCATION =  
 The user is passed a pointer to the head of the storage block.  
 INNER CONTROL BLOCKS = none  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Domain call buffer  
 EXTERNAL REFERENCES = none  
 DATA AREAS = none  
 CONTROL BLOCKS = from enqueue manager domain  
 GLOBAL VARIABLES (Macro pass) = none  
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHNQGDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHNQGDS	Enqueue Manager Global statistics
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	NQGLEN	Length of data area
	.11. ...1		NQGIDE	"0097" Enqueue Manager statistics id mask
(2)	ADDRESS	2	NQGID	Enqueue Manager statistics id
	.... ...1		NQGVERS	"X'01" Stats version number id mask
(4)	CHARACTER	1	NQGDVERS	Stats version number
(5)	CHARACTER	3		Filler
(8)	FULLWORD	4	NQGNPOOL	Number of ENQ pools following
	.... 11..		NQGGEND	*** End of global portion
	.... 11..		NQGGLEN	***DFHNQGDS" Length of global portion

The following dsect is repeated for each ENQ pool. The number of repetitions of the NQGBODY dsect is in NQGNPOOL.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			NQGBODY	Individual ENQ pool statistics
(0)	CHARACTER	8	NQGPPOOL	ENQ pool id
(8)	FULLWORD	4	NQGTNQRS	Total enqueues issued
(C)	FULLWORD	4	NQGTNQSW	Total enqueues waited
(10)	CHARACTER	8	NQGTNQWT	Time enqueues had waited (STCK)
(18)	FULLWORD	4	NQGCNQSW	Current enqueues waiting
(1C)	CHARACTER	8	NQGCNQWT	Current enqueues waiting time (STCK)
(24)	FULLWORD	4	NQGGNQSW	Total sysplex ENQs waited
(28)	CHARACTER	8	NQGGNQWT	Time sysplex ENQs had waited (STCK)
(30)	FULLWORD	4	NQGSNQSW	Current sysplex ENQs waiting
(34)	CHARACTER	8	NQGSNQWT	Current sysplex ENQs wait time (STCK)

The following fields show the enqueue retention activity.

(3C)	FULLWORD	4	NQGTNQSR	Total enqueues that were retained
(40)	CHARACTER	8	NQGTNQRT	Time enqueues were retained (STCK)
(48)	FULLWORD	4	NQGCNQSR	Current enqueues retained
(4C)	CHARACTER	8	NQGCNQRT	Current enqueues retained time (STCK)

The following fields show a breakdown of the possible reasons of why requests for ENQs may not have been successful.

(54)	FULLWORD	4	NQGTIRJB	Total immed. rejected ENQBUSY
(58)	FULLWORD	4	NQGTIRJR	Total immed. rejected ENQ retained
(5C)	FULLWORD	4	NQGTWRJR	Total waiting ENQs rejected retained
(60)	FULLWORD	4	NQGTWPOP	Total waiting ENQs purged by operator

Offset Hex	Type	Len	Name (Dim)	Description
(64)	FULLWORD	4	NQGTWPTO	Total waiting ENQs purged by timeout
	.11. 1...		NQGBEND	"" End of individual ENQ pool stats
	.11. 1...		NQGBLEN	""-NQGBODY" Length of body

---

## NQUE      Enq/deq EXEC parameter list

CONTROL BLOCK NAME = DFHNQUEC  
DESCRIPTIVE NAME = CICS EXEC argument list for ENQ/DEQ  
user exits.

Although provided in a general library, DFHNQUEC is not to be used as a general programming interface. Refer to product documentation to determine intended usage.

The following fields are part of the Product-sensitive Programming Interface.

NQ\_ADDR0  
NQ\_ADDR1  
NQ\_ADDR2  
NQ\_ADDR3  
NQ\_GROUP  
NQ\_FUNCT  
NQ\_BITS1  
NQ\_BITS2  
NQ\_EIDOPT5  
NQ\_EIDOPT6  
NQ\_EIDOPT7  
NQ\_EIDOPT8  
NQ\_ENQ  
NQ\_DEQ  
NQ\_RESOURCE  
NQ\_LENGTH  
NQ\_MAXLIFETIME

All equates for values of EIBRCODE, EIBRESP and EIBRESP2 form part of the General-purpose Programming Interface.

All remaining fields used in defining the Exec Parameter List are product sensitive and may vary between CICS releases.

FUNCTION =

To define the EXEC parameter list for ENQ/DEQ requests, for use by global user exit programs at exit points XNQEREQ and XNQEREQC.  
On entry to the XNQEREQ and XNQEREQC User Exits, the EXEC parameter list is pointed to by UEPCLPS.

The EXEC parameter list for ENQ/DEQ consists of four addresses.

The four addresses are defined by NQ\_ADDR0 to NQ\_ADDR3.

This DSECT defines these addresses and the areas that they point to.

On entry to the XNQEREQ and XNQEREQC User Exits, the copy of EIBRCODE is pointed to by UEPRCODE, the copy of EIBRESP is pointed to by UEPRESP and the copy of EIBRESP2 is pointed to by UEPRESP2.

This DSECT also contains equates for values of EIBRCODE, EIBRESP and EIBRESP2 used by ENQ/DEQ.

LIFETIME = Lifetime of the NQ command request

STORAGE CLASS = As the storage being mapped is the translated source in the user's application program, the storage may be either above or below the line.

LOCATION = (1) EXEC Parameter List is addressed by UEPCLPS.

(2) Fields copied from the EIB are addressed by UEPRCODE, UEPRESP and UEPRESP2.

(3) The token for use in communicating between XNQEREQ and XNQEREQC is addressed by UEPNQOTOK.

INNER CONTROL BLOCKS =

NQ\_ADDR\_LIST declares the EXEC addresses.

NQ\_EID defines the EID pointed to by NQ\_ADDR0.

NOTES :

DEPENDENCIES = S/370 ESA

RESTRICTIONS = None

MODULE TYPE = Control Block definition

EXTERNAL REFERENCES =

None.

DATA AREAS =

None.

CONTROL BLOCKS =

None.

GLOBAL VARIABLES (Macro pass) =

None.

The command parameter list is a list of addresses which reference the argument values for this EXEC CICS command. The addresses are only valid if the argument is applicable to this command.

The existence bits in the EID component (NQ\_BITS1) specify those addresses that are valid, and the flagword bits (NQ\_EIDOPT5 - NQ\_EIDOPT7) specify the keywords that were given in the EXEC CICS command.

Therefore, you can deduce the usage of each address by testing these bits in conjunction with the command function(NQ\_FUNCT).

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	NQ_ADDR_LIST	NQ_ADDR_LIST consists of
(0)	ADDRESS	4	NQ_ADDR0	the EID
(4)	ADDRESS	4	NQ_ADDR1	RESOURCE
(8)	ADDRESS	4	NQ_ADDR2	LENGTH
(C)	ADDRESS	4	NQ_ADDR3	MAXLIFETIME

NQ\_EID (addressed by NQ\_ADDR0) gives the command function, and contains the existence and flagword bits.  
Note: Equates for NQ\_GROUP, NQ\_FUNCT, EIBRCODE, EIBRESP and EIBRESP2 values are defined at the end of this data structure.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	NQ_EID	
(0)	CHARACTER	1	NQ_GROUP	'12'X for ENQ/DEQ
(1)	CHARACTER	1	NQ_FUNCT	'04'X for ENQ

'06'X for DEQ

The existence bits (NQ\_BITS1) specify the parameters that are valid for this command.  
For example, NQ\_EXIST2 set on indicates that NQ\_ADDR2 is valid, meaning that it addresses a LENGTH value.  
NQ\_ADDR0 is always valid and has no existence bit.

(2)	BITSTRING	1	NQ_BITS1	
	1... ....		NQ_EXIST1	
	1... ....		NQ_RESOURCE_V	
	.1.. ....		NQ_EXIST2	
	.1.. ....		NQ_LENGTH_V	
	..1. ....		NQ_EXIST3	
	..1. ....		NQ_MAXLIFETIME_V	
	...1 1111		*	Reserved
(3)	BITSTRING	2	*	Reserved

The next 3 bytes (NQ\_EIDOPT5 - NQ\_EIDOPT7) are the flagword bits.  
A user exit program at XNQREQ can set the NQ\_NOSUSPEND\_X bit for an ENQ command.

(5)	BITSTRING	1	NQ_EIDOPT5	
(5)	BITSTRING	1	*	Reserved
(6)	BITSTRING	1	NQ_EIDOPT6	
(6)	BITSTRING	1	*	Reserved
(7)	BITSTRING	1	NQ_EIDOPT7	
	1111 1...		*	Reserved
	.... .1..		NQ_NOSUSPEND_X	NOSUSPEND specified.
	.... ..11		*	Reserved

The following definitions are for the rest of the arguments in the EXEC parameter list, addressed by NQ\_ADDR1 - NQ\_ADDR3 in NQ\_ADDR\_LIST.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	NQ_DATA1	
(0)	CHARACTER	*	NQ_RESOURCE	the RESOURCE

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	2	NQ_DATA2	
(0)	HALFWORD	2	NQ_LENGTH	the LENGTH

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	NQ_DATA3	
(0)	FULLWORD	4	NQ_MAXLIFETIME	the MAXLIFETIME

### Constants

Len	Type	Value	Name	Description
1	HEX	12	NQ_ENQDEQ_GROUP	
Equates for NQ_FUNCT values.				
1	HEX	04	NQ_ENQ	Enq
1	HEX	06	NQ_DEQ	Deq
Start of General Use Programming Interface. Equates for EIBRCODE values used by Enq/Deq.				
1	HEX	00	NQ_OK_EIBRCODE	
1	HEX	E0	NQ_INVREQ_EIBRCODE	
1	HEX	E1	NQ LENGERR_EIBRCODE	
1	HEX	32	NQ_ENQBUSY_EIBRCODE	
Equates for EIBRESP values used by Enq/Deq.				
1	DECIMAL	0	NQ_OK_EIBRESP	
1	DECIMAL	16	NQ_INVREQ_EIBRESP	
1	DECIMAL	22	NQ LENGERR_EIBRESP	
1	DECIMAL	55	NQ_ENQBUSY_EIBRESP	
Equates for EIBRESP2 values used by Enq/Deq				
1	DECIMAL	0	NQ_OK_EIBRESP2	OK
1	DECIMAL	1	NQ LENGERR_EIBRESP2	LENGERR
1	DECIMAL	2	NQ_INVREQ_EIBRESP2	INVREQ *-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-* End of General Use *-* *-* Programming Interface *-* *-*-*-*-*-*-*-*-*-*-*

### OSPWA BMS work area

```

MODULE NAME = DFHOSPWA
DESCRIPTIVE NAME = CICS BMS WORK AREA
FUNCTION = DEFINE THE MAJOR BMS CONTROL BLOCK. THIS IS CHAINED
OFF THE TCA SYSTEM AREA. IT IS BUILT BY DFHMCP ON
THE FIRST BMS REQUEST IN A TRANSACTION, AND IS FREED
AT TASK TERMINATION. LARGE PARTS OF THE OSPWA ARE
CLEARED BY DFHMCP ON SEND PAGE.

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = NONE
REGISTER CONVENTIONS = SEE COMMENTS IN CODE
PATCH LABEL = NONE
MODULE TYPE = DSECT
MODULE SIZE = NOT APPLICABLE
ATTRIBUTES = DSECT
ENTRY POINT = NOT APPLICABLE
PURPOSE = SEE FUNCTION
LINKAGE = NOT APPLICABLE
INPUT = NOT APPLICABLE
OUTPUT = NOT APPLICABLE
EXIT-NORMAL = NOT APPLICABLE
EXIT-ERROR = NOT APPLICABLE
EXTERNAL REFERENCES = NOT APPLICABLE
CONTROL BLOCKS = NOT APPLICABLE
TABLES = NOT APPLICABLE
MACROS = NONE
    OUTPUT SERVICES PROCESSOR WORK AREA (OSPWA)
    BASIC MAPPING SUPPORT WORK AREA
    THE OSPWA IS USED BY ALL BMS ROUTINES TO TRANSMIT DATA
    BETWEEN ROUTINES AND ACROSS BMS CALLS.
    
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHOSPWA	DUMMY SECTION - BMS WORK AREA
(0)	DBL WORD	8	OSPSAAP	STORAGE ACCOUNTING INFORMATION STORAGE CLASS=USER
	.... 1...		OSPSTART	*** OSPWA START
(8)	CHARACTER	8	OSPCBID	OSPWA SELF IDENTIFICATION. SET TO 'DFHOSPWA' WHEN OSPWA CREATED
	...1 ....		OSPSTR1	*** OSPWA START
REGISTER SAVE AREAS - PART ONE				
(10)	FULLWORD	4	OSPRLRSA (2)	ROUTE LIST RESOLUTION SAVE AREA
(18)	FULLWORD	4	OSPMAPSA (2)	MAPPING SAVE AREA
	...1 1...		OSPIIPSA	"OSPMAPSA" INPUT MAPPING SAVE AREA
(20)	FULLWORD	4	OSPFFSA (2)	PAGE FORMATTING SAVE AREA
(28)	FULLWORD	4	OSPDSSBA (2)	DATA STREAM BUILD SAVE AREA
(30)	FULLWORD	4	OSPTPPSA (2)	TERMINAL PAGE PROCESSOR SAVE AREA
(38)	FULLWORD	4	OSPTPRS1 (2)	DFHTPR REGISTER SAVE AREA

Offset Hex	Type	Len	Name (Dim)	Description
(40)	FULLWORD	4	OSPTPRS2 (2)	DFHTPR REGISTER SAVE AREA
(20)	FULLWORD	4	OSPTPRS3	DFHTPR REGISTER SAVE AREA
(24)	FULLWORD	4	OSPTPRS4	DFHTPR REGISTER SAVE AREA
(28)	FULLWORD	4	OSPTPRS5	DFHTPR REGISTER SAVE AREA
(2C)	FULLWORD	4	OSPTPRS6	DFHTPR REGISTER SAVE AREA
SAVE AREAS FOR R14 TO GIVE RLR CALLING PROCEDURE CONSISTENCY				
(28)	FULLWORD	4	OSPLIS14	SAVE AREA FOR RETURN REGISTER FOR RLRLOCID
(2C)	FULLWORD	4	OSPINS14	SAVE AREA FOR RETURN REGISTER FOR RLRLNIT
(30)	FULLWORD	4	OSPBS14	SAVE AREA FOR RETURN REGISTER FOR RLRLBLD
(48)	FULLWORD	4	(2)	RESERVED
DATA SAVED FROM TCA REQUEST AREA				
(50)	.1.1 .... BITSTRING	1	OSPSVDTA OSPTR1	*** BMS REQUEST DATA FROM TCA TYPE OF REQUEST BYTE 1
	1... .... .1. .... .1. .... .1. .... ...1 .... .... 1... .... .1.. .... .1..		OSPTRR OSPREO OSPREDI OSPRI OSPRT OSPRA	"X'80" TYPE = ROUTE "X'40" ERRTERM = ORIG "X'20" ERRTERM = TERMINAL ID "X'10" INTRVAL = NUMERIC VALUE "X'08" TIME = NUMERIC VALUE "X'04" LIST = ALL
(51)	.... .1.. .... .1.. .... .1.. BITSTRING	1	OSPRLSA OSPROC OSPTR2	"X'02" LIST = SYMBOLIC ADDRESS "X'01" OPCLASS = OPERATOR CLASS TYPE OF REQUEST BYTE 2
	1... .... .1. .... .1. .... ...1 .... .... 1... .... .1.. .... .1.. .... .1..		OSPRTL OSPTOPT OSPRQI OSPTLD OSPIOT OSPLPS OSPRIN OSPTRG	"X'80" TITLE = SYMBOLIC ADDRESS "X'40" PROPT = NLEOM "X'20" REQID = ALPHANUMERIC VALUE "X'10" LDC = MNEMONIC OR YES "X'08" IOTYPE = IMMED "X'04" SEND PARTNSET "X'02" REC V INTO EXEC COMMAND "X'01" TYPE = PURGE
(52)	.... .1.. .... .1.. .... .1.. BITSTRING	1	OSPTR3 OSPTLST OSPRPR OSPRT	TYPE OF REQUEST BYTE 3 "X'80" TYPE = LAST "X'40" RECEIVE PARTITION "X'20" TYPE=TEXT ON INPUT MAPPING
	.1. .... .1. .... ...1 .... .... 1... .... .1.. .... .1.. .... .1.. .... .1..		OSPHON OSPTC OSPTCWCC OSPTMN OSPTSA OSPTSN	"X'20" HONEOM REQUESTED ON OUTPUT MAPPING (EXEC INTERFACE ONLY) "X'10" CURSOR = NUMBER "X'08" CTRL = ANY 3270 WRITE CONTROL CHARACTER "X'04" MAP = MAP NAME "X'02" MSETADR = SYMBOLIC ADDRESS OR PSETADR = ADDRESS "X'01" MAPSET = MAP SET NAME
(53)	.... .1.. .... .1.. .... .1.. BITSTRING	1	OSPTR4 OSPTDY OSPTDN OSPTRS OSPTMA OSPTRW OSPTRM OSPTRE OSPTRI	TYPE OF REQUEST BYTE 4 "X'C0" DATA = YES "X'40" DATA = NO "X'20" TYPE = SAVE "X'10" MAPADR = SYMBOLIC ADDRESS "X'08" TYPE = WAIT "X'04" TYPE = MAP "X'02" TYPE = ERASE "X'01" TYPE = IN
(54)	.... .1.. .... .1.. .... .1.. BITSTRING	1	OSPTR5 OSPTRB OSPTOF OSPTEU OSPTFF OSPTRLOC OSPTR0 OSPTRF OSPTRU	TYPE REQUEST BYTE 5 "X'80" TYPE = PAGEBLD "X'40" OFLOW = SYMBOLIC ADDRESS "X'20" TYPE = ERASEAUP "X'10" TYPE = FORMFEED "X'08" TYPE = LOCATE_MAP "X'04" TYPE = OUT "X'02" TYPE = STORE "X'01" TYPE = RETURN
(55)	.... .1.. .... .1.. .... .1.. BITSTRING	1	OSPTR6 OSPTRP OSPTCAPG OSPTCPG OSPTCRET OSPTCREL OSPTWBC OSPTWBA OSPEODOP	TYPE REQUEST BYTE 6 "X'80" TYPE = PAGEOUT "X'40" CTRL = AUTOPAGE "X'20" CTRL = PAGE "X'10" CTRL = RETAIN "X'08" CTRL = RELEASE "X'04" WTBRK = CURRENT "X'02" WTBRK = ALL "X'01" EODPURG=OPER
(56)	.... .1.. .... .1.. .... .1.. BITSTRING	1	OSPTR7 OSPTRX OSPTHDR OSPTTRL OSPJUST OSPOPRT OSPAprt OSPPGAS	TYPE REQUEST BYTE 7 "X'80" TYPE = TEXTBLD "X'40" HEADER = SYMBOLIC ADDRESS "X'20" TRAILER = SYMBOLIC ADDRESS "X'10" JUSTIFY = FIRST, LAST, OR VALUE "X'08" API SPECIFIES OUTPARTN "X'04" API SPECIFIES ACTPARTN "X'02" PGA SUPPLIED AT END OF DATA. NOTE: TIOATDL MUST INCLUDE THE LENGTH OF THE PGA IF THIS IS SET
(57)	.... .1.. .... .1.. .... .1.. BITSTRING	1	OSPTRN OSPTR8 OSPIprt OSPMGM OSPEIC OSPTFP OSPRDA OSPWrb	"X'01" TYPE = NOEDIT TYPE REQUEST BYTE 8 "X'80" API SPECIFIES INPARTN "X'40" MSR SPECIFIED ON API "X'20" EXEC INTERFACE COMMAND "X'10" FMHPARM = YES OR PARM "X'08" RDATT = SYMBOLIC ADDRESS "X'04" WRBRK = SYMBOLIC ADDRESS

Offset Hex	Type	Len	Name (Dim)	Description
	.... ..1.		OSPSIG	"X'02" SIGNAL = SYMBOLIC ADDRESS
	.... ...1		OSPMGC	"X'01" SEND CONTROL SPECIFIED
	..1. 1...		OSPTREND	"" END REQUEST BYTE INFORMATION
	.... 1...		OSPTREND	"OSPTREND-OSPSVDTA" REQUEST BYTES' LENGTH
(58)	ADDRESS	4	OSPTA (0)	TITLE ADDRESS
(58)	CHARACTER	4	OSPTRMID (0)	TERMINAL ID FOR PURGE
(58)	ADDRESS	4	OSPIOA	ALTERNATE I/O AREA ADDRESS
(5C)	CHARACTER	4	OSPFSC (0)	FIELD SEPARATOR CHARACTERS
(5C)	CHARACTER	1	OSPWCC	WRITE CONTROL CHARACTER
(5D)	BITSTRING	1	OSPJFLV	JUSTIFY = FIRST, LAST, OR VALUE
	1111 1111		OSPJF	"X'FF" JUSTIFY = FIRST
	1111 111.		OSPJL	"X'FE" JUSTIFY = LAST
(5E)	HALFWORD	2	OSPRPL (0)	RECEIVE PARTN LENGTH VALUE
(5E)	HALFWORD	2	OSPCP	CURSOR POSITION
(60)	ADDRESS	4	OSPMA (0)	MAP ADDRESS
(60)	CHARACTER	8	OSPMN (0)	MAP NAME
(60)	CHARACTER	8	OSPMSN (0)	PARTITION SET NAME
(60)	CHARACTER	8	OSPMCRID (0)	MCR TS DATA ID FOR PURGE
(60)	ADDRESS	4	OSPHDRA (0)	HEADER ADDRESS
(60)	ADDRESS	4	OSPRLA	ROUTE OR RETURNED PAGE LIST ADDRESS
(64)	ADDRESS	4	OSPTRLA (0)	TRAILER ADDRESS
(64)		4	OSPRTI	TIME OR INTERVAL FOR TYPE=ROUTE
(68)	ADDRESS	4	OSPMISA (0)	MAP SET OR PARTNSET ADDRESS
(68)	CHARACTER	8	OSPMSN (0)	MAP SET NAME
(68)	CHARACTER	4	OSPRTID	ROUTE ERROR TERMINAL ID
(6C)	BITSTRING	1	OSPFLAG	PROGRAM SWITCH TPP/TPR
(6D)	CHARACTER	3	OSPOC	OPERATOR CLASS
(70)	CHARACTER	2	OSPLDM	LDC OR OUTPARTN LDC MNEMONIC IF LDC ON API, OR OUTPARTN NAME IF LDC NOT ON API AND SEND REQUEST, OR INPARTN IF RECEIVE MAP, OR PARTN IF RECEIVE PARTN
(72)	BITSTRING	1	OSPLDC	LDC CODE
(73)	CHARACTER	2	OSPREQID	TEMPORARY STORAGE RECOVERY PREFIX
(75)	CHARACTER	2	OSPAPNM	ACTPARTN NAME
(77)	CHARACTER	1	OSPAPID	ACTPARTN PID
(78)	CHARACTER	8	OSPFMP	FMHPARM FROM DFHBMS
(80)	CHARACTER	4	OSPMSR	MSR OPTION BYTES
(84)	FULLWORD	4	OSPR14SV	SAVE R14 TPP/TPR
(88)	CHARACTER	4		RESERVED
	1... 11..		OSPSVEND	"" END BMS DATA FROM TCA
	..11 11..		OSPSVLEN	"OSPSVEND-OSPSVDTA" MACRO REQUEST INFORMATION LENGTH
BUILD AREA FOR TEMP STORAGE KEYS				
(8C)	CHARACTER	12	OSPTSKEY (0)	TEMP STG KEY OF PAGE OR MCR + CHAIN LEVEL + PAGE NO
(8C)	CHARACTER	8	OSPTSID (0)	TEMPORARY STORAGE KEY OF PAGE OR MACRO
(8C)	CHARACTER	2	OSPTSPFX	T. S. RECOVERY PREFIX
(8E)	BITSTRING	1	OSPTSPID	TEMPORARY STORAGE IDENTIFICATION FOR PAGES
	1111 11.1		OSPBMTSI	"X'FD" BMS TEMPORARY STORAGE GENERIC ID
(8F)	BITSTRING	3	OSPLMID	LOGICAL MESSAGE ID
(92)	CHARACTER	1	OSPLMTTS	TERMINAL TYPE SUFFIX OF PAGE
(93)	BITSTRING	1	OSPTSQUL	TEMP STORAGE QUALIFICATION EVEN NO. FOR MCR ODD NO. FOR PAGE QUEUE
	.... ...1		OSPX01	"X'01" TO CHANGE MCR'S ID TO ONE FOR CORRESPONDING PAGE QUEUE
(94)	BITSTRING	1	OSPPEGCN	PAGE CHAIN NUMBER FOR OUTPUT CHAINING
(96)	HALFWORD	2	OSPPEGNO	PAGE NUMBER
BMS WORK AREAS				
(98)	DBL WORD	8	OSPWADW	DOUBLE-WORD WORK AREA
(A0)	FULLWORD	4	OSPWAF1	FULLWORD WORK AREA
(A4)	FULLWORD	4	OSPWAF2	FULLWORD WORK AREA
(A8)	ADDRESS	4	OSPCTTP	ADDRESS OF CURRENTLY ACTIVE TTP
(AC)	ADDRESS	4	OSPDTPP	ADDRESS OF FIRST DIRECT TTP
(B0)	ADDRESS	4	OSPSTTP	ADDRESS OF FIRST ROUTING TTP
(B4)	ADDRESS	4	OSPOFTTP	A(TTP DURING PAGEBLD OVERFLOW)
(B8)	ADDRESS	4	OSPDFTTP	SAVED A(ORIGINAL DEFAULT TTP)
(BC)	ADDRESS	4	OSPDLTTP	A(TTP WITH MAPSET'S DEFAULT LOCATION)
(C0)	ADDRESS	4	OSPSTIOA	TIOA ADDRESS
(C4)	ADDRESS	4	OSPSIOA	REMEMBER WHERE WE GOT USER DATA
(C8)	ADDRESS	4	OSPTITLE	TITLE RECORD SAVE AREA ADDRESS
(CC)	ADDRESS	4	OSPSREQ	SUSPENDED REQUEST INFORMATION SAVE AREA
(D0)	ADDRESS	4	OSPDWE	DWE ADDRESS
(D4)	ADDRESS	4	OSPDWEOD	DWE FOR EODS ON BATCH LU
(D8)	ADDRESS	4	OSPRTPG	RETURNED PAGE LIST ADDRESS
(DC)	ADDRESS	4	OSPSFWSV	->ATTR.STRIP 3270E O/B.
(E0)	ADDRESS	4	OSPPLT1	A(1ST SEGMENT OF PAGE/LDC TABLE)
(E4)	ADDRESS	4	OSPPLTL	A(LAST SEGMENT OF PAGE/LDC TABLE)
	.... ..1.		OSPPLTES	"2" EXTENDED PAGE/LDC TABLE ENTRY SIZE
	1... ..		OSPPLTNE	"128" NUMBER OF ENTRIES IN PAGE/LDC TABLE
OSPPLTES OSPPLTNE MUST NOT EXCEED 256				
(E8)	ADDRESS	4	OSP_BRIDGE_ FACILITY	ADDRESS OF BFB
SHORT TERM WORKAREAS, USED ONLY IN RLRDCTT SUBROUTINE				
(EC)	CHARACTER	1	OSPWKB1	RLRDCTT WORK AREA 1
(ED)	CHARACTER	1	OSPWKB2	RLRDCTT WORK AREA 2
(EE)	CHARACTER	2	OSPDLDLM	DEFAULT LDC MNEMONIC FROM MAP SET
(F0)	CHARACTER	2	OSPETLDC	ERROR TERMINAL'S LDC MNEMONIC

Offset Hex	Type	Len	Name (Dim)	Description
(F2)	HALFWORD	2	OSPTTCNT	TERMINAL TYPE PARAMETER COUNT
(F4)	HALFWORD	2	OSPTOTPG	TOTAL PAGE COUNT (3601)
(F6)		4	OSPTDEL	INTERVAL OR TIME OF DELIVERY
(FA)	CHARACTER	4	OSPDDEL	DATE OF DELIVERY
(FE)	CHARACTER	4	OSPTERID	ID OF TERMINAL TO GET ERROR NOTICE
(102)	CHARACTER	3	OSPOPRCL	OPERATOR CLASS
(105)	BITSTRING	1	OSPIND01	OUTPUT SERVICE PROCESSOR (OSP)
	1... ..		OSPOPPND	"X'80" OUTPUT PENDING IN PAGE BUFFERS
	.1.. ..		OSPRT	"X'40" LOGICAL MESSAGE UNDER ROUTE REQUEST
	..1. ....		OSPDELI	"X'20" DELIVERY TIME IS INTERVAL
	...1 ....		OSPIRPL	"X'10" INITIATE RETURN PAGE LIST, IF NECESSARY
	.... 1...		OSPLMPB	"X'08" LOGICAL MESSAGE IN PAGEBLD MODE
	.... .1..		OSPLMTB	"X'04" LOGICAL MESSAGE IN TEXTBLD MODE
	.... ..1.		OSPWAPGO	"X'02" PAGE OVERFLOW IN PROCESS
	.... ...1		OSPDWEP	"X'01" DWE PROCESSING IN PROGRESS
(106)	BITSTRING	1	OSPIND02	OSPWA INDICATOR BYTE 02
	1... ..		OSPBMSM	"X'80" BMS - SYSTEM MESSAGE
	.1.. ..		OSPL1	"X'40" REQUESTING PROGRAM IS PL1
	..1. ....		OSPLTA	"X'20" LEAVE TCTEDA - BECAUSE TPP ISSUED WRITE WITHOUT A WAIT
	...1 ....		OSPRUWA	"X'10" RESET UWA STRFIELD HAS BEEN USED IN THIS TRANSACTION
	.... 1...		OSPSRTA	"X'08" SUCCESSFUL 'RESET TO AUTOMATIC PAGING
	.... .1..		OSPLDCOB	"X'04" LDC MNEMONIC ORIGINLY BLANK
	.... ..1.		OSPNOMDL	"X'02" DO NOT USE MAPSET DEF LDC
	.... ...1		OSPASCSA	"X'01" USE ALTERNATE SCREEN/PAGE SIZE
(107)	BITSTRING	1	OSPIND03	OSPWA INDICATOR BYTE 03
	1... ..		OSPLMLDC	"X'80" LOGICAL MESSAGE USES LDCA
	.1.. ..		OSPLMPRT	"X'40" LOGICAL MESSAGE USES PARTITIONS
	..1. ....		OSP3270E	"X'20" 3270E INBOUND, SET BY MCP TESTED BY MIN
	...1 ....		OSPNDDS	"X'10" DEVICE DEPENDENT SUFFIXING NOT REQD
	.... 1...		OSPTRAN	"X'08" TIOA ALLOWS FOR TRANS- PARENCY. PASSED BY DFHTOM TO DFHPHP
	.... ..1.		OSPDFMAL	"X'04" PRE 1.6 MAPS ALIGNED
	.... ...1		OSPCUMAL	"X'02" CURRENT MAP IS ALIGNED
	.... ..1.		OSPNOMAP	"X'01" BYPASS INPUT MAPPING - SET
(108)	BITSTRING	1	OSPIND04	OSPWA INDICATOR BYTE 04
	1... ..		OSPDFHE	"X'80" PRE R1.7 EDF MAP
	.1.. ..		OSPNOSC	"X'40" REMOVE SO/SI CHARS IN DATA BY MCP RECEIVE ROUTINE
	..1. ....		OSPSOSIM	"X'20" SO/SI ATTRIBUTE EXISTENCE
	...1 ....		OSPFOLD	"X'10" UPPER CASE TRANSLATION NEEDED
	.... 1...		OSPUEDIT	"X'08" GLUE can be called
(109)	BITSTRING	1	OSPADISP	CURRENTLY ACTIVE DISPOSITION
(10A)	BITSTRING	1	OSPDDISP	DIRECT (ORIGINATING TERMINAL) DISPOSITION
(10B)	BITSTRING	1	OSPRDISP	ROUTING DISPOSITION
(10C)	HALFWORD	2	OSPMAL	MAP ATTRIBUTE LENGTH
(10E)	HALFWORD	2	OSPDAL	DATA STRUCTURE ATTRIBUTE LENGTH
(110)	HALFWORD	2	OSPMHLL	OFFSET TO FIRST MAP FIELD
(112)	BITSTRING	4	OSPPFWRK (0)	PAGE FORMATTING WORK AREA

OSPPFWRK'S FIELDS ARE SEQUENCE SENSITIVE TO THE FIELDS IN TTPPFWRK

(112)	BITSTRING	1	OSPPFCL	CURRENT LINE POINTER
(113)	BITSTRING	1	OSPPFNFL	NEXT AVAILABLE FULL LINE POINTER
(114)	BITSTRING	1	OSPPFNCL	NEXT AVAILABLE COLUMN FROM LEFT
(115)	BITSTRING	1	OSPPFNCR	NEXT AVAILABLE COLUMN FROM RIGHT

TERMINAL PAGE RETRIEVAL PROGRAM COMMAND BUILD AREA

(115)			OSPTPCBA	***
(116)	BITSTRING	1	OSPTPCO1	COMMAND BYTE 1
(117)	BITSTRING	1	OSPTPCO2 (0)	COMMAND BYTE 2
(117)	BITSTRING	1	OSPTPPOS	POSITION BYTE (RETRIEVE, PURGE)
(118)	BITSTRING	1	OSPTPCHN	CHAIN NUMBER
(11A)	HALFWORD	2	OSPTPPAG	PAGE NUMBER
	.... .1..		OSPTPLEN	**OSPTPCBA" COMMAND BUILD AREA LENGTH

BMS RETURN INFORMATION

(11A)			OSPRISTR	***
(11C)	BITSTRING	1	OSPRC1	RETURN CODE BYTE ONE
	1... ..		OSPRF	"X'80" ROUTE FAILED - NO RESOLUTIONS
	.1.. ..		OSPRW	"X'40" ROUTE WORKED - SOME RESOLUTIONS
	..1. ....		OSPIET	"X'20" INVALID ERROR TERMINAL
	.... 1...		OSPMTL	"X'08" MAP TOO LARGE
	.... .1..		OSPCBM	"X'04" I/O AREA CANNOT BE MAPPED
	.... ..1.		OSPRPI	"X'02" PAGE RETURNED INDICATOR
	.... ...1		OSPIR	"X'01" INVALID REQUEST
	.... ..1.		OSPNR1	"X'00" NORMAL RESPONSE
(11D)	BITSTRING	1	OSPRC2	RETURN CODE BYTE TWO
	1... ..		OSPTSIOE	"X'80" TEMPORARY STORAGE I/O ERROR
	.1.. ..		OSPREQCD	"X'40" REQUEST CHANGE DIRECTION ERROR
	..1. ....		OSPUXI	"X'20" UNEXPECTED INPUT
	...1 ....		OSPIMN	"X'10" INVALID LDC MNEMONIC
	.... 1...		OSPIPS	"X'08" INVALID PARTITION SET NAME
	.... ..1.		OSPIPN	"X'04" INVALID PARTITION NAME
	.... ..1.		OSPIPF	"X'02" PARTITION FAIL
	.... ...1		OSPDSS	"X'01" DATASET STATUS CHANGE
(11E)	BITSTRING	1	OSPRC3	RETURN CODE BYTE THREE
	..1. ....		OSPIGRQI	"X'10" SPECIFIED 'REQID' IGNORED
	.... 1...		OSPEOC	"X'08" END-OF-CHAIN IN LAST INPUT
	.... .1..		OSPEODS	"X'04" END-OF-DATA-SET LAST INPUT



Offset Hex	Type	Len	Name (Dim)	Description
	.... ..1.		OSPFIH	"X'02" INBOUND FMH IN LAST INPUT
	.... ..1		OSPOI	"X'01" PAGEBLD OVERFLOW INDICATOR
(11F)	BITSTRING	1	OSPRI1	RETURN INFORMATION BYTE ONE ... IF INVMP SZ THEN OSPRI1 CONTAINS TERMINAL CODE (TC)
(120)	BITSTRING	4	OSPPOF (0)	PAGEBLD OVERFLOW INFORMATION
(120)	BITSTRING	2	OSPPOG	CURRENT PAGE NUMBER
(122)	BITSTRING	2	OSPOCN	OVERFLOW CONTROL NUMBER
(122)			OSPCRIE	"*" END TCA CONTIG RETURN INFO
	.... 1...		OSPCRIL	"OSPCRIE-OSPRISTR" CONTIG RETURN INFO LENGTH
(124)	CHARACTER	2	OSPMSLDM	PARTNPAGE/LDC MNEMONIC
(126)	BITSTRING	1		RESERVED
(126)			OSPRIEND	"**"
	.... 1.11		OSPRILEN	"OSPRIEND-OSPRISTR" BMS RETURN INFORMATION LENGTH
REGISTER SAVE AREAS - PART TWO				
(128)	FULLWORD	4	OSPRSA (14)	APPLICATION PROGRAM REGISTER SAVE AREA
(160)	FULLWORD	4	OSPCPSA (14)	BMS CONTROL PROGRAM REGISTER SAVE AREA
(198)	CHARACTER	256	OSPTRTWA	TRT TABLE & WORK AREA
WORK AREAS AND STATUS DATA WHICH IS NOT CLEARED ON SEND PAGE OR PURGE MESSAGE				
(298)	FULLWORD	4	OSPLBR6	R6 VALUE AT LAST BLANK
(29C)	FULLWORD	4	OSPLBR8	R8 VALUE AT LAST BLANK
(2A0)	FULLWORD	4	OSPLBR9	R9 VALUE AT LAST BLANK
(2A4)	BITSTRING	1	OSPLBNCL	NEXT AVAILABLE COL FROM LEFT AT LAST BLANK
(2A5)	BITSTRING	3		RESERVED
(2A8)	ADDRESS	4	OSPCPSTP	ADDRESS OF INCORE PARTITION SET
(2AC)	CHARACTER	2	OSPINPM	NAME OF ACTUAL INPUT PARTITION
(2AE)	CHARACTER	1	OSPINPID	PID OF ACTUAL INPUT PARTITION
(2AF)	CHARACTER	1	OSPRCODE	DFHPH RETURN CODE VALUE
(2B0)	HALFWORD	2	OSPRCVCT	RECEIVE MAP COUNT FOR EXPECTED INPUT PARTITION TRAP
(2B2)	CHARACTER	1	OSPXIPID	PID OF EXPECTED INPUT PARTITION
(2B4)	ADDRESS	4	OSPMCPIN	DFHMCPIN ENTRY ADDRESS
(2B8)	FULLWORD	4	OSPMLRG (8)	REGISTER SAVE AREA FOR ML1 SORT
(2D8)	ADDRESS	4	OSPMLNL	ADDR OF ML1 NEW LINE CHARACTER
(2DC)	ADDRESS	4	OSPMLTV	ADDRESS OF VERTICAL TABRACK
(2E0)	ADDRESS	4	OSPMLTH	ADDRESS OF HORIZONTAL TABRACK
(2E4)	BITSTRING	1	OSPMLCO	ML1 SAVE COLOR ATTRIBUTE
(2E5)	BITSTRING	1	OSPMLPS	RESERVED
(2E6)	BITSTRING	1	OSPMLSW	ML1 FLAGS
	1... ..		OSPMLVB	"X'80" VERTICAL TABS USED
	..1. ....		OSPMLHB	"X'40" HORIZONTAL TABS USED
(2E7)	BITSTRING	1	OSPMLFR	ML1 SAVE OUTLINE ATTRIBUTE
(2E8)	ADDRESS	4	OSPMCBSV	MCB SAVE ADDRESS
(2EC)	HALFWORD	2	OSPMCAAP	OFFSET IN MCB OF APPLICATION PSET
(2EE)	CHARACTER	2	OSPTPPID	INPUT PID FOR TPR
(2F0)	HALFWORD	2	OSPTPTDL	INPUT DATA LENGTH (LESS 3270E INBOUND CONTROLS) FOR TPR
(2F4)	ADDRESS	4	OSPTPUDA	ADDRESS OF TPR INPUT DATA
(2F8)	CHARACTER	1	OSPTPAID	TPR INPUT AID
(2F9)	CHARACTER	1	OSPETBSV	SAVED IN TOM ATTR.STRIP
(2FA)	CHARACTER	2	OSPCPRTN	LAST PARTN= SLOT_VALUE
(2FC)	ADDRESS	4	OSPTOPTR	PTR-> INPUT MAPPING TIOA IN M32
(300)	ADDRESS	4	OSPCROSP	A(SAVED OSPWA), IF TPR USES BMS WHILE CTRL=RETAIN
(304)	ADDRESS	4	OSPOVTPP	OVERFLOW TTP
(308)	ADDRESS	4	OSPSVTPP	REQUEST TTP WHILE OFTTP IS CURRENT.
(30C)	CHARACTER	12	OSPLBXA (0)	EXTENDED ATTR VALUES AT BLANK
(30C)	BITSTRING	5	OSPLBX	RESERVED
(311)	BITSTRING	7		RESERVED
(318)	FULLWORD	4	OSPDORSA (6)	DOMAIN CALL REGISTER SAVE AREA
(330)	HALFWORD	2	OSPCUAMC	MODIFIED CURSOR POSITION
(332)	BITSTRING	1	OSPCUA	FLAG BYTE FOR CUA SUPPORT
	1... ..		OSPCUAEL	"X'80" INDICATES CURSOR LOCATED
	..1. ....		OSPCUAEP	"X'40" INDICATES END OF CUA PROCESSING
	..1. ....		OSPCUASR	"X'20" INDICATES SHORT READ
	...1 ....		OSPCUAIF	"X'10" INDICATES CUR IN THIS FLD

The following area accumulates 3270 data field information for the BMS global user exits.  
 Changes to this area must be reflected in DFHMCPPE & DFHXBMD5

(334)	HALFWORD	2	BMXMAPCT	count of fields in map(s)
(336)	HALFWORD	2	BMXCOUNT	count of fields passed to GLUE for this request
(338)	HALFWORD	2	BMXINDEX	index to VALIDN attr value
(33C)	ADDRESS	4	BMXARRAY	address of field info array
(340)	ADDRESS	4	BMXNEXT	address of next element
(344)	HALFWORD	2	BMXELEM (0)	field info element
(344)	CHARACTER	8	BMXMAPST	mapset name
(34C)	CHARACTER	7	BMXMAP	map name
(353)	BITSTRING	1	BMXDFFB	field data flag byte
(354)	HALFWORD	2	BMXMAPLN	length of field in map
(356)	HALFWORD	2	BMXACTLN	length of data recvd/sent
(358)	ADDRESS	4	BMXDATA	address of field in TIOA
(35C)	ADDRESS	4	BMXATTR	address of attrs in TIOA
(360)	HALFWORD	2	BMXMAPOF	offset of field in MAP
(362)	HALFWORD	2	BMXBUF	offset of field in buffer
	..1. ....		BMXLEN	"*-BMXELEM" length of element
	...1 ...1		BMXVAR	"*-BMXDFFB" length of variable info

Offset Hex	Type	Len	Name (Dim)	Description
(364)	CHARACTER	1	BMXINTAB (8)	internal array
(364)			OSPEN	"" OSPWA END
(364)			OSPLEN	"OSPEN-OSPSTART" LENGTH OF OSPWA

## PCE Program control EXEC argument list

CONTROL BLOCK NAME = DFHPCEDS  
 DESCRIPTIVE NAME = CICS Program Control EXEC argument list  
 PROGRAMMING INTERFACES

The following fields are part of the Product-sensitive Programming Interface.

PC\_ADDR0  
 PC\_ADDR1  
 PC\_ADDR2  
 PC\_ADDR3  
 PC\_ADDR4  
 PC\_ADDR5  
 PC\_ADDR6  
 PC\_ADDR7  
 PC\_ADDR8  
 PC\_GROUP  
 PC\_FUNCT  
 PC\_BITS1  
 PC\_EIDOPT5  
 PC\_EIDOPT6  
 PC\_PROGRAM  
 PC\_LENGTH  
 PC\_INPUTMSGLEN  
 PC\_DATALENGTH  
 PC\_SYSID  
 PC\_TRANSID

All equates for values of EIBRCODE, EIBRESP and EIBRESP2 form part of the General-purpose Programming Interface.

FUNCTION =

To define fields that may be of use to Program Control User Exits:-

- (1) The Command Level Parameter List.
- (2) EIBRCODE, EIBRESP and EIBRESP2 values.
- (3) The application environment indicators

On entry to the XPCREQ and XPCREQC User exits, the EXEC parameter list is pointed to by UEPCLPS. The EXEC parameter list for program control consists of up to nine addresses.

The nine addresses are defined by PC\_ADDR0 to PC\_ADDR8. This DSECT defines PC\_ADDR0 to PC\_ADDR8 and the areas that they point to.

On entry to the XPCREQ and XPCREQC user exits, the copy of EIBRCODE is pointed to by UEPRCODE, the copy of EIBRESP is pointed to by UEPRESP and the copy of EIBRESP2 is pointed to by UEPRESP2.

The address of an application environment flag byte pointed to by UEPINDS is also passed to the user exit program. It contains flags which are mapped by the PC\_INDS DSECT. These flags allow the exit program to decide whether the user application can access storage above or below the 16M line and which key such storage should be in, CICS or USER.

This copybook also contains equates for values of EIBRCODE, EIBRESP and EIBRESP2 used by Program Control.

LIFETIME = Lifetime of the PC command request  
 STORAGE CLASS = As some of the storage being mapped is the translated source in the user's application program, the storage may be either above or below the line.

LOCATION = (1) EXEC Parameter List is addressed by UEPCLPS.  
 (2) Fields copied from the EIB are addressed by UEPRCODE, UEPRESP and UEPRESP2.  
 (3) The exit token is addressed by UEPCTOK

INNER CONTROL BLOCKS =  
 PC\_ADDR\_LIST declares the EXEC addresses  
 PC\_EID defines Argument 0 pointed to by PC\_ADDR0

NOTES :

DEPENDENCIES = S/370 ESA  
 RESTRICTIONS = None  
 MODULE TYPE = Control Block definition

The Command Parameter List  
 PC\_ADDR\_LIST defines nine addresses, that form the EXEC parameter list for Program Control.  
 In addition, PC\_ADDR1 to PC\_ADDR8 may be modified by a user exit.  
 Any attempt to modify PC\_ADDR0 will be ignored.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			PC_ADDR_LIST	EXEC Parameter List
(0)	ADDRESS	4	PC_ADDR0	Address 0
(4)	ADDRESS	4	PC_ADDR1	Address 1
(8)	ADDRESS	4	PC_ADDR2	Address 2
(C)	ADDRESS	4	PC_ADDR3	Address 3
(10)	ADDRESS	4	PC_ADDR4	Address 4
(14)	ADDRESS	4	PC_ADDR5	Address 5
(18)	ADDRESS	4	PC_ADDR6	Address 6
(1C)	ADDRESS	4	PC_ADDR7	Address 7
(20)	ADDRESS	4	PC_ADDR8	Address 8

PC\_EID defines:

- (1) The type of request
- (2) Existence bits indicating which addresses in the EXEC Parameter List are valid.
- (3) Bits to indicate the keywords specified.

PC\_ADDR0 contains the address of PC\_EID.  
 The following bits may be modified in a Program Control user exit.

- (1) Existence bits PC\_EXIST2, PC\_EXIST3, PC\_EXIST4, PC\_EXIST5, PC\_EXIST6, PC\_EXIST7 and PC\_EXIST8.
- (2) The keyword descriptor PC\_SYNCONRET\_X.

Any attempt to modify any other part of PC\_EID will be ignored.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			PC_EID	Argument 0 for Program Control
(0)	CHARACTER	1	PC_GROUP	Group Code
	.... 111.		PC_PROGRAM_GRP	"X'0E'" All Program Control Requests ... .. have group code '0E'
(1)	CHARACTER	1	PC_FUNCT	Function Code
	.... ..1.		PC_LINK	"X'02'" LINK Request

The next two bytes contain existence bits for the addresses in the EXEC parameter list.  
 For example, PC\_ADDR1 should not be used unless PC\_EXIST1 is set on.  
 PC\_ADDR0 is always valid and has no existence bit.

(2)	BITSTRING	1	PC_BITS1	First 8 existence bits
	1... ..		PC_EXIST1	"X'80'" PC_ADDR1 is valid if the command specifies PROGRAM.
	.1. ....		PC_EXIST2	"X'40'" PC_ADDR2 is valid if the command specifies COMMAREA. This bit may be modified by a user exit.
	..1. ....		PC_EXIST3	"X'20'" PC_ADDR3 is valid if the command specifies LENGTH. This bit may be modified by a user exit.
	...1 ....		PC_EXIST4	"X'10'" PC_ADDR4 is valid if the command specifies INPUTMSG. This bit may be modified by a user exit.
	.... 1...		PC_EXIST5	"X'08'" PC_ADDR5 is valid if the command specifies INPUTMSGLEN. This bit may be modified by a user exit.
	.... .1..		PC_EXIST6	"X'04'" PC_ADDR6 is valid if the command specifies DATALENGTH. This bit may be modified by a user exit.
	.... ..1.		PC_EXIST7	"X'02'" PC_ADDR7 is valid if the command specifies SYSID. This bit may be modified by a user exit.
	.... ...1		PC_EXIST8	"X'01'" PC_ADDR8 is valid if the command specifies TRANSID. This bit may be modified by a user exit.
(3)	BITSTRING	1		Reserved

The next byte is reserved.

(4)	BITSTRING	1		Reserved
-----	-----------	---	--	----------

The next 2 bytes describe the keywords on the command  
 For example, if PC\_SYNCONRET\_X is set on, the command included the SYNCONRETURN keyword. If PC\_SYNCONRET\_X is set off, the command did not include the SYNCONRETURN keyword.

(5)	BITSTRING	1	PC_EIDOPT5	Options Byte 1
(6)	BITSTRING	1	PC_EIDOPT6	Options byte 2
	1... ..		PC_SYNCONRET_X	"X'80'" SYNCONRETURN specified

The following definitions define the variables addressed by the remainder of the EXEC parameter list  
 PC\_ADDR1 addresses program name

Offset Hex	Type	Len	Name (Dim)	Description
(0)	CHARACTER	8	PC_DATA1	Addressed by PC_ADDR1 program name
(0)			PC_PROGRAM	

PC\_ADDR2 addresses the COMMAREA whose length is given in PC\_ADDR3  
 PC\_ADDR3 addresses the length of the COMMAREA

Offset Hex	Type	Len	Name (Dim)	Description
(0)	HALFWORD	2	PC_DATA3	Addressed by PC_ADDR3 Value of LENGTH
(0)			PC_LENGTH	

PC\_ADDR4 addresses the INPUTMSG whose length is given in PC\_ADDR5  
 PC\_ADDR5 addresses the length of the INPUTMSG

Offset Hex	Type	Len	Name (Dim)	Description
(0)	HALFWORD	2	PC_DATA5	Addressed by PC_ADDR5 Area for LENGTH of INPUTMSG
(0)			PC_INPUTMSGLEN	

PC\_ADDR6 addresses length of COMMAREA to be sent

Offset Hex	Type	Len	Name (Dim)	Description
(0)	HALFWORD	2	PC_DATA6	Addressed by PC_ADDR6 Area For DATALENGTH
(0)			PC_DATALENGTH	

PC\_ADDR7 addresses SYSID

Offset Hex	Type	Len	Name (Dim)	Description
(0)	CHARACTER	4	PC_DATA7	Addressed by PC_ADDR7 Area For SYSID
(0)			PC_SYSID	

PC\_ADDR8 addresses TRANSID

Offset Hex	Type	Len	Name (Dim)	Description
(0)	CHARACTER	4	PC_DATA8	Addressed by PC_ADDR8 Area For TRANSID
(0)			PC_TRANSID	

Start of general use programming interface.  
 EIBRCODE, EIBRESP and EIBRESP2  
 Equates for EIBRCODE values used by Program Control

(4)	BITSTRING	6	PC_OK_EIBRCODE	OK
.... ...1			PC_PGMIDERR_ EIBRCODE	"X'01"
11.1 ....			PC_SYSIDERR_ EIBRCODE	"X'D0"
111. ....			PC_INVREQ_ EIBRCODE	"X'E0"
111. ...1			PC LENGERR_ EIBRCODE	"X'E1"
1111 ...1			PC_TERMERR_ EIBRCODE	"X'F1"

Equates for EIBRESP values used by Program Control

.... ....	PC_OK_EIBRESP	"0" OK
...1 ....	PC_INVREQ_ EIBRESP	"16" invalid request
...1 .11.	PC LENGERR_ EIBRESP	"22" length error

Offset Hex	Type	Len	Name (Dim)	Description
...1	1.11		PC_PGMIDERR_ EIBRESP	"27" program id error
..11	.1.1		PC_SYSIDERR_ EIBRESP	"53" system id error
.1..	.11.		PC_NOTAUTH_ EIBRESP	"70" not authorised
.1.1	...1		PC_TERMERR_ EIBRESP	"81" terminal error
<hr/>				
Equates for EIBRESP2 values used by Program Control				
....	....		PC_OK_EIBRESP2	"0" OK
....	...1		PC_PGMIDERR_1_EIBRESP2	"1" PPT entry not located
....	..1.		PC_PGMIDERR_2_EIBRESP2	"2" program disabled
....	..11		PC_PGMIDERR_3_EIBRESP2	"3" program not found in load library
....	1...		PC_INVREQ_1_EIBRESP2	"8" INPUTMSG without terminal
....	1.11		PC LENGERR_1_EIBRESP2	"11" LENGTH < 0
....	11..		PC LENGERR_2_EIBRESP2	"12" DATALENGTH < 0
....	11.1		PC LENGERR_3_EIBRESP2	"13" DATALENGTH > LENGTH
....	111.		PC_INVREQ_2_EIBRESP2	"14" SYNCONRETURN invalid
....	1111		PC_INVREQ_3_EIBRESP2	"15" TRANSID invalid
...1	....		PC_INVREQ_4_EIBRESP2	"16" TRANSID blank
...1	...1		PC_TERMERR_1_EIBRESP2	"17" TERMERR raised
...1	..1.		PC_SYSIDERR_1_EIBRESP2	"18" SYSIDERR raised
...1	..11		PC_INVREQ_5_EIBRESP2	"19" INPUTMSG specified on DPL request
...1	.1..		PC_SYSIDERR_2_EIBRESP2	"20" DPL not supported over LU6.1
.11.	.1.1		PC_NOTAUTH_1_EIBRESP2	"101" resource security check failed
<hr/>				
End of general use programming interface.				

## PCUES Program control user exits DSECT

CONTROL BLOCK NAME = DFHPCUES  
 DESCRIPTIVE NAME = CICS Program control user exits DSECT  
 This data block describes the fields passed to the program control user exits XPCFTCH, XPCTA and XPCHAIR. .  
 The storage is acquired, and the fields filled, in DFHL1.  
 LIFETIME = The storage area is created when an enabled program control exit is called and released when control is returned from the exit to program control.  
 LOCATION =  
 The storage is in GETMAINed in DFHL1.  
 INNER CONTROL BLOCKS = none  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = none  
 DATA AREAS = none  
 CONTROL BLOCKS = none  
 GLOBAL VARIABLES (Macro pass) = none

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	60	DFHPCUES	program control user exits work area
(0)	HALFWORD	2	PCUE_LENGTH_OF_DSECT	
(2)	BITSTRING	1	PCUE_CONTROL_BITS	
			PCUECBTE	task has a terminal id
			PCUENOTX	program is not EXEC level
			*	reserved
(3)	BITSTRING	1	*	reserved
(4)	CHARACTER	3	PCUE_TASK_NUMBER	task identification number
(7)	CHARACTER	1	*	reserved
(8)	CHARACTER	4	PCUE_TRANSACTION_ID	Transaction ID
(C)	CHARACTER	4	PCUE_TERMINAL_ID	Terminal ID
(10)	CHARACTER	8	PCUE_PROGRAM_NAME	Program name
(18)	CHARACTER	3	PCUE_PROGRAM_LANGUAGE	Program language
(1B)	CHARACTER	1	*	reserved
(1C)	ADDRESS	4	PCUE_LOAD_POINT	Program load address
(20)	ADDRESS	4	PCUE_ENTRY_POINT	Program entry point addr
			PCUEAMOD	AMODE (31)
(20)	BITSTRING	3	*	
(24)	FULLWORD	4	PCUE_PROGRAM_SIZE	Program size
(28)	ADDRESS	4	PCUE_COMMAREA_ADDRESS	Commarea address, if any
(2C)	FULLWORD	4	PCUE_COMMAREA_SIZE	Commarea size
(30)	FULLWORD	4	PCUE_LOGICAL_LEVEL	chained DFHRSADS
(34)	ADDRESS	4	PCUE_BRANCH_ADDRESS	Alternate branch address
			PCUE_BRANCH_AMODE	AMODE of program at branch
(34)	BITSTRING	3	*	
(38)	BITSTRING	1	PCUE_BRANCH_EXECKEY	Execution key to be used at modified address
(39)	CHARACTER	3	*	Reserved

## Constants

Len	Type	Value	Name	Description
1	HEX	80	PCUE_BRANCH_USER	User Key, for XPCTA
1	HEX	40	PCUE_BRANCH_CICS	CICS Key, for XPCTA

## PDA Monitoring performance data record

CONTROL BLOCK NAME = DFHMNPDA  
 DESCRIPTIVE NAME = CICS CICS/ESA Monitoring Facility (CMF)  
 FUNCTION =  
     This DSECT describes the format of the CICS/ESA Monitoring Facility (CMF) Performance class record created by the  
 LIFETIME = N/A  
 STORAGE CLASS = N/A  
 LOCATION = N/A  
 INNER CONTROL BLOCKS = N/A  
 NOTES :  
     DEPENDENCIES = S/370  
     RESTRICTIONS = None  
     MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
     DATA AREAS = N/A  
     CONTROL BLOCKS = N/A  
     GLOBAL VARIABLES (Macro pass) = N/A

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHMNPDA	, Unloaded Performance Data Record
(0)	CHARACTER	8	PDRJOBNM	Jobname
(8)	CHARACTER	8	PDRGAPPL	Generic Applid
(10)	CHARACTER	8	PDRSAPPL	Specific Applid
(18)	CHARACTER	4	PDRSID	System identification
(1C)	BITSTRING	2	PDRRVN	Record version - 'x'0vrm'
(1E)	BITSTRING	2	PDRMFL	Record maintenance indicator
(20)	BITSTRING	4		Reserved - spare
(24)	BITSTRING	2	PDRCLASS	Performance record class
(26)	BITSTRING	10	PDRSRTKY (0)	Cross system report sort key
(26)	BITSTRING	2	PDRSEQNO	Syncpoint sequence number
(28)	BITSTRING	8	PDRDETT2	Transaction stop time
(30)		4	PDRDATE	Stop Date (unsigned packed)
(34)	BITSTRING	4	PDRTIME	Stop Time (binary)
(38)	BITSTRING	4	PDRRESP	RESPonse Time (stop - start)
(3C)	BITSTRING	4	PDRIRESP	IRESPonse Time (resp - tciowt)
(40)	BITSTRING	4		Spare - reserved
(44)	BITSTRING	22	PDRDB2TK	DB2 Accounting Correlation Token
(5A)	BITSTRING	2		Spare - reserved

The following fields are positionally sensitive.

(5C)	FULLWORD	4	PDRBEGIN (0)	
(5C)	CHARACTER	4	PDRTRID	Transaction identification
(60)	CHARACTER	4	PDRTEID	Terminal identification
(64)	CHARACTER	8	PDRUSID	User identification
(6C)	CHARACTER	2	PDRTRTY	Transaction start type
(6E)	BITSTRING	2		Reserved
(70)	BITSTRING	8	PDRATTT	Task start time
(78)	BITSTRING	8	PDRDETT	Task stop time
(80)	BITSTRING	4	PDRTRSN	Transaction sequence number
(84)	BITSTRING	3		Reserved
(87)	BITSTRING	1	PDRTPRI	Transaction priority
(88)	CHARACTER	8	PDRTCLSN	Transaction class name
(90)	CHARACTER	8	PDRLUNM	VTAM logical unit name
(98)	CHARACTER	8	PDRPGNM	First program name Originating Network Unit-of-Work Id
(A0)	CHARACTER	20	PDRNETPX	Network Unit-of-Work Netname
(B4)	BITSTRING	8	PDRNETSX	Network Unit-of-Work Instance/Seqno
(BC)	CHARACTER	4	PDRRSYS	Remote sysid routed to
(C0)	BITSTRING	4	PDRPRCNT	Performance record count
(C4)	BITSTRING	8	PDRRMUOW	Recovery Manager Unit-of-Work id
(CC)	CHARACTER	8	PDRSRVCL	Workload Manager service class name
(D4)	CHARACTER	8	PDRRPTCL	Workload Manager report class name
(DC)	BITSTRING	4	PDRFCTY	FCTYNAME - Transaction Facility name
(E0)	BITSTRING	8	PDRTRFLG (0)	TRANFLAG - Transaction Flags
(E0)	BITSTRING	1	PDRTRFL1	Transaction Flag 1
	1... ..		PDRTRFL1_NONE	"X'80" None
	.1.. ..		PDRTRFL1_TERM	"X'40" Terminal Facility
	..1. ....		PDRTRFL1_SURR	"X'20" Surrogate Terminal Facility
	...1 .....		PDRTRFL1_DEST	"X'10" Destination Facility
	.... 1...		PDRTRFL1_BRDG	"X'08" Bridge Facility EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved

Offset Hex	Type	Len	Name (Dim)	Description
(E1)	BITSTRING	1	PDRTRFL2	Transaction Flag 2
	1... ..		PDRTRFL2_SYSTEM	"X'80" System Transaction
	.1. ....		PDRTRFL2_MIRROR	"X'40" Mirror Transaction
	.1. ....		PDRTRFL2_DPL	"X'20" Mirror Transaction - DPL
	...1 ....		PDRTRFL2_ONC_RPC	"X'10" Alias Transaction - ONC/RPC
	.... 1...		PDRTRFL2_WEB	"X'08" Alias Transaction - WEB
	.... .1..		PDRTRFL2_BRIDGE	"X'04" Bridge Transaction EQU X'02' Reserved
	.... ...1		PDRTRFL2_RUN_TRAN	"X'01" BTS Run Transaction
(E2)	BITSTRING	1	PDRTRFL3	Transaction Flag 3
	1... ..		PDRTRFL3_RPT	"X'80" WLM Report
	.1. ....		PDRTRFL3_NTFY_COMP	"X'40" WLM Notify - Completion
	.1. ....		PDRTRFL3_NTFY	"X'20" WLM Notify
(E3)	BITSTRING	1	PDRTRFL4	Transaction Flag 4
	1... ..		PDRTRFL4_LOC_BELOW	"X'80" Taskdataloc=below
	.1. ....		PDRTRFL4_CICS_KEY	"X'40" Taskdatakey=cics
	.1. ....		PDRTRFL4_ISOLATE_NO	"X'20" Isolate=no
	...1 ....		PDRTRFL4_DYNAMIC	"X'10" Dynamic=yes EQU X'08' Reserved EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved
(E4)	BITSTRING	1	PDRTRFL5	Transaction Flag 5 - Reserved Transaction origin type
(E5)	BITSTRING	1	PDRTRFL6	Transaction Flag 6 - Reserved
(E6)	BITSTRING	1	PDRTRFL7	Transaction Flag 7 - Reserved
(E7)	BITSTRING	1	PDRTRFL8	Transaction Flag 8
	1... ..		PDRTRFL8_WAIT_NO	"X'80" Indoubt wait = no
	.1. ....		PDRTRFL8_COMMIT	"X'40" Indoubt action = commit
	.1. ....		PDRTRFL8_INDOUBT_ACT	"X'20" UOW Indoubt action
	...1 ....		PDRTRFL8_UOW_SHUNT	"X'10" UOW Shunt
	.... 1...		PDRTRFL8_UOW_UNSHUNT	"X'08" UOW Unshunt
	.... .1..		PDRTRFL8_INDBT_FAIL	"X'04" Indoubt failure
	.... .1.		PDRTRFL8_RO_FAILURE	"X'02" Resource Owner failure EQU X'01' Reserved
(E8)	BITSTRING	4	PDRTEINF (0)	TERMINFO - Terminal Information
(E8)	BITSTRING	1	PDRNATUR	Nature
	.... ....		PDRNATUR_NOTAPPLIC	"X'00" Not applic
	.... ...1		PDRNATUR_TERMINAL	"X'01" Terminal
	.... .1.		PDRNATUR_SESSION	"X'02" Session
(E9)	BITSTRING	1	PDRSESST	Session Type
	.... ....		PDRSESST_NOTAPPLIC	"X'00" Not applic
	.... ...1		PDRSESST_IRC	"X'01" IRC
	.... .1.		PDRSESST_IRC_XM	"X'02" IRC XM
	.... .11		PDRSESST_IRC_XCF	"X'03" IRC XCF
	.... .1..		PDRSESST_LU61	"X'04" LU61
	.... .1.1		PDRSESST_LU62_SING	"X'05" LU62 SINGLE
	.... .11.		PDRSESST_LU62_PARA	"X'06" LU62 PARALLEL
(EA)	BITSTRING	1	PDRACMTH	Access method
	.... ....		PDRACMTH_NOTAPPLIC	"X'00" Not applic
	.... ...1		PDRACMTH_VTAM	"X'01" VTAM
	.... .1.		PDRACMTH_BTAM	"X'02" BTAM
	.... .11		PDRACMTH_BSAM	"X'03" BSAM
	.... .1..		PDRACMTH_TCAM	"X'04" TCAM
	.... .1.1		PDRACMTH_TCAMSNA	"X'05" TCAMSNA
	.... .11.		PDRACMTH_BGAM	"X'06" BGAM
	.... .111		PDRACMTH_CONSOLE	"X'07" CONSOLE
(EB)	BITSTRING	1	PDRDVTCD	Device type code See TYPETERM RDO attribute
(EC)	CHARACTER	4	PDRTECNM	TERMCONM - Terminal Connection name
(F0)	CHARACTER	4	PDRBTRID	BRDGRAN - Bridge transaction id
(F4)	BITSTRING	16	PDRURID	RRMSURID - RRMS/MVS Unit of Recovery
(104)	CHARACTER	36	PDRPNAME	PRCSNAME - Process name
(128)	CHARACTER	8	PDRPTYPE	PRCSTYPE - Process type
(130)	CHARACTER	52	PDRPCID	PRCSID - Process id
(164)	CHARACTER	52	PDRACTID	ACTVTYID - Activity id
(198)	CHARACTER	16	PDRACTNM	ACTVTYNM - Activity name
(1A8)	CHARACTER	16	PDRICIPAD	CLIPADDR - Client IP Address
(1B8)	BITSTRING	28	PDRTGPID	TRNGRPID - Transaction Group Id
(1D4)	BITSTRING	4	PDRERROR	TASKFLAG - Transaction error flags
(1D8)	CHARACTER	4	PDRABCD0	Original Transaction abend codes
(1DC)	CHARACTER	4	PDRABCD4	Current Transaction abend code
(1E0)	BITSTRING	3		Reserved
(1E3)	CHARACTER	1	PDRRTYPE	Performance record type
	11.. .11		PDRRTYPE_CONVERSE	"C'C" Converse
	11.. .1.		PDRRTYPE_DELIVER	"C'D" Deliver
	11.. .11.		PDRRTYPE_FREQUENCY	"C'F" Frequency
	111. .1.		PDRRTYPE_SYNCPOINT	"C'S" Syncpoint
	111. .11		PDRRTYPE_TERMINATE	"C'T" Terminate
(1E4)	BITSTRING	4	PDRPINMC	Primary TC messages - in
(1E8)	BITSTRING	4	PDRTCHC	Primary TC characters - in
(1EC)	BITSTRING	4	PDRPOUMC	Primary TC messages - out
(1F0)	BITSTRING	4	PDRTCO1C	Primary TC characters - out
(1F4)	BITSTRING	4	PDRSINMC	Secondary TC messages - in
(1F8)	BITSTRING	4	PDRTCI2C	Secondary TC characters - in
(1FC)	BITSTRING	4	PDRSOU MC	Secondary TC messages - out
(200)	BITSTRING	4	PDRTCO2C	Secondary TC characters - out



Offset Hex	Type	Len	Name (Dim)	Description
(204)	BITSTRING	4	PDR62IMC	Secondary TC msgs for LU6.2. - in
(208)	BITSTRING	4	PDR62ICH	Secondary TC chars for LU6.2. - in
(20C)	BITSTRING	4	PDR62OMC	Secondary TC msgs for LU6.2. - out
(210)	BITSTRING	4	PDR62OCH	Secondary TC chars for LU6.2. - out
(214)	BITSTRING	4	PDRTAC	No. TCTTE allocate requests
(218)	BITSTRING	4	PDRSCUGB	User stg getmain count below 16M
(21C)	BITSTRING	4	PDRSCUGA	User stg getmain count above 16M
(220)	BITSTRING	4	PDRSCCGB	CDSA stg getmain count below 16M
(224)	BITSTRING	4	PDRSCCGA	ECDSA stg getmain count above 16M
(228)	BITSTRING	4	PDRUSHWB	User task storage HWM below 16M
(22C)	BITSTRING	4	PDRUSHWA	User task storage HWM above 16M
(230)	BITSTRING	4	PDRCHWMB	CDSA storage HWM below the 16M
(234)	BITSTRING	4	PDRCHWMA	ECDSA storage HWM above the 16M
(238)	BITSTRING	8	PDRUTSOB	User task stg "occupancy" below 16M
(240)	BITSTRING	8	PDRUTSOA	User task stg "occupancy" above 16M
(248)	BITSTRING	8	PDRCOCCB	CDSA storage "occupancy" below 16M
(250)	BITSTRING	8	PDRCOCCA	ECDSA storage "occupancy" above 16M
(258)	BITSTRING	4	PDRSC24S	Shared stg getmain count below 16M
(25C)	BITSTRING	4	PDRSC24G	Shared stg bytes getmain'd
(260)	BITSTRING	4	PDRSC24F	Shared stg bytes freemain'd
(264)	BITSTRING	4	PDRSC31S	Shared stg getmain count above 16M
(268)	BITSTRING	4	PDRSC31G	Shared stg bytes getmain'd
(26C)	BITSTRING	4	PDRSC31F	Shared stg bytes freemain'd
(270)	BITSTRING	4	PDRPCUSE	Program storage HWM
(274)	BITSTRING	4	PDRPC31A	Program storage HWM above 16M
(278)	BITSTRING	4	PDRPCUSB	Program storage HWM below 16M
(27C)	BITSTRING	4	PDRPCCAH	ECDSA CICS program storage HWM
(280)	BITSTRING	4	PDRPCCBH	CDSA CICS program storage HWM
(284)	BITSTRING	4	PDRPCRAH	ERDSA R/O program storage HWM
(288)	BITSTRING	4	PDRPCRBH	RDSA R/O program storage HWM
(28C)	BITSTRING	4	PDRPCSAH	ESDSA Shared program storage HWM
(290)	BITSTRING	4	PDRPCSBH	SDSA Shared program storage HWM
(294)	BITSTRING	4	PDRFCGC	No. file gets
(298)	BITSTRING	4	PDRFCPC	No. file puts
(29C)	BITSTRING	4	PDRFCBC	No. file browses
(2A0)	BITSTRING	4	PDRFCAC	No. file adds
(2A4)	BITSTRING	4	PDRFCDC	No. file deletes
(2A8)	BITSTRING	4	PDRFCTC	Total FC requests
(2AC)	BITSTRING	4	PDRFCAMC	No. access method requests
(2B0)	BITSTRING	4	PDRTDGC	No. transient data gets
(2B4)	BITSTRING	4	PDRTDPC	No. transient data puts
(2B8)	BITSTRING	4	PDRTDRC	No. transient data purges
(2BC)	BITSTRING	4	PDRTDTC	Total TD requests
(2C0)	BITSTRING	4	PDRTSGC	No. temp storage gets
(2C4)	BITSTRING	4	PDRTSPAC	No. temp storage puts - aux
(2C8)	BITSTRING	4	PDRTSPMC	No. temp storage puts - main
(2CC)	BITSTRING	4	PDRTSTC	Total TS requests
(2D0)	BITSTRING	4	PDRBMMC	No. BMS map requests
(2D4)	BITSTRING	4	PDRBMIC	No. BMS in requests
(2D8)	BITSTRING	4	PDRBMOC	No. BMS out requests
(2DC)	BITSTRING	4	PDRBMTC	Total BMS requests
(2E0)	BITSTRING	4	PDRPCLIC	No. program links
(2E4)	BITSTRING	4	PDRPCXC	No. program xctls
(2E8)	BITSTRING	4	PDRPCLOC	No. program loads
(2EC)	BITSTRING	4	PDRPCLUC	No. program links to URM's
(2F0)	BITSTRING	4	PDRPCDPL	No. DPL program links
(2F4)	BITSTRING	4	PDRJNLCT	No. journal write requests
(2F8)	BITSTRING	4	PDRLGWCT	No. CICS logger write requests
(2FC)	BITSTRING	4	PDRICC	No. interval control starts
(300)	BITSTRING	4	PDRICTC	Total interval control requests
(304)	BITSTRING	4	PDRSPPC	No. syncpoint requests
(308)	BITSTRING	4	PDRCFACT	No. OO Class Library API requests
(30C)	BITSTRING	4	PDRSZACT	No. FEPI allocates
(310)	BITSTRING	4	PDRSZRCT	No. FEPI receives
(314)	BITSTRING	4	PDRSZSCT	No. FEPI sends
(318)	BITSTRING	4	PDRSZTCT	No. FEPI starts
(31C)	BITSTRING	4	PDRSZCOT	No. chars sent via FEPI
(320)	BITSTRING	4	PDRSZCIN	No. chars received via FEPI
(324)	BITSTRING	4	PDRSZATO	No. FEPI allocate timeouts
(328)	BITSTRING	4	PDRSZRTO	No. FEPI receive timeouts
(32C)	BITSTRING	4	PDRSZTOT	Total no. FEPI requests
(330)	BITSTRING	4	PDRBARSC	No. Run Process/Activity Sync
(334)	BITSTRING	4	PDRBARAC	No. Run Process/Activity Async
(338)	BITSTRING	4	PDRBALKC	No. Link Process/Activity reqs
(33C)	BITSTRING	4	PDRBADPC	No. Define Process requests
(340)	BITSTRING	4	PDRBADAC	No. Define Activity requests
(344)	BITSTRING	4	PDRBTPAC	No. Reset Process/Activity reqs
(348)	BITSTRING	4	PDRBSPAC	No. Suspend Process/Activity reqs
(34C)	BITSTRING	4	PDRBRPAC	No. Resume Process/Activity reqs
(350)	BITSTRING	4	PDRBDCPC	No. Delete/Cancel requests
(354)	BITSTRING	4	PDRBAAPC	No. Acquire Process requests
(358)	BITSTRING	4	PDRBATPC	Total No. Process/Activity reqs
(35C)	BITSTRING	4	PDRBAPDC	No. Process Container requests
(360)	BITSTRING	4	PDRBAADC	No. Activity Container requests
(364)	BITSTRING	4	PDRBATCC	Total No. Container requests
(368)	BITSTRING	4	PDRBAREC	No. Reattach Event requests

Offset Hex	Type	Len	Name (Dim)	Description
(36C)	BITSTRING	4	PDRBADIC	No. Define Input Event requests
(370)	BITSTRING	4	PDRBATAC	No. Timer Associated Event requests
(374)	BITSTRING	4	PDRBATEC	Total no. Event requests
(378)	BITSTRING	4	PDRWBRCT	No. WEB Receive requests
(37C)	BITSTRING	4	PDRWBCIN	No. Characters received via WEB reqs
(380)	BITSTRING	4	PDRWBSCT	No. WEB Send requests
(384)	BITSTRING	4	PDRWBCOT	No. Characters sent via WEB requests
(388)	BITSTRING	4	PDRWBTC	Total No. WEB requests
(38C)	BITSTRING	4	PDRWBRPR	No. Repository Reads
(390)	BITSTRING	4	PDRWBRPW	No. Repository Writes
(394)	BITSTRING	4	PDRDHCRG	No. Document Create requests
(398)	BITSTRING	4	PDRDHINC	No. Document Insert requests
(39C)	BITSTRING	4	PDRDHSTC	No. Document Set requests
(3A0)	BITSTRING	4	PDRDHRTC	No. Document Retrieve requests
(3A4)	BITSTRING	4	PDRDHTC	Total No. Document requests
(3A8)	BITSTRING	4	PDRDHTDL	Total Document Created length
(3AC)	BITSTRING	4	PDRSOBEN	No. Bytes Encrypted
(3B0)	BITSTRING	4	PDRSOBDE	No. Bytes Decrypted
(3B4)	BITSTRING	4	PDRIMSRC	Total No. IMS requests
(3B8)	BITSTRING	4	PDRDBZRC	Total No. DB2 requests
(3BC)	BITSTRING	4	PDRCHMDC	No. CICS Dispatcher Change Mode's
(3C0)	BITSTRING	4	PDRTCBAC	No. CICS Dispatcher TCB Attach's
(3C4)	BITSTRING	8	PDRDIST	User task dispatch time
(3CC)	BITSTRING	8	PDRCPUT	User task cpu time
(3D4)	BITSTRING	8	PDRSUST	Task suspend time
(3DC)	BITSTRING	8	PDRDWT	Dispatch wait time
(3E4)	BITSTRING	8	PDRQRDSP	User task QR Mode dispatch time
(3EC)	BITSTRING	8	PDRQRCPU	User task QR Mode cpu time
(3F4)	BITSTRING	8	PDRMSDSP	User task Other Mode dispatch time
(3FC)	BITSTRING	8	PDRMSCPU	User task Other Mode cpu time
(404)	BITSTRING	8	PDRL8CPU	User task L8 Mode cpu time
(40C)	BITSTRING	8	PDRJ8CPU	User task J8 Mode cpu time
(414)	BITSTRING	8	PDRS8CPU	User task S8 Mode cpu time
(41C)	BITSTRING	8	PDRQRDLY	QR Mode delay time
(424)	BITSTRING	8	PDRDLY	Max Open TCB delay time
(42C)	BITSTRING	8	PDREXWT	Exception wait time
(434)	BITSTRING	8	PDRTCWT	TC i/o wait time
(43C)	BITSTRING	8	PDRFCWT	FC i/o wait time
(444)	BITSTRING	8	PDRJCWT	JC i/o wait time
(44C)	BITSTRING	8	PDRTSWT	TS i/o wait time
(454)	BITSTRING	8	PDRIRWT	IR i/o wait time
(45C)	BITSTRING	8	PDRTDWT	TD i/o wait time
(464)	BITSTRING	8	PDRPCLT	Program load time
(46C)	BITSTRING	8	PDRFDDLY	1st Dispatch delay - TCLASS,MXT,etc
(474)	BITSTRING	8	PDRFDTCL	1st Dispatch delay due to TCLASS
(47C)	BITSTRING	8	PDRFDMXT	1st Dispatch delay due to MXT
(484)	BITSTRING	8	PDRNQDLY	Local ENQ delay time
(48C)	BITSTRING	8	PDRGQDLY	Global ENQ delay time
(494)	BITSTRING	8	PDR61WT	LU61 i/o wait time
(49C)	BITSTRING	8	PDR62WT	LU62 i/o wait time
(4A4)	BITSTRING	8	PDRSZWT	FEPI suspend time
(4AC)	BITSTRING	8	PDRRMIT	Total RMI elapsed time
(4B4)	BITSTRING	8	PDRRMIS	Total RMI suspend time
(4BC)	BITSTRING	8	PDRSYNCT	Syncpoint elapsed time
(4C4)	BITSTRING	8	PDRRLSWT	RLS wait time
(4CC)	BITSTRING	8	PDRRLSCP	RLS SRB CPU time
(4D4)	BITSTRING	8	PDRLMDLY	Lock Mgr delay time
(4DC)	BITSTRING	8	PDRWTXWT	External wait time
(4E4)	BITSTRING	8	PDRWCEWT	Cics/Event wait time
(4EC)	BITSTRING	8	PDRICDLY	Interval control delay time
(4F4)	BITSTRING	8	PDRGVPWT	Give up control wait time
(4FC)	BITSTRING	8	PDRTSHWT	Shared TS wait time
(504)	BITSTRING	8	PDRCDTWT	CF Data Table wait time
(50C)	BITSTRING	8	PDRSYWTT	Server Syncpoint wait time
(514)	BITSTRING	8	PDRRRSWT	RRMS/MVS wait time
(51C)	BITSTRING	8	PDRRTRWT	Run Transaction wait time
(524)	BITSTRING	8	PDRSYDLY	Syncpoint delay time
(52C)	BITSTRING	8	PDRSOWT	Socket I/O wait time
(534)	BITSTRING	8	PDRIMSWT	IMS wait time
(53C)	BITSTRING	8	PDRRDQWT	DB2 Readyq wait time
(544)	BITSTRING	8	PDRCONWT	DB2 Connection wait time
(54C)	BITSTRING	8	PDRDB2WT	DB2 wait time
(554)	BITSTRING	8	PDRJVMT	Total JVM elapsed time
(55C)	BITSTRING	8	PDRJVMS	Total JVM suspend time
(564)	FULLWORD	4	PDRUEND (0)	
(564)			MNPDRLEN	--"DFHMPDA" Performance Data Record length

## PEP Program error program commarea

Module Name = DFHPCOMS  
 Descriptive Name = Commarea for User Program Error Program  
 Function =  
     Commarea for PEP; created by DFHACP, passed to User PEP  
 Notes:  
 Dependencies = S/370  
 Restrictions = none  
 Register Conventions = none  
 Patch Label = none  
 Module Type = copy  
 Attributes = copy  
 Entry Point = none  
 Purpose = copybook  
 Linkage = none  
 Input = none  
 Output = none  
 Exit-normal = none  
 Exit-error = none  
 External References =  
 Routines =  
 Data Areas = none  
 Control Blocks = none  
 Global Variables = none  
 Tables = none  
 Macros =  
 Description  
     Copybook for Commarea for User's Program Error Program

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	196	DFHPEP_COMMAREA	
Standard header section				
(0)	CHARACTER	4	PEP_COM_STANDARD	
(0)	CHARACTER	1	PEP_COM_FUNCTION	always '1'
(1)	CHARACTER	2	PEP_COM_COMPONENT	always 'PC'
(3)	CHARACTER	1	PEP_COM_RESERVED	Reserved
Abend codes and EIB				
(4)	CHARACTER	4	PEP_COM_CURRENT_ABEND_CODE	current abcode
(8)	CHARACTER	4	PEP_COM_ORIGINAL_ABEND_CODE	original abcode
(C)	CHARACTER	85	PEP_COM_USERS_EIB	EIB at abend
Debugging information				
(64)	CHARACTER	84	PEP_COM_DEBUG	
(64)	CHARACTER	8	PEP_COM_ABPROGRAM	ABENDING program
(6C)	CHARACTER	8	PEP_COM_PSW	PSW at abend
(74)	UNSIGNED	4	PEP_COM_REGISTERS (16)	regs at abend
(B4)	UNSIGNED	1	PEP_COM_KEY	execution key in form x'0n' (ASRA and ASRB)
(B5)	UNSIGNED	1	PEP_COM_STORAGE_HIT	storage hit by 0C4 (ASRA only)
(B6)	UNSIGNED	1	PEP_COM_SPACE	sub/basespce@L3C
(B7)	CHARACTER	1	PEP_COM_PADDING	Reserved
Return code - return ok or disable transaction				
(B8)	UNSIGNED	4	PEP_COM_RETURN_CODE	
Additional PSW EC mode information				
(BC)	CHARACTER	8	PEP_COM_INT	PSW interrupt codes

### Constants

Len	Type	Value	Name	Description
4	DECIMAL	4	PEP_COM_RETURN_DISABLE	disable
4	DECIMAL	0	PEP_COM_RETURN_OK	ok
PEP_COM_STORAGE_HIT values				
1	DECIMAL	0	PEP_COM_NO_HIT	No hit or no 0C4
1	DECIMAL	1	PEP_COM_CDSA_HIT	CDSA hit
1	DECIMAL	2	PEP_COM_ECDSA_HIT	ECDSA hit
1	DECIMAL	3	PEP_COM_ERDSA_HIT	ERDSA hit
1	DECIMAL	4	PEP_COM_RDSA_HIT	RDSA hit
1	DECIMAL	5	PEP_COM_EUDSA_HIT	EUDSA hit
1	DECIMAL	6	PEP_COM_UDSA_HIT	UDSA hit
PEP_COM_KEY values				
1	DECIMAL	9	PEP_COM_USER_KEY	USER key
1	DECIMAL	8	PEP_COM_CICS_KEY	CICS key
PEP_COM_SPACE_ACTIVE values				
1	DECIMAL	10	PEP_COM_SUBSPACE	Error in s/space
1	DECIMAL	11	PEP_COM_BASESPACE	Error in b/space

### PFT Profile table entry

```

CONTROL BLOCK NAME = DFHPPFPS
DESCRIPTIVE NAME = CICS (KC) Profile support
FUNCTION = Define the profile DSECT
    Although the profile is logically an extension to
    the terminal, it is owned and managed by the KC
    component.
    There is one instance of this control block for each
    profile installed (via RDO) in the system.
    The profile contains terminal control processing
    options to be used by a transaction.
LIFETIME = INSTALL to DISCARD
STORAGE CLASS = DFHSC TYPE=GETMAIN,CLASS=USER
LOCATION = loclaed VIA TMP directory
INNER CONTROL BLOCKS = none
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = none
MODULE TYPE = Control block definition
EXTERNAL REFERENCES = none
DATA AREAS = none
CONTROL BLOCKS = none
GLOBAL VARIABLES (Macro pass) = none
    
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	42	DFHPPFPS	
(0)	CHARACTER	42	PPFED	
(0)	CHARACTER	8	PPFNAME	PROFILE NAME
(8)	UNSIGNED	2	PPFENL	ENTRY LENGTH
(A)	UNSIGNED	1	PPFTYPE	TYPE OF ENTRY, 3=PROFILE
(B)	CHARACTER	1	*	(SPACER)
(C)	BITSTRING	1	PPFFLAGS	FLAGS
			PPFDYNA	ENTRY DYNAMICALLY ADDED
			*	RESERVED
(D)	CHARACTER	3	*	RESERVED
(10)	CHARACTER	5	PPFJINF	5 BYTES MOVED TO TCTTE
(10)	BITSTRING	1	PPFMIOAJ	TERMINAL MSG I/O & JOURNAL
			PPFMFMHA	ALL FMH'S TO APPLICATION
			PPFMFMHE	(EODS)
			PPFMIMIO	RESERVED
			PPFMDLIO	RESERVED
			PPFMFMHD	(DIP)
			PPFMLRQ	LOGICAL REC PRESENT REQUIRED
			PPFMJLI	AUTO INPUT MSG JOURNALLING
			PPFMJLO	AUTO OUTPUT MSG JOURNALLING
(11)	BITSTRING	1	PPFEXTOP	EXTRACT OPTIONS
			PPFEXNO	EXTRACT=NO
			PPFEXAT	EXTRACT=ATTACH
			*	RESERVED
			*	RESERVED
			*	RESERVED
			*	RESERVED

Offset Hex	Type	Len	Name (Dim)	Description
	.... .1.		*	RESERVED
	.... ...1		*	RESERVED
(12)	BITSTRING	1	PPFOPT2	EXTRA OPTIONS
	1... ....		PPFSRAQ	READ AHEAD QUEUING SUPPORT
	.1.. ....		PPFUCTRN	UPPER CASE TRANSLATE REQUIRED *
	..1. ....		*	RESERVED
	...1 ....		*	RESERVED
	.... 1...		*	RESERVED
	.... .1..		*	RESERVED
	.... ...1		*	RESERVED
	.... ...1		*	RESERVED
(13)	UNSIGNED	1	PPFMSJID	TERM MSG JOURNAL FILE ID
(14)	UNSIGNED	1	PPFNEPC	NODE ERROR PROGRAM CLASS
(15)	CHARACTER	2	PPFMPCRC	TERMINAL MSG PROT.REQUIRED
(15)	BITSTRING	1	*	1ST BYTE
(16)	BITSTRING	1	PPFMPFLG	2ND BYTE - SUPPORTED BITS:
	111. ....		*	RESERVED
	...1 ....		PPFMPCTL	X'10' = CHAIN CONTROL(NOT SPI)
	.... 1...		*	RESERVED
	.... .1..		PPFMPMSG	X'04' = MESSAGE INTEGRITY
	.... ...1		*	RESERVED
	.... ...1		PPFMPONW	X'01' = ONE WRITE OPTION
(17)	CHARACTER	2	PPFMPCOP	TERMINAL MSG PROT.OPTIONAL (NOT SUPPORTED IN SPI)
(17)	BITSTRING	1	*	1ST BYTE
(18)	BITSTRING	1	PPFMFLG	2ND BYTE - SUPPORTED BITS:
	111. ....		*	RESERVED
	...1 ....		PPFMOCTL	X'10' = CHAIN CONTROL
	.... 1...		*	RESERVED
	.... .1..		PPFMOMSG	X'04' = MESSAGE INTEGRITY
	.... ...1		*	RESERVED
	.... ...1		PPFMOONW	X'01' = ONE WRITE OPTION
(19)	UNSIGNED	2	*	RESERVED
(1B)	CHARACTER	8	PPFMODEN	MODENAME
(23)	BITSTRING	1	PPFMDVSP	TERMINAL DEVICE SUPPORT
	1... ....		*	RESERVED
	.1.. ....		*	RESERVED
	..1. ....		*	RESERVED
	...1 ....		*	RESERVED
	.... 1...		*	RESERVED
	.... .1..		*	RESERVED
	.... ...1		PPFMDVNO	NON-VTAM DEVICES ONLY
	.... ...1		PPFMDVTM	VTAM DEVICES ONLY
(24)	UNSIGNED	1	PPFTRTO	TERMINAL READ TIMEOUT VALUE
(25)	BITSTRING	1	PPFSCS	SCREEN SIZE SELECTION
	1... ....		*	RESERVED
	.1.. ....		*	RESERVED
	..1. ....		*	RESERVED
	...1 ....		*	RESERVED
	.... 1...		PPFSCSA	ALTERNATE SCREEN SIZE
	.... .1..		*	RESERVED
	.... ...1		PPFPRTCM	PRINTER COMPATIBILITY
	.... ...1		*	RESERVED
(26)	CHARACTER	4	PPFFACKL	FACILITYLIKE

**PGA BMS page control area DSECT**

MODULE NAME = DFHPGADS  
 DESCRIPTIVE NAME = CICS BMS PAGE CONTROL AREA DSECT  
 FUNCTION = DEFINE THE BMS PAGE CONTROL AREA. THIS IS APPENDED BY DFHTPP TO THE END OF A PAGE OF DATASTREAM. TIOATDL EXCLUDES THE PGA, AND CAN THEREFORE BE USED TO ADDRESS IT.  
 THE PGA CONTAINS THE WCC AND ERASE FLAG FOR THE PAGE, AND INDICATES WHICH EXTENDED ATTRIBUTES ARE USED IN THIS PAGE.

NOTES :

DEPENDENCIES = S/370  
 RESTRICTIONS = NONE  
 REGISTER CONVENTIONS = SEE COMMENTS IN CODE  
 PATCH LABEL = NOT APPLICABLE  
 MODULE TYPE = DSECT  
 MODULE SIZE = NOT APPLICABLE  
 ATTRIBUTES = NOT APPLICABLE  
 ENTRY POINT = NOT APPLICABLE  
 PURPOSE = SEE FUNCTION  
 LINKAGE = NOT APPLICABLE  
 INPUT = NOT APPLICABLE  
 OUTPUT = NOT APPLICABLE  
 EXIT-NORMAL = NOT APPLICABLE  
 EXIT-ERROR = NOT APPLICABLE  
 EXTERNAL REFERENCES = NONE  
 CONTROL BLOCKS = NOT APPLICABLE  
 TABLES = NOT APPLICABLE  
 MACROS = NONE

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHPGADS	DUMMY SECTION-PAGE CONTROL AREA @ NO BASE REGISTER ESTABLISHED
(0)	BITSTRING	1	PGAEAUS2	KJ EXT ATTRS USED IN PAGE BIT SETTINGS ARE AS FOR TTPEAUS2
(1)	BITSTRING	1	PGAEAUSE	EXTENDED ATTRS USED IN PAGE BIT SETTINGS ARE AS FOR TTPEAUSE
(2)	BITSTRING	1	PGAFLAG	PAGE CONTROL FLAG @
	1... ..		PGAERASE	"X'80" ...ERASE WITH WRITE @
	.1.. ..		GAOBFYS	"X'40" ...OBF USED IN THIS PAGE
	.1.. ..		GAFF	"X'40" ...FORM FEED ON THIS PAGE
	..1. ....		PGAML1	"X'20" ...ML1 FORMATTED THIS PAGE
	.... .1..		PGA16BIT	"X'04" ...14- OR 16-BIT SBAS
	.... .1..		GAWSFYS	"X'02" ...WSF NEEDED FOR THIS PAGE
	.... ...1		GAFMHYS	"X'01" ...FMH PRESENT IN THIS PAGE
(3)	BITSTRING	1	GAWCC	3270 WRITE CONTROL CHARACTER @
	.... .1..		GAEND	"*" END OF PAGE CONTROL AREA @
	.... .1..		GALEN	"PGAEND-DFHPGADS" LENGTH OF DSECT @

## PGACC Program manager autoinstall commarea

CONTROL BLOCK NAME = DFHPGACC  
 DESCRIPTIVE NAME = CICS/ESA (PG) Program Manager Autoinstall  
 exit program parameter list

FUNCTION = Defines the commarea passed by the Program Manager  
 autoinstall function to the autoinstall exit program.  
 The PGAC control block belongs to the Program Manager (PG)  
 domain. The control block is used to pass the name of the  
 program and the module type to the exit program and enables  
 the user to return information for the program to be  
 autoinstalled. Storage for the control block is obtained  
 by the autoinstall function (DFHPGAI).

LIFETIME =  
 The control block is created when the autoinstall function  
 (DFHPGAI) is called. The storage is released on return  
 from the autoinstall function.

STORAGE CLASS =  
 The control block uses the automatic storage for DFHPGAI.  
 This storage is above the line.

LOCATION =  
 In the automatic storage for DFHPGAI at the label PGAC.  
 The address and length of the control block are passed  
 to the program autoinstall exit program via the commarea.

NOTES :  
 This control block is provided as a sample and is not to be  
 used as a general programming interface. Refer to the  
 CICS/ESA Customisation Guide to determine its intended  
 usage.  
 Matching COBOL control block is DFHPGACC  
 Matching C control block is DFHPGACH  
 The control block includes the following fields:  
 Input fields:  
 PGAC\_PROGRAM - name of program to be autoinstalled  
 PGAC\_MODULE\_TYPE - program, mapset or partitionset  
 Output fields:  
 PGAC\_MODEL\_NAME - autoinstall model program name  
 PGAC\_LANGUAGE - assembler, cobol, C370, LE370, PL/I  
 PGAC\_CEDF\_STATUS - cedf status, yes or no  
 PGAC\_DATA\_LOCATION - data location, below or any  
 PGAC\_EXECUTION\_KEY - execution key, CICS or user  
 PGAC\_LOAD\_ATTRIBUTE - reload, transient, resident, reusable  
 PGAC\_USE\_LPA\_COPY - use LPA copy, yes or no  
 PGAC\_EXECUTION\_SET - use DPL subset or full API  
 PGAC\_REMOTE\_SYSID - remote system ID  
 PGAC\_REMOTE\_PROGID - remote program name  
 PGAC\_REMOTE\_TRANSID - remote transaction ID  
 PGAC\_DYNAMIC\_STATUS - DPL dynamic or not dynamic  
 PGAC\_CONCURRENCY - QUASIRENT or THREADSAFE  
 PGAC\_JVM - the program is to be run under the JVM  
 PGAC\_JVM\_DEBUG - JVM debug active for this program  
 PGAC\_JVM\_CLASS\_LENGTH - length of JVM class name data  
 PGAC\_JVM\_CLASS\_DATA - the JVM class name data  
 PGAC\_RETURN\_CODE - OK, or don't define the program  
 The return fields are initialized to blank on entry to the  
 autoinstall exit program.

DEPENDENCIES = S/390  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = No fields in the operating system data areas  
 are referenced.  
 CONTROL BLOCKS = No reference to other control blocks.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	303	PGAC	
(0)	CHARACTER	8	PGAC_PROGRAM	
(8)	CHARACTER	1	PGAC_MODULE_TYPE	
(9)	CHARACTER	294	PGAC_RETURN_	
			INFORMATION	
(9)	CHARACTER	8	PGAC_MODEL_NAME	
(11)	CHARACTER	1	PGAC_LANGUAGE	
(12)	CHARACTER	1	PGAC_CEDF_STATUS	
(13)	CHARACTER	1	PGAC_DATA_LOCATION	
(14)	CHARACTER	1	PGAC_EXECUTION_KEY	
(15)	CHARACTER	1	PGAC_LOAD_ATTRIBUTE	
(16)	CHARACTER	1	PGAC_USE_LPA_COPY	
(17)	CHARACTER	1	PGAC_EXECUTION_SET	
(18)	CHARACTER	4	PGAC_REMOTE_SYSID	
(1C)	CHARACTER	8	PGAC_REMOTE_PROGID	
(24)	CHARACTER	4	PGAC_REMOTE_TRANSID	

Offset Hex	Type	Len	Name (Dim)	Description
(28)	CHARACTER	1	PGAC_RETURN_CODE	
(29)	CHARACTER	1	PGAC_DYNAMIC_STATUS	
(2A)	CHARACTER	1	PGAC_CONCURRENCY	
(2B)	CHARACTER	1	PGAC_JVM	
(2C)	HALFWORD	2	PGAC_JVM_CLASS_LEN	
(2E)	CHARACTER	256	PGAC_JVM_CLASS_DATA	
(12E)	CHARACTER	1	PGAC_JVM_DEBUG	

## Constants

Len	Type	Value	Name	Description
1	CHARACTER	1	PGAC_TYPE_PROGRAM	
1	CHARACTER	2	PGAC_TYPE_MAPSET	
1	CHARACTER	3	PGAC_TYPE_PARTITIONSET	
Constants for language.				
1	CHARACTER	1	PGAC_ASSEMBLER	
1	CHARACTER	2	PGAC_COBOL	
1	CHARACTER	3	PGAC_PLI	
1	CHARACTER	4	PGAC_C370	
1	CHARACTER	5	PGAC_LE370	
Constants for CEDF status.				
1	CHARACTER	1	PGAC_CEDF_YES	
1	CHARACTER	2	PGAC_CEDF_NO	
Constants for data location.				
1	CHARACTER	1	PGAC_LOCATION_BELOW	
1	CHARACTER	2	PGAC_LOCATION_ANY	
Constants for execution key.				
1	CHARACTER	1	PGAC_CICS_KEY	
1	CHARACTER	2	PGAC_USER_KEY	
Constants for load attribute.				
1	CHARACTER	1	PGAC_RELOAD	
1	CHARACTER	2	PGAC_RESIDENT	
1	CHARACTER	3	PGAC_TRANSIENT	
1	CHARACTER	4	PGAC_REUSABLE	
Constants for LPA status.				
1	CHARACTER	1	PGAC_LPA_YES	
1	CHARACTER	2	PGAC_LPA_NO	
Constants for execution set.				
1	CHARACTER	1	PGAC_DPLSUBSET	
1	CHARACTER	2	PGAC_FULLAPI	
Constants for DYNAMIC status.				
1	CHARACTER	1	PGAC_DYNAMIC_YES	
1	CHARACTER	2	PGAC_DYNAMIC_NO	
Constants for CONCURRENCY				
1	CHARACTER	1	PGAC_QUASIRENT	
1	CHARACTER	2	PGAC_THREADSAFE	
Constants for JVM				
1	CHARACTER	1	PGAC_JVM_YES	
1	CHARACTER	2	PGAC_JVM_NO	
Constants for JVM DEBUG				
1	CHARACTER	1	PGAC_JVM_DEBUG_YES	
1	CHARACTER	2	PGAC_JVM_DEBUG_NO	
Constants for the return code.				
1	CHARACTER	1	PGAC_RETURN_OK	
1	CHARACTER	2	PGAC_RETURN_DONT_DEFINE_PROGRAM	



## PGGPC Program manager statistics

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	20	DFHPPGSPS	pg global stats
(0)	HALFWORD	2	PGG_STATS_LENGTH	length of record
(2)	HALFWORD	2	PGG_STATS_ID	pg global stats id, should contain pgg_dcl_id
(4)	UNSIGNED	1	PGG_STATS_VERSION	pg global stats version
(5)	UNSIGNED	3	*	filler
(8)	FULLWORD	4	PGG_AUTO_ATTEMPTS	number of autoinstalls attempted
(C)	FULLWORD	4	PGG_AUTO_REJECTS	number of autoinstalls rejected
(10)	FULLWORD	4	PGG_AUTO_FAILURES	number of autoinstalls failed

## Constants

Len	Type	Value	Name	Description
1	HEX	01	PGG_DCL_VERSION	version number
2	DECIMAL	23	PGG_DCL_ID	PG global id statistics id

## PLT Program list table entry

CONTROL BLOCK NAME = DFHPLTDS  
 DESCRIPTIVE NAME = CICS Program List Table Entry  
 FUNCTION =  
     Defines an entry in a PLT, a list of programs to be  
     invoked.  
 NOTES :  
     DEPENDENCIES = S/370  
     RESTRICTIONS = None  
     MODULE TYPE = Control block definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHPLTDS	DUMMY SECTION - PGM LIST TABLE
(0)	CHARACTER	8	PLTPID	PROGRAM IDENTIFICATION
	.... 1...		PLTEL	"(*-PLTPID)" PGM LST TABLE ENTRY LENGTH

## PSD Partition set definition block

MODULE NAME = DFHPSDDS  
 DESCRIPTIVE NAME = CICS PARTITION SET DEFINITION DSECT  
 DUAL LANGUAGE DSECT  
 FUNCTION = DEFINES THE PARTITION SET OBJECT. THIS IS BUILT BY THE MACROS DFHPSD AND DFHPDI. IT IS SUFFIXED AND STORED IN THE CICS/VS PROGRAM LIBRARY WITH A PPT ENTRY. IT IS LOADED INTO MAIN MEMORY BY DFHMCP

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = NONE  
 MODULE TYPE = STRUCTURE  
 EXTERNAL REFERENCES = NONE  
 CONTROL BLOCKS = NOT APPLICABLE  
 TABLES = NOT APPLICABLE  
 MACROS = NONE

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	30	DFHPSDDS	DUMMY SECTION - PARTITION SET DESCRIPTION
(0)	CHARACTER		PSDSTART	START OF DEFINITION
Partition Set Header Description				
(0)	HALFWORD	2	PSDPSETL	PARTITION SET LENGTH
(2)	CHARACTER	2	*	BLANK SO PARTITION SET IS CORRECT FORMAT FOR OUTPUT TO CICS TEMP STORAGE
(4)	HALFWORD	2	PSDPSL	PARTITION SET HEADER LENGTH OF PARTITION SET HEADER
(6)	CHARACTER	8	PSDSLFD	STRING "DFHPSD" IDENTIFIES OBJECT AS A PARTITION SET
(E)	CHARACTER	7	PSDPSNME	PARTITION SET NAME
(15)	CHARACTER	1	PSDPSSF	PARTITION SET SUFFIX, USED FOR PARTITION SET SELECTION BLANK IF NOT SUFFIXED
(16)	HALFWORD	2	PSDPNUM	NUMBER OF PARTITIONS IN THIS PARTITION SET
(18)	HALFWORD	2	PSDUACOL	ALTSCRN COLUMNS
(1A)	HALFWORD	2	PSDUALNE	ALTSCRN LINES
(1C)	CHARACTER	1	PSDCICSV	CICS/VS VERSION ON WHICH THE PARTITION SET WAS ASSEMBLED
(1D)	BITSTRING	1	PSDPSFLG	FLAG BYTE
	1... ..		PSDPSERR	THIS PARTITION SET CONTAINS A CICS/VS ERROR MESSAGE PARTITION

PARTITION DESCRIPTION  
 TWO RECORD FOR EACH PARTITION IN THIS PARTITION SET  
 THE FIRST RECORD CONTAINS CICS/VS SPECIFIC DATA. THE SECOND RECORD IS A COPY OF THE CREATE PARTITION STRUCTURED FIELD

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	6	PSDPCICS	
CICS SPECIFIC PARTITION DATA				
(0)	HALFWORD	2	PSDCICSL	LENGTH OF CICS/VS DATA
(2)	CHARACTER	2	PSDCINME	THE PARTITION NAME
(4)	BITSTRING	1	PSDCIFLG	PARTITION FLAGS 1
	1... ..		PSDCIERR	THIS IS A CICS/VS ERROR MESSAGE PARTITION
(5)	CHARACTER	1	PSDMPSTX	BMS MAPSET SUFFIX

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	30	PSDPCRT	
COPY OF THE ARCHITECTED CREATE PARTITION STRUCTURED FIELD THIS CAN BE SENT UNCHANGED TO THE TERMINAL				
(0)	HALFWORD	2	PSDPL	LENGTH OF CREATE PARTITION STRUCTURED FIELD
(2)	CHARACTER	1	PSDPTYPE	STRUCTURED FIELD TYPE
(3)	CHARACTER	1	PSDPID	HARDWARE PARTITION-ID
(4)	BITSTRING	1	PSDPAM	FLAG BYTE INDICATING UNIT OF MEASURE AND ADDRESS MODE
	1... ..		*	
	.1.. ..		*	
	..1. ....		*	
	...1 ....		PSDUMPEL	UNIT OF MEASURE IS PELS
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
	.... ...1		PSDAM16	ADDRESS MODE IS 16 BIT
(5)	BITSTRING	1	PSDPFLG	FLAG BYTE
	1... ..		*	

Offset Hex	Type	Len	Name (Dim)	Description
	.1.. ....		PSDPPROT	PARTITION IS PROTECTED
(6)	CHARACTER	2	PSDPBUFH	HEIGHT OF THE PARTITION BUFFER
(8)	CHARACTER	2	PSDPBUFV	WIDTH OF THE PARTITION BUFFER
(A)	CHARACTER	2	PSDVIEWR	ROW ORIGIN OF THE PARTITION VIEWPORT
(C)	CHARACTER	2	PSDVIEWC	COLUMN ORIGIN OF THEPARTITION VIEWPORT
(E)	CHARACTER	2	PSDVIEWH	VIEWPORT HEIGHT
(10)	CHARACTER	2	PSDVIEWW	VIEWPORT WIDTH
(12)	CHARACTER	2	PSDWNDR	INITIAL WINDOW POSITION ROW
(14)	CHARACTER	2	PSDWNDC	INITIAL WINDOW POSITION COL
(16)	CHARACTER	2	PSDSCRR	VERTICAL SCROLL AMOUNT
(18)	CHARACTER	2	PSDSCRC	HORIZONTAL SCROLL AMOUNT
(1A)	CHARACTER	2	PSDCELLW	CHARACTER CELL PEL WIDTH
(1C)	CHARACTER	2	PSDCELLH	CHARACTER CELL PEL HEIGHT

## Constants

Len	Type	Value	Name	Description
1	HEX	07	PSDC160	CICS/VS 160
1	HEX	0C	PSDPCR	CREATE PARTITION TYPE CODE
1	HEX	00	PSDUMCHR	UNIT OF MEASURE IS CHARS
1	HEX	00	PSDAM12	ADDRESS MODE IS 12/14 BIT

## PSG System spooling interface

CONTROL BLOCK NAME = DFHPSGSPS DESCRIPTIVE NAME = CICS System Spooling Interface Global Control Block. FUNCTION = DFHPSGSPS (PSG) is the master control block for the System Spooling Interface facility. Description PSG - This Block contains the central control information through which the System Spooling Interface works. It is anchored from CSAPSCBA in the CSA Optional Features List. LIFETIME = If SPOOL=YES is specified at CICS Initialization, then control will be passed to DFHPSIP from DFHSIJ1. PSIP will construct and initialize DFHPSGSPS, which will remain in existence all the time that CICS is running. STORAGE CLASS = shared LOCATION = Chained off CSA optional features list by CSAPSCBA INNER CONTROL BLOCKS = NONE NOTES : DEPENDENCIES = S/370 RESTRICTIONS = NONE MODULE TYPE = PLS copy-book EXTERNAL REFERENCES = none DATA AREAS = none CONTROL BLOCKS = none GLOBAL VARIABLES (Macro pass) = none getmaind by JES as commarea
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Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	208	DFHPSGSPS	
(0)	CHARACTER	4	*	Storage accounting area
(4)	CHARACTER	8	PSGID	Control block ID - DFHPSGSPS. The following VSAM info. is used by DFHPSIP & DFHPSPSS:
(C)	HALFWORD	2	PSGACBL	Length of VSAM ACB
(E)	HALFWORD	2	PSGRPLL	Length of VSAM RPL
(10)	HALFWORD	2	PSGEXLL	Length of VSAM EXIT LIST
(12)	HALFWORD	2	*	Reserved
(14)	FULLWORD	4	PSGOPNCT	Count of JES files OPEN-ed
(18)	FULLWORD	4	PSGCLSCT	Count of JES files CLOSE-ed
(1C)	ADDRESS	4	*	Reserved
(20)	ADDRESS	4	*	Reserved
(24)	FULLWORD	4	PSGNXTK	Next Report Token
(28)	CHARACTER	4	PSGJTFL	Job transfer flags
(28)	CHARACTER	1	PSGTHRD	In-Use flag for SGL thread
(29)	CHARACTER	3	*	Reserved
(2C)	CHARACTER	4	*	
(2C)	BITSTRING	1	PSGFE	Extra service facilities

Offset Hex	Type	Len	Name (Dim)	Description
	1... ..		PSGFETR	Additional trace required
	.111 111.		*	Reserved
	.... ..1		PSGFECB	Enable FE Chain checking
(2D)	CHARACTER	3	*	Reserved
(30)	ADDRESS	4	PSGCRB	Reserved
(34)	ADDRESS	4	PSGCSAA	CSA address save area
(38)	HALFWORD	2	PSGOSLC	Operating system lines per page
(3A)	CHARACTER	8	PSGFLGS	CICS Sub-system Interface control status flags
(3A)	CHARACTER	1	PSGIACT	CICS SSI is active/enabled
(3B)	CHARACTER	1	PSGIENA	CICS SSI is being enabled
(3C)	CHARACTER	1	PSGIDIS	CICS SSI is being disabled
(3D)	CHARACTER	1	PSGITRM	CICS SSI is being terminated
(3E)	CHARACTER	1	PSGIDIP	Reserved
(3F)	CHARACTER	1	PSGIDPP	Reserved
(40)	CHARACTER	1	PSGCLAS	Reserved
(41)	CHARACTER	1	PSGYSYSID	Reserved
(42)	CHARACTER	2	*	Reserved
(44)	ADDRESS	4	PSGRRB	Reserved
(48)	ADDRESS	4	PSGTRB	Reserved
(4C)	ADDRESS	4	PSGWRB	Reserved
(50)	ADDRESS	4	*	Reserved
(54)	ADDRESS	4	*	Reserved
(58)	ADDRESS	4	*	Reserved
(5C)	CHARACTER	47	PSGSTAT	CICS SSI statistics area
(5C)	CHARACTER	3	PSGSCR3	Reserved
(5F)	CHARACTER	3	PSGSCRR	Reserved
(62)	CHARACTER	3	PSGSCRC	Reserved
(65)	CHARACTER	4	PSGSOR	Reserved
(69)	CHARACTER	3	PSGSERS	Reserved
(6C)	CHARACTER	3	PSGSERC	Reserved
(6F)	CHARACTER	3	PSGSLR	Reserved
(72)	CHARACTER	3	PSGSP1	Reserved
(75)	CHARACTER	3	PSGSTD	Reserved
(78)	CHARACTER	3	PSGSER	Reserved
(7B)	CHARACTER	4	PSGDDAT	Date SSI last ended
(7F)	CHARACTER	4	PSGDTIM	Time SSI last ended
(83)	CHARACTER	4	PSGEDAT	Date SSI last started
(87)	CHARACTER	4	PSGETIM	Time SSI last started
(8B)	CHARACTER	10	PSGIDENT	Reserved
(8B)	CHARACTER	8	PSGXIDK	Reserved
(93)	CHARACTER	2	PSGITID	Reserved
(95)	BITSTRING	1	PSGNFYE	Reserved
(96)	CHARACTER	3	*	Reserved
(9C)	ADDRESS	4	PSGCXPB	CXPB TCA address
(A0)	CHARACTER	44	PSGIDSN	Input DSNNAME
(CC)	ADDRESS	4	*	Reserved

### Constants

Len	Type	Value	Name	Description
1	HEX	FF	PSGON	Flag is on.
1	HEX	00	PSGOFF	Flag is off.

## PSP Printer spooling subsystem

MODULE NAME = DFHPSPPS  
 DESCRIPTIVE NAME = CICS Printer Spooling Subsystem  
 Function =  
     DFHPSPPS is the parameter area map for the interface  
     to DFHPSP etc.  
 Dependencies = S/370  
 Restrictions = none  
 Register conventions = N/A  
 Patch label = N/A  
 Module type = PLS copy-book  
 Attributes = N/A  
 Entry point = N/A

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	120	DFHPSPPS	DFHPS Macro Parameter Area.
(0)	UNSIGNED	1	PSPREQ	Request Code.
(1)	BITSTRING	1	PSPQUAL	Reserved
	1... ..		PSPQNTFY	Reserved
	.1. ....		PSPQANY	Reserved
	..1. ....		PSPQCMD	Reserved
	...1 1111		*	Reserved
(2)	BITSTRING	1	PSPOPT1	Option 1 indicators.
	1... ..		PSPWCHCK	Reserved
	.1. ....		PSPRGIN	Reserved
	..1. ....		PSPRSEP	Reserved
	...1 ....		PSPRNSEP	Reserved
	.... 1...		PSPRNCV	Reserved
	.... .1..		PSPRFAIL	Reserved
	.... ..1.		PSPRCONT	Reserved
	.... ...1		PSPRRESM	Reserved
(3)	BITSTRING	1	PSPOPT2	Option 2 Indicators.
	1... ..		PSPRHDN	Reserved
	.1. ....		PSPRFTN	Reserved
	..1. ....		PSPRNONM	Reserved
	...1 ....		PSPRDTTM	Reserved
	.... 1...		PSPRPHYS	Reserved
	.... .1..		PSPRLOGL	Reserved
	.... ..1.		PSPROUT	OPEN/CLOSE for Output.
	.... ...1		PSPRINP	OPEN/CLOSE for Input.
(4)	BITSTRING	1	PSPOPT3	Option 3 Indicators.
	1... ..		PSPBASE	Base call
	.1. ....		PSPREST	Reserved
	..1. ....		PSPMAPO	Reserved
	...1 ....		PSPDWE	Reserved
	.... 1...		PSPHLPI	Reserved
	.... ..1.		PSPYMES	Reserved
	.... ...1		PSPNMES	Reserved
	.... ...1		*	Reserved
(5)	BITSTRING	1	PSPOPT4	Option 4 Indicators.
	1... ..		PSPRSCS	Reserved
	.1. ....		PSPRBMS	Reserved
	..1. ....		PSPR327	Reserved
	...1 ....		PSPRAPA	CPDS Data Stream
	.... 1...		PSPRESC	Reserved
	.... ..1.		PSPRASA	ASA Format
	.... ...1		PSPRMCC	Machine Format
	.... ...1		PSPRNCC	No CC Format
(6)	BITSTRING	1	PSPOPT5	Option 5 Indicators.
(6)	BITSTRING	1	*	Reserved
(7)	BITSTRING	1	PSPQUE	Reserved
	1... ..		PSPQLST	Reserved
	.1. ....		PSPQRDR	Reserved
	..1. ....		PSPQPUN	Reserved
	...1 ....		PSPQXMIT	Reserved
	.... 1...		PSPQPRTR	Reserved
	.... .111		*	Reserved
(8)	BITSTRING	1	PSPCBOPT	Reserved
(9)	BITSTRING	1	PSPDISPS	Reserved
	1... ..		PSPDHOLD	Reserved
	.1. ....		PSPDACT	Reserved
	..1. ....		PSPDRDY	Reserved
	...1 ....		PSPDERR	Reserved
	.... 1...		PSPDRES	Reserved
	.... ..1.		PSPDKEP	Reserved
	.... ...1		PSPDLVE	Reserved
	.... ...1		PSPDERRP	Reserved
(A)	UNSIGNED	1	PSPCOPY	Reserved
(B)	UNSIGNED	1	PSPPRI	Reserved
(C)	UNSIGNED	1	*	Reserved

Offset Hex	Type	Len	Name (Dim)	Description
(D)	UNSIGNED	1	PSPPGSZ	Reserved
(E)	CHARACTER	1	PSPCLASS	CLASS Character.
(F)	UNSIGNED	1	*	Reserved
(10)	BITSTRING	1	PSPDISP	DISPOSITION to be set.
(11)	CHARACTER	1	PSPNCLSS	Reserved
(12)	UNSIGNED	2	PSPNLNG	Reserved
(14)	ADDRESS	4	PSPFORMS	Reserved
(18)	ADDRESS	4	PSPMPST	Reserved
(1C)	ADDRESS	4	PSPTOKEN	Pointer to token value.
(20)	ADDRESS	4	PSPREPNM	Reserved
(24)	ADDRESS	4	PSPDATA	Pointer to Data Area
(28)	ADDRESS	4	PSPLENG	Length WRITE/READ
(2C)	ADDRESS	4	PSPMLNG	Max Length READ or OPEN Recordlength
(30)	ADDRESS	4	PSPMAP	Reserved
(34)	ADDRESS	4	PSPUSRID	Pointer to User Id.
(38)	ADDRESS	4	PSPESCP	Reserved
(3C)	ADDRESS	4	PSPNODE	Pointer to Node Name.
(40)	ADDRESS	4	PSPFDATE	Reserved
(44)	FULLWORD	4	PSPREPLN	Reserved
(48)	ADDRESS	4	PSPREPBF	Reserved
(4C)	ADDRESS	4	PSPUSDTA	Reserved
(50)	FULLWORD	4	PSPREC#	Reserved
(54)	UNSIGNED	1	PSPPDISP	Reserved
	1... ..		PSPPPRNT	Reserved
	.1. ....		PSPPSTOP	Reserved
	.1. ....		PSPPWAIT	Reserved
	...1 ....		PSPPIUSE	Reserved
	.... 1...		PSPPALN	Reserved
	.... .1..		PSPPOOS	Reserved
	.... .1..		PSPPPAUD	Reserved
	.... ...1		*	Reserved
(55)	UNSIGNED	1	PSPPACT1	Reserved
	1... ....		PSPPSRT	Reserved
	.1. ....		PSPPSTPC	Reserved
	.1. ....		PSPPSTPN	Reserved
	...1 ....		PSPPALGN	Reserved
	.... 1...		PSPPAUS	Reserved
	.... .1..		PSPRESM	Reserved
	.... ...1		PSPSTPR	Reserved
	.... ...1		PSPPCONF	Reserved
(56)	UNSIGNED	1	PSPPACT2	Reserved
	1... ....		PSPPSETU	Reserved
	.1. ....		PSPPDISC	Reserved
	..11 1...		*	Reserved
	.... .1..		PSPPINQ	Reserved
	.... ..11		*	Reserved
(57)	UNSIGNED	1	*	Reserved
(58)	ADDRESS	4	PSPPRNM	Reserved
(5C)	ADDRESS	4	PSPTITLE	Reserved
(60)	ADDRESS	4	PSPHEAD	Reserved
(64)	ADDRESS	4	PSPFOOT	Reserved
(68)	ADDRESS	4	PSPSTPG	Reserved
(6C)	ADDRESS	4	PSPEDPG	Reserved
(70)	ADDRESS	4	PSPALPG	Reserved
(74)	ADDRESS	4	PSPOTDES	Ptr. to OUTDES LIST

## Constants

Len	Type	Value	Name	Description
1	DECIMAL	1	PSPTALT	Reserved
1	DECIMAL	2	PSPTBLD	Reserved
1	DECIMAL	3	PSPTCLSE	CLOSE
1	DECIMAL	4	PSPTDLTE	Reserved
1	DECIMAL	5	PSPTDISL	DISABLE
1	DECIMAL	6	PSPTENBL	ENABLE
1	DECIMAL	7	PSPTENBR	Reserved
1	DECIMAL	8	PSPTGNXT	Reserved
1	DECIMAL	9	PSPTINIT	Reserved
1	DECIMAL	10	PSPTLOC	Reserved
1	DECIMAL	11	PSPTOPN	OPEN
1	DECIMAL	12	PSPTPNT	Reserved
1	DECIMAL	13	PSPTPRT	Reserved
1	DECIMAL	14	PSPTREAD	READ
1	DECIMAL	15	PSPTREM	Reserved
1	DECIMAL	16	PSPTRETV	Reserved
1	DECIMAL	17	PSPTSTBR	Reserved
1	DECIMAL	18	PSPTTERM	TERMINATE
1	DECIMAL	19	PSPTWTIN	Reserved
1	DECIMAL	20	PSPTWRT	WRITE
1	DECIMAL	21	PSPTTRAN	Reserved
1	HEX	E2	PSPSRES	KEEP
1	HEX	C4	PSPSDEL	DELETE
2	DECIMAL	120	PSPLNG	

## RCS Recovery control static storage

CONTROL BLOCK NAME = DFHRCSPS  
 DESCRIPTIVE NAME = CICS RECOVERY CONTROL STATIC STORAGE  
 FUNCTION =  
     Static storage used by recovery control component for  
     ECBS AND ANCHORS FOR THREAD MANAGEMENT.  
     There is a single instance of this control block in a CICS  
     system.  
     It is allocated and initialized to hex zeroes in DFHSIB1.  
     It has the lifetime of the CICS system.  
 LIFETIME =  
     It is allocated and initialized to hex zeroes in DFHSIB1.  
     It has the lifetime of the CICS system.  
 STORAGE CLASS =  
     CICS static storage.  
 LOCATION =  
     Addresses from static storage address list.  
 INNER CONTROL BLOCKS =  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = None  
 CONTROL BLOCKS = None  
 GLOBAL VARIABLES (Macro pass) = None  
 RECOVERY CONTROL PROGRAM STATIC STORAGE

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	24	RCSTATIC	
(0)	CHARACTER	9	*	Reserved
(9)	BITSTRING	1	*	Reserved
	1... ..		*	Reserved
	.1.. ..		RCSCPPST	restart complete post bit
(A)	BITSTRING	1	*	Reserved
	1... ..		*	Reserved
	.1.. ..		RCS_STP_ END_EVENT	STP keypoint ended
(B)	BITSTRING	1	*	Reserved
	1... ..		*	Reserved
	.1.. ..		RCS_WARM_	
			KEYPOINT_EVENT	ready for keypoint
(C)	FULLWORD	4	RCS_RECORD_COUNT	User log record count
(10)	ADDRESS	4	RCS_AID_CHAIN	AID chain
(14)	CHARACTER	4	*	Reserved
(18)	CHARACTER		RCSTATLN	End

## RMG Recovery manager global statistics

CONTROL BLOCK NAME = DFHRMGDS  
 DESCRIPTIVE NAME = CICS Recovery Manager Statistics  
 FUNCTION =  
 This data area contains global statistics provided by the Recovery Manager Domain.  
 It is provided for use in users monitoring applications to map the statistics returned via the API, the statistics exit, or offline formatting products.  
 There is a single instance of this data block.  
 LIFETIME =  
 This data block is created by the Recovery Manager Domain to store statistics to be passed to the user in response to a request for statistics. The storage is released when the user task is detached.  
 STORAGE CLASS =  
 LOCATION =  
 The user is passed a pointer to the head of the storage block.  
 INNER CONTROL BLOCKS = none  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Domain call buffer  
 EXTERNAL REFERENCES = none  
 DATA AREAS = none  
 CONTROL BLOCKS = from recovery manager domain  
 GLOBAL VARIABLES (Macro pass) = none  
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHRMGDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHRMGDS	Recovery Manager Global statistics
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	RMGLEN	Length of data area
	.11. ..11		RMGIDE	"0099" Recovery Manager statistics id mask
(2)	ADDRESS	2	RMGID	Recovery Manager statistics id
	.... ...1		RMGVERS	"X'01" Stats version number id mask
(4)	CHARACTER	1	RMGDVERS	Stats version number
(5)	CHARACTER	3		Filler
(8)	FULLWORD	4	RMGSYFWD	Total syncpoints forward
(C)	FULLWORD	4	RMGSYBWD	Total syncpoints backward
(10)	FULLWORD	4	RMGRESYN	Total resynchronisations
(14)	FULLWORD	4	RMGTSHIN	Total shunted uows for indoubt
(18)	CHARACTER	8	RMGTSHTI	Total time shunted for indoubt (STCK)
(20)	FULLWORD	4	RMGCSHIN	Current uows shunted for indoubt
(24)	CHARACTER	8	RMGCSHTI	Current time shunted indoubt (STCK)
(2C)	FULLWORD	4	RMGTSHRO	Total ows shunted for RO commit fail
(30)	CHARACTER	8	RMGTSHTR	Total time shunted for RO fail (STCK)
(38)	FULLWORD	4	RMGCSHRO	Current ows shunts RO commit fail
(3C)	CHARACTER	8	RMGCSHTR	Current time shunted RO fail (STCK)

The following fields show a breakdown of the possible integrity exposures due to forced termination of indoubt waits.

(44)	FULLWORD	4	RMGIAFTR	Total forced Indoubt Actions-trandef
(48)	FULLWORD	4	RMGIAFTI	Total forced Indoubt Actions-timeout
(4C)	FULLWORD	4	RMGIAFNW	Total forced Indoubt Actions-nowait
(50)	FULLWORD	4	RMGIAFOP	Total forced Indoubt Actions-operator
(54)	FULLWORD	4	RMGIAFOT	Total forced Indoubt Actions-other
(58)	FULLWORD	4	RMGIAMIS	Total Indoubt Action mismatches

The following fields show a breakdown of the possible integrity exposures due to forced termination of indoubt waits as a result of a communicating system/resource manager or resource not being able to support indoubt waiting and is therefore a subset of RMGIAFNW.

(5C)	FULLWORD	4	RMGNWTD	Total forced for no waiting in TD
(60)	FULLWORD	4	RMGNW61	Total forced for no waiting in LU61
(64)	FULLWORD	4	RMGNWMRO	Total forced for no waiting in MRO
(68)	FULLWORD	4	RMGNWRMI	Total forced for no waiting in RMI
(6C)	FULLWORD	4	RMGNWOTH	Total forced for no waiting in other
	.111 ....		RMGEND	***



## RMUXC Recovery manager domain inline access

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	131	RMUX_INLINE_ ACCESS_STRUCTURE	
(0)	CHARACTER	8	RMUX_LOCAL_UOW_ID	
(8)	CHARACTER	27	RMUX_REMOTE_UOW_ID	
(8)	UNSIGNED	1	RMUX_REMOTE_ ID_LENGTH	
(9)	UNSIGNED	1	RMUX_REMOTE_ ID_LU_NAME_LENGTH	
(A)	CHARACTER	25	*	
(23)	BITSTRING	1	RMUX_FLAGS	
	1... ....		OPTIMAL_CLIENTS_ONLY	Only optimal clients are involved in this UOW.
(24)	ADDRESS	4	RMUX_WORK_ TOKEN_ARRAY (19)	
(70)	CHARACTER	19	RMUX_CLIENT_STATES	
(70)	BITSTRING	1	CLIENT_STATE (19)	
	1... ....		COMMIT_COMPLETE	has locally committed
	.111 1111		*	

### Constants

Len	Type	Value	Name	Description
1	DECIMAL	19	RMUX_MAX_RO	

## RPD DL/I general purpose macro

```
CONTROL BLOCK NAME = DFHRPD
DESCRIPTIVE NAME = CICS CICS DL/I General Purpose Macro
FUNCTION =
    Provide the remote PDIR entry.
NOTES :
DEPENDENCIES = S/390
RESTRICTIONS = NONE
MODULE TYPE = EXECUTABLE
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	28	DFHRPD	
(0)	HALFWORD	2	RPDLTH	Length of RPDIR Entry
(0)	CHARACTER	1	RPDIREND	Stop Byte (FF after last entry)
(2)	CHARACTER	1	RPDFLG1	Flag Byte 1
(3)	CHARACTER	1	RPDFLG2	Flag Byte 2
(4)	CHARACTER	8	RPDNAME	PSB name on this system
(C)	CHARACTER	8	RPDRNAME	PSB name on remote system
(14)	CHARACTER	4	RPDRSYS	Remote system name
(18)	FULLWORD	4	RPDMXSSA	Max SSA Size

## RSB DL/I general purpose macro

MACRO NAME = DFHDLP  
 DESCRIPTIVE NAME = CICS DL/I General Purpose Macro  
 FUNCTION =  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = NONE  
 PATCH LABEL = NONE  
 MODULE TYPE = EXECUTABLE  
 REMOTE SCHEDULING BLOCK

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHRSBDS	
(0)	FULLWORD	4		STORAGE ACCOUNTING
(4)	FULLWORD	4		STORAGE ACCOUNTING
	.... 1...		RSBSTART	"*" START OF RSB
(8)	ADDRESS	4	RSBPDIR	A(REMOTE PDIR ENTRY)
(C)	CHARACTER	4	RSBSYSID	REMOTE SYSTEM ID

PLIST FOR IS CONVERSE

(10)	FULLWORD	4	RSBISPL (0)	
(10)	CHARACTER	1	(0)	REQUEST TYPE
(10)	CHARACTER	1		RETURN CODE
(11)	CHARACTER	1		MODIFIER, REQUEST INDEPENDENT
(12)	CHARACTER	1		MODIFIER, REQUEST DEPENDENT
(13)	CHARACTER	1		RESERVED
(14)	FULLWORD	4		TCTTE ADDRESS
(18)	FULLWORD	4	(0)	XFR ADDRESS
(18)	CHARACTER	4		TRANSACTION ID
(1C)	CHARACTER	4		REMOTE SYSTEM ID
(20)	CHARACTER	8		TRANSACTION ROUTING PROFILE
(28)	HALFWORD	2		Number of send sessions
(2A)	HALFWORD	2		Number of receive sessions
(2C)	CHARACTER	8		Connectee NETNAME
(34)	CHARACTER	8		Security name
(3C)	FULLWORD	4		Address of LCL entry
(40)	FULLWORD	4		Address of CRB

TRANSFORMER'S (DFHXFP'S) INTERFACE BLOCK

CONTROL BLOCK NAME = DFHXFRDS  
 DESCRIPTIVE NAME = CICS Function Request Shipping Request  
 Control Block.

MACROS = DFHXFSTG  
 FUNCTION =  
 Defines the data transformation (XF) control block  
 as used in batch and online environments.

(48)	DBL WORD	8	XFRSTART (0)	XF control block - start
------	----------	---	--------------	--------------------------

FIELDS IN THE XF CONTROL BLOCK THAT ARE UNIQUE  
 TO AN ONLINE ENVIRONMENT

SYSTEM/SESSION RELATED FIELDS

(48)	CHARACTER	4	XFRSYSNM	N(SYSID)
(4C)	ADDRESS	4	XFRATCSE	A(TCTSE)
(50)	ADDRESS	4	XFRATCTE	A(TCTTE) OR 0
(54)	ADDRESS	4	XFRATIOA	A(TIOA) OR 0
(58)	CHARACTER	4	XFRLUCCD	LU6.2 ERROR (SENSE) CODE
(5C)	CHARACTER	4	XFRSTRAN	Server transaction code
(60)	BITSTRING	1	XFRFLAGA	
	1... ..		XFRSERVR	"X'80" Server transaction supplied
	.1.. ..		XFRNORM	"X'40" Normal transformer to be used
	..1. ....		XFRSYNC	"X'20" SYNCONRETURN requested
	...1 ....		XFRNOATN	"X'10" CONVERSE with NOATNI required
	.... 1...		XFRLINK	"X'08" LINK request
	.... .1..		XFRRTDST	"X'04" Dynamically routed START request
(62)	HALFWORD	2	XFRRTRLN	Length of router commarea or 0
(64)	ADDRESS	4	XFRRTRAD	A(DFHDSRP) or 0
(68)	BITSTRING	1	(7)	reserved
(70)	FULLWORD	4	XFRFSPEC (0)	Origin for function specific storage

DL/I RELATED FIELDS

(70)	ADDRESS	4	XFRAUIB	A(UIB)
(74)	FULLWORD	4	XFRDLILN	Maximum length os SETS I/O area so far

FILE CONTROL RELATED FIELDS

MACRO NAME = DFHFCECT  
 DESCRIPTIVE NAME = CICS Transformer File Control Operation  
 Table Entry DSECT.

(78)	FULLWORD	4	XFRFCENT (0)	TEMP FC OP ENTRY FOR DFHXFX
(78)	ADDRESS	4		ADDRESS OF NEXT ENTRY

Offset Hex	Type	Len	Name (Dim)	Description
(7C)	CHARACTER	4		NAME OF SYSTEM OWNING FILE
(80)	CHARACTER	8		FILE NAME ON REMOTE SYSTEM
(88)	HALFWORD	2		REQID
(8A)	HALFWORD	2		KEYLENGTH
(8C)	ADDRESS	4		ADDR OF RIDFLD
(90)	ADDRESS	4		ADDR OF BUFFER FOR READ SET
(94)	HALFWORD	2		LGTH OF BUFFER FOR READ SET
(96)	CHARACTER	1		FIRST FLAG BYTE
(97)	CHARACTER	1		SECOND FLAG BYTE
(98)	FULLWORD	4	(0)	MAKE LENGTH MULTIPLE OF 4
This DSECT describes the entries required for remote program link				
(70)	FULLWORD	4	DFHPCENT (0)	PC LINK entries begin here
(70)	CHARACTER	8	XFRPNAME	name of program
(78)	HALFWORD	2	XFRCOMML	length of commarea
(7A)	HALFWORD	2	XFRDATAL	length of data to be sent
(7C)	CHARACTER	4	XFRABCD	Abend code returned from mirror
(80)	BITSTRING	1	XFRFLAG4	Flag byte
	1... ....		XFRHTRAN	"X'80" hex tranid present
	.1.. ....		XFRDATAV	"X'40" valid DATALENGTH supplied
FIELDS IN THE XF CONTROL BLOCK THAT ARE UNIQUE TO A BATCH ENVIRONMENT				
(48)	ADDRESS	4	XFRSTG1	ADDRESS OF STG CONTAINING THE FLATTENED PLIST. THE TRANSFORMER GETS NEW STG IF XFRSTG1 IS 0 OR REUSES THE CURRENT STG IF THIS PROVES LARGE ENOUGH
(4C)	ADDRESS	4	XFRSTG4	ADDRESS OF THE FLATTENED REPLY IN THE BUFFERS OF BATCH DL/I.
(50)	FULLWORD	4	XFRSTGL	LENGTH OF THE FLATTENED REPLY IN THE DL/I BUFFERS
FIELDS IN THE XF CONTROL BLOCK THAT ARE COMMON TO A BATCH AND ONLINE ENVIRONMENTS				
(98)	ADDRESS	4	XFRPLIST	ADDRESS OF PLIST PASSED TO TRANSFORMER OR ADDRESS OF PLIST CREATED BY TRANSFR
(9C)	ADDRESS	4	XFRATABN	A(1ST TABLE ENTRY) OR 0 - E.G. RPDIR OR DCTTE
(A0)	ADDRESS	4	XFRATAB2	A(2ND TABLE ENTRY) - E.G. PDIR OR 0
(A4)	CHARACTER	1	XFRFORMN	THE TRANSFORMER INDEX - WITH VALUES SET AS FOLLOWS
	.... ....		XFRTRAN1	"0" TRANSFORMER 1 - VERTICAL TO HORIZONTAL REQUESTS
	.... .1.		XFRTRAN2	"2" TRANSFORMER 2 - HORIZONTAL TO VERTICAL REQUESTS
	.... .1.		XFRTRAN3	"4" TRANSFORMER 3 - VERTICAL TO HORIZONTAL REPLIES
	.... .11.		XFRTRAN4	"6" TRANSFORMER 4 - HORIZONTAL TO VERTICAL REPLIES
(A5)	CHARACTER	2	XFRARCHD	USED TO SHOW CICS OR SNA ARCHITECTURE WHEN A CHOICE IS AVAILABLE
(A7)	CHARACTER	1	XFRGROUP	THE GROUP IDENTIFIER FOR THE CURRENT REQUEST
	.... .11.		XFRFCGRP	"X'06" - THE CICS FC GROUP
	.... 1..		XFRTDGRP	"X'08" - THE CICS TD GROUP
	.... 1.1.		XFRTSGRP	"X'0A" - THE CICS TS GROUP
	.... 1..		XFRICGRP	"X'10" - THE CICS IC GROUP
	.... .1.		XFRJCGRP	"X'14" - THE CICS JC GROUP
	.... .1.		XFRDLGRP	"X'40" - THE DL/I GROUP
(A8)	CHARACTER	1	XFRFUNCT	THE FUNCTION IDENTIFIER FOR THE CURRENT REQUEST
(A9)	CHARACTER	1	XFRFLAGS	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
	1... ....		XFREILST	"X'80" THE ARGUMENT LIST COMES FROM OR GOES TO EIP
	.1.. ....		XFRDLLST	"X'40" THE ARGUMENT LIST COMES FROM OR GOES TO DL/I
	.1. ....		XFRDLCNT	"X'20" FIRST ARGUMENT IS A COUNT OF THE REMAINING ARGUMENTS
	...1 ....		XFRDLPLI	"X'10" THE DL/I REQUEST COMES FROM PL/I - INDIRECTION EXISTS
	.... 1..		XFRATHDR	"X'08" AN ATTACH HEADER HAS BEEN PUT OUT BEFORE OTHER DATA
	.... .1.		XFRLNGRN	"X'04" THE MIRROR TASK NEEDS TO BE LONG RUNNING
	.... .1.		XFRNRPLY	"X'02" THE REQUEST IS TO BE SHIPPED; HOWEVER NO REPLY IS EXPECTED
	.... .1.		XFRPRCT	"X'01" THE REQUEST IS TO BE SHIPPED PROTECTED
(AA)	CHARACTER	1	XFRFLAG1	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
	1... ....		XFRCLCQ	"X'80" THE REQUEST MAY BE QUEUED BEFORE SHIPPING
	.1.. ....		XFRFCTK	"X'40" FC Token can be shipped
(AB)	CHARACTER	1	XFRFLAG2	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
	1... ....		XFRHAENT	"X'80" DFHMIRVM has handled an abend; the abend code is to be found in the TACB
	.1.. ....		XFRLENFD	"X'40" LENGTH parameter forced for a FILE READ request which didn't specify LENGTH parameter originally
(AC)	CHARACTER	1	XFRFLAG3	PARAMETER LIST FLAGS - WITH ALL VALUES RESERVED
(AD)	CHARACTER	2	XFRCODES (0)	FLAGS INDICATING WHERE CONTROL IS TO BE PASSED UPON RETURN FROM THE TRANSFORMER
(AD)	CHARACTER	1	XFRCODE1	THE FIRST SET OF FLAGS - THE NEXT DEFINITIONS APPLY TO RETURN FROM TRANSFORMERS 1 AND 4 WITH VALUES SET AS FOLLOWS
	.... .1.		XFR1TO4	"4" TRANSFORMER 1 HAS FOUND AN ERROR - CONTROL IS TO BE PASSED TO TRANSFORMER 4
	.... 1..		XFR1TOC	"8" TRANSFORMER 1 HAS FOUND ERROR - CONTROL IS TO BE PASSED BACK TO EIP OR DL/I
	.... .1.		XFR1XLNF	"2" XLN failure THE NEXT DEFINITIONS APPLY TO RETURN FROM ISP WITH VALUES SET AS FOLLOWS
	...1 111.		XFRLNKAP	"30" Allocate request in ISP has been purged
	...1 11.		XFRLNKAR	"28" Allocate request in ISP has been rejected
	...1 1.1.		XFRLNKNI	"26" no sessions immediately available for allocate request
	...1 1..		XFRLNKPF	"24" ALLOCATE IN ISP HAS FAILED BECAUSE PROFILE DFHCICSF IS MISSING
	...1 .11.		XFRLNKSV	"22" TRANSID invalid, we are already in session with a different mirror transaction.
	...1 .1.		XFRLNKGP	"20" ALLOCATE IN ISP HAS FAILED BECAUSE THE MODENAME IS INVALID
	...1 .1.		XFRLNKSP	"18" SYNCONRETURN invalid, we are already in session with a mirror
	...1 ....		XFRLNKLQ	"16" LOCAL QUEUEING HAS FAILED - BAD RETURN FROM DFHICP TYPE=PUT
	.... 111.		XFRLNKAB	"14" xform 4 has processed ABCODE data

Offset Hex	Type	Len	Name (Dim)	Description
	.... 11..		XFRLNKNA	"12" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK IS NOT IN THE INTERSYSTEM TABLE
	.... 1.1.		XFRLNKSF	"10" CONVERSE in DFHISP has failed
	.... 1...		XFRLNKSH	"8" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK, THOUGH EXISTING, IS OUT OF SERVICE
	.... .11.		XFRLNKNS	"6" Type of request is not supported over LU6.1 links
(AE)	CHARACTER	1	XFRLNKSY	"4" ALLOCATE IN ISP HAS FAILED BECAUSE NAME IS NOT THAT OF TCTSE
	.... .1..		XFRCODE2	THE SECOND SET OF FLAGS - APPLY TO RETURN FROM TRANSFORMERS 2 AND 3 WITH VALUES SET AS FOLLOWS
	.... .1..		XFR2TO3	"4" TRANSFORMER 2 HAS FOUND AN ERROR - CONTROL IS TO BE PASSED TO TRANSFORMER 3
	.... 1...		XFRNEGR	"8" TRANSFORMER 2 HAS FOUND AN ERROR - A NEGATIVE RESPONSE IS TO BE SENT
(AF)	CHARACTER	1	XFRABCDE	ABEND CODE INDICATOR PASSED BACK FROM THE TRANSFORMER TO THE BATCH CONTROLLER PROGRAM
(B0)	ADDRESS	4	XFRRESR9	resumption base for DL/I function shipping
(B4)	ADDRESS	4	XFRRESRE	resumption address for DL/I function shipping
(B8)	ADDRESS	4	XFRBEGOP	address of Arg0 options bytes
(BC)	FULLWORD	4	XFRARGS (0)	ORIGIN FOR ARGUMENTS
	.111 .1..		XFRLNGTH	**"-XFRSTART"

## TRANSFORMER'S RESOURCE TABLE

(C0)	DBL WORD	8	DRXSTRT (0)	START OF DFHDRX
(C0)	FULLWORD	4	DRXSSASZ	MAX SSA SIZE AS PERCEIVED BY THIS SYSTEM
(C4)	CHARACTER	8	DRXRPSB	NAME OF PSB TO BE USED ON REMOTE SYSTEM
(CC)	ADDRESS	4	DRXPCBAL	A(LOCAL PCB ADDRESS LIST) THIS FIELD IS SET BY XFR4 DURING SCHEDULE CALL AND IS USED DURING DB CALLS
(D0)	ADDRESS	4	DRXCHAIN	CHAIN OF STORAGE SEGMENTS OBTAINED BY TRANSFORMER 4
(D4)	ADDRESS	4	DRXIOAWK	A(READ SET BUFFER); BEFORE DRXBUFFAL SET ON CONTAINS LENGTH FOR BUFFER
(D8)	HALFWORD	2	DRXINDEX	THE PCB INDEX FOR THE CURRENT DATABASE CALL
(DA)	BITSTRING	1	DRXISC	ISC FLAGS
	1... ....		DRXPCBM	"X'80" PRESENT TO RETAIN SDB - DL/I SIMILARITY
	.1.. ....		DRXBUFFAL	"X'40" READ-SET BUFFER HAS BEEN ALLOCATED; THE ADDRESS IS IN DRXIOAWK
	.1.. ....		DRXCHKP	"X'20" PCB SCHED. ISSUED DURING CHKP CALL; XFR4 SHOULD USE STG FOR OLD PCBs AND LIST
(DB)	BITSTRING	1	DRXISCO	ISC OUTBOUND FLAGS
	1... ....		DRXSYNC	"X'80" PRESENT TO RETAIN SDB - DL/I SIMILARITY
	.1.. ....		DRXHLP1	"X'40" HLP1 COMMAND WITH SSA AND I/O LENGTHS GIVEN
(DC)	BITSTRING	1	DRXISCI	ISC INBOUND FLAGS
	1... ....		DRXFUNC	"X'80" FUNCTION STRING INVALID
	.1.. ....		DRXCALL	"X'40" USER CALL PARM LIST INVALID
	.1.. ....		DRXLNKNA	"X'20" LINK DOES NOT EXIST
	...1 ....		DRXLNKSH	"X'10" LINK IS OUT OF SERVICE
	.... 1...		DRXNOSTT	"X'08" PRESENT TO RETAIN SDB - DL/I SIMILARITY
(DD)	BITSTRING	1	DRXFCTR	RESPONSE BYTE FROM CICS SYSTEM CORRESP TO TCAFCTR (SET BY XFR4)
(DE)	BITSTRING	1	DRXDLTR	RESPONSE BYTE FROM CICS SYSTEM CORRESP TO TCADLTR (SET BY XFR4)
(DF)	BITSTRING	1	DRXLANG	LANGUAGE TYPE, USED BY XFR1 ON SCHEDULE CALL. IF PL/I THEN LEVEL OF INDIRECTION ADDED TO PCB LIST
	11.. ...1		DRXASM	"C'A" ASSEMBLER
	11.. ..11		DRXCOB	"C'C" COBOL
	11.1 .111		DRXPLI	"C'P" PL/I
(E0)	BITSTRING	1	DRXFLG1	FLAG BYTE
	1... ....		DRXCMP1	"X'80" COMPAT OPTION USED (HENCE A DUMMY PCB MUST BE ADDED TO LIST, AND TAKEN ACCOUNT OF IN DB CALL)
	.1.. ....		DRXSPIE	"X'40" TELL SPIE THAT IF PGM CHECK OCCURS, THEN INVOKE RETRY
	.1.. ....		DRXDPCB	"X'20" THE DUMMY PCB HAS YET TO BE CREATED BY TRANSFORMER 4
(E4)	FULLWORD	4	DRXRETAD	ADDRESS OF POINT IN TRANSFORMER TO WHICH RETRY ROUTINE SHOULD RETURN
(E8)	FULLWORD	4	DRXIOLEN	I/O AREA LENGTH FOR HLP1 COMMAND - VALID IF DRXHLP1 IS SET
(EC)	CHARACTER	1	DRXATPN	TYPE LAST ATTACH HEADER LAST SENT. THERE IS PROBABLY A BETTER PLACE TO HOLD THIS. ONLINE THE INFO IS HELD IN THE TCTTE
(ED)	CHARACTER	6	DRXRCODE (0)	RETURN CODE FROM AN EXEC CICS REQUEST
(ED)	CHARACTER	1	DRXRCDE1	RESPONSE CODE
(EE)	CHARACTER	1	DRXRCDE2	RESERVED
(EF)	CHARACTER	1	DRXRCDE3	RESERVED
(F0)	CHARACTER	1	DRXRCDE4	RESERVED
(F1)	CHARACTER	1	DRXRCDE5	RESERVED
(F2)	CHARACTER	1	DRXRCDE6	RESERVED
	..11 ..11		DRXLLEN	**"-DRXSTRT" LENGTH OF DFHDRX
(F4)	ADDRESS	4	RSBEXPRM	ADDR OF EDP'S DBLWD FOR LOCATE MODE RETRIEVAL
	1111 ....		RSBLEN	**"-RSBSTART" LENGTH OF RSB

## RSB DL/I general purpose macro

MACRO NAME = DFHDLP  
 DESCRIPTIVE NAME = CICS DL/I General Purpose Macro  
 FUNCTION =  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = NONE  
 PATCH LABEL = NONE  
 MODULE TYPE = EXECUTABLE  
 REMOTE SCHEDULING BLOCK

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHRSBDS	
(0)	FULLWORD	4		STORAGE ACCOUNTING
(4)	FULLWORD	4		STORAGE ACCOUNTING
	.... 1...		RSBSTART	"*" START OF RSB
(8)	ADDRESS	4	RSBPDIR	A(REMOTE PDIR ENTRY)
(C)	CHARACTER	4	RSBSYSID	REMOTE SYSTEM ID

### PLIST FOR IS CONVERSE

(10)	FULLWORD	4	RSBISPL (0)	
(10)	CHARACTER	1	(0)	REQUEST TYPE
(10)	CHARACTER	1		RETURN CODE
(11)	CHARACTER	1		MODIFIER, REQUEST INDEPENDENT
(12)	CHARACTER	1		MODIFIER, REQUEST DEPENDENT
(13)	CHARACTER	1		RESERVED
(14)	FULLWORD	4		TCTTE ADDRESS
(18)	FULLWORD	4	(0)	XFR ADDRESS
(18)	CHARACTER	4		TRANSACTION ID
(1C)	CHARACTER	4		REMOTE SYSTEM ID
(20)	CHARACTER	8		TRANSACTION ROUTING PROFILE
(28)	HALFWORD	2		Number of send sessions
(2A)	HALFWORD	2		Number of receive sessions
(2C)	CHARACTER	8		Connectee NETNAME
(34)	CHARACTER	8		Security name
(3C)	FULLWORD	4		Address of LCL entry
(40)	FULLWORD	4		Address of CRB

TRANSFORMER'S (DFHXFP'S) INTERFACE BLOCK  
 CONTROL BLOCK NAME = DFHXFRDS  
 DESCRIPTIVE NAME = CICS Function Request Shipping Request  
 Control Block.

MACROS = DFHXFSTG  
 FUNCTION =  
 Defines the data transformation (XF) control block  
 as used in batch and online environments.

(48)	DBL WORD	8	XFRSTART (0)	XF control block - start
------	----------	---	--------------	--------------------------

### FIELDS IN THE XF CONTROL BLOCK THAT ARE UNIQUE TO AN ONLINE ENVIRONMENT

#### SYSTEM/SESSION RELATED FIELDS

(48)	CHARACTER	4	XFRSYSNM	N(SYSID)
(4C)	ADDRESS	4	XFRATCSE	A(TCTSE)
(50)	ADDRESS	4	XFRATCTE	A(TCTTE) OR 0
(54)	ADDRESS	4	XFRATIOA	A(TIOA) OR 0
(58)	CHARACTER	4	XFRLUCCD	LU6.2 ERROR (SENSE) CODE
(5C)	CHARACTER	4	XFRSTRAN	Server transaction code
(60)	BITSTRING	1	XFRFLAGA	
	1... ..		XFRSERVR	"X'80" Server transaction supplied
	.1.. ..		XFRNORM	"X'40" Normal transformer to be used
	..1. ....		XFRSYNC	"X'20" SYNCONRETURN requested
	...1 ....		XFRNOATN	"X'10" CONVERSE with NOATNI required
	.... 1...		XFRLINK	"X'08" LINK request
	.... .1..		XFRRTDST	"X'04" Dynamically routed START request
(62)	HALFWORD	2	XFRRTRLN	Length of router commarea or 0
(64)	ADDRESS	4	XFRRTRAD	A(DFHDSRP) or 0
(68)	BITSTRING	1	(7)	reserved
(70)	FULLWORD	4	XFRFSPEC (0)	Origin for function specific storage

#### DL/I RELATED FIELDS

(70)	ADDRESS	4	XFRAUIB	A(UIB)
(74)	FULLWORD	4	XFRDLILN	Maximum length os SETS I/O area so far

#### FILE CONTROL RELATED FIELDS

MACRO NAME = DFHFCECT  
 DESCRIPTIVE NAME = CICS Transformer File Control Operation  
 Table Entry DSECT.

(78)	FULLWORD	4	XFRFCENT (0)	TEMP FC OP ENTRY FOR DFHXFX
(78)	ADDRESS	4		ADDRESS OF NEXT ENTRY

Offset Hex	Type	Len	Name (Dim)	Description
(7C)	CHARACTER	4		NAME OF SYSTEM OWNING FILE
(80)	CHARACTER	8		FILE NAME ON REMOTE SYSTEM
(88)	HALFWORD	2		REQID
(8A)	HALFWORD	2		KEYLENGTH
(8C)	ADDRESS	4		ADDR OF RIDFLD
(90)	ADDRESS	4		ADDR OF BUFFER FOR READ SET
(94)	HALFWORD	2		LGTH OF BUFFER FOR READ SET
(96)	CHARACTER	1		FIRST FLAG BYTE
(97)	CHARACTER	1		SECOND FLAG BYTE
(98)	FULLWORD	4	(0)	MAKE LENGTH MULTIPLE OF 4
This DSECT describes the entries required for remote program link				
(70)	FULLWORD	4	DFHPCENT (0)	PC LINK entries begin here
(70)	CHARACTER	8	XFRPNAME	name of program
(78)	HALFWORD	2	XFRCOMML	length of commarea
(7A)	HALFWORD	2	XFRDATAL	length of data to be sent
(7C)	CHARACTER	4	XFRABCD	Abend code returned from mirror
(80)	BITSTRING	1	XFRFLAG4	Flag byte
	1... ....		XFRHTRAN	"X'80" hex tranid present
	.1.. ....		XFRDATAV	"X'40" valid DATALENGTH supplied
FIELDS IN THE XF CONTROL BLOCK THAT ARE UNIQUE TO A BATCH ENVIRONMENT				
(48)	ADDRESS	4	XFRSTG1	ADDRESS OF STG CONTAINING THE FLATTENED PLIST. THE TRANSFORMER GETS NEW STG IF XFRSTG1 IS 0 OR REUSES THE CURRENT STG IF THIS PROVES LARGE ENOUGH
(4C)	ADDRESS	4	XFRSTG4	ADDRESS OF THE FLATTENED REPLY IN THE BUFFERS OF BATCH DL/I
(50)	FULLWORD	4	XFRSTGL	LENGTH OF THE FLATTENED REPLY IN THE DL/I BUFFERS
FIELDS IN THE XF CONTROL BLOCK THAT ARE COMMON TO A BATCH AND ONLINE ENVIRONMENTS				
(98)	ADDRESS	4	XFRPLIST	ADDRESS OF PLIST PASSED TO TRANSFORMER OR ADDRESS OF PLIST CREATED BY TRANSFR
(9C)	ADDRESS	4	XFRATABN	A(1ST TABLE ENTRY) OR 0 - E.G. RPDIR OR DCTTE
(A0)	ADDRESS	4	XFRATAB2	A(2ND TABLE ENTRY) - E.G. PDIR OR 0
(A4)	CHARACTER	1	XFRFORMN	THE TRANSFORMER INDEX - WITH VALUES SET AS FOLLOWS
	.... ....		XFRTRAN1	"0" TRANSFORMER 1 - VERTICAL TO HORIZONTAL REQUESTS
	.... .1.		XFRTRAN2	"2" TRANSFORMER 2 - HORIZONTAL TO VERTICAL REQUESTS
	.... .1.		XFRTRAN3	"4" TRANSFORMER 3 - VERTICAL TO HORIZONTAL REPLIES
	.... .11.		XFRTRAN4	"6" TRANSFORMER 4 - HORIZONTAL TO VERTICAL REPLIES
(A5)	CHARACTER	2	XFRARCHD	USED TO SHOW CICS OR SNA ARCHITECTURE WHEN A CHOICE IS AVAILABLE
(A7)	CHARACTER	1	XFRGROUP	THE GROUP IDENTIFIER FOR THE CURRENT REQUEST
	.... .11.		XFRFCGRP	"X'06" - THE CICS FC GROUP
	.... 1..		XFRTDGRP	"X'08" - THE CICS TD GROUP
	.... 1.1.		XFRTSGRP	"X'0A" - THE CICS TS GROUP
	.... 1..		XFRICGRP	"X'10" - THE CICS IC GROUP
	.... .1.		XFRJCGRP	"X'14" - THE CICS JC GROUP
	.... .1.		XFRDLGRP	"X'40" - THE DL/I GROUP
(A8)	CHARACTER	1	XFRFUNCT	THE FUNCTION IDENTIFIER FOR THE CURRENT REQUEST
(A9)	CHARACTER	1	XFRFLAGS	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
	1... ....		XFREILST	"X'80" THE ARGUMENT LIST COMES FROM OR GOES TO EIP
	.1.. ....		XFRDLLST	"X'40" THE ARGUMENT LIST COMES FROM OR GOES TO DL/I
	.1. ....		XFRDLCNT	"X'20" FIRST ARGUMENT IS A COUNT OF THE REMAINING ARGUMENTS
	...1 ....		XFRDLPLI	"X'10" THE DL/I REQUEST COMES FROM PL/I - INDIRECTION EXISTS
	.... 1... ..		XFRATHDR	"X'08" AN ATTACH HEADER HAS BEEN PUT OUT BEFORE OTHER DATA
	.... .1..		XFRLNGRN	"X'04" THE MIRROR TASK NEEDS TO BE LONG RUNNING
	.... .1.		XFRNRPLY	"X'02" THE REQUEST IS TO BE SHIPPED; HOWEVER NO REPLY IS EXPECTED
	.... .1.		XFRPRCT	"X'01" THE REQUEST IS TO BE SHIPPED PROTECTED
(AA)	CHARACTER	1	XFRFLAG1	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
	1... ....		XFRCLCQ	"X'80" THE REQUEST MAY BE QUEUED BEFORE SHIPPING
	.1.. ....		XFRFCTK	"X'40" FC Token can be shipped
(AB)	CHARACTER	1	XFRFLAG2	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
	1... ....		XFRHAENT	"X'80" DFHMIRVM has handled an abend; the abend code is to be found in the TACB
	.1.. ....		XFRLENFD	"X'40" LENGTH parameter forced for a FILE READ request which didn't specify LENGTH parameter originally
(AC)	CHARACTER	1	XFRFLAG3	PARAMETER LIST FLAGS - WITH ALL VALUES RESERVED
(AD)	CHARACTER	2	XFRCODES (0)	FLAGS INDICATING WHERE CONTROL IS TO BE PASSED UPON RETURN FROM THE TRANSFORMER
(AD)	CHARACTER	1	XFRCODE1	THE FIRST SET OF FLAGS - THE NEXT DEFINITIONS APPLY TO RETURN FROM TRANSFORMERS 1 AND 4 WITH VALUES SET AS FOLLOWS
	.... .1..		XFR1TO4	"4" TRANSFORMER 1 HAS FOUND AN ERROR - CONTROL IS TO BE PASSED TO TRANSFORMER 4
	.... 1..		XFR1TOC	"8" TRANSFORMER 1 HAS FOUND ERROR - CONTROL IS TO BE PASSED BACK TO EIP OR DL/I
	.... .1.		XFR1XLNF	"2" XLN failure THE NEXT DEFINITIONS APPLY TO RETURN FROM ISP WITH VALUES SET AS FOLLOWS
	...1 111.		XFRLNKAP	"30" Allocate request in ISP has been purged
	...1 11.		XFRLNKAR	"28" Allocate request in ISP has been rejected
	...1 1.1.		XFRLNKNI	"26" no sessions immediately available for allocate request
	...1 1..		XFRLNKPF	"24" ALLOCATE IN ISP HAS FAILED BECAUSE PROFILE DFHCICSF IS MISSING
	...1 .11.		XFRLNKSV	"22" TRANSID invalid, we are already in session with a different mirror transaction.
	...1 .1.		XFRLNKGP	"20" ALLOCATE IN ISP HAS FAILED BECAUSE THE MODENAME IS INVALID
	...1 .1.		XFRLNKSP	"18" SYNCONRETURN invalid, we are already in session with a mirror
	...1 ....		XFRLNKLQ	"16" LOCAL QUEUEING HAS FAILED - BAD RETURN FROM DFHICP TYPE=PUT
	.... 111.		XFRLNKAB	"14" xform 4 has processed ABCODE data

Offset Hex	Type	Len	Name (Dim)	Description
	.... 11..		XFRLNKNA	"12" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK IS NOT IN THE INTERSYSTEM TABLE
	.... 1.1.		XFRLNKSF	"10" CONVERSE in DFHISP has failed
	.... 1...		XFRLNKSH	"8" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK, THOUGH EXISTING, IS OUT OF SERVICE
	.... .11.		XFRLNKNS	"6" Type of request is not supported over LU6.1 links
	.... .1..		XFRLNKSY	"4" ALLOCATE IN ISP HAS FAILED BECAUSE NAME IS NOT THAT OF TCTSE
(AE)	CHARACTER	1	XFRCODE2	THE SECOND SET OF FLAGS - APPLY TO RETURN FROM TRANSFORMERS 2 AND 3 WITH VALUES SET AS FOLLOWS
	.... .1..		XFR2TO3	"4" TRANSFORMER 2 HAS FOUND AN ERROR - CONTROL IS TO BE PASSED TO TRANSFORMER 3
	.... 1...		XFRNEGR	"8" TRANSFORMER 2 HAS FOUND AN ERROR - A NEGATIVE RESPONSE IS TO BE SENT
(AF)	CHARACTER	1	XFRABCDE	ABEND CODE INDICATOR PASSED BACK FROM THE TRANSFORMER TO THE BATCH CONTROLLER PROGRAM
(B0)	ADDRESS	4	XFRRESR9	resumption base for DL/I function shipping
(B4)	ADDRESS	4	XFRRESRE	resumption address for DL/I function shipping
(B8)	ADDRESS	4	XFRBEGOP	address of Arg0 options bytes
(BC)	FULLWORD	4	XFRARGS (0)	ORIGIN FOR ARGUMENTS
	.111 .1..		XFRLNGTH	**-XFRSTART"
TRANSFORMER'S RESOURCE TABLE				
(C0)	DBL WORD	8	DRXSTRT (0)	START OF DFHDRX
(C0)	FULLWORD	4	DRXSSASZ	MAX SSA SIZE AS PERCEIVED BY THIS SYSTEM
(C4)	CHARACTER	8	DRXRPSB	NAME OF PSB TO BE USED ON REMOTE SYSTEM
(CC)	ADDRESS	4	DRXPCBAL	A(LOCAL PCB ADDRESS LIST) THIS FIELD IS SET BY XFR4 DURING SCHEDULE CALL AND IS USED DURING DB CALLS
(D0)	ADDRESS	4	DRXCHAIN	CHAIN OF STORAGE SEGMENTS OBTAINED BY TRANSFORMER 4
(D4)	ADDRESS	4	DRXIOAWK	A(READ SET BUFFER); BEFORE DRXBUFAL SET ON CONTAINS LENGTH FOR BUFFER
(D8)	HALFWORD	2	DRXINDEX	THE PCB INDEX FOR THE CURRENT DATABASE CALL
(DA)	BITSTRING	1	DRXISC	ISC FLAGS
	1... ....		DRXPCBM	"X'80" PRESENT TO RETAIN SDB - DL/I SIMILARITY
	.1.. ....		DRXBUFAL	"X'40" READ-SET BUFFER HAS BEEN ALLOCATED; THE ADDRESS IS IN DRXIOAWK
	.1.. ....		DRXCHKP	"X'20" PCB SCHED. ISSUED DURING CHKP CALL; XFR4 SHOULD USE STG FOR OLD PCBs AND LIST
(DB)	BITSTRING	1	DRXISCO	ISC OUTBOUND FLAGS
	1... ....		DRXSYNC	"X'80" PRESENT TO RETAIN SDB - DL/I SIMILARITY
	.1.. ....		DRXHLP1	"X'40" HLP1 COMMAND WITH SSA AND I/O LENGTHS GIVEN
(DC)	BITSTRING	1	DRXISCI	ISC INBOUND FLAGS
	1... ....		DRXFUNC	"X'80" FUNCTION STRING INVALID
	.1.. ....		DRXCALL	"X'40" USER CALL PARM LIST INVALID
	.1.. ....		DRXLNKNA	"X'20" LINK DOES NOT EXIST
	...1 ....		DRXLNKSH	"X'10" LINK IS OUT OF SERVICE
	.... 1...		DRXNOSTT	"X'08" PRESENT TO RETAIN SDB - DL/I SIMILARITY
(DD)	BITSTRING	1	DRXFCTR	RESPONSE BYTE FROM CICS SYSTEM CORRESP TO TCAFCTR (SET BY XFR4)
(DE)	BITSTRING	1	DRXDLTR	RESPONSE BYTE FROM CICS SYSTEM CORRESP TO TCADLTR (SET BY XFR4)
(DF)	BITSTRING	1	DRXLANG	LANGUAGE TYPE, USED BY XFR1 ON SCHEDULE CALL. IF PL/I THEN LEVEL OF INDIRECTION ADDED TO PCB LIST
	11.. ...1		DRXASM	"C'A" ASSEMBLER
	11.. ..11		DRXCOB	"C'C" COBOL
	11.1 .111		DRXPLI	"C'P" PL/I
(E0)	BITSTRING	1	DRXFLG1	FLAG BYTE
	1... ....		DRXCMP1	"X'80" COMPAT OPTION USED (HENCE A DUMMY PCB MUST BE ADDED TO LIST, AND TAKEN ACCOUNT OF IN DB CALL)
	.1.. ....		DRXSPIE	"X'40" TELL SPIE THAT IF PGM CHECK OCCURS, THEN INVOKE RETRY
	.1.. ....		DRXDPCB	"X'20" THE DUMMY PCB HAS YET TO BE CREATED BY TRANSFORMER 4
(E4)	FULLWORD	4	DRXRETAD	ADDRESS OF POINT IN TRANSFORMER TO WHICH RETRY ROUTINE SHOULD RETURN
(E8)	FULLWORD	4	DRXIOLEN	I/O AREA LENGTH FOR HLP1 COMMAND - VALID IF DRXHLP1 IS SET
(EC)	CHARACTER	1	DRXATPN	TYPE LAST ATTACH HEADER LAST SENT. THERE IS PROBABLY A BETTER PLACE TO HOLD THIS. ONLINE THE INFO IS HELD IN THE TCTTE
(ED)	CHARACTER	6	DRXRCODE (0)	RETURN CODE FROM AN EXEC CICS REQUEST
(ED)	CHARACTER	1	DRXRCDE1	RESPONSE CODE
(EE)	CHARACTER	1	DRXRCDE2	RESERVED
(EF)	CHARACTER	1	DRXRCDE3	RESERVED
(F0)	CHARACTER	1	DRXRCDE4	RESERVED
(F1)	CHARACTER	1	DRXRCDE5	RESERVED
(F2)	CHARACTER	1	DRXRCDE6	RESERVED
	..11 ..11		DRXLLEN	**DRXSTRT" LENGTH OF DFHDRX
(F4)	ADDRESS	4	RSBEXPRM	ADDR OF EDP'S DBLWD FOR LOCATE MODE RETRIEVAL
	1111 ....		RSBLEN	**RSBSTART" LENGTH OF RSB

## SAA Storage accounting area

CONTROL BLOCK NAME = DFHSAAPS  
 DESCRIPTIVE NAME = CICS Storage Accounting Area.  
 NOTES :  
 DEPENDENCIES = S/370  
 MODULE TYPE = Control block definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	DFHSAADS	
(0)	CHARACTER	1	SAASCI	STORAGE CLASS IDENTIFICATION
(1)	CHARACTER	1	SAASFI	STORAGE FORMAT IDENTIFICATION
(2)	UNSIGNED	2	SAASAD	STORAGE AREA SIZE
(4)	ADDRESS	4	SAASACA	STORAGE ACCOUNTING CHAIN

## SAB Subsystem anchor block

CONTROL BLOCK NAME = DFHSABDS  
 DESCRIPTIVE NAME = CICS Subsystem Anchor Block  
 FUNCTION =  
 Contains addresses of CICS component control block storage which exists until re-IPL.  
 Certain CICS components require control blocks which are accessible by all CICS systems run in a CEC.  
 The SAB is used to anchor such control block storage.  
 The MVS SSCT is used to anchor the SAB and CICS components use the MVS SSI VERIFY request to obtain the address of the SSCT itself.  
 One SAB exists only, which is created by the first CICS component to require it after IPL. Subsequent CICS components update it as appropriate.  
 The user components are:  
 IRC - DFHIRP  
 XRF - DFHWTI  
 LIFETIME =  
 Created by first user after IPL.  
 Exists until re-IPL.  
 STORAGE CLASS =  
 MVS Common Service Area storage.  
 LOCATION =  
 Address in MVS SSCTSUSE.  
 INNER CONTROL BLOCKS =  
 None  
 NOTES :  
 DEPENDENCIES = none  
 RESTRICTIONS = none  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
 None  
 DATA AREAS =  
 None  
 CONTROL BLOCKS =  
 None  
 GLOBAL VARIABLES (Macro pass) =  
 None

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHSABDS	
(0)	ADDRESS	4	SABCDD	Address of XRF CEC Dead Data
(4)	ADDRESS	4	SABSCTE	Address of IRC SCTE
(8)	CHARACTER	6	SABACRON	Eyecatcher 'DFHSAB'
(E)	SIGNED	1	SABVERSN	Version of control block
	.... ..1		SABV211	"1" Version 2.1.1 SPE SAB
(F)	BITSTRING	1	SABFLAG1	First flag byte
	1... ..		SAB1FMT	"X'80" - reformat CICS messages
	.1. ....		SAB1SEC	"X'40" - protect security msgs
	..1. ....		SAB1GRC	"X'20" - generic routecodes supplied
(10)	ADDRESS	4	SABSSCT	Address of Subsystem CVT
(14)	ADDRESS	4	SABPNDPW	Pending password requests
(18)	ADDRESS	4	SABMAPPT	Addr of addr-space bitmap
(1C)	FULLWORD	4	SABMAPLN	Len of addr-space bitmap



Offset Hex	Type	Len	Name (Dim)	Description
(20)	BITSTRING ..11 .....	16	SABGROUT SABL	Generic Routecodes "-DFHSABDS" Length

SUBSYSTEM CONTROL TABLE EXTENSION  
 THE SCTE IS USED BY THE SVC TO CONTROL THE EXISTENCE  
 OF THE LACB (LOGON ADDRESS CONTROL BLOCK).

Offset Hex	Type	Len	Name (Dim)	Description
(0)			SCTE	
(0)	ADDRESS	4	SCTELACB	Address of LACB
(4)	FULLWORD	4	SCTECNT	NUMBER OF 'ASSOCIATED' address spaces
(8)	FULLWORD	4		Reserved - must not be deleted
(C)	HALFWORD	2	SCTESVCI	INSTRUCTION TO INVOKE CICS SVC - offset must never change (SDB, batch DPL)
(E)	ADDRESS	1	SCTEVER#	SCTE version no. - indicates level of associated DFHIRP control blocks
	.... ..1		SCTEVER1	"1" SCTE version 1 - CICS 4.1
	.... ..1.		SCTEVER2	"2" SCTE version 2 - CICS 5.1
(F)	BITSTRING	1	SCTEFLGS	Various flags
	1... .....		SCTEFSP4	"X'80" MVS includes XCF support (SP4 plus)
	.1... .....		SCTEFXCF	"X'40" XCF level satisfies all IRP's needs
	...1 .....		SCTELEN	"*-SCTE" LENGTH OF SCTE ENTRY

## SDG Dump domain global statistics

CONTROL BLOCK NAME = DFHSDGDS  
 DESCRIPTIVE NAME = CICS Dump Domain Global Statistics  
 (System dumps)  
 FUNCTION = A record containing Dump Domain Global Statistics  
 This DSECT describes the global system dump statistics  
 Produced by the Dump Domain. A single instance of the data  
 is produced by the Dump Domain. Additional copies may be  
 created by the statistics domain, statistics utility  
 programs or user programs.  
 The data consists of a header plus a block of statistics  
 for the Dump domain.  
 LIFETIME = Created when the Dump Domain is initialised and  
 exists for the lifetime of the domain manager.  
 STORAGE CLASS = varies  
 LOCATION = User is passed a pointer to the storage  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = None  
 CONTROL BLOCKS = In Dump Domain  
 GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHSDGDS	System Dump Global statistics
(0)	FULLWORD	4	(0)	Reserved
(0)	HALFWORD	2	SDGLEN	Length of data area
	.1.1 1.1.		SDGIDE	"90" System dump global stats id mask
(2)	ADDRESS	2	SDGID	System dump global stats id
	.... ..1		SDGVERS	"X'01" Stats version number mask
(4)	CHARACTER	1	SDGDVERS	Dump domain global stats version
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	SYS_DUMPS_TAKEN	Number of system dumps taken
(C)	FULLWORD	4	SYS_DUMPS_SUPPR	Number of system dumps suppressed
	...1 .....		SDGEN	"**"
	...1 .....		SDGCLEN	"*-DFHSDGDS" Length of DSECT

**SDR Dump domain system dump statistics**

CONTROL BLOCK NAME = DFHSDRDS  
 DESCRIPTIVE NAME = CICS Dump Domain System Dump Statistics  
 (by dumpcode)  
 FUNCTION = A record containing Dump Domain System Dump Stats  
 This DSECT describes the statistics produced by the Dump  
 Domain for each system dumpcode. There will be one  
 instance of the data for each dumpcode for which statistics  
 were requested.  
 The data consists of a header plus a block of statistics  
 for the Dump domain.  
 LIFETIME = Created when the Dump Domain is initialised and  
 exists for the lifetime of the Dump Domain.  
 STORAGE CLASS =  
 LOCATION = User is passed a pointer to the storage  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = None  
 CONTROL BLOCKS = In Dump Domain  
 GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHSDRDS	Dump domain system dump stats
(0)	FULLWORD	4	(0)	Reserved
(0)	HALFWORD	2	SDRLEN	Length of data area
	.1.1 1...		SDRIDE	"88" Dump domain system stats id mask
(2)	ADDRESS	2	SDRID	Dump domain system stats id
	.... ...1		SDRVERS	"X'01" DSECT version number
(4)	CHARACTER	1	SDRDVERS	Domain data format version number
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	SDRCODE	Dumpcode
(10)	FULLWORD	4	SDRSTKN	Number of system dumps taken
(14)	FULLWORD	4	SDRSSUPR	Number of system dumps suppressed
(18)	FULLWORD	4	SDRTTKN	Number of tran dumps taken (unused)
(1C)	FULLWORD	4	SDRTSUPR	Number of tran dumps suppressed
	..1. ....		SDREND	""
	..1. ....		SDRCLEN	""-SDRLEN" Length

## SETCC Set storage control

CONTROL BLOCK NAME = DFHSETCC  
 DESCRIPTIVE NAME = CICS Set Storage Control  
 FUNCTION =  
 DFHSSC describes the DSECT for the Set Storage Control area. This area describes the address, length, location (above or below) and key (CICS or USER) of storage that is returned in response to requests that specify the keyword SET.  
 The Set Storage Control dsect is intended to be imbedded within other dsects. It may be used by any component that allocates SET storage.  
 For example, the Set Storage Control dsect is used by File Control. It is imbedded within the FRTE, where it is used to describe SET storage acquired by READ UPDATE SET, READNEXT SET and READPREV SET requests. It is also imbedded within the FLAB where it is used to describe storage acquired by READ SET requests.

LIFETIME =  
 Lifetime of control block that imbeds DFHSETCC. See comments in description of appropriate control block.

STORAGE CLASS =  
 See control block that imbeds DFHSETCC.

LOCATION =  
 See control block that imbeds DFHSETCC.

INNER CONTROL BLOCKS =  
 None.

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	DFHSSC	
(0)	ADDRESS	4	SSC_SET_ADDRESS	Set storage address
(4)	HALFWORD	2	SSC_SET_LENGTH	Set storage length
(6)	BITSTRING	1	SSC_SET_FLAGS	Flag byte
	1... ..		SSC_SET_BELOW	Storage below line
	.1.. ....		SSC_SET_CICS	Storage in CICS key
	..11 1111		*	Reserved
(7)	CHARACTER	1	*	Reserved

## SIP System initialisation program

MODULE NAME = DFHSIPDS  
 DESCRIPTIVE NAME = CICS SYSTEM INITIALIZATION PROGRAM  
 COMMUNICATION AREA  
 FUNCTION = COMMUNICATION AREA FOR INITIALIZATION.  
 MACROS = DFHSIPD

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHSIPDS	
(0)	DBL WORD	8	SIPCOM (0)	LABEL FOR ADDRESSABILITY
INITIALISATION SUBROUTINE ADDRESSES				
(0)	ADDRESS	4	SIPOSUP	ADDRESS OF OVERLAY SUPERVISOR
(4)	ADDRESS	4		Reserved
(8)	ADDRESS	4	SIPLDER	ADDRESS OF LOADER ROUTINE IN APSIP
(C)	ADDRESS	4	SIPPUT	ADDRESS OF CONSOLE PUT ROUTINE
(10)	ADDRESS	4	SIPCORE	ADDRESS OF GETMAIN ROUTINE
CONTROL AREA AND PROGRAM ADDRESSES				
(14)	ADDRESS	4	SIPCSA	ADDRESS OF DFHCSA
(18)	ADDRESS	4	SIPSIT	ADDRESS OF DFHSIT
(1C)	ADDRESS	4	SIPBASER	DFHSIP BASE ADDRESS
(20)	ADDRESS	4	SIPDMSTK	A (kernel stack) at entry to SIP
(24)	ADDRESS	4	SIPDMPLP	kernel plst pointer at entry to SIP
(28)	ADDRESS	4	SIPSTACK	A(kernel stack) for task entering one of the closed subroutines in DFHSIP
(2C)	ADDRESS	4	(6)	Reserved
(44)	ADDRESS	4	SIPDMSRA	A(SIPDMSR) = DOMAIN MANAGER TASK SYNCHRONIZATION ROUTINE
(48)	ADDRESS	4	(3)	Reserved
(54)	ADDRESS	4	SIPDMPRA	A(SIPGFTCT - the routine which posts APDM task when insufficient storgae detected by TCP task
(58)	ADDRESS	4		Reserved
(5C)	FULLWORD	4	LNGTHSAV	Reserved
REGISTER SAVE AREAS FOR USE BY DFHSIP				
(60)	FULLWORD	4	SIPSAVE (16)	GENERAL REGISTER SAVE AREA
(A0)	FULLWORD	4	SIPUTSV (16)	PUTSAVE REGISTER SAVE AREA
Flag bytes for controlling program loading These same equates are used in SIPNUCTB in DFHSIB1				
(E0)	BITSTRING	2		Reserved
(E2)	BITSTRING	1	SIPFLAG	FLAG BYTE
	1... ..		SIPBLNUC	"X'80" .. BLDL FOR NUCLEUS MODULE
	.1. ....		SIPPRVMD	"X'40" .. MODULE MUST BE IN PRIVATE AREA (AND NOT SHARED)
	..1. ....		SIPSHRMD	"X'20" .. MODULE MUST BE IN SHARED AREA
	...1 ....		SIPSHRPL	"X'10" .. SHARED PL/I MODULES FLAG
	.... .1..		SIPBLNAB	"X'04" .. NUCLEUS-BUILD ABEND FLAG
	.... .1.		SIPBLERR	"X'02" .. MODULE NOT FOUND
	.... .1.		SIPERR	"X'02" .. ERROR RESPONSE
	.... ..1		SIPSFBL	"X'01" .. SUFFIXABLE MODULE FLAG
(E3)	BITSTRING	1	SIPERFLG	INITIALISATION/ERROR FLAGS
	1... ..		SIPCNCNLR	"X'80" .. CANCEL REQUESTED AFTER MSG DFH1596
	... 1..		SIPLDERR	"X'08" .. LOAD ERROR FLAG (OS-ONLY)
(E4)	BITSTRING	1	SIPFLAG3	Flag Byte 3
	1... ..		SIP2PLT	"X'80" .. A PLT PROGRAM EXISTS THAT RUNS DURING THE 2ND STAGE OF INITIALISATION
	.1. ....		SIP3PLT	"X'40" .. A PLT PROGRAM EXISTS THAT RUNS DURING THE 3RD STAGE OF INITIALISATION
(E5)	BITSTRING	1	SIPFLAG4	FLAG BYTE 4
	...1 ....		SIPF31B	"X'10" ..GET DOMAIN STORAGE FROM 31BIT SUBPOOL
	.... .1.		SIPFDOSA	"X'02" ..GETMAIN TO RETURN ADDR PAST LENGTH FD
PARAMETER PASSING FIELDS				
(E8)	FULLWORD	4	SIPARMP1	PARAMETER PASS FIELDS
(EC)	FULLWORD	4	SIPARMP2	PARAMETER PASS FIELDS
(F0)	FULLWORD	4	SIPARMP3	PARAMETER PASS FIELDS
(F4)	FULLWORD	4	SIPARMP4	PARAMETER PASS FIELDS
(F8)	FULLWORD	4	SIPARMP5	PARAMETER PASS AREA
(FC)	FULLWORD	4	SIPARMP6	PARAMETER PASS AREA
(100)	FULLWORD	4	SIPARMP7	PARAMETER PASS AREA
(104)	FULLWORD	4	SIPARMP8	PARAMETER PASS AREA
(108)	FULLWORD	4	SIPARMP9	PARAMETER PASS AREA
TEMPORARY STORAGE CONSTANTS				
(10C)	FULLWORD	4	TEMPBUF (2)	TEMPORARY STORAGE BUFFERS
(114)	HALFWORD	2	TEMPBLK	TEMPORARY STORAGE BLOCK SIZE
(116)	HALFWORD	2	TEMPCIZ	TEMPORARY STORAGE CI SIZE
(118)	FULLWORD	4	TEMPCIN	NUMBER OF CONTROL INTERVALS FOR TEMP STORAGE
OPERATOR COMMUNICATIONS AREA				
(11C)	FULLWORD	4	SIPWTOCB	WRITE TO OPERATOR ECB (OS/VS)

Offset Hex	Type	Len	Name (Dim)	Description
(120)	FULLWORD	4	SIPMSG (0)	INPUT/OUTPUT MESSAGE AREA
(120)	HALFWORD	2	SIPMSGLN	MESSAGE LENGTH
(122)	BITSTRING	1	SIPMSGTP	TYPE REQUEST BYTES
	1... ..		UNCOND	"X'80" .. UNCONDITIONAL MESSAGE
	.1.. ..		GET	"X'40" .. GET (REPLY) REQUEST
	..1. ....		ABEND	"X'20" .. ABEND REQUEST
	...1 ....		SUPPRESS	"X'10" .. SUPPRESS ABEND DUMP
(123)	BITSTRING	1	SIPMSGCC	CARRIAGE CONTROL CHARACTER
(124)	CHARACTER	240	SIPMSGA	MESSAGE DATA AREA
Program Loader / Overlay Supervisor -- Work & parameters				
(214)	CHARACTER	8	SILISTID	PROGRAM ID
SUBTASK & multitasking control areas				
(21C)	FULLWORD	4	SISUBECB	ECB FOR SUBTASK
(220)	FULLWORD	4	SISUBTCB	ADDRESS OF TCB FOR SUBTASK
(224)	FULLWORD	4	SIPDMTEC	DOMAIN MANAGER TASK ECB
SM Domain domain storage tokens				
(228)	CHARACTER	8	SIPDS24B	storage token CICS key & below 16M
(230)	CHARACTER	8	SIPDSANY	storage token CICS key - anywhere
(238)	CHARACTER	8	SIPDU24B	storage token User key & below 16M
PLIST for TEOF - moved to end of SIPCOM				
(240)	HALFWORD	2	(0)	
(240)	ADDRESS	4		Reserved
COMMON CODE FLAG BYTE USED: TO INDICATE WHETHER TEOF WAS ATTACHED (DOS) TO INDICATE IF TAPE SYSTEM LOG WAS CLOSED SUCCESSFULLY WHEN CICS CAME DOWN LAST (COM)				
(244)	BITSTRING	1	SIPTEFLG	TEOF FLAGS
	1... ..		SIPTEAO	"X'80" TEOF SUBTASK WAS ATTACHED (DOS)
	.1.. ..		SIPTEJCS	"X'40" TAPE JOURNAL WAS CLOSED SUCCESSFULLY
(248)	FULLWORD	4		Reserved
(24C)	CHARACTER	6		Reserved
SAVE AREA FOR SIP LOADER.				
(254)	FULLWORD	4	SIPLSAVE (16)	SAVE AREA
COMMUNICATION AREA - DFHSIH1 TO DFHSI11 TO DFHSIJ1				
(294)	FULLWORD	4	SIPSPSIZ	EFFECTIVE SIZE OF SUBPOOL FOR START UP - IN K BYTES
(298)	FULLWORD	4	CHKRLSAV	SAVE SIPBAR
(29C)	FULLWORD	4	UPENTSAV	SAVE SIPBAR
(2A0)	ADDRESS	4	SIPCICNA	
(2A4)	ADDRESS	4	SIPITCAP	A(TCA acquired during initialisation)
(2A8)	FULLWORD	4	SIPPLTAD	ADDRESS OF PLTPI ENTRY POINT
(2AC)	FULLWORD	4	(4)	Reserved
(2BC)	BITSTRING	8	SIPRSDDT	Date / Time stamp
(2C4)	FULLWORD	4	SIPPLTE1	Early PLT complete ECB
(2C8)	FULLWORD	4	SIPPLTE2	Start late PLT ECB
(2CC)	FULLWORD	4	SIPPLTE3	Late PLT complete ECB
(2CC)	FULLWORD	4	SIPCOME4	*** END OF INITIALISATION COMMUNICATIONS AREA

## SIT System initialisation table

CONTROL BLOCK NAME = DFHSITPS  
 DESCRIPTIVE NAME = CICS SYSTEM INITIALIZATION TABLE  
 FUNCTION =  
     Mapping of the CICS System Initialization Table  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = NONE  
 REGISTER CONVENTIONS = NOT APPLICABLE  
 PATCH LABEL = NOT APPLICABLE  
 MODULE TYPE = MACRO  
 MODULE SIZE = NOT APPLICABLE  
 ATTRIBUTES = NOT APPLICABLE  
 MACROS : None

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	2128	DFHSITPS	System Initialization Table
(0)	CHARACTER		SITPSBA	Table entry point
OPERATING SYSTEM AND CICS LEVELS				
(0)	CHARACTER	1	SITOPSYS	Operating System
(1)	CHARACTER	1	SITOPREL	Operating System Release
(2)	CHARACTER	1	SITCICS	CICS system
(3)	UNSIGNED	1	SITCIREL	CICS release
(4)	UNSIGNED	1	SITCIMOD	CICS modification level
(5)	CHARACTER	3	*	Reserved
LENGTHS OF SIT AND CWA				
(8)	HALFWORD	2	SITLEN	Length of SIT
(A)	HALFWORD	2	SITCWA	Required CWA size
(C)	FULLWORD	4	*	Reserved
ADDRESS CONSTANTS				
(10)	ADDRESS	4	DFHDLI	Address of DL/I link list
(14)	FULLWORD	4	DFHAPT	Reserved
(18)	ADDRESS	4	SITCOMA	Communications area address
(1C)	ADDRESS	4	SITOVPRM	Address of override parms
(20)	ADDRESS	4	SITINTPM	Address of SITINIT parms
(24)	ADDRESS	4	SITSRPAE	Reserved
(28)	ADDRESS	4	SITPRVMA	Address of prvmod list
TIME CONTROL VALUES				
(2C)	HALFWORD	2	SITWBTIP	Web terminal-I/O period
(2E)	HALFWORD	2	SITWBGCI	Web garbage-collect intrvl
(30)	HALFWORD	2	*	Reserved
(32)	HALFWORD	2	SITTSDTI	Terminal scan delay
(34)	FULLWORD	4	SITRICVL	Runaway task time interval
(38)	FULLWORD	4	SITICVAL	System time interval
(3C)	UNSIGNED	2	SITDFINT	LG defer interval
(3E)	HALFWORD	2	*	Reserved
MISCELLANEOUS SIZES, COUNTERS AND FLAGS				
(40)	FULLWORD	4	SITESDSA	ESDSASZE
(44)	FULLWORD	4	SITERDSA	ERDSASZE
(48)	FULLWORD	4	SITOPTIM	Write to operator timeout value
(4C)	FULLWORD	4	SITTRTSZ	Trace table # of entries
(50)	CHARACTER	1	*	reserved
(51)	CHARACTER	1	SIT_PS_TYPE	M if MNPS
(52)	UNSIGNED	2	SITAKPFR	Activity keypoint freq
(54)	CHARACTER	1	SIT_VT_PREFIX	Common Client terminal pfx
(55)	BITSTRING	1	SITTRNTY	Tran dump trace option
			SITRALL	Option ALL
			*	Unused
(56)	BITSTRING	1	SITSRCVY	Stg. recovery byte
			SITSRYES	St. recovery requested
			*	Reserved
			*	Reserved
			*	Reserved
			*	Reserved
			*	Reserved
			*	Reserved
			*	Reserved
(57)	UNSIGNED	1	SITTCSWT	TC Shutdown Wait
(58)	BITSTRING	1	SITTCSAN	TC Shutdown Action
			SITTCSUB	TC Shut Act, Unbind
			SITTCSFO	TC Shut Act, Force

Offset Hex	Type	Len	Name (Dim)	Description
	..11 1111		*	Reserved
(59)	CHARACTER	4	SITVDLY	Autoinstall delete delay time
(5D)	BITSTRING	1	SITCHTSK	CHKSTSK option
	1... ..		*	Reserved
	.1.. ..		SITTSKCR	Check current task storage
	..11 1111		*	Reserved
(5E)	BITSTRING	1	SITCHTRM	CHKSTRM option
	1... ..		SITTRMCR	Check current terminal storage
	..11 1111		*	Reserved
(5F)	BITSTRING	1	SITRRMS	RRMS options
	1... ..		SITRRMSYES	RRMS=YES
	..11 1111		*	Reserved
(60)	FULLWORD	4	SITPSDI	PSDI option (HHMSS)
SUPERVISOR CALL LIST				
(64)	UNSIGNED	1	SITSVSNO	Service svc number
(65)	UNSIGNED	1	SITSISNO	Service init. svc number
(66)	HALFWORD	2	*	Reserved
(68)	HALFWORD	2	*	Reserved
MISCELLANEOUS OPTIONS				
(6A)	BITSTRING	1	SITSTRCD	STATistics Recrding ON/OFF
	1... ..		SITSTRCDO	
	..11 1111		*	Reserved
(6B)	CHARACTER	1	SITTCUA	TCTTE User Area Location
(6C)	UNSIGNED	2	SITPMULT	Dispatcher priority multiplier
(6E)	UNSIGNED	1	SITSBTSK	No. of subtasks
(6F)	CHARACTER	1	SITPMIR	MROLRM: SESSION RETAINS MIR
(70)	HALFWORD	2	SITDMPRT	Dump Retry value (DURETRY=)
(72)	CHARACTER	1	SITMROB	MRO BATCHING VALUE
(73)	UNSIGNED	1	SITASW	Aux trace autoswitch option
	1... ..		SITASWC	Aux trace autoswitch continuous
	.1.. ..		SITASW1	Aux trace autoswitch once
	..11 1111		*	Reserved
(74)	CHARACTER	4	SITFLDSP	Field sep chars
(78)	CHARACTER	1	SITFLDST	Field start char
(79)	UNSIGNED	1	SITCONF	CONF field options
	1... ..		SITCONFXT_YES	CONFXT=YES
	.1.. ..		SITCONFDATA_HIDETC	CONFDATA=HIDETC
	..11 11..		*	Reserved
	.... ..1.		SITENCST	ENCRYPTION=STRONG
	.... ..1		*	Reserved
(7A)	UNSIGNED	1	SITTROP	Trace option
	1... ..		SITITRO	Internal trace required
	.1.. ..		*	Reserved
	..1. ....		SITUTRO	User trace required
	...1 ....		SITSTRO	System trace required
	.... 1...		SITATRO	Aux trace required
	.... ..1.		SITATPE	Aux trace tape device (DOS)
	.... ..1.		SITGTRO	GTF trace required
	.... ..1		*	Reserved
(7B)	BITSTRING	1	SITSMDNO	System dump option (DUMP=)
	1... ..		SITSMDYS	Dump=yes
	.1.. ..		SITDAE	DAE=yes
	..11 1111		*	Reserved
(7C)	CHARACTER	1	SITDMPDS	Dump dataset suffix or X
(7D)	UNSIGNED	1	SITDMPSW	Tran dump autoswitch option
	1... ..		SITDSWY	Autoswitch required
	..11 1111		*	Reserved
(7E)	UNSIGNED	1	SITPRINT	Print key option
(7F)	CHARACTER	1	SITMSGLV	Console msg level indicator
(80)	BITSTRING	1	SITRUWA	LE ruwa pool option
	1... ..		SITRUWPL	ruwapool yes
	..11 1111		*	Unused
(81)	CHARACTER	1	*	reserved
(82)	BITSTRING	1	SITMSGCS	Message Case Indicator
	1... ..		SITMSGUP	Uppercase messages only
	.1.. ..		SITMSGMX	Mixed Case messages.
	..11 1111		*	Reserved
(83)	BITSTRING	1	SITDATFM	CSA date format
	1... ..		*	Reserved
	.1.. ..		*	Reserved
	..1. ....		*	Reserved
	...1 ....		*	Reserved
	.... 1...		*	Reserved
	.... ..1.		SITDTYMD	YYMMDD
	.... ..1.		SITDTDMY	DDMMYY
	.... ..1		SITDTMDY	MMDDYY
(84)	CHARACTER	1	SITFRCQR	FORCEQR option
(85)	CHARACTER	1	SITIRCS	IRC session startup option
(86)	CHARACTER	1	SITHPO	HPO option
(87)	CHARACTER	1	SITLPA	Link pack area option
(88)	UNSIGNED	1	SITFERS	Reserved
(89)	CHARACTER	1	SITEODI	Sequ. devices EOD Indicator.

Offset Hex	Type	Len	Name (Dim)	Description
(8A)	CHARACTER	1	SITTCAMO	TCAM option (Y N)
(8B)	CHARACTER	1	SITDTBO	DTB buffers (M A) (DOS only)
(8C)	BITSTRING	1	SITTRAP	F.E. trap option
	1... ..		SITTRAPO	Global trap required
	.1.. ..		*	Reserved
	..1. ..		*	Reserved
	...1 ..		*	Reserved
	.... 1..		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		*	Reserved
	.... ...1		*	Reserved
(8D)	BITSTRING	1	SITMONCL	Monitor options
	1... ..		SITMONY	Monitor=on
	.1.. ..		SITMONPR	Performance class required
	..1. ..		SITMONEX	Exception class required
	...1 ..		SITMONEV	Event class required
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		*	Reserved
	.... ...1		*	Reserved
(8E)	BITSTRING	1	SITMONOP	Monitor operations
	1... ..		SITMONCO	Converse mon required
	.1.. ..		SITMONSY	Syncpoint mon required
	..1. ..		SITMONTM	Monitor time in local STCK
	...1 ..		*	Reserved
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		*	Reserved
	.... ...1		*	Reserved
(8F)	CHARACTER	4	SITMONFR	MN frequency (0HHMMSSC)
(93)	CHARACTER	8	SITMONSS	MN sub-system id (or nulls) *
(9B)	CHARACTER	8	SITGRPLI	SPI group list id
Security Options				
(A3)	CHARACTER	7	SITXPSB	Classname for PSB
(AA)	CHARACTER	7	SITXTRAN	Classname for TRANSATTACH
(B1)	CHARACTER	7	SITXFCT	Classname for FILE
(B8)	CHARACTER	7	SITXJCT	Classname for JOURNALNAME
(BF)	CHARACTER	7	SITXDCT	Classname for TDQUEUE
(C6)	CHARACTER	7	SITXTST	Classname for TSQUEUE
(CD)	CHARACTER	7	SITXPPT	Classname for PROGRAM
(D4)	CHARACTER	7	SITXPCT	Classname for TRANSACTION
(DB)	CHARACTER	8	SITXDB2E	Classname for DB2ENTRY
(E3)	CHARACTER	6	*	Reserved
(E9)	CHARACTER	7	SITXCMD	Classname for SPCOMMAND
(F0)	CHARACTER	7	*	Reserved
(F7)	BITSTRING	1	SITSECFL	Security flag byte
	1... ..		SITSECEX	External security requested
	.1.. ..		SITSECPR	Resource prefix required
	..1. ..		*	Reserved
	...1 ..		SITXAPPC	RACLIST class APPCLU reqd
	.... 1...		SITESMIN	ESM INSTLN data required
	.... .1..		SITXUSER	Surrogate User Check reqd
	.... ..1.		SITRESSE	Always enact resrce check
	.... ...1		SITCMDSE	Always enact command check
(F8)	CHARACTER	8	SITDFUSR	Default Security userid
(100)	HALFWORD	2	SITUDTIM	Tuning parm value for User Directory Timeout
(102)	HALFWORD	2	SITLUIT	LUIT tuning parm value
(104)	UNSIGNED	1	SITSCOPE	Signon Scope Checking
(105)	CHARACTER	8	SITSECPX	Security Resource Prefix
(10D)	BITSTRING	1	SITPLTSC	PLTPI Security options
	1... ..		SITPLTCM	Command level checking
	.1.. ..		SITPLTRS	Resource level checking
	..11 1111		*	Reserved
(10E)	CHARACTER	8	SITPLTID	PLTPI User id
(116)	CHARACTER	1	SITEMIR	MROFSE: retain mirror
(117)	CHARACTER	1	*	Reserved
DUMP OPTIONS				
(118)	FULLWORD	4	SITTRNSZ	Size of tran dmp trace
(11C)	CHARACTER	18	*	Reserved
BASIC MAPPING SUPPORT OPTIONS				
(12E)	UNSIGNED	1	SITPGCHN	Pgchain length
(12F)	CHARACTER	7	*	Pgchain data
(136)	UNSIGNED	1	SITPGCPY	Pgcopy length
(137)	CHARACTER	7	*	Pgcopy data
(13E)	UNSIGNED	1	SITPGPRG	Pgpurge length
(13F)	CHARACTER	7	*	Pgpurge data
(146)	UNSIGNED	1	SITPGRET	Pgret length
(147)	CHARACTER	7	*	Pgret data
(14E)	CHARACTER	2	SITFCOMP	Reserved
(150)	BITSTRING	3	SITPRGD	Purge delay interval HHMM
(153)	BITSTRING	1	SITPOPT	BMS process options
	1... ..		*	Reserved
#	.1.. ..		SITALGN	Default map aligned



Offset Hex	Type	Len	Name (Dim)	Description
#	..1. ....		SITNDDS	No device dependent suffixing
	...1 ....		*	Reserved
	.... 1...		*	Reserved
#	.... .1..		*	Reserved
#	.... ..1.		*	Reserved
	.... ...1		*	Reserved
(154)	CHARACTER	1	SITBMSO	BMS option (M S F)
END OF BMS OPTIONS				
(155)	CHARACTER	1	SITDISM	Disable Trans after ASRD
TABLE SUFFICES				
(156)	CHARACTER	2	*	Reserved
(158)	CHARACTER	2	SITDCTSF	Destination control table
(15A)	CHARACTER	2	SITFCTSF	File control table
(15C)	CHARACTER	2	*	Reserved
(15E)	CHARACTER	2	*	Reserved
(160)	CHARACTER	2	*	Reserved
(162)	CHARACTER	2	SITPLTPI	PLT (program initialization)
(164)	CHARACTER	2	SITPLTSD	PLT (shutdown)
(166)	CHARACTER	2	*	Reserved
(168)	CHARACTER	2	SITSRTSF	System recovery table
(16A)	CHARACTER	2	SITTCTSF	Terminal control table
(16C)	CHARACTER	2	SITTSTSF	Temporary storage table
(16E)	CHARACTER	2	SITXLTsf	Transaction list table
(170)	CHARACTER	2	SITMCTSF	Monitor control table
(172)	CHARACTER	2	SITCBDSF	CBD initialization table
DSA sizes, cushion sizes and storage protect parms				
(174)	FULLWORD	4	SITDSA	Upper DSA limit
(178)	FULLWORD	4	SITEDSA	Upper EDSA limit
(17C)	FULLWORD	4	SITCDSA	CDSASZE
(180)	FULLWORD	4	SITUDSA	UDSASZE
(184)	FULLWORD	4	SITSDSA	SDSASZE
(188)	FULLWORD	4	SITRDSA	RDSASZE
(18C)	FULLWORD	4	SITECDSA	ECDSASZE
(190)	FULLWORD	4	SITEUDSA	EUDSASZE
(194)	FULLWORD	4	SITTRDUMAX	Dump table maximum
(198)	FULLWORD	4	SITSYDUMAX	Dump table maximum
(19C)	BITSTRING	1	SITCICSF	Storage protection flags
	1... ....		SITSTPRO	STGPROT 0=NO 1=YES
	.1.. ....		SITCWAKY	CWAKY 0=USER 1=CICS
	..1. ....		SITTCTUA	TCTUAKEY 0=USER 1=CICS
	...1 ....		SITRNTPGM	RENTPGM 0=PROT 1=NOPROT
	.... 1...		SITTRNISO	TRANISO 0=NO 1=YES
	.... .1..		SITCMDPRO	CMDPROT 0=NO 1=YES
The SLD SIT parameter can only be specified as an override. It cannot be specified in the SIT. It is for test only and will be hidden from the customer.				
	.... ..1.		SITSLDYES	SLD? 0=NO 1=YES
	.... ...1		*	Reserved
(19D)	UNSIGNED	1	*	Reserved
NUCLEUS MODULE SUFFICES				
THE FOLLOWING 7 FIELDS ARE USED BY CICS BUT THEY ARE NOT AVAILABLE TO THE USER				
(19E)	CHARACTER	2	SITMCPSF	BMS MCP suffix set by CICS
(1A0)	CHARACTER	2	SITRLRSF	BMS RLR suffix set by CICS
(1A2)	CHARACTER	2	SITBPSF	BMS BPB suffix set by CICS
(1A4)	CHARACTER	2	SITM32SF	BMS M32 suffix set by CICS
(1A6)	CHARACTER	2	SITPPSF	BMS TPP suffix set by CICS
(1A8)	CHARACTER	2	SITIIPSF	BMS IIP suffix set by CICS
(1AA)	CHARACTER	2	SITDSBSF	BMS DSB suffix set by CICS
(1AC)	CHARACTER	2	SITTCPSF	Terminal control pgm (BTAM)
(1AE)	CHARACTER	2	*	Reserved
(1B0)	CHARACTER	2	*	Reserved
(1B2)	CHARACTER	2	*	Reserved
(1B4)	CHARACTER	2	SITDIPSF	Data interchange option/suffix
(1B6)	CHARACTER	2	*	Reserved
(1B8)	CHARACTER	2	SITDL1	DL/I suffix
SIT PARAMETERS FOR ISC				
(1BA)	CHARACTER	2	SITISCSF	General ISC suffix
(1BC)	CHARACTER	2	*	Reserved
(1BE)	CHARACTER	2	*	Reserved
(1C0)	CHARACTER	2	*	Reserved
SIT OPTION FOR EXECUTION INTERFACE				
(1C2)	CHARACTER	2	*	Reserved
(1C4)	CHARACTER	6	*	Reserved
(1CA)	CHARACTER	8	SITTBPX6	TBP exit program 6
(1D2)	CHARACTER	8	SITGRNME	Generic resource applid
(1DA)	CHARACTER	8	SITTBPX1	TBP exit program 1
(1E2)	CHARACTER	8	SITTBPX2	TBP exit program 2
(1EA)	CHARACTER	6	*	Reserved

Offset Hex	Type	Len	Name (Dim)	Description
START-UP OPTIONS				
(1F0)	CHARACTER	1	SITSTRTA	Auto start requested (Y N)
(1F1)	CHARACTER	1	SITSTART	CICS/ESA start-up option
(1F2)	CHARACTER	1	SITIND	Emergency indicator
(1F3)	CHARACTER	1	SITFEPOP	FEPI required Y/N
SITFEPIN CONSTANT('Y') - required SITFEPOU CONSTANT('N') - absent				
(1F4)	CHARACTER	1	SITSINIT	START=INITIAL indicator
SITSINIY CONSTANT('Y') - Yes, qualifies SITSTART=I SITSININ CONSTANT('N') - No				
(1F5)	BITSTRING	1	SITSOFFS	OFFSITE settings:-
	1... ..		SITOFFSI	This is an offsite restart
	.111 1111		*	Reserved
(1F6)	BITSTRING	1	SITDCTOP	DCT EMPTY option status
	1... ..		SITINTRA	DCT=xx,EMPTY specified
	.111 1111		*	Reserved
(1F7)	BITSTRING	1	SITFSSTA	Function ship start option
	1... ..		SITFSSTY	Link affinity required
	.111 1111		*	Reserved
(1F8)	BITSTRING	1	SITCBD	CICS-to-CBD init. option
	1... ..		SITCBDY	initialization requested
	.111 1111		*	reserved
(1F9)	UNSIGNED	1	SITICPOP	Start-up option
(1FA)	UNSIGNED	1	SITTSPOP	Start-up option
(1FB)	CHARACTER	1	SITDBCOP	DBCTL connect required Y N
(1FC)	CHARACTER	1	SITDB2OP	DB2 connect required Y N
(1FD)	UNSIGNED	1	SITBMSOP	Start-up option
(1FE)	CHARACTER	1	SITMQOP	MQ connect required Y N
(1FF)	BITSTRING	1	SITFEAT	Miscellaneous features
	1... ..		SITFEAWB	Web Interface feature
	.1. ....		*	Reserved
	..1. ....		*	Reserved
	...1 ....		*	Reserved
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		*	Reserved
	.... ...1		*	Reserved
(200)	UNSIGNED	1	SITPSOPT	System spooling option
(201)	CHARACTER	1	SITPSID	Special feature ident.
(202)	CHARACTER	1	SITPSCLS	Special feature class.
(203)	CHARACTER	4	SITGMNM	Good Morning Transaction
(207)	CHARACTER	4	SITGNITE	Good Night Transaction
(20B)	CHARACTER	1	*	Reserved
MAXIMUM TASK COUNTS				
(20C)	HALFWORD	2	SITMXOTS	Max Open TCBs limit
(20E)	HALFWORD	2	SITMXTSK	Max task count, packed decimal *
SHUTDOWN ASSIST TRANSACTION				
(210)	CHARACTER	4	SITSDTRN	SHUT DOWN TRANSACTION
(214)	CHARACTER	8	SITNCPLD	NAMED COUNTER POOL DEFAULT
(21C)	CHARACTER	8	SITCODPG	Default document codepage
VALUES FROM OLD DFHTCT TYPE=INITIAL MACRO				
(224)	ADDRESS	4	SITGMTAD	Address of good morning message
(228)	CHARACTER	4	SITSYSID	Local system entry name
(22C)	HALFWORD	2	SITRAPL	VTAM receive any RPL count
(22E)	HALFWORD	2	SITRAMAX	Max i/o area for receive any's
(230)	HALFWORD	2	SITOPNDL	Max opndst/clsdst count
(232)	BITSTRING	1	SITACMTH	Access Method flags
	1... ..		SITVTAM	VTAM=YES
	.1. ....		SITLGNMS	LOGONMSG=YES
	..1. ....		*	Reserved
	...1 ....		*	Reserved
	.... 1...		SITTCPIP	TCPIP=YES
	.... .1..		*	Reserved
	.... ..1.		*	Reserved
	.... ...1		*	Reserved
(233)	BITSTRING	1	SITRESP	Logical Unit Response type
	1... ..		SITFME	Function management end
	.1. ....		SITRRN	Reached recovery node
	..1. ....		*	Reserved
	...1 ....		*	Reserved
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		*	Reserved
	.... ...1		*	Reserved
SINGLE KEY RETRIEVAL TABLE				
(234)	CHARACTER	624	SITSKRTB	39key x 16byte SKR cmd table

Offset Hex	Type	Len	Name (Dim)	Description
FURTHER MISCELLANEOUS SIZES AND COUNTERS				
(4A4)	HALFWORD	2	SITDBNO	No. of buffers for I/P TD
(4A6)	HALFWORD	2	SITDSNO	No. of strings for I/P TD
(4A8)	HALFWORD	2	SITTSBNO	No. of buffers for aux TS
(4AA)	HALFWORD	2	SITSSNO	No. of strings for aux TS
(4AC)	FULLWORD	4	SITVMXWE	Max # autoinstall WE's
(4B0)	CHARACTER	8	SITVAXIT	Autoinstall user-program name
(4B8)	CHARACTER	8	SITTBPX3	TBP exit program 3
(4C0)	CHARACTER	8	SITTBPX4	TBP exit program 4
(4C8)	CHARACTER	8	SITTBPX5	TBP Exit Program 5
(4D0)	CHARACTER	8	SITUOWNQ	UOW network qual (VTAM=NO)
(4D8)	CHARACTER	1	SITVAICN	Console autol (YES NO AUTO)
(4D9)	CHARACTER	3	*	RESERVED
XRF - DEFINITIONS FOR ACTIVE AND BACKUP				
(4DC)	CHARACTER	1	SITXRFFN	XRF function
(4DD)	CHARACTER	1	SITXRSNS	CICS (XRF) signon state
(4DE)	CHARACTER	8	SITGAPLD	Generic applid
(4E6)	CHARACTER	8	SITSAPLD	Specific applid
XRF - DEFINITIONS FOR ACTIVE				
(4EE)	HALFWORD	2	*	Reserved
(4F0)	FULLWORD	4	SITPDI	Action delay interval
XRF - DEFINITIONS FOR BACKUP				
(4F4)	CHARACTER	1	SITTAKE	Takeovr option
(4F5)	CHARACTER	8	SITCLT	Command list table
(4F5)	CHARACTER	6	*	- prefix
(4FB)	CHARACTER	2	SITCLTSF	- suffix
(4FD)	CHARACTER	3	*	Reserved
(500)	FULLWORD	4	SITADI	Action delay interval
(504)	FULLWORD	4	SITJDI	JES delay interval
(508)	CHARACTER	4	SITRMTRN	Recovery transaction
XRF - DEFINITIONS FOR BOTH AND XRF=NO				
(50C)	FULLWORD	4	SITACOND	Autoconnect delay
RESERVED FOR RESTRUCTURE				
(510)	BITSTRING	1	SITPMERR	Initialization parameter errors
	1... ..		SITPMACT	...interact with the console op
	.1.. ..		SITPMIGN	...ignore them
	..1. ....		SITPMABN	...abend CICS on errors
	...1 ....		*	Reserved
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		*	Reserved
	.... ...1		*	Reserved
(511)	BITSTRING	1	SITNEW	NEWSIT= override?
	1... ..		SITNEWY	...yes
	.1.. ..		*	Reserved
	..1. ....		*	Reserved
	...1 ....		*	Reserved
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		*	Reserved
	.... ...1		*	Reserved
(512)	BITSTRING	1	SITXSIGN	XRF sign-on byte
	1... ..		SITXSFR	Force sign-on requested
	.1.. ..		*	Reserved
	..1. ....		*	Reserved
	...1 ....		*	Reserved
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		*	Reserved
	.... ...1		*	Reserved
(513)	BITSTRING	1	SITMISC	Miscellaneous bits
	1... ..		SITRAPLF	RAPOOL FORCE specified
(514)	FULLWORD	4	*	Reserved
(518)	FULLWORD	4	*	Reserved
(51C)	CHARACTER	8	SITAXI	AXI table
(51C)	CHARACTER	6	*	- prefix (DFHAXI or blanks)
(522)	CHARACTER	2	SITAXISF	- suffix
(524)	CHARACTER	8	SITDRPGN	Dynamic Routing Program
(52C)	HALFWORD	2	SITHRAPL	HPO rapool value
(52E)	HALFWORD	2	SITXSFI	XRF signoff timeout in mins
(530)	CHARACTER	4	SITRTRN2	XRF signed-on transaction
(534)	CHARACTER	4	SITDRTRN	Dynamic Routing Transaction *
SIT OVERRIDE EXISTENCE BITS - one per SIT field				
(538)	CHARACTER	32	SIT_EXISTENCE_BITS	
(538)	BITSTRING	1	*	
	1... ..		SITOPSYS_X	Operating system level

Offset Hex	Type	Len	Name (Dim)	Description
	.1.. ....		SITOPREL_X	Operating system release
	.1.. ....		SITCICS_X	CICS system
	...1 ....		SITCIREL_X	CICS release
	.... 1...		SITLEN_X	SIT length
	.... .1..		SITCWA_X	WRKAREA= existence bit
	.... .1..		DFHDLX_X	Addr of DL/I link list
	.... ...1		DFHAPT_X	Reserved
(539)	BITSTRING	1	*	
	1... ....		SITCOMA_X	Communications area addr
	.1.. ....		SITOVPRM_X	Addr of override para
	.1.. ....		*	Reserved
	...1 ....		SITSRPAE_X	Reserved
	.... 1...		SITPRVMA_X	PRVMOD= existence bit
	.... .1..		SITICVAL_X	ICV= existence bit
	.... .1..		SITRICVL_X	ICVR= existence bit
	.... ...1		SITDFINT_X	Reserved for LGDFINT= bit
(53A)	BITSTRING	1	*	
	1... ....		SITSDTI_X	ICVTSD= existence bit
	.1.. ....		SITFTIMO_X	FTIMEOUT= existence bit
	.1.. ....		SITQTIMO_X	QUIESTIM= existence bit
	...1 ....		SITSYDUMAX_X	SYDUMAX= existence bit
	.... 1...		SITTRDUMAX_X	TRDUMAX= existence bit
	.... .1..		SITTRTSZ_X	TRTABSZ= existence bit
	.... .1..		*	Reserved
	.... ...1		SITAKPFR_X	AKPFREQ= existence bit
(53B)	BITSTRING	1	*	
	1... ....		SITDBLBL_X	DBP= existence bit
	.1.. ....		SITSRVCVY_X	STGRVCVY= existence bit
	.1.. ....		*	Reserved
	...1 ....		SITPSDL_X	PSDL= existence bit
	.... 1...		*	Reserved
	.... .1..		SITSTG_X	
	.... .1..		SITSVSNO_X	SVC= existence bit
	.... ...1		SITSISNO_X	SRBSVC= existence bit
(53C)	BITSTRING	1	*	
	1... ....		SITFLDSP_X	FLDSEP= existence bit
	.1.. ....		SITSTR_X	SYSTR= existence bit
	.1.. ....		SITUTR_X	USERTR= existence bit
	...1 ....		SITITR_X	INTTR= existence bit
	.... 1...		SITGTR_X	GTFTTR= existence bit
	.... .1..		SITATR_X	AUXTR= existence bit
	.... .1..		SITASW_X	AUXTRSW= existence bit
	.... ...1		*	Reserved
(53D)	BITSTRING	1	*	
	1... ....		SITSDUMP_X	DUMP existence bits
	.1.. ....		SITDMPDS_X	DUMP= existence bit
	.1.. ....		SITDMPRT_X	DUMPDS= existence bit
	...1 ....		SITDMPSW_X	DURETRY= existence bit
	.... 1...		SITMSGCS_X	DUMPDSW= existence bit
	.... .1..		SITGRNME_X	MSGCASE= existence bit
	.... .1..		SITDAE_X	GRNAME= existence bit
	.... ...1		*	DAE= existence bit
	.... ...1		*	Reserved
(53E)	BITSTRING	1	*	
	1... ....		SITPRINT_X	PRINT= existence bit
	.1.. ....		SITMSGLV_X	MSGGLVL= existence bit
	.1.. ....		SITPL1_X	
	...1 ....		SITRUWPL_X	RUWAPOOL existence
	.... 1...		SITDTYMD_X	DATFORM=YMMDD existence
	.... .1..		SITDTDMY_X	DATFORM=DDMMYY existence
	.... .1..		SITDTMDY_X	DATFORM=MMDDYY existence
	.... ...1		SITVSPL1_X	
(53F)	BITSTRING	1	*	
	1... ....		SITIRCS_X	IRC= existence bit
	.1.. ....		SITHPO_X	HPO= existence bit
	.1.. ....		SITLPA_X	LPA= existence bit
	...1 ....		SITCBD_X	CBD= existence bit
	.... 1...		SITEODL_X	EODL= existence bit
	.... .1..		SITTCAMO_X	TCAM= existence bit
	.... .1..		SITCBDSF_X	CBDSUFFX= existence bit
	.... ...1		SITTRAPO_X	TRAP= existence bit
(540)	BITSTRING	1	*	
	1... ....		SITMONY_X	MN= existence bit
	.1.. ....		SITMONPR_X	MNPER= existence bit
	.1.. ....		SITMONEX_X	MNEXC= existence bit
	...1 ....		SITMONEV_X	MNEVE= existence bit
	.... 1...		SITGRPLI_X	GRPLIST= existence bit
	.... .1..		SITPGCPY_X	PGCOPY= existence bit
	.... .1..		SITPGPRG_X	PGPURGE= existence bit
	.... ...1		SITPGRET_X	PGRET= existence bit
(541)	BITSTRING	1	*	
	1... ....		SITFCOMP_X	
	.1.. ....		SITPRGD_X	PRGDLAY= existence bit
	.1.. ....		SITALGN_X	ALIGN= existence bit
	...1 ....		SITNDDS_X	NODDS= existence bit
	.... 1...		SITMCTSF_X	MCT= existence bit
(542)	BITSTRING	1	*	

Offset Hex	Type	Len	Name (Dim)	Description
	1... ..		SITCDSA_X	CDSASZE existence bit
	.1. ....		SITUDSA_X	UDSASZE existence bit
	..1. ....		SITSDSA_X	SDSASZE existence bit
	...1 ....		SITRDSA_X	RDSASZE existence bit
	.... 1...		SITECDSA_X	ECDSASZE existence bit
	.... .1.		SITEUDSA_X	EUDSASZE existence bit
	.... ..1.		SITESDSA_X	ESDSASZE existence bit
	.... ...1		SITERDSA_X	ERDSASZE existence bit
(543)	CHARACTER	1	*	Reserved *
(544)	FULLWORD	4	*	Reserved
(548)	BITSTRING	1	*	Reserved
	1... ....		SITSTRTA_X	Reserved
	.1. ....		*	Reserved
	..1. ....		SITSTART_X	START= existence bit
	...1 ....		SITIND_X	
	.... 1...		SITTCTOP_X	TCT startup option
	.... .1.		SITDCTOP_X	DCT startup option
	.... ..1.		*	Reserved
(549)	BITSTRING	1	*	
	1... ....		SITPPTOP_X	PPT startup option
	.1. ....		SITPCTOP_X	PCT startup option
	..1. ....		SITCSAOP_X	CSA startup option
	...1 ....		SITICPOP_X	ICP startup option
	.... 1...		SITTSPOP_X	TSP startup option
	.... .1.		*	Reserved
	.... ..1.		SITBMSOP_X	BMS startup option
	.... ...1		*	Reserved
(54A)	BITSTRING	1	*	
	1... ....		*	Reserved
	.1. ....		*	Reserved
	..1. ....		*	Reserved
	...1 ....		*	Reserved
	.... 1...		*	Reserved
	.... .1.		SITPMULT_X	PYTRAGE= existence bit
	.... ..1.		SITSBTSK_X	SUBTSKS= existence bit
	.... ...1		SITGMNM_X	GMTRAN= existence bit
(54B)	BITSTRING	1	*	
	1... ....		*	Reserved (wbhttp not needed@QIC
	.1. ....		SITMXTSK_X	MXT= existence bits
	..1. ....		SITWBTP_X	WEBDELAY(1) existence bit
	...1 ....		SITWBGCL_X	WEBDELAY(2) existence bit
	.... 1...		SITFEAT1_X	Miscellaneous feature 1
	.... .1.		SITFEAT2_X	Miscellaneous feature 2
	.... ..1.		SITFEAT3_X	Miscellaneous feature 3
	.... ...1		SITFEAT4_X	Miscellaneous feature 4
(54C)	BITSTRING	1	*	
	1... ....		SITFEAT5_X	Miscellaneous feature 5
	.1. ....		SITFEAT6_X	Miscellaneous feature 6
	..1. ....		SITFEAT7_X	Miscellaneous feature 7
	...1 ....		SITFEAT8_X	Miscellaneous feature 8
	.... 1...		SITGMTAD_X	CSECT address
	.... .1.		SITSYSID_X	SYSIDNT= existence bit
	.... ..1.		SITRAPL_X	RAPOOL= existence bit
	.... ...1		SITHRAPL_X	HPO RAPOOL= existence bit
(54D)	BITSTRING	1	*	
	1... ....		SITOPNDL_X	OPNDLIM= existence bit
	.1. ....		SITVTAM_X	VTAM= existence bit
	..1. ....		SITLGNMS_X	LGNMSG= existence bit
	...1 ....		SITSKRTB_X	SKRxxx= existence bit
	.... 1...		SITDBNO_X	TD= existence bit 1st
	.... .1.		SITDSSNO_X	TD= existence bit 2nd
	.... ..1.		SITTSBNO_X	TS= existence bit buffers
	.... ...1		SITSSNO_X	TS= existence bit start
(54E)	BITSTRING	1	*	
	1... ....		SITVMXWE_X	AIQMAX= existence bit
	.1. ....		SITVAXIT_X	AIXIT= existence bit
	..1. ....		SITRAPLF_X	RAPOOL FORCE existence
	...1 ....		*	Reserved
	.... 1...		*	Reserved
	.... .1.		SITUOWNQ_X	UOWNETQL existence bit
	.... ..1.		SITXRFFN_X	XRF= existence bit
	.... ...1		SITXRSNS_X	
(54F)	BITSTRING	1	*	
	1... ....		SITGAPLD_X	APPLID= existence 1st
	.1. ....		SITSAPLD_X	APPLID= existence 2nd
	..1. ....		SITPDI_X	PDI= existence bit
	...1 ....		SITTAKE_X	TAKEOVR= existence bit
	.... 1...		SITCLT_X	CLT= existence bit
	.... .1.		SITCLTSF_X	CLT= existence bit
	.... ..1.		SITADI_X	ADI= existence bit
	.... ...1		SITJDI_X	JESDI= existence bit
(550)	BITSTRING	1	*	
	1... ....		SITRMTRN_X	RMTRAN= existence bit
	.1. ....		SITPMERR_X	PARMERR= existence bit
	..1. ....		SITNEW_X	NEWSIT= existence bit

Offset Hex	Type	Len	Name (Dim)	Description
	.... 1...		SITDSRPM_X	DSRTPGM= existence bit
	.... 1..		SITTRNTY_X	TRTRANTY = existence bit
	.... .1..		SITTRNSZ_X	TRTRANSZ = existence bit
	.... ..1.		SITAXI_X	RST= existence bit
	.... ...1		SITLANGS_X	NATLANG= existence bit
(551)	BITSTRING	1	*	
	1... ....		SITGTRST_X	STNTR= existence bit stan
	.1.. ....		SITGTRSP_X	STNTR= existence bit spec
	..1. ....		SITMROB_X	MRO BATCHING PARAMETER
	...1 ....		SITTCUA_X	TCTUALOC existence bit
	.... 1...		SITINIT_X	INITPARM existence bit
	.... ..1.		SITDISM_X	DISMACP existence bit
	.... ...1		SITSTRCD_X	STATRCD existence bit
	.... ...1		SITUDTIM_X	UDTIM existence bit
(552)	BITSTRING	1	*	
	1... ....		SITLUIT_X	LUITIME existence bit
	.1.. ....		SITDSA_X	DSALIM existence bit
	..1. ....		SITEDSA_X	EDSALIM existence bit
	...1 ....		SITLLACP_X	LLACOPY existence bit
	.... 1...		SITSLD_X	SLD existence flag
	.... ..1.		SITGRPL2_X	GRPLIST = existence bit 2
	.... ...1		SITGRPL3_X	GRPLIST = existence bit 3
	.... ...1		SITGRPL4_X	GRPLIST = existence bit 4
(553)	BITSTRING	1	*	
	1... ....		SITREMDL_X	Remote delete idle
	.1.. ....		SITREMDI_X	Remote delete interval
	..1. ....		SITCMDPRO_X	CMDPROT existence
	...1 ....		SITTCUAKY_X	TCTUAKY existence
	.... 1...		SITCWAKY_X	CWAKEY existence
	.... ..1.		SITSTPRO_X	STORPROT existence
	.... ...1		SITRNTPGM_X	RENTPGM existence
	.... ...1		SITTRNISO_X	TRANISO existence
(554)	BITSTRING	1	*	
	1... ....		SITMONCO_X	Converse monitoring exist
	.1.. ....		SITMONSY_X	Syncpoint monitoring exist
	..1. ....		SITMONTM_X	MNTIME exists
	...1 ....		SITMONFR_X	Frequency monitoring exist
	.... 1...		SITMONSS_X	sub-system id exists
	.... ..1.		SITAPGM_X	PG autoinstall state
	.... ...1		SITACTG_X	PG autoinstall catalog
	.... ...1		SITAPXT_X	PG autoinstall exit
(555)	BITSTRING	1	*	
	1... ....		SITFRCQR_X	FORCEQR override coded
	.1.. ....		SITMXOTS_X	MAXOPENTCBS override coded
(556)	BITSTRING	1	*	Reserved
(557)	BITSTRING	1	*	Reserved

The following table defines 64 Trace Selectivity Bits for standard trace. There is one bit for each domain.

(558)	BITSTRING	8	SITTRXST	Standard Trace Existence
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The following table defines 64 Trace Selectivity Bits for special trace. There is one bit for each domain.

(560)	BITSTRING	8	SITTRXSP	Special Trace Existence
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## TRACE SELECTIVITY TABLE

(568)	CHARACTER	512	SITTRSTB	Beginning of table
(568)	BITSTRING	4	SITTRSTN (64)	Standard trace flags
(668)	BITSTRING	4	SITTRSPC (64)	Special trace flags

## NATIONAL LANGUAGES LIST

(768)	CHARACTER	36	SITLANGS	National Languages list
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## CSD PARAMETERS

(78C)	CHARACTER	44	SITCSDSN	CSDDSN ie 44 char DSNAME
(7B8)	FULLWORD	4	SITCSDST	CSDSTRNO
(7BC)	FULLWORD	4	SITCSDBI	CSDBUFNI
(7C0)	FULLWORD	4	SITCSDBD	CSDBUFND
(7C4)	HALFWORD	2	SITCSDLS	CSDLSRNO
(7C6)	HALFWORD	2	SITCSDJI	CSDJID
(7C8)	HALFWORD	2	SITCSDFR	CSDFRLOG
(7CA)	BITSTRING	1	SITCSDRC	CSDRECOV

(7CB)	BITSTRING	1	SITCSIMG	CSDIMAGE
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(7CC)	BITSTRING	1	SITCSDAC	CSDACC
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(7CD)	BITSTRING	1	SITCSDIS	CSDDISP
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(7CE)	BITSTRING	1	*	RLS flags
	1... ....		SITCSRLS	CSD uses RLS
	.1.. ....		SITCSNRI	Integrity=uncommitted
	..1. ....		SITCSCR	Integrity=consistent
	...1 ....		SITCSRR	Integrity=repeatable
	.... 1111		*	Reserved
(7CF)	BITSTRING	1	SITVRLS	RLS settings

Offset Hex	Type	Len	Name (Dim)	Description
	1... ..		SITRLS	RLS enabled for this CICS
	.1.. ....		SITRTOL	RLS files in pool build
	..11 1111		*	Reserved
AIDELAY KEYWORD				
(7D0)	CHARACTER	4	SITDDL	AIDELAY DELETE DELAY TIME
CLSDSTP KEYWORD				
(7D4)	CHARACTER	1	SITCLSP	CLSDST NOTIFY/NONOTIFY
LLACOPY KEYWORD				
(7D5)	BITSTRING	1	SITLLACP	LLACOPY OPTION
	1... ..		SITLLAY	LLACOPY=YES
	.1.. ....		SITLLAN	LLACOPY=NO
	..1. ....		SITLLANC	LLACOPY=NEWCOPY
PGAIPGM KEYWORD				
(7D6)	CHARACTER	1	SITAPGM	PG autoinstall state
PGAICTLG KEYWORD				
(7D7)	CHARACTER	1	SITACTG	PG autoinstall catalog
PGAEXIT KEYWORD				
(7D8)	CHARACTER	8	SITAPXT	PG autoinstall exit
Extended GRPLIST parameter				
(7E0)	CHARACTER	8	SITGRPL2	SPI grouplist 2
(7E8)	CHARACTER	8	SITGRPL3	SPI grouplist 3
(7F0)	CHARACTER	8	SITGRPL4	SPI grouplist 4
Terminal idle keyword				
(7F8)	UNSIGNED	4	SITREMDL	Remote delete idle
Interval keyword				
(7FC)	CHARACTER	4	SITREMDI	Remote delete interval
RLS Section of SIT				
(800)	UNSIGNED	2	SITFTIMO	RLS timeout
(802)	UNSIGNED	2	SITQTIMO	RLS quiesce timeout
Distributed routing program				
(804)	CHARACTER	8	SITDSPGN	Distributed routing pgm
SECURE SOCKETS LAYER parameters				
(80C)	UNSIGNED	4	SITSSLTI	SSL V3 timeout value
(810)	CHARACTER	48	SITSSKYF	SSL Keyfile
(840)	CHARACTER	16	SITSSKYQ	SSL Keyfile qualifier
(850)	CHARACTER		DFHSITEA	End of table label

TRACE SELECTIVITY TABLE REDEFINED

Offset Hex	Type	Len	Name (Dim)	Description
(568)	STRUCTURE	256	SITRSTA	Redefine the table
(568)	BITSTRING	4	SITTRST1 (15)	Standard trace flags for first 15 domains
(5A4)	BITSTRING	4	SITAPSTN	AP Standard trace flags
(5A8)	BITSTRING	4	SITRMSTN	RM Standard trace flags
(5AC)	BITSTRING	4	SITA2STN	A2 Standard trace flags
(5B0)	BITSTRING	4	SITTRST2 (8)	Standard trace flags for next 8 domains
(5D0)	BITSTRING	24	*	for future domains
(5E8)	BITSTRING	4	SITTRSP1 (15)	Special trace flags for first 15 domains
(624)	BITSTRING	4	SITAPSPC	AP Special trace flags
(628)	BITSTRING	4	SITRMSPC	RM Special trace flags
(62C)	BITSTRING	4	SITA2SPC	AP Special trace flags
(630)	BITSTRING	4	SITTRSP2 (8)	Special trace flags for next 8 domains
(650)	BITSTRING	24	*	for future domains

DL/I EXTENSION OF SIT

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	DFHLISTA	
(0)	BITSTRING	1	DLIFLG	Flag value
	1... ..		*	Reserved
	.1.. ....		*	Reserved
	..1. ....		*	Reserved

Offset Hex	Type	Len	Name (Dim)	Description
	....1 ....		*	Reserved
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		DLIPSBCK	PSB checking required
	.... ...1		*	Reserved
(1)	BITSTRING	1	*	Reserved
(2)	CHARACTER	2	DLPDIRSF	PDIR suffix

GOOD MORNING MESSAGE

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	248	DFHGMMS	
(0)	HALFWORD	2	SITGMTXL	Message length
(2)	CHARACTER	246	SITGMTXT	
(2)	CHARACTER	13	*	Message number
(F)	CHARACTER	19	*	Default message
(22)	CHARACTER	5	*	Trailer
(27)	CHARACTER	209	*	Filler
(F8)	CHARACTER		SITGMTXE	Message end

INITPARM chain structure

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	SITINIT	
(0)	ADDRESS	4	INITCPTR	PTR to next entry on chain
(4)	CHARACTER	8	INITPGMID	The INIT program ID name
(C)	UNSIGNED	1	INITPSLEN	The INIT Parm String length
(D)	CHARACTER	*	INITPSTRG	The INIT Parm String

PRVMOD list

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	DFHPRVMOD	
(0)	FULLWORD	4	SITPRVML	List length
(4)	FULLWORD	4	SITPRVMN	Number of modules
(8)	CHARACTER	*	SITPRVMNAME	Module names are here

Start-up indicators in SITICPOP, SITSPOP and SITBMSOP

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	1	SITSTOPT	
	1... ....		WARMST	Warm start
	.1.. ....		COLDST	Cold start
	..1. ....		*	
	...1 ....		COLDEX	Cold execution
	.... 1...		*	
	.... .1..		EMEREX	Emergency start
	.... ..11		*	



## Constants

Len	Type	Value	Name	Description
1	CHARACTER	B	SITTCUAB	Below
1	CHARACTER	A	SITTCUAA	Any
Operating System Constants. SITOPSYS				
1	CHARACTER	X	SITMVX	MVS/XA
Release Level Constants. SITOPREL The list of constants below is not exhaustive. Other possible values for OPREL are similarly constructed from the official product name of the control program.				
1	HEX	11	SITE11	DOS/VSE release 1.1
1	HEX	12	SITE12	DOS/VSE release 1.2
1	HEX	13	SITE13	DOS/VSE release 1.3
1	HEX	37	SITM37	OS/MVS release 3.7
1	HEX	38	SITM38	OS/MVS release 3.8
1	HEX	17	SITX17	MVS/XA release 2.1.7
1	HEX	20	SITX20	MVS/XA release 2.2.0
1	HEX	21	SITX21	MVS/XA release 2.2.1
1	HEX	10	SITE10	MVS/ESA release 3.1.0
1	HEX	22	SITE22	MVS/ESA release 4.2.2
CICS System Constants. SITCICS				
1	CHARACTER	E	SITELS	Reserved
1	CHARACTER	F	SITFULL	Full CICS
CICS Release Constants. SITCIREL				
1	HEX	14	SITC14	Vers.1, release 4
1	HEX	15	SITC15	Vers.1, release 5
1	HEX	16	SITC16	Vers.1, release 6
1	HEX	17	SITC17	Vers.1, release 7
1	HEX	21	SITC21	Vers.2, release 1
1	HEX	31	SITC31	Vers.3, release 1
1	HEX	32	SITC32	Vers.3, release 2
1	HEX	33	SITC33	Vers.3, release 3
1	HEX	41	SITC41	Vers.4, release 1
1	HEX	51	SITC51	Vers.5, release 1
1	HEX	52	SITC52	Vers.5, release 2
1	HEX	53	SITC53	Vers.5, release 3
CICS Modification Level constants. SITCIMOD				
1	HEX	00	SITMOD00	Mod level 0
1	HEX	01	SITMOD01	Mod level 1
1	HEX	02	SITMOD02	Mod level 2
1	HEX	03	SITMOD03	Mod level 3
Spooler Control Constants. SITPSOPT				
1	HEX	80	YSPOOL	Spooling = yes
1	HEX	00	NSPOOL	Spooling = no
XRF Function and Sign on state Constants. SITXRFFN and SITXRSNS				
1	CHARACTER	Y	SITXRFY	XRF Function enabled
1	CHARACTER	N	SITXRFN	XRF Function Disabled
1	CHARACTER	N	SITXRNO	Not signed on
1	CHARACTER	A	SITXRACT	Signed on as active
1	CHARACTER	B	SITXRALT	Signed on as alternate
XRF Takeover Constants. SITTAKE				
1	CHARACTER	A	SITTAKEA	Auto takeover
1	CHARACTER	C	SITTAKEC	Command takeover
1	CHARACTER	M	SITTAKEM	Manual takeover
CSD Constants for SITCSDRC, SITCSDAC and SITCSDIS				
1	HEX	80	SITCSRCA	All
1	HEX	40	SITCSRCA	None
1	HEX	20	SITCSRCA	Backout only
1	HEX	00	SITCSSHA	Static
1	HEX	80	SITCSFUZ	Dynamic
1	HEX	80	SITCSDRO	Read only
1	HEX	40	SITCSDRW	Read Write
1	HEX	80	SITCSDSH	Shr
1	HEX	40	SITCSDOL	Old
Front-End Programming Interface Constants for SITFEPOP				
1	CHARACTER	Y	SITFEPIN	FEPI required
1	CHARACTER	N	SITFEPOU	FEPI absent
Constants for SITSINIT (START=INITIAL). SITSINIT qualifies a SITSTART='I' denoting whether its a cold start or an initial start.				
1	CHARACTER	Y	SITSINIY	Start=initial
1	CHARACTER	N	SITSININ	Not start=initial
DBCTL connect required constants for SITDBCOP				

Len	Type	Value	Name	Description
1	CHARACTER	Y	SITDBCTY	required
1	CHARACTER	N	SITDBCTN	not required
DB2 connect required constants for SITDB2OP				
1	CHARACTER	Y	SITDB2Y	required
1	CHARACTER	N	SITDB2N	not required
MQ connect required constants for SITMQOP				
1	CHARACTER	Y	SITMQY	required
1	CHARACTER	N	SITMQN	not required
SECURITY CONSTANTS FOR SITSSCOPE				
1	DECIMAL	1	SITSNS_N	SIGNON SCOPE=NONE
1	DECIMAL	2	SITSNS_C	SIGNON SCOPE=CICS
1	DECIMAL	3	SITSNS_M	SIGNON SCOPE=MVSIMAGE *
1	DECIMAL	4	SITSNS_S	SIGNON SCOPE=SYSPLEX
PROGRAM MANAGER CONSTANTS				
1	CHARACTER	I	SITAPGMI	INACTIVE
1	CHARACTER	A	SITAPGMA	ACTIVE
1	CHARACTER	M	SITACTGM	MODIFY
1	CHARACTER	N	SITACTGN	NONE
1	CHARACTER	A	SITACTGA	ALL

## SKA Skp subtask control area

CONTROL BLOCK NAME = DFHSKAPS  
 DESCRIPTIVE NAME = CICS (SKP) Subtask Control Area.  
 FUNCTION =  
 Describe 'per-subtask' storage definition.  
 DFHSKAPS belong to the General Purpose Subtasking facility of CICS.  
 Each instance of this control block describes the state of one subtask.  
 LIFETIME =  
 That of CICS static storage.  
 STORAGE CLASS = CICS static storage.  
 LOCATION =  
 Located in the static storage for module DFHSKP.  
 INNER CONTROL BLOCKS = None.  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None.  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None.  
 DATA AREAS = None.  
 CONTROL BLOCKS = None.  
 GLOBAL VARIABLES (Macro pass) = None.  
 SUBTASK CONTROL AREA

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	176	DFHSKAPS	Subtask control area
SKASKENA contains the entry point of DFHSKE - the subtask executor. This field must remain at the start of DFHSKAPS. It is set by SKC and referenced by SIP on MVS, and by SKC on DOS.				
(0)	ADDRESS	4	SKASKENA	DFHSKENA entry point
SKASTGP contains the address of automatic storage to be used by SKE.				
(4)	ADDRESS	4	SKASTGP	add of subtask auto storage
SKAQUES contain the WQE queues for the subtask. SKAWORKQ contains WQEs as yet unprocessed by the subtask. SKAPROGQ contains WQEs currently being processed. SKAWAITQ contains WQEs that have issued a DFHSK CTYPE= WAIT macro.				
(8)	CHARACTER	12	SKAQUES	WQE queues for subtask
(8)	ADDRESS	4	SKAWORKQ	work
(C)	ADDRESS	4	SKAPROGQ	in_progress
(10)	ADDRESS	4	SKAWAITQ	waiting
SKAINWQE contains the address of the WQE currently being processed by SKE.				
(14)	ADDRESS	4	SKAINWQE	WQE being processed

Offset Hex	Type	Len	Name (Dim)	Description
				SKAEWRK is the work ECB for the subtask. It is posted by SKM when it adds a WQE onto the work queue. When SKE has no work to do, it waits on this ECB.
(18)	UNSIGNED	4	SKAEWRK	work ECB for subtask
				SKASCOMP is the subtask completion ECB. It is waited on by SKC, and is posted by the operating system when the subtask terminates.
(1C)	CHARACTER	4	SKASCOMP	subtask completion ECB
				SKADTECB is posted by SKC when either it DETACHes the subtask(MVS) or the subtask DETACHes itself(DOS). SKM, processing a DFHSK CTYPE=TERMINATE waits for subtasks to go away, before allowing DFHSTP to continue.
(20)	UNSIGNED	4	SKADTECB	MVS DETACH issued for subtask
				SKAINECB is an ECB that is posted by the subtask to indicate it has been attached. SKC waits for this to be posted before assuming the subtask is running.
(24)	UNSIGNED	4	SKAINECB	ECB for sub initialisation
				SKASRETC contains the completion code of the subtask and is used to indicate to SKC the type of completion.
(28)	UNSIGNED	1	SKASRETC	subtask completion code
				SKAESFCD contains the completion code of an ESTAE or STXIT AB macro if not zero. SKC examines this field and outputs it in a message if the exit macro failed in the subtask.
(29)	UNSIGNED	1	SKAESFCD	ESTAE/STXIT failure code
				SKAFAILS is a count of failures that occur when SKE code is executing (not SK exit code). It is set and referenced by SKE.
(2A)	HALFWORD	2	SKAFAIL	count of our code failures
				SKAFLAG1 IS A FLAG BYTE. UPDATED BY DFHSC ONLY
(2C)	BITSTRING	1	SKAFLAG1	flags - TRUE means..
				SKAFLAG1 HAS BEEN SPLIT OVER FLAG1,2 AND 3 TO OVERCOME MULTIPLE PROCESSORS UPDATING SHARED STORAGE CONCURRENTLY. Following 5 flags are spare.
			1... .... *	moved to FLAG2
			.1.. .... *	moved to FLAG2
			..1. .... *	moved to FLAG2
			...1 .... *	moved to FLAG3
			.... 1...	reserved
				SKASINIT indicates that this subtask has been initialised and is running.
			.... .1.. SKASINIT	subtask is initialised
				Following flag is spare.
			.... ..1. *	moved to FLAG2
				SKASDEAD indicates the subtask has encountered an error preventing further execution. It is set by SKC and referenced by SKM.
			.... ...1 SKASDEAD	subtask is dead
				SKAFLAG2 IS A FLAG BYTE UPDATED BY DFHSKE ONLY
(2D)	BITSTRING	1	SKAFLAG2	FLAGS - TRUE MEANS..
				SKARGPSW indicates the presence of the regs and PSW at the time of failure in DFHSKAPS. It is set by the SKE exit code, and tested thereafter in SKE mainline code.
			1... .... SKARGPSW	regs&psw are in SKA
				SKAABCP indicates the presence of the operating system abend code in DFHSKAPS.
			.1.. .... SKAABCP	abend code is in SKA
				SKARUNNG is set by SKE on entry, and turned off on exit from SKE. SKC references this field to see if the subtask was running when it terminated.
			..1. .... SKARUNNG	subtask running
				Following 3 flags are spare.
			...1 11.. *	spare flags

Offset Hex	Type	Len	Name (Dim)	Description
SKAUSCOD indicates this subtask is currently executing an SK exit routine.				
.... ..1.			SKAUSCOD	user code in progress
Following flag is spare.				
.... ...1			*	spare flag
SKAFLAG3 IS A FLAG BYTE UPDATED BY DFHSKM ONLY				
(2E)	BITSTRING	1	SKAFLAG3	FLAGS - TRUE MEANS..
Following 3 flags are spare.				
111. ....			*	spare flags
SKAQUIES is set by SKM to indicate that the subtask should terminate processing.				
...1 ....			SKAQUIES	quiesce requested
Following 4 flags are spare.				
.... 1111			*	spare flags
SKAMWLST is a list of pointers used for an operating system multiple wait. It is used by DFHSKE. On MVS the list is terminated by the top bit in the last ECB ptr being on, and on DOS the byte after the last ECB ptr is non-zero ('FF'X).				
(30)	ADDRESS	4	SKAMWLST (6)	multiple WAIT list
(30)	CHARACTER	1	SKAMFB	first byte of each address
1... ....			SKAMEOL	first bit thereof
SKASAV13 is set by SKE on entry to point to the MVS save area.				
(48)	UNSIGNED	4	SKASAV13	ADDR(MVS save area)
SKAPICA is an MVS Program Interrupt Control Area used by SKE.				
(4C)	UNSIGNED	4	SKAPICA (4)	subtask MVS PICA (ESPIE)
SKAABC contains the operating system abend code, and is used by SKE. An existence bit is in SKAFLAG1.				
(5C)	CHARACTER	4	SKAABC	operating system abend code
SKAPSAV contains the registers at time of failure, and is used by SKE. An existence bit is in SKAFLAG1.				
(60)	CHARACTER	64	SKAPSAV	program check save area
(60)	FULLWORD	4	* (16)	registers
SKAPSW contains the PSW at time of failure, and is used by SKE. An existence bit is in SKAFLAG1.				
(A0)	CHARACTER	8	SKAPSW	EC mode program check PSW
SKAINT contains extran interrupt information, and is used by SKE.				
(A8)	CHARACTER	8	SKAINT	interrupt information
(A8)	HALFWORD	2	SKAINTL	instruction length
(AA)	HALFWORD	2	SKAINTC	instruction code
(B0)	CHARACTER		SKAEND	end of DFHSKAPS

## SKRQ Subtask management parameter block

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHSKRQ	,

FUNCTION =  
 The Subtask Management Parameter Block (SKRQ) is the parameter list for the subtask management module.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	BITSTRING	1	SKRQTR	V*1 FUNCTION REQUEST BYTE
REQUEST TYPE VALUES				
	.... ...1		SKRQPER	"X'01" PERFORM
	.... ..1.		SKRQWAIT	"X'02" WAIT
	.... ...11		SKRQRET	"X'03" RETURN
	.... ..1..		SKRQTER	"X'04" TERMINATE
	.... ..1.1		SKRQDWE	"X'05" DWE TO BE PROCESSED
(1)	BITSTRING	1	SKRQRM	V*2 REQUEST MODIFIER
BITS DEFINED FOR REQUEST MODIFIER				
	.... ...1		SKRQAY	"X'01" AUTH=YES SPECIFIED
	.... ..1.		SKRQCI	"X'02" CLASS=I/O SPECIFIED
	.... ..1..		SKRQSS	"X'04" SAVAREA SPECIFIED
	.... 1...		SKRQSY	"X'08" SYNC=YES SPECIFIED
(2)	BITSTRING	1		V*3 RESERVED
(3)	BITSTRING	1	SKRQRC	V*4 RESPONSE CODE
RESPONSE CODE VALUES				
	.... ....		SKRQNORM	"0" NORMAL RESPONSE
	.... ..1.		SKRQUCF	"4" USER CODE FAILED
	.... 1...		SKRQSCF	"8" SUBTASK CODE FAILED
	.... 11..		SKRQUPR	"12" UNABLE TO PERFORM REQUEST
	.... ..1 ....		SKRQRNC	"16" REQUEST NEVER COMPLETED
	.... ..1 ..1..		SKRQINV	"20" INVALID REQUEST
	.... ..1 1...		SKRQIES	"24" INVALID ECB ADDRESS SUPPLIED
	.... ..1 11..		SKRQTWC	"28" USER TASK WAS CANCELLED
SUBTASK IDENTIFIERS				
	.... ...1		SKSUBXX1	"1" GENERAL SUBTASK/FALLBACK
	.... ..1.		SKSUBFS1	"2" FILE CONTROL/SECURITY SUBTASK
	.... ...11		SKSUBSP1	"3" SPOOLER SUBTASK NUMBER 1
	.... ..1..		SKSUBSP2	"4" SPOOLER SUBTASK NUMBER 2
(4)	ADDRESS	4	SKRQRTN	ADDRESS OF ROUTINE TO EXECUTE
(8)	FULLWORD	4	SKRQPARM	ADDRESS OF PARM FIELD
(C)	ADDRESS	4	SKRQECBA	ADDRESS OF ECB
(10)	ADDRESS	4	SKRQTACB	ADDRESS OF TACB SLOT
(14)	ADDRESS	4	SKRQSUBI	ADDRESS OF SUBTASK ID FIELD
(18)	ADDRESS	4	SKRQPRTY	ADDRESS OF PRIORITY HALFWORD
	.... 11..		SKRQSIZE	"-DFHSKRQ" SIZE IN BYTES

## SKW Skp work queue element

CONTROL BLOCK NAME = DFHSKWPS  
 DESCRIPTIVE NAME = CICS (SKP) Work Queue Element (WQE)  
 FUNCTION = PLS structure describing WQE.  
 This structure is used by the CICS General Purpose Subtasking mechanism.  
 Each instance of this control block represents a piece of work to be performed (usually by a subtask).  
 One instance of the WQE is created per DFHSK PERFORM macro invocation.  
 LIFETIME = Space for WQEs is allocated in DFHSKP static storage. Further WQEs as necessary are obtained during CICS execution. The WQEs are freed at CICS termination.  
 STORAGE CLASS = Static initially, and subsequent WQEs are obtained in SHARED storage.  
 LOCATION = WQEs reside on queues controlled by the Subtask Manager(SKM) and the subtask executor(SKE). The queues are anchored from static storage (nb CICS STATIC STORAGE) belonging to SKP.  
 INNER CONTROL BLOCKS = None.  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None.  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None.  
 DATA AREAS = None.  
 CONTROL BLOCKS = None.  
 GLOBAL VARIABLES (Macro pass) = None.  
 WORK QUEUE ELEMENT

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	100	DFHSKWPS	Work Queue Element (WQE)
SKWCHAIN - contains the address of the next WQE in chain				
(0)	ADDRESS	4	SKWCHAIN	chain to next WQE
SKWUPARM - contains the contents of the PARM field specified in the DFHSK CTYPE=PERFORM macro.				
(4)	ADDRESS	4	SKWUPARM	PARM specified on SK wait
SKWUCADD - contains the address of SK EXIT routine - the label specified in the ROUTINE keyword on the SK CTYPE=PERFORM macro.				
(8)	ADDRESS	4	SKWUCADD	user code address to execute
SKWSREGS - used by to save the registers before branching to the SK EXIT routine by SKM (synchronous) and SKE (asynchronous)				
(C)	CHARACTER	64	SKWSREGS	SKM/SKE register save area
SKWCECB - this is the ECB used to communicate between SKM and SKE. SKM waits on it when the WQE has been put onto a subtask work queue. SKE posts it when the WQE has been processed.				
(4C)	UNSIGNED	4	SKWCECB	CICS work complete ECB
SKWOECB - this contains the address of the ECB specified on the SK CTYPE=WAIT macro issued by the SK EXIT routine.				
(50)	ADDRESS	4	SKWOECBA	ptr to ECB for SK WAIT
SKWOABC - contains the operating system abend code when the abend exit was entered in SKE.				
(54)	UNSIGNED	4	SKWOABC	operating system abend code
SKWOABSP - contains the address of a piece of operating system storage obtained by SKE to hold info about a program check or abend. Its contents are copied to a TACB by SKM.				
(58)	ADDRESS	4	SKWOABSP	ptr to os abend storage
SKWESAVE - contains the address of the save area specified by the SK EXIT routine when it issued an SK CTYPE=WAIT macro.				
(5C)	ADDRESS	4	SKWESAVE	A(save area for sk exit regs)
SKWFLAGS - flag byte				
(60)	BITSTRING	1	SKWFLAGS	flags - TRUE means..

Offset Hex	Type	Len	Name (Dim)	Description
				SKWTCANC - set by SKM when the CICS task it is running on behalf of has been purged. SKE ceases to process the WQE when it notices this set.
1... ....			SKWTCANC	CICS task has been cancelled
				SKWFABST - set by SKM to indicate that the storage containing regs and PSW at time of failure can be freed by SKE when it next sees the WQE
.1.. ....			SKWFABST	os abend stg requires freeing
				SKWWAIT - set by SKE to indicate this the SK EXIT has requested SKE waits on an ECB.
..1. ....			SKWWAIT	WQE is on WAIT queue
				SKWTACBE - indicates presence of operating storage containing regs and PSW at time of error.
...1 ....			SKWTACBE	TACB is chained (in os stg)
				SKWRC - return code from execution of WQE by SKE to SKM
(61)	UNSIGNED	1	SKWRC	return code
(62)	CHARACTER	2	*	fullword alignment

## SLDC System logical device code table

CONTROL BLOCK NAME = DFHSLDC  
 DESCRIPTIVE NAME = CICS System Logical Device Code Table.  
 FUNCTION =  
 The Logical Device Code (LDC) structure is the mechanism used by CICS to identify the output message destination in an SNA environment. The SLDC table is generated by the DFHTCT TYPE=LDC macro instruction. It contains an entry for each LDC mnemonic used by the system. The logical page size, page disposition and terminal type are used by BMS to control the format of the output message.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHSLDC	
(0)	CHARACTER	2	SLDCMN	LDC MNEMONIC
(2)	BITSTRING	1	SLDCCD	LOGICAL DEVICE CODE
(3)	BITSTRING	1	SLDCTM	TERMINAL MODEL (MEDIA)... ... (INCLUDING SUBADDRESS)
3601				
...	...		SLD3604	"X'11" KEYBOARD DISPLAY
...	.111		SLD3610	"X'17" DOCUMENT PRINTER
...	1..1		SLD3612	"X'19" PASSBOOK & DOCUMENT PRINTER
...	....		SLD3618	"X'20" ADMINISTRATIVE LINE PRINTER
..1.	...		SLD3618P	"X'21" LINE PRINTER PRIMARY CARRIAGE
..1.	..1.		SLD3618S	"X'22" LINE PRINTER SECONDARY CARRIAGE
..1.	..11		SLD3618B	"X'23" LINE PRINTER BOTH CARRIAGES
....	....		SLDCBLCO	"X'00" CONSOLE (DEFAULT IF NO LDC)
...	....		SLDCBLD1	"X'10" DISK 1
...	..1		SLDCBLD2	"X'11" DISK 2
..1.	....		SLDCBLR1	"X'20" READER (INPUT ONLY)
..1.	....		SLDCBLH1	"X'20" PUNCH (OUTPUT ONLY)
..11	....		SLDCBLP1	"X'30" PRINTER (OUTPUT ONLY)
1..	....		SLDCWPM1	"X'80" WORD PROCESSING MEDIUM 1
1..1	....		SLDCWPM2	"X'90" WORD PROCESSING MEDIUM 2
1..1	....		SLDCWPM3	"X'A0" WORD PROCESSING MEDIUM 3
11..	....		SLDCWPM4	"X'C0" WORD PROCESSING MEDIUM 4
(4)	ADDRESS	1	SLDCROW	NUMBER OF DISPLAY ROWS
(5)	ADDRESS	1	SLDCCLM	NUMBER OF DISPLAY COLUMNS
(6)	BITSTRING	1	SLDCSTAT	LDC STATUS BYTE
1...	....		SLDCSPGP	"X'80" PAGE STATUS
(7)	CHARACTER	8	SLDCDSN	DESTINATION NAME
(F)	BITSTRING	1	SLDCDSP	DATA STREAM PROFILE ... ... BITS 4 TO 7
....	....		SLDCPDEF	"X'00" DEFAULT PROFILE
....	..1		SLDCPBS	"X'01" BASE PROFILE
....	..11		SLDCPJOB	"X'03" JOB PROFILE
....	..1.		SLDCPRAW	"X'04" WP RAW PROFILE
....	..11.		SLDCPOI1	"X'06" OII LEVEL 1
....	..111		SLDCPOI2	"X'07" OII LEVEL 2
....	1..		SLDCPOI3	"X'08" OII LEVEL 3
Other values are reserved				
...	....		SLDCEND	*** END OF SYSTEM LDC ENTRY

Offset Hex	Type	Len	Name (Dim)	Description
	...1 ....		SLDCLN	**DFHSLDC" LENGTH OF SYSTEM LDC ENTRY

## SMD Domain subpool storage statistics

CONTROL BLOCK NAME = DFHSMDDS  
 DESCRIPTIVE NAME = CICS Storage statistics for domain subpools.  
 FUNCTION = This DSECT describes the Domain subpool statistics provided by the storage manager.  
 It is provided for use in users monitoring applications to map the statistics returned via the statistics exit or SMF.  
 An instance of this data area may represent the statistics for any one of the domain subpools.  
 There is a single instance of this data block.  
 LIFETIME = This data block is created by the storage manager to hold domain subpool statistics. It is released when the request for statistics has been satisfied.  
 LOCATION = Caller is passed a pointer to the head of the block.  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = None  
 CONTROL BLOCKS From storage manager domain.  
 GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHSMDDS	Domain subpool statistics
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	SMDLEN	Length of data area
	.... .1.1		SMDIDE	"5" Domain subpool id mask
(2)	ADDRESS	2	SMDID	Domain subpool stats id
	.... ...1		SMDVERS	"X'01" DSECT version number mask
(4)	CHARACTER	1	SMDDVERS	Statistics version number
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	SMDSPN	Subpool name
(10)	CHARACTER	8	SMDDSANAME	DSA name
(18)	BITSTRING	1	SMDETYPE	Element type (fixed/variable?)
(19)	CHARACTER	3		Reserved
(1C)	FULLWORD	4	SMDFLEN	Length (if fixed )
(20)	BITSTRING	1	SMDLCHN	Element chaining (yes/no?)
(21)	CHARACTER	3		Reserved
(24)	FULLWORD	4	SMDBNDRY	Boundary
(28)	BITSTRING	1	SMDLOCN	Above/below 16 meg line
(29)	BITSTRING	1	SMDACCESS	Access
(2A)	BITSTRING	1	SMDDSAINDEX	DSA index
(2B)	CHARACTER	1		Reserved
(2C)	FULLWORD	4	SMDIFREE	Initial free value
(30)	FULLWORD	4	SMDGMREQ	Number of Getmain reqs
(34)	FULLWORD	4	SMDFMREQ	Number of Freemain reqs
(38)	FULLWORD	4	SMDCES	Sum of all element lengths
(3C)	FULLWORD	4	SMDCPS	Current page storage
(40)	FULLWORD	4	SMDCELEM	Current number of elements
(44)	FULLWORD	4	SMDHWMP	High Water Mark Page Storage
	.1.. 1...		SMDEND	**"
	.1.. 1...		SMDCLN	**SMDLEN" Length of DSECT
Equates for testing SMDLOCN.				
	.... ...1		SMDBELOW	"1"
	.... ..1.		SMDABOVE	"2"
Equates for testing SMDACCESS.				
	.... ...1		SMDCICS	"1"
	.... ..1.		SMDUSER	"2"
	.... ..11		SMDREADONLY	"3"
Equates for testing SMDDSAINDEX.				
	.... ...1		SMDCDSA	"1"
	.... ..11		SMDSDSA	"3"
	.... .1..		SMDRDSA	"4"
	.... .1.1		SMDCECDSA	"5"
	.... .111		SMDSEDSA	"7"
	.... 1...		SMDERDSA	"8"



## SMF SMF header and SMF product section

CONTROL BLOCK NAME = DFHSMFDS  
 DESCRIPTIVE NAME = CICS SMF Header and SMF Product Section  
 DSECT for the SMF 110 records written by Journaling,  
 Monitoring, and Statistics.  
 FUNCTION =  
 This DSECT describes the various formats of the SMF Header  
 and SMF Product Section for the SMF 110 records written  
 by CICS to SMF. These SMF records are created by Journaling,  
 Monitoring, and Statistics and read by the CICS monitoring  
 DFHSTUP.  
 LIFETIME = N/A  
 STORAGE CLASS = N/A  
 LOCATION = N/A  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = None  
 CONTROL BLOCKS = None  
 GLOBAL VARIABLES (Macro pass) = None  
 time & user ID in SMF

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHSMFDS	
(0)	BITSTRING	2	SMFLEN	Record length
(2)	BITSTRING	2	SMFSEG	Segment descriptor
(4)	BITSTRING	1	SMFFLG	Operating system indicator
	11.. ....		SMFESA	"X'00" MVS/ESA fixed indicators
(5)	BITSTRING	1	SMFRTY	Record type 110 for CICS
(6)	BITSTRING	4	SMFTIME	Time record moved
(A)	BITSTRING	4	SMFDTE	Date record moved (0CYDDDD+)
(E)	BITSTRING	4	SMFSID	System identification
(12)	CHARACTER	4	SMFSSI	Sub-system identification
(16)	BITSTRING	2	SMFSTY	Record subtype
	.... ....		SMFJCSTY	"X'0000" - 'X'0000' For journaling
	.... ...1		SMFMNSTY	"X'0001" - 'X'0001' For monitoring
	.... .1.		SMFSTSTY	"X'0002" - 'X'0002' For statistics
	.... ..11		SMFXQSTY	"X'0003" - 'X'0003' For TS datasharing
	.... .1..		SMFCFSTY	"X'0004" - 'X'0004' For CFDT server stats
	.... .1.1		SMFNCSTY	"X'0005" - 'X'0005' For named ctr server
(18)	BITSTRING	2	SMFTRN	Number of triplets in record
(1A)	BITSTRING	2		Reserved
(1C)	BITSTRING	4	SMFAPS	Offset to CICS product section
(20)	BITSTRING	2	SMFLPS	Length of CICS product section
(22)	BITSTRING	2	SMFNPS	Number of CICS product sections
(24)	BITSTRING	4	SMFASS	Offset to CICS data section
(28)	BITSTRING	2	SMFASL	Length of CICS data section
(2A)	BITSTRING	2	SMFASN	Number of CICS data sections
End of SMF-Header. Start of JC SMF Product-section.				
(2C)	BITSTRING	2	SMFPSRVN	Record version format x'0vrn' v = version r = release m = modification
(2E)	CHARACTER	8	SMFPSPRN	Product name (Generic APPLID)
(36)	CHARACTER	8	SMFSSPN	Specific APPLID
(3E)	BITSTRING	2	SMFPSMFL	Record maintenance indicator
(40)	BITSTRING	2		Reserved
The JC SMF Product-section fields SMFPSRSN, SMFPSJID, SMFPSBKN, SMFPSLBW and SMFPSBAL apply to CICS/ESA Version 4.1 and previous CICS/ESA Version 3.x releases. The JC SMF Product-section field SMFPSJNM is applicable from CICS/ESA Version 5.1.				
(42)		4	SMFPSRSN	Record-number within Journal
(46)	BITSTRING	1	SMFPSJID	Journal identifier
(47)		3	SMFPSBKN	Record-number within Data Set
(4A)	BITSTRING	4	SMFPSLBW	Last-record address (Format is TTRO under MVS)
(4E)	ADDRESS	2	SMFPSBAL	Track balance in BYTES
(50)	BITSTRING	38		Reserved
(76)	CHARACTER	8	SMFPSJNM	Journal Name
(7E)	CHARACTER	8	SMFPSJBN	Jobname
(86)	BITSTRING	4	SMFPSRSD	Job date
(8A)	BITSTRING	4	SMFPSRST	Job time
(8E)	CHARACTER	8	SMFPSUIF	User identification
(96)	CHARACTER	8	SMFSPDN	Operating system product level
	1..1 111.		SMFJCIDA	"**"
End of JC SMF Product-section. Start of MN SMF Product-section.				

Offset Hex	Type	Len	Name (Dim)	Description
(2C)	BITSTRING	2	SMFMNRVN	Record version format x'0vrm' v = version r = release m = modification
(2E)	CHARACTER	8	SMFMNPRN	Product name (Generic APPLID)
(36)	CHARACTER	8	SMFMNSPN	Specific APPLID
(3E)	BITSTRING	2	SMFMNMFL	Record maintenance indicator
(40)	BITSTRING	2		Reserved
(42)	BITSTRING	2	SMFMNCL	Class of data
(44)	BITSTRING	4	SMFMNDCA	Offset to CICS field connectors
(48)	BITSTRING	2	SMFMNDCL	Length of each CICS field connector
(4A)	BITSTRING	2	SMFMNDCN	Number of CICS field connectors
(4C)	BITSTRING	4	SMFMNDRA	Offset to first CICS Data record
(50)	BITSTRING	2	SMFMNDRL	Length of each CICS Data record
(52)	BITSTRING	2	SMFMNDRN	Number of CICS Data records
(54)	BITSTRING	20		Reserved
(68)	BITSTRING	4	SMFMNTAD	Local TOD clock adjustment
(6C)	BITSTRING	8	SMFMNLSO	Leap Second Offset TOD format
(74)	BITSTRING	8	SMFMNDTO	Local Time/Date Offset
(7C)	BITSTRING	2		Reserved
(7E)	CHARACTER	8	SMFMNJBN	Jobname
(86)	BITSTRING	4	SMFMNRSD	Job date
(8A)	BITSTRING	4	SMFMNRST	Job time
(8E)	CHARACTER	8	SMFMNUIF	User identification
(96)	CHARACTER	8	SMFMNPDN	Operating system product level
	1..1 111.		SMFMNIDA	***
End of MN SMF Product-section.				
Start of ST SMF Product-section.				
Statistics produced by the TS datasharing server (XQ),				
CFDT server (CF) and named counter server (NC) use the				
same layout, but the server type (DFHXQ, DFHCF or DFHNC)				
and pool name are stored instead of the APPLIDs.				
(2C)	BITSTRING	2	SMFSTRVN	Record version format x'0vrm' v = version r = release m = modification
(2E)	CHARACTER	8	SMFSTPRN	Product name (Generic APPLID)
(36)	CHARACTER	8	SMFSTSPN	Specific APPLID
(3E)	BITSTRING	2	SMFSTMFL	Record maintenance indicator
(40)	BITSTRING	2		Reserved
(42)	BITSTRING	2		Reserved
(44)	BITSTRING	4	SMFSTDTK	Domain token
(48)	CHARACTER	2	SMFSTDID	Domain ID
(4A)	CHARACTER	3	SMFSTRQT	USS/EOD/REQ/INT/RRT Stats type
(4D)	CHARACTER	3	SMFSTICD	YES if incomplete data recorded
(50)	CHARACTER	8	SMFSTDAT	Collection date MMDDYYYY
(58)	CHARACTER	6	SMFSTCLT	Collection time HHMMSS
(5E)	CHARACTER	6	SMFSTINT	Interval HHMMSS
(64)	BITSTRING	4	SMFSTINO	Interval NUMBER
(68)	BITSTRING	8	SMFSTRTK	Request token
(70)	CHARACTER	6	SMFSTLRT	Last reset time HHMMSS
(76)	BITSTRING	8	SMFSTCST	CICS start time STCK
(7E)	CHARACTER	8	SMFSTJBN	Jobname
(86)	BITSTRING	4	SMFSTRSD	Job date
(8A)	BITSTRING	4	SMFSTRST	Job time
(8E)	CHARACTER	8	SMFSTUIF	User identification
(96)	CHARACTER	8	SMFSTPDN	Operating system product level
	1..1 111.		SMFSTIDA	***
End of ST SMF Product-section.				

## SMS Pagepool storage statistics

CONTROL BLOCK NAME = DFHMSDS  
 DESCRIPTIVE NAME = CICS Storage statistics for Pagepools and subspaces.  
 FUNCTION = This DSECT describes the DSA statistics, Storage Manager state data and the subspace statistics provided by the Storage Manager.  
 It is provided for use in users monitoring applications to map the statistics returned via the statistics exit or SMF.  
 An instance of this data area may represent the statistics for any of the DSAs.  
 LIFETIME = This data block is created by the storage manager to hold pagepool statistics, state data and the subspace statistics. It is released when the request for statistics has been satisfied.  
 LOCATION = Caller is passed a pointer to the head of the block.  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = None  
 CONTROL BLOCKS From storage manager domain.  
 GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHMSDS	Storage statistics header
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	SMSLEN	Length of data area
	.... ..1.		SMSIDE	"2" DSA storage stats id mask
(2)	ADDRESS	2	SMSID	DSA storage stats id
	.... ..1		SMSVERS	"X'01" DSECT version number mask
(4)	CHARACTER	1	SMSDVERS	Statistics version number
(5)	CHARACTER	3		Reserved
	.... 1...		SMSHEND	"" End of Header
	.... 1...		SMSHLEN	""-SMSLEN" Length of Header
<b>Offset Hex</b>	<b>Type</b>	<b>Len</b>	<b>Name (Dim)</b>	<b>Description</b>
(0)			SMSGLOBAL	
(0)	HALFWORD	2	SMSNPAGP	Number of Pagepools
(2)	BITSTRING	1	SMSSTGPROT	State of STGPROT
(3)	BITSTRING	1	SMSRENTPGM	State of RENTPGM
(4)	BITSTRING	1	SMSTRANISO	State of TRANISO
(5)	BITSTRING	3		Reserved
(8)	FULLWORD	4	SMSUSSCUR	Current number of unique subspace users
(C)	FULLWORD	4	SMSUSSCUM	Cumulative number of unique subspace users
(10)	FULLWORD	4	SMSUSSHWM	HWM of unique subspace users
(14)	FULLWORD	4	SMSCSSCUR	Current number of common subspace users
(18)	FULLWORD	4	SMSCSSCUM	Cumulative number of common subspace users
(1C)	FULLWORD	4	SMSCSSHWM	HWM of common subspace users
(20)	FULLWORD	4	SMSDSALIMIT	Current DSA limit
(24)	FULLWORD	4	SMSSEDSALIMIT	Current EDSA limit
(28)	FULLWORD	4	SMSDSATOTAL	Current DSA total
(2C)	FULLWORD	4	SMSSEDSATOTAL	Current EDSA total
(30)	FULLWORD	4	SMSHWMDSATOTAL	HWM DSA total
(34)	FULLWORD	4	SMSHWMEDSATOTAL	HWM EDSA total
(38)	FULLWORD	4		reserved
(3C)	FULLWORD	4		reserved
(40)	FULLWORD	4		reserved
(44)	FULLWORD	4		reserved
(48)	FULLWORD	4		reserved
(4C)	FULLWORD	4		reserved
	.1.1 ....		SMSGEND	"" The end.
	.1.1 ....		SMSGLEN	""-SMSGLOBAL" Length of global area
<b>Offset Hex</b>	<b>Type</b>	<b>Len</b>	<b>Name (Dim)</b>	<b>Description</b>
(0)			SMSBODY	Storage statistics body
(0)	CHARACTER	8	SMSDSANAME	DSA name
(8)	BITSTRING	1	SMSLOCN	Location (below/above)
(9)	BITSTRING	1	SMSACCESS	Access
(A)	BITSTRING	1	SMSDSAINDEX	DSA index
(B)	CHARACTER	1		Reserved

Offset Hex	Type	Len	Name (Dim)	Description
(C)	FULLWORD	4	SMSDSASZ	Current size of DSA
(10)	FULLWORD	4	SMSHWMDSASZ	HWM Size of DSA
(14)	FULLWORD	4	SMSCSIZE	Current cushion size
(18)	FULLWORD	4	SMSGMREQ	Number of Getmain reqs
(1C)	FULLWORD	4	SMSFMREQ	Number of Freemain reqs
(20)	FULLWORD	4	SMSASR	Number of Add-subpool reqs
(24)	FULLWORD	4	SMSDSR	Number of Del-subpool reqs
(28)	FULLWORD	4	SMSCRISS	Cond reqs returning insufficient stg
(2C)	FULLWORD	4	SMSUCSS	Uncond reqs suspended
(30)	FULLWORD	4	SMSCSS	Curr reqs susp for storage
(34)	FULLWORD	4	SMSHWMSS	HWM reqs susp for storage
(38)	FULLWORD	4	SMSPWWS	Number of tasks purged, waiting storage
(3C)	FULLWORD	4	SMSCREL	Number of cushion releases
(40)	FULLWORD	4	SMSOSS	Times SOS occurred
(44)	FULLWORD	4		reserved
(48)	DBL WORD	8	SMSTSOS	Total time SOS
(50)	FULLWORD	4	SMSCSUBP	Current Number of subpools
(54)	FULLWORD	4	SMSFSTG	Free storage (inc cushion)
(58)	FULLWORD	4	SMSHWMFSTG	HWM free storage (inc cushion)
(5C)	FULLWORD	4	SMSLWMFSTG	LWM free storage (inc cushion)
(60)	FULLWORD	4	SMSLFA	Largest free area in DSA
(64)	FULLWORD	4	SMSV	Number of storage violations
(68)	FULLWORD	4	SMSEXTS	Current number of extents
(6C)	FULLWORD	4	SMSEXTSA	Number of extents added
(70)	FULLWORD	4	SMSEXTSR	Number of extents released
(74)	FULLWORD	4		reserved
(78)	FULLWORD	4		reserved
(7C)	FULLWORD	4		reserved
	1... ..		SMSBEND	""
	1... ..		SMSBLEN	""-SMSBODY" Length of Body
Equates for testing SMSSTGPROT.				
	.... ..		SMSSTGPROTNA	"0" STGPROT not active
	.... ...1		SMSSTGPROTA	"1" STGPROT active
Equates for testing SMSRENTPGM.				
	.... ..		SMSRENTPGMNP	"0" RENTPGM noprotect
	.... ...1		SMSRENTPGMP	"1" RENTPGM protect
Equates for testing SMSSTRANISO.				
	.... ..		SMSTRANISONA	"0" TRANISO not active
	.... ...1		SMSTRANISOA	"1" TRANISO active
Equates for testing SMSLOCN				
	.... ...1		SMSBELOW	"1"
	.... ..1.		SMSABOVE	"2"
Equates for testing SMSACCESS				
	.... ...1		SMSCICS	"1"
	.... ..1.		SMSUSER	"2"
	.... ..11		SMSREADONLY	"3"
Equates for testing SMSDSAINDEX				
	.... ...1		SMSCDSA	"1"
	.... ..1.		SMSUDSA	"2"
	.... ..11		SMSSDSA	"3"
	.... ..1..		SMSRDSA	"4"
	.... ..1.1		SMSECDSA	"5"
	.... ..11.		SMSEUDSA	"6"
	.... ..111		SMSESDSA	"7"
	.... 1...		SMSERDSA	"8"

## SMT Storage subpool storage statistics

CONTROL BLOCK NAME = DFHSMTDS  
 DESCRIPTIVE NAME = CICS Storage statistics for task subpools.  
 FUNCTION = This DSECT describes the task subpool statistics provided by the storage manager.  
 It is provided for use in users monitoring applications to map the statistics returned via the statistics exit or SMF.  
 An instance of this data area may represent the statistics for either the task subpools above the 16 meg line or those below the 16 meg line.  
 There is a single instance of this data block.  
 LIFETIME = This data block is created by the storage manager to hold task subpool statistics. It is released when the request for statistics has been satisfied.  
 LOCATION = Caller is passed a pointer to the head of the block.  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = None  
 CONTROL BLOCKS From storage manager domain.  
 GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHSMTDS	Task subpool statistics header
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	SMTLEN	Length of data area
	.... .11.		SMTIDE	"6" Task subpool id mask
(2)	ADDRESS	2	SMTID	Task subpool stats id
	.... ..1		SMTVERS	"X'01" DSECT version number mask
(4)	CHARACTER	1	SMTDVERS	Statistics version number
(5)	CHARACTER	3		Reserved
	.... 1..		SMTEND	*** End of header
	.... 1..		SMTLEN	**-SMTLEN" Header length
<b>Offset Hex</b>	<b>Type</b>	<b>Len</b>	<b>Name (Dim)</b>	<b>Description</b>
(0)			SMTGLOBAL	Global statistics
(0)	HALFWORD	2	SMTNTASK	No. of task subpools
(2)	HALFWORD	2		reserved
	.... .1..		SMTGEND	*** The end
	.... .1..		SMTGLEN	**-SMTGLOBAL" length of global area
<b>Offset Hex</b>	<b>Type</b>	<b>Len</b>	<b>Name (Dim)</b>	<b>Description</b>
(0)			SMTBODY	Task subpool statistics body
(0)	CHARACTER	8	SMTDSANAME	DSA name
(8)	BITSTRING	1	SMTLOCN	Location - Above/below the line
(9)	BITSTRING	1	SMTACCESS	Access - CICS/USER
(A)	BITSTRING	1	SMTDSAINDEX	DSA index
(B)	CHARACTER	1		Reserved
(C)	FULLWORD	4	SMTGMREQ	No. Getmain reqs
(10)	FULLWORD	4	SMTFMREQ	No. Freemain reqs
(14)	FULLWORD	4	SMTCES	Sum of all element lengths
(18)	FULLWORD	4	SMTCPSP	Current page storage
(1C)	FULLWORD	4	SMTCNE	Current No. elements
(20)	FULLWORD	4	SMTHWMPSP	High Water Mark Page storage
	..1. .1..		SMTBEND	*** End of body
	..1. .1..		SMTBLEN	**-SMTBODY" Length of body DSECT
Equate for testing SMTLOCATION.				
	.... ..1		SMTBELOW	"1"
	.... .1.		SMTABOVE	"2"
Equates for testing SMTACCESS				
	.... ..1		SMTCICS	"1"
	.... .1.		SMTUSER	"2"
Equates for testing SMTDSAINDEX.				
	.... ..1		SMTCDSA	"1"
	.... .1.		SMTUDSA	"2"
	.... .1.1		SMTECDSA	"5"
	.... .11.		SMTEUDSA	"6"

## SNEX Signon extension block

CONTROL BLOCK NAME = DFHSNEXC  
 DESCRIPTIVE NAME = CICS Sign-on Extension to the TCTTE  
 FUNCTION =  
 The Signon Extension is owned by the Signon component of the AP Domain and contains information related to the Signon and Terminal Timeout processes. Each TCTTE has its own Signon Extension which is pointed to by the TCTESNEX pointer.  
 LIFETIME =  
 A SNEX is created at the same time that a TCTTE is created when a terminal definition is installed.  
 STORAGE CLASS =  
 CICS storage, above the 16Mb line in the subpool 'SNEX'. No element chaining.  
 LOCATION =  
 A SNEX is located by using the TCTESNEX pointer in the TCTTE.  
 NOTES :  
 DEPENDENCIES = S/390  
 MODULE TYPE = Control block definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	40	DFHSNEX	Start of SNEX control block
Userid:				
SNEX_USERID:				
				This field is used to contain the preset userid for macro defined terminals only. When the terminal has been installed, and the userid has been signed on, this field is overlaid by the principal user token and session user token (null). The flag SNEX_PRESET_USERID_PRESENT indicates whether this field currently contains a userid or tokens.
(0)	CHARACTER	8	SNEX_USERID	
User Tokens:				
SNEX_PRINCIPAL_USER_TOKEN:				
				This field contains the user token associated with the user currently signed on at this terminal.
SNEX_SESSION_USER_TOKEN:				
				If this terminal represents a session, this field contains the user token associated with the userid signed on at this terminal.
(0)	UNSIGNED	4	SNEX_PRINCIPAL_USER_TOKEN	
(4)	UNSIGNED	4	SNEX_SESSION_USER_TOKEN	

Offset Hex	Type	Len	Name (Dim)	Description
Terminal Timeout Information:				
SNEX_TIMEOUT_TIME:				
				This is the time (in STCK format) that this terminal is next due to timeout.
SNEX_TIMEOUT_INTERVAL:				
				This is the timeout interval for the currently signed on user expressed as the top word of a STCK value.
SNEX_TIMEOUT_FLAGS:				
				SNEX_TIMEOUT_ELIGIBLE This flag is on only if the terminal is eligible for timeout processing. To be eligible, the terminal must:
				- not be defined with SIGNOFF=NO
				- not have preset security
				- be signed on
				- be signed on by a userid that has a non-zero timeout interval
				- not be performing transaction routing unless under the CRTE transaction
SNEX_TIMEOUT_ENABLED:				
				When ON this flag indicates that the terminal is in the TIMEOUT ENABLED state. When OFF this flag indicates that the terminal is in the TIMEOUT DISABLED state.
SNEX_TIMEOUT_TIMEDOUT:				
				When ON this flag indicates that the terminal is currently being timed out.
SNEX_SAVED_ATI_STATUS:				
				This flag is used to save the setting of the ATI status of the terminal while the goodnight transaction is being scheduled.
(8)	CHARACTER	8	SNEX_TIMEOUT_TIME	
(8)	UNSIGNED	4	HIGH_WORD	
(C)	UNSIGNED	4	LOW_WORD	
(10)	UNSIGNED	4	SNEX_TIMEOUT_INTERVAL	
(14)	BITSTRING	1	SNEX_TIMEOUT_FLAGS	
	1... ....		SNEX_TIMEOUT_ELIGIBLE	
	.1.. ....		SNEX_TIMEOUT_ENABLED	
	..1. ....		SNEX_TIMEOUT_TIMEDOUT	
	...1 ....		SNEX_SAVED_ATI_STATUS	
	.... 1111		*	Reserved
XRF Information				
SNEX_XRF_FLAGS:				
SNEX_XRF_REFLECTABLE:				
				This flag indicates whether the terminal should have its signon state reflected on an ALTERNATE XRF system. For this flag to be ON, the XRF SOFF SIT parameter must be set to NOFORCE, the XRF SIGNOFF flag in the terminal's TYPETERM definition must be set to NOFORCE and the users CICS segment in RACF must show that the user is not to be signed off after an XRF takeover. If any of the above conditions are false, this flag is set OFF.
(15)	BITSTRING	1	SNEX_XRF_FLAGS	
	1... ....		SNEX_XRF_REFLECTABLE	
	.111 1111		*	
Userid Length				
SNEX_USERID_LENGTH This field contains the length of the userid contained in SNEX_USERID. This field is only valid for macro defined terminals. Once the terminal has been installed by CICS this field is returned to zeros.				
(16)	UNSIGNED	1	SNEX_USERID_LENGTH	
(17)	CHARACTER	1	*	Reserved

Offset Hex	Type	Len	Name (Dim)	Description
Transaction Statistics Information				
SNEX_TXN_COUNT: Keeps tally of the number of txns run by this user at this terminal for the duration of the current signon.				
SNEX_TXN_ERROR_COUNT: Keeps tally of the number of txn errors in this signon session.				
(18)	FULLWORD	4	SNEX_TXN_COUNT	
(1C)	FULLWORD	4	SNEX_TXN_ERROR_COUNT	
Miscellaneous Flags				
SNEX_PRESET_SECURITY: Flag used to signal if this terminal has preset security. This flag is also set on for sessions that have a preset session userid.				
SNEX_SESSION_SIGNED_ON: Flag used to signal that this session has been session (link) signed on.				
SNEX_PRESET_USERID_PRESENT: Flag used to indicate that a preset userid exists in the SNEX_USERID field. This is used to perform a preset signon when the terminal is installed. This is only used in the case of macro defined terminals.				
SNEX_SESSION_SIGNED_ON_AS_DEFAULT: Flag used to signal that this session has been session (link) signed on with default attributes. This is used in signoff session userid to stop unnecessary delete user processing.				
SNEX_SESSION_USER_TOKEN_X: Flag used to indicate that this SNEX contains a valid user token in the SNEX_SESSION_USER_TOKEN field. The session user token might be null, but this can still be a valid session user token. This happens in the cases where it is necessary to enforce a link security check against the default user.				
SNEX_LUIT_TABLE_UPDATED: Flag used to indicate whether during a signon_attach_header the LUIT table was updated. This flag should only be set on during a signon attach header for a persistent verification FMH-5. When this terminal is attach signed off, then this flag should be turned off ready for the next user of this terminal.				
SNEX_EQUIVALENT_SYSTEMS: Flag used to let DFHZNCA know that although this session does not have the snex preset security flag on, it did however have a preset session userid, but it was the same as this system's jobstep userid. This is known as equivalent systems for LU6.1 and LU6.2, but a different check is made for MRO for equivalent systems. Namely that the link security name is the same as the jobstep userid of the connecting system. Hence this flag is not required for MRO, because we can only make the equivalence check when we know the connectee's userid. This is done in DFHCRNP when the connection is acquired.				
(20)	CHARACTER	1	SNEX_FLAGS	
	1... ..		SNEX_PRESET_SECURITY	
	.1.. ..		SNEX_SESSION_SIGNED_ON	
	..1. ....		SNEX_PRESET_USERID_PRESENT	
	...1 ....		SNEX_SESSION_SIGNED_ON_AS_DEFAULT	
	.... 1...		SNEX_SESSION_USER_TOKEN_X	
	.... .1..		SNEX_LUIT_TABLE_UPDATED	
	.... ..1.		SNEX_EQUIVALENT_SYSTEMS	



Offset Hex	Type	Len	Name (Dim)	Description	
(21)	CHARACTER	1	SNEX_FLAGS2	Reserved	
Console support flags					
SNEX_CONSOLE_REFLECT_FIRST_USER: Set if user specified USERID( FIRST) on the TERMINAL definition for the console. On install the real user that MVS has nominated in the CIB is signed on as a preset userid.					
SNEX_CONSOLE_REFLECT EVERY_USER: Set if user specified USERID( EVERY) on the TERMINAL definition for the console. On install and on every following message the user is signed-on (if it has changed) as a preset userid.					
(21)	CHARACTER	1	SNEX_CONSOLE	Reserved @01A <b>APAR PQ33871</b> added SNEX_LUIT_USERID_LEN and SNEX_LUIT_USERID, and changed offset of SNEX_END	
	1... ..		SNEX_CONSOLE_REFLECT_FIRST_USER		
	.1.. ..		SNEX_CONSOLE_REFLECT EVERY_USER		
	..11 1111		*		
#	(22)	CHARACTER	1	SNEX_LUIT_USERID_LEN	Len of PV Userid
#	(23)	CHARACTER	8	SNEX_LUIT_USERID	PV userid
#	(2B)	CHARACTER	5	*	Reserved
#	(30)	CHARACTER		SNEX_END	End of SNEX

## SNGN Gntran stub parameter list for cegn

-

DFHSNGNC Copybook

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	24	DFHSNGN	CEGN Parameter List
(0)	CHARACTER	8	CEGN_EYECATCHER	Ensures CEGN started by CESC
(8)	CHARACTER	8	CEGN_TIMEOUT_TIME	Timeout time in STCK format
(10)	ADDRESS	4	CEGN_TCTTE_ADDR	-> TCTTE of timed-out terminal
(14)	CHARACTER	1	CEGN_TIMEOUT_REASON	
(15)	CHARACTER	3	*	Mechanism causing timeout
(18)	CHARACTER		*	Reserved
				End of parameter list

### Constants

Len	Type	Value	Name	Description
8	CHARACTER	>>CEGN>>	CEGN_EYECATCHER_VALUE	

## SNGS Goodnight transaction parameter list

-

DFHSNGSC Copybook

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	DFHSNGS	GNTRAN Parameter List
(0)	CHARACTER	64	DFHSNGS_FIXED	Fixed part
(0)	CHARACTER	4	GNTRAN_ START_TRANSID	Always equal to "CEGN"
(4)	CHARACTER	1	GNTRAN_ PSEUDO_CONV_FLAG	Terminal was in pseudo conversation when it was timed out: 'Y' or 'N'
(5)	CHARACTER	1	GNTRAN_ SCREEN_TRUNCATED	3270 screen buffer had to be truncated: 'Y' or 'N'
(6)	CHARACTER	1	GNTRAN_ TRANSLATE_TIOA	Flag to indicate that TIOA input to GNTRAN needs upper case translation. Reserved
(7)	CHARACTER	9	*	Reserved
(10)	CHARACTER	8	GNTRAN_TIMEOUT_TIME	Time that the terminal timed out in CICS ABSTIME format.
(18)	CHARACTER	1	GNTRAN_ TIMEOUT_REASON	Mechanism causing timeout: 'T' for terminal timeout or 'X' for XRF takeover timeout Reserved
(19)	CHARACTER	11	*	Reserved
(24)	CHARACTER	4	GNTRAN_PSEUDO_ CONV_TRANSID	Next transaction to run at this terminal had it not been timed out.
(28)	HALFWORD	2	GNTRAN_ SCREEN_LENGTH	Length of screen buffer left by previous transaction
(2A)	HALFWORD	2	GNTRAN_ CURSOR_POSITION	Cursor position left by previous transaction
(2C)	HALFWORD	2	GNTRAN_ SCREEN_WIDTH	Width of screen left by previous transaction
(2E)	HALFWORD	2	GNTRAN_ SCREEN_HEIGHT	Height of screen left by previous transaction
(30)	CHARACTER	16	GNTRAN_USER_FIELD	Available to user
(40)	CHARACTER	*	DFHSNGS_VARIABLE	Variable part
(40)	CHARACTER	*	GNTRAN_ SCREEN_BUFFER	Variable length field containing the contents of the screen.

## SNSTA Sign-on LUIT and SNT statistics

CONTROL BLOCK NAME = DFHSNSTA  
 DESCRIPTIVE NAME = CICS (SIGNON)  
 FUNCTION =  
     This control block is used to store statistics produced by the management of the LUIT tables during SIGNONs involving LU6.2 type connections.  
     The storage for this control block is GETMAINed in DFHTCRP.  
     This is only one instance of this control block per CICS system, and it is updated everytime a user is added/reused or deleted from the LUIT.  
 LIFETIME =  
     The storage is GETMAINed during security initialisation, and it is released when CICS terminates.  
 STORAGE CLASS =  
     This control block is AMODE(31) RMODE(ANY)  
 LOCATION =  
     This control block is chained off the CSA.  
 INNER CONTROL BLOCKS = None  
 NOTES :  
     DEPENDENCIES = S/370  
     RESTRICTIONS = None  
     MODULE TYPE = Control block definition  
     EXTERNAL REFERENCES = None  
     DATA AREAS = None  
     CONTROL BLOCKS = None  
     GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	DFHSNSTA	Stats for SNT & LUIT tables
(0)	FULLWORD	4	LUIT_TOTAL_REUSES	Total number of entries * * reused in LUIT tables
(4)	FULLWORD	4	LUIT_TOTAL_TIMEOUTS	Total number of entries * * timed out in LUIT tables
(8)	FULLWORD	4	LUIT_AV_REUSE_TIME	Average reuse time between * * entries in the LUIT table

### Constants

Len	Type	Value	Name	Description
2	DECIMAL	12	SNSTA_LENGTH	

## SORDS Tcp/ip service

CONTROL BLOCK NAME = DFHSORDS  
 DESCRIPTIVE NAME = CICS TCP/IP Service (Sockets) Statistics  
 FUNCTION =  
 This data area contains the tcp/ip service (sockets) statistics provided by the Sockets Domain. It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics global user exit. There is a single instance of this data block.  
 LIFETIME =  
 This data block is created by the Sockets Domain to store statistics to be passed to the user in response to a for tcp/ip service statistics. The storage is released when the user task is detached. The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.  
 STORAGE CLASS =  
 LOCATION =  
 The user is passed a pointer to the head of the storage block.  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition  
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHSORDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHSORDS	TCP/IP Service Resid stats record
(0)	HALFWORD	2	SORDS_LEN	TCP/IP Service stats record length
(2)	ADDRESS	2	SORDS_ID	TCP/IP service stats id
(4)	CHARACTER	1	SORDS_VERS	TCP/IP Service stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	SOR_SERVICE_NAME	TCP/IP Service name
(10)	FULLWORD	4	SOR_TRANS_ATTACHED	No. of Transactions Attached
(14)	FULLWORD	4	SOR_CURRENT_CONNS	Current number of Connections
(18)	FULLWORD	4	SOR_PEAK_CONNS	Peak number of Connections
(1C)	BITSTRING	8	SOR_OPEN_GMT	Service Open Time (GMT)
(24)	BITSTRING	8	SOR_OPEN_LOCAL	Service Open Time (Local)
(2C)	BITSTRING	8	SOR_CLOSE_GMT	Service Close Time (GMT)
(34)	BITSTRING	8	SOR_CLOSE_LOCAL	Service Close Time (Local)
(3C)	BITSTRING	2	SOR_PORT_NUMBER	TCP/IP Service Port Number
(3E)	BITSTRING	1	SOR_SSL_SUPPORT	TCP/IP Service SSL Support
(3F)	BITSTRING	1		Reserved
(40)	FULLWORD	4	SOR_BACKLOG	TCP/IP Service Backlog
(44)	FULLWORD	4	SOR_SENDS	No. of Sends (all sockets)
(48)	BITSTRING	8	SOR_BYTES_SENT	No. of Bytes Sent (all sockets)
(50)	FULLWORD	4	SOR_RECEIVES	No. of Receives (all sockets)
(54)	BITSTRING	8	SOR_BYTES_RECEIVED	No. of Bytes Received (all sockets)
(5C)	CHARACTER	15	SOR_IP_ADDRESS	TCP/IP Service IP Address
(6B)	BITSTRING	1		Reserved
	.11. 11..		SORDS_END	***
	.11. 11..		SORDS_LENGTH	**SORDS_LEN" TCP/IP Service record length

Constants that denote a SO tcp/ip service stats record

.11. 11..	SORIDR	"108" TCP/IP Service resid stats id
.... ...1	SOR_VERS	"X'01" Record version number
.... ...1	SOR_SSL_YES	"X'01" SSL = Yes
.... ...1.	SOR_SSL_NO	"X'02" SSL = No
.... ...11	SOR_SSL_CLI_AUTH	"X'03" SSL = Client Authentication

## SPI Task local storage definition

```

MODULE NAME = DFHDMTLS
DESCRIPTIVE NAME = CICS Resource Definition Online
Task Local Storage definition.
SPI Task Local Storage definition.
USE:
IN CICS:
AMP, DMP and PUP (PPT programs).
IN BATCH:
All modules subordinate to
and including DFHCUCP.
ADDRESSABILITY:
IN CICS:
BASED on TCADMTLA field in TCA.
IN BATCH:
BASED on DMTLA, passed as a parameter to all modules
subordinate to DFHCUCP.
SIZE:
Size is length of structure DFHDMTLS.
OBTAINED:
IN CICS:
by DFHDMP03 adaptor, via:
DFHDMP router, via:
DFHAMPFI routine, via:
DFHAMP router.
IN BATCH:
by DFHDMP05 adaptor, via:
DFHCUCP.
FREED
IN CICS:
by DFHAMPEN routine called by AMP.
IN BATCH:
by DFHDMP05 adaptor, via:
DFHCUCP.
  
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	296	DFHDMTLS	
Address of KWA chain. Number of links in KWA chain.				
(0)	ADDRESS	4	TLPTR1	
(4)	FULLWORD	4	TLEN1	
Primary CSD control record. In-store address. Length of In-store primary record structure: Containing duplicate record.				
(8)	ADDRESS	4	TLPTR2	
(C)	FULLWORD	4	TLEN2	
LD table address.				
(10)	ADDRESS	4	TLPTR3	
TLSYSID (Batch only): Operating System (MVS or DOS) FCxxxx (initialisation only) FCT values to be restored on CSD close.				
(14)	CHARACTER	4	TLSYSID	
	1... ..		FCADD	remember fct value
	.1. ....		FCUPDATE	ditto for update
	..1. ....		FCDELETE	and delete
Miscellaneous global fields (a) for DFHAMP (CICS) (b) for DFHCSDUP (batch)				
(18)	CHARACTER	20	GLOBMISC	
(18)	ADDRESS	4	AMARGANC	AMP anchor for arg lists DFHCSDUP misc globals
(18)	BITSTRING	1	TLCUBITS	Flag bits
	1... ..		TLMSGOFF	Suppress msgs.from BEP
	.1. ....		TLRDCICS	Processing CICS-supplied resource definition list
	..1. ....		TLRDTMIG	Processing migrated RDT
	...1 ....		TLUPGUSG	Processing UPGRADE USING
	.... 1...		TLIGNOIW	Ignore I and W msgs
	.... .1..		TLPCURDD	Processing CURDD/CURDN
	.... ..1.		TLUSRDEF	Userdefine command
	.... ..1		*	Reserved
(19)	BITSTRING	1	*	Reserved
(1A)	HALFWORD	2	TLKEYNUM	Current keyword number AMP anchors (Continued)
(1C)	ADDRESS	4	AMERRANC	Anchor for error msgs
(20)	ADDRESS	4	SYSTEMER	Internal msg anchor
(24)	ADDRESS	4	AMDISANC	Display block anchor
(28)	ADDRESS	4	TLARG0PT	Current argument 0 ptr

Offset Hex	Type	Len	Name (Dim)	Description
Task-local variables for DFHTOR (Terminal Object Resolution). TRCURSTA records the current (summary) state of data type TR tr_current_state : <initial, luip, eg1, eg2, error>				
(2C)	HALFWORD	2	TRCURSTA	
(2E)	HALFWORD	2	*	Reserved for alignment TRSTATUS is used by all the modules that implement TR.
(30)	CHARACTER	8	TRSTATUS	TRSTATUS is used to indicate exceptional conditions as they arise.
(30)	FULLWORD	4	TRRESP	TR-global response code.
(34)	FULLWORD	4	TRREASON	TR-global reason code.
The following 11 variables are in "tr_state". They represent mappings from names to either a) other names or b) resource definitions. The data length of each (CHAR(20)) is dependent upon the implementation as encoded in DFHTOMAC etc.				
(38)	CHARACTER	20	MMNDX	autodefine models tt_ndx : MAP OF (ttid,tdef)
(4C)	CHARACTER	20	TTNDX	TYPETERM names,defns. tm_ndx : MAP OF (tmid,tmdef)
(60)	CHARACTER	20	TMNDX	CICS tmids tm_use : MAP OF (tmid,ttid)
(74)	CHARACTER	20	TMUSE	TYPETERM references. pt_ndx : MAP OF (tmid,ptdef)
(88)	CHARACTER	20	PTNDX	pooled TERMINALS pt_use : MAP OF (tmid,ttid)
(9C)	CHARACTER	20	PTUSE	TYPETERM references cn_ndx : MAP OF (cnid,cndefr)
(B0)	CHARACTER	20	CNNDX	CONNECTIONS se_ndx : MAP OF (seid,sedefr)
(C4)	CHARACTER	20	SENDX	SESSIONS se_use : MAP OF (seid,cnid)
(D8)	CHARACTER	20	SEUSE	SESSIONS refergences
End of DFHTOR-specific variables.				
AMP EXPAND DISPLAY BROWSE SPECIFIC KEYWORDS				
(EC)	CHARACTER	32	*	BROWSE work area
(EC)	BITSTRING	1	*	Status flags
	1... ..		*	Reserved
	.1.. ..		EXPANDAC	EXPAND active
	..1. ....		EXPANDNX	SET TO 1 WHEN 1ST NEXT IS OK *
	...1 ....		DISPLYAC	DISPLAY active
	.... 1...		*	Reserved
	.... .1..		CREATCOM	Create command
	.... ..1.		POOLINPR	Terminal pool in progress
	.... ...1		CONNINPR	Connection in progress
(ED)	BITSTRING	1	*	Reserved
(EE)	BITSTRING	1	*	Reserved
(EF)	BITSTRING	1	*	Reserved
(F0)	FULLWORD	4	EXPANDTY	EXPAND type (list or group) *
(F4)	ADDRESS	4	EXPKWA	EXPAND KWA pointer
(F8)	CHARACTER	8	EXPNAME	Name of group or list EXPANDed
(100)	FULLWORD	4	DISPLYTY	DISPLAY type (list or group) *
(104)	ADDRESS	4	DISPKWA	DISPLAY KWA pointer
(108)	UNSIGNED	2	BROWSID	Last Reqid used
(10A)	HALFWORD	2	*	Reserved for alignment
RESPONSE and REASON codes returned via API				
(10C)	FULLWORD	4	APIRESP	API Response code
(110)	FULLWORD	4	APIREAS	API Reason code
(110)	UNSIGNED	2	APIREAS_HIGH	High halfword of Reason
(112)	UNSIGNED	2	APIREAS_LOW	Low halfword of Reason
Information from the Parameter List passed to DFHCSDUP from a user program.				
(114)	CHARACTER	8	CSD_NAME	DD NAME OF ALTERNATIVE CSD
Name of the current terminal pool or connection being installed				
(11C)	CHARACTER	8	TLS_POOL_NAME	Terminal pool in progress
(11C)	CHARACTER	4	TLS_CONN_NAME	Connection in progress
(128)	CHARACTER		*	End of storage

## SRA SRB interface mapping

MODULE NAME = DFHSRADS  
 DESCRIPTIVE NAME = CICS SRB INTERFACE MAPPING  
 SRB INTERFACE CONTROL AREA

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHSRADS	
(0)	BITSTRING	1	SRAFLAGS	FLAGS FIELD
NB BIT SRAVTAM IS REFERENCED BY DFHDSSUB AND MUST NOT BE MOVED				
	1... ..		SRAVTAM	"X'80" VTAM AUTH. PATH INSTALLED
NB BIT SRAVTAM IS REFERENCED BY DFHDSSUB AND MUST NOT BE MOVED				
#	.1... ..		SRAICIP	"X'40" VSAM ICIP INSTALLED <b>APAR PQ39889</b>
#				added SRAFLAG2 and SRASCHED
#	(1) BITSTRING	1	SRAFLAGS2	FLAGS FIELD
#	1... ..		SRASCHED	"X'80" SRB scheduled
#	(2) BITSTRING	2		RESERVED
	(4) ADDRESS	4		Reserved - was SRANXHTA
	(8) DBL WORD	8	(0)	DOUBLE WORD ALIGN FOR CDS
	(8) ADDRESS	4	SRARQCHN	HEAD OF SRB REQUEST CHAIN
	(C) FULLWORD	4		COUNTER FOR CDS PAIR
	(10) ADDRESS	4	SRARQEND	LAST ITEM IN REQUEST CHAIN
	(14) ADDRESS	4	(2)	RESERVED
	(1C) ADDRESS	4	SRASRXA	ADDRESS OF SRX BLOCK
	(20) FULLWORD	4		RESERVED
COUNTERS TO CONTROL SRB SCHEDULING				
(24)	FULLWORD	4	SRALRQCT	OUTSTANDING LONG REQUESTS
(28)	DBL WORD	8	(0)	ALIGN ON DWORD BOUNDARY. FOLLOWING TWO FIELDS FORM A CDS PAIR
(28)	FULLWORD	4	SRASRQXS	EXCESS OF OUTSTANDING SHORT REQUESTS OVER LIMIT (SET INITIALLY TO -SRARQLIM)
(2C)	FULLWORD	4	SRASHORT	EXCESS OF SHORT RUN SRBS OVER LIMIT (INIT -SRASRLIM)
(30)	FULLWORD	4	SRATOTAL	TOTAL RUNNING SRB'S
(34)	FULLWORD	4	SRARQLIM	SHORT TERM REQUEST THRESHOLD
(38)	FULLWORD	4	SRASRLIM	SHORT TERM SRB THRESHOLD
	.... ..1.		SRARQLMV	"2" REQUEST COUNT THRESHOLD
	.... ..1.		SRASRLMV	"2" SHORT RUN SRB THRESHOLD
	..11 11..		SRAAD	**"DFHSRADS" LENGTH OF SRA

## SRB Service request block

```

START OF SPECIFICATIONS
01 PROPRIETARY STATEMENT =
    LICENSED MATERIALS - PROPERTY OF IBM
    THIS MACRO IS "RESTRICTED MATERIALS OF IBM"
01 STATUS: HBB5520
01 DESCRIPTIVE NAME: Service Request Block
02 ACRONYM: SRB
01 EXTERNAL CLASSIFICATION:
02 DMTI:BASE
02 GUPI:FIELDS
    SRBASCB
    SRBCPAFF
    SRBEP
    SRBFRRRA
    SRBID
    SRBPARM
    SRBPASID
    SRBPKF
    SRBPTCB
    SRBRMTR
01 END OF EXTERNAL CLASSIFICATION:
01 MACRO NAME: IHASRB
01 DSECT NAME:
    SRBSECT
01 COMPONENT: SUPERVISOR CONTROL (SC1C5)
01 EYE-CATCHER: SRB
02 OFFSET: 0
02 LENGTH: 4
01 STORAGE ATTRIBUTES:
02 SUBPOOL: Common, Fixed Storage
02 KEY: 0
02 RESIDENCY: ABOVE OR BELOW THE 16M LINE
01 SIZE: 44 BYTES
01 CREATED BY:
    Control program routines
01 POINTED TO BY:
    Built and initialized in user-allocated storage and
    passed as a parameter to the SCHEDULE macro.
    Pointed to by register 0 on entry to the SRB routine
    whose address is in SRBEP.
    ASCBXMPQ FIELD OF THE ASCB DATA AREA
    ASXBFSRB FIELD OF THE ASXB DATA AREA
    ASXBLSRB FIELD OF THE ASXB DATA AREA
    IOSSRB FIELD OF THE IOSB DATA AREA
    PCBSRB FIELD OF THE PCB DATA AREA
    SRBFLNK FIELD OF THE SRB DATA AREA
    SVTGSMQ FIELD OF THE SVT DATA AREA
    SVTLSTMQ FIELD OF THE SVT DATA AREA
    SVTSRBA FIELD OF THE SVT DATA AREA
    TQESRB FIELD OF THE TQE DATA AREA
    TVCSSRBA FIELD OF THE TVCS DATA AREA
    WEBUPTR field of the WEB data area
01 SERIALIZATION:
    Owner-serialized.
01 FUNCTION:
    Used as input to the SCHEDULE macro when scheduling a
    routine for asynchronous execution.
01 METHOD OF ACCESS =
    BAL- DSECT ALWAYS PRODUCED, PERFORM USING ON SRBSECT
    BAL LISTING - SPECIFY LIST=YES OR NO ON MACRO CALL
    PLUS - SRBSECT WILL BE BASED(SRBPTR) .
    1. IF YOU WISH TO APPEND THE SRB TO THE END OF
        WHERE N IS AN INTEGER BETWEEN 2 AND 3,INCLUSIVE.
        SRBSECT WILL THEN BE AN UNBASED LEVEL N VARIABLE.
    2. IF YOU WISH TO APPEND ANOTHER CONTROL BLOCK TO THE END
        THE END OF THE SRB WILL BE REPLACED WITH A COMMA.
    EXAMPLE OF PLACING SRB BETWEEN TWO OTHER BLOCKS:
    DECLARE 1 MYBLOCK,
        2 MYFIELD,
        2 MYFIELD2
01 COMPONENT = SC1C5 (SUPERVISOR CONTROL)
01 DISTRIBUTION LIBRARY = AMACLIB
END OF SPECIFICATIONS
    
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)			SRBSECT	
(0)	ADDRESS	4	SRB (0)	
(0)	CHARACTER	4	SRBID	EBCDIC ACRONYM FOR SRB OR SSRB.
(4)	ADDRESS	4	SRBFLNK	FORWARD CHAIN FIELD



Offset Hex	Type	Len	Name (Dim)	Description
(8)	ADDRESS	4	SRBASCB (0)	PTR TO ASCB OF ADDRESS SPACE SRB IS TO BE DISPATCHED TO
(8)	BITSTRING	1		RESERVED. DO NOT USE.
(9)	ADDRESS	3	SRBASC24	24-bit ASCB address
(C)	CHARACTER	8	SRBFLC (0)	SRB AREA MOVED TO LOW CORE
(C)	BITSTRING	2	SRBCPAFF	CPU AFFINITY MASK
(E)	HALFWORD	2	SRBPASID	PURGEDQ ASID IDENTIFIER
(10)	ADDRESS	4	SRBPTCB	PURGEDQ TCB IDENTIFIER
(14)	ADDRESS	4	SRBEP (0)	ENTRY POINT OF ROUTINE
(14)	ADDRESS	4	SRBEPA	ADDRESS OF ENTRY POINT (31-BIT USERS)
	1... ....		SRBMODE	"X'80" ADDRESSING MODE INDICATOR
(18)	ADDRESS	4	SRBRMTR (0)	ADDRESS OF RESOURCE MANAGER ROUTINE
(18)	ADDRESS	4	SRBRMTRA	ADDRESS OF RESOURCE MANAGER ROUTINE (31-BIT USERS)
	1... ....		SRBRMODE	"X'80" ADDRESSING MODE INDICATOR
(1C)	ADDRESS	4	SRBPARM	USER PARAMETER
(20)	ADDRESS	4	SRBWEB (0)	Address of this SRB's WEB. SERIALIZATION: None OWNERSHIP: Supervisor Control
(20)	ADDRESS	4	SRBSAVE	Reserved. Must be Zero. SERIALIZATION: None OWNERSHIP: Supervisor Control
(24)	BITSTRING	1	SRBPKF	PROTECT KEY INDICATION
(25)	BITSTRING	1	SRBPRIOR (0)	PRIORITY LEVEL INDIC
(25)	BITSTRING	1	SRBFLGS	SRB OPTION FLAGS
	1... ....		SRBLLREQ	"X'80" LOCAL LOCK REQUIRED
	.1. ....		SRBLLHLD	"X'40" LOCAL LOCK HELD
	.1. ....		SRBFRRREQ	"X'20" FRR REQUESTED
	...1 ....		SRBFRRCL	"X'10" THIS BIT IS OBSOLETE SINCE FRR PARM AREA ALWAYS CLEARED BY DISPATCHER. RETAINED FOR COMPATIBILITY.
	.... 1..		SRBSUSP	"X'08" SUSPENDED SRB ONLY ON FOR SSRB
	.... .1.		SRBPNONQ	"X'04" NON QUIESCABLE SRB
	.... ....		SRBPSYS	"X'00" SYSTEM PRIORITY LEVEL
(26)	BITSTRING	1	SRBHLHI	INDICATION OF SUSPEND LOCKS HELD AT SRB SUSPENSION
(27)	BITSTRING	1	SRBFLGS1	SRB TYPE FLAGS.
	1... ....		SRBMAIN	"X'80" SRB/SSRB MUST BE FREEMAINED.
	.1. ....		SRBSP245	"X'40" SRB/SSRB FROM SUBPOOL 245.
	.1. ....		SRBBLK24	"X'20" SRB BELOW THE LINE
	...1 ....		SRBXESF	"X'10" Mode=primary FRR - only meaningful if SRBFRRREQ is set.
	.... 1..		SRB1STS	"X'08" This SSRB represents the initial schedule of a workunit and has never been dispatched.
	.... .1.		SRBPMCS	"X'04" This SRB is in process-must complete mode
	.... .1.		SRBMSCHD	"X'02" This SRB was scheduled via the IEAMSCHD macro
	.... ...1		SRBRES7	"X'01" RESERVED.
(28)	ADDRESS	4	SRBFRRR	FRR ROUTINE ADDRESS
(2C)	FULLWORD	4	SRBEND (0)	END OF SRB
	.1. 11..		SRBSIZE	"SRBEND-SRBSECT" SIZE OF SRB
	.... ....		DFHSRXDS	"SRBSECT" CICS NAME FOR SECTION
(30)	DBL WORD	8	(0)	ALIGN START OF CICS FIELDS ON DOUBLE WORD BOUNDARY
START OF CICS EXTENSION AREA				
(30)	ADDRESS	4	SRXRTNA	MVS SRB RETURN ADDRESS
(34)	ADDRESS	4	SRXCSCAA	ADDRESS OF CICS CSA
(38)	ADDRESS	4	SRXEXLA	ADDRESS OF VTAM EXIT LIST, WHICH IS PROTECTED FOR SRB MODE USE
(3C)	ADDRESS	4	SRXKCSA	ADDRESS OF KCSP ENTRY LIST
(40)	ADDRESS	4	SRXRSCA	ADDRESS OF OS REGISTER SAVE AREA POOL CONTROL AREA
(44)	ADDRESS	4	SRXVAA	ATTACH-SRB VALIDATION
(48)	ADDRESS	4	SRXVEA	ENTER-SRB VALIDATION
(4C)	ADDRESS	4	SRXVTA	VTAM VALIDATION DATA
(50)	ADDRESS	4	SRXVSA	VSAM VALIDATION DATA
(54)	BITSTRING	1	SRXPPKEY	CICS PP STATE PROTECT KEY
(58)	DBL WORD	8	(0)	DOUBLE WORD ALIGN FOR CDS
(58)	ADDRESS	4	SRXNXSVA	HEAD OF FREE SAVE AREA
(5C)	FULLWORD	4		CHAIN AND COUNTER (CDS PAIR) *
(60)	FULLWORD	4	SRXSAVE (16)	SAVE AREA FOR KCSP FOR BRANCH ENTRY TO POST *
(A0)	DBL WORD	8	(0)	ROUND UP TO DOUBLE WORD
	1.1. ....		SRXAAD	"-DFHSRXDS" LENGTH OF SRX
	1111 .1.1		SRXSBPL	"245" SUBPOOL FOR SRX (SQA)
DEFINITIONS OF OFFSETS IN SAVE AREAS				
	.1. 1..		RSCSVCHN	"72" FREE CHAIN FIELD (HEAD OF CHAIN IS IN SRXNXSVA) *
	.1. 1..		RSCSVFRR	"72" FRR PARAMETER AREA ADDR WHEN SAVE AREA IN USE *
	.1.1 ....		RSCSVLTH	"80" LENGTH OF SAVE AREA
	1111 11..		RSCSBPL	"252" SUBPOOL FROM WHICH SAVE AREAS ARE OBTAINED *
Definitions of offsets in FRR Parm Area				
	.... .1.		FRRPSRX	"4" SRX Address
	.... 1..		FRRPRSCS	"8" OS reg save area address
	.... 11..		FRRPRSA	"12" Reg save area used by FRR code
	...1 .111		FRRPISDW	"23" SDWA indicator
	.... 11..		FRRPSDW	"X'0C" SDWA was not passed

**SRED System recovery error data**

CONTROL BLOCK NAME = DFHSREDS  
 DESCRIPTIVE NAME = CICS System Recovery Error Data  
 FUNCTION = Declares the SRP\_ERROR\_DATA structure. This  
 contains information about an MVS abend, and is  
 passed to global user exit XSRAB.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	392	SRP_ERROR_DATA	SRP error data
(0)	CHARACTER	4	SRP_ERROR_TYPE	Abend type 'ASRB'
(4)	BITSTRING	2	SRP_SYS_ABCODE	System abend code
(6)	BITSTRING	2	SRP_USER_ABCODE	User abend code
(8)	CHARACTER	4	SRP_ERROR_TRANID	Transaction id
(C)	CHARACTER	8	SRP_ERROR_ STACK_NAME	Kernel stack program
(14)	CHARACTER	8	SRP_ERROR_PPT_NAME	PPT program
(1C)	FULLWORD	4	SRP_ERROR_OFFSET	Offset in program
(20)	BITSTRING	1	SRP_ERROR_FLAGS	Flags
	1... ..		SRP_CICS_CODE	Abend in CICS code
	.1.. ..		SRP_USER_CODE	Abend in user code
	.1. ....		SRP_PPT_ENTRY	PPT program present
	...1 ....		SRP_VALID_ OFFSET	Valid offset present
	.... 1...		SRP_VALID_ REASON	Abend reason present
	.... .1..		SRP_NOT_CICS_RB	CICS RB not in control at time of error
	.... ..11		*	Reserved
(21)	CHARACTER	4	SRP_ERROR_REASON	Abend reason code
(25)	CHARACTER	3	*	Reserved
(28)	CHARACTER	152	SRP_CICS_ ERROR_DATA	CICS error data
(28)	CHARACTER	8	SRP_CICS_EC_PSW	CICS EC PSW
(28)	CHARACTER	2	*	Padding
(2A)	1... ..		SRP_CICS_AR_MODE	AR mode?
(30)	CHARACTER	8	SRP_CICS_EC_INT	CICS interrupt data
(38)	CHARACTER	64	SRP_CICS_REGST	CICS GP regs
(78)	CHARACTER	64	SRP_CICS_AC_REGST	CICS Access Regs
(B8)	UNSIGNED	1	SRP_CICS_EXEC_KEY	CICS PSW key N in form X'0N'
(B9)	CHARACTER	7	*	Reserved
(C0)	CHARACTER	152	SRP_SYSTEM_ ERROR_DATA	System error data
(C0)	CHARACTER	8	SRP_SYSTEM_EC_PSW	System EC PSW
(C0)	CHARACTER	2	*	Padding
(C2)	BITSTRING	1	*	Padding
(C3)	1... ..		SRP_SYSTEM_ AR_MODE	AR mode ?
(C8)	CHARACTER	8	SRP_SYSTEM_EC_INT	System interrupt data
(D0)	CHARACTER	64	SRP_SYSTEM_REGST	System GP regs
(110)	CHARACTER	64	SRP_SYSTEM_AC_REGST	System Access regs
(150)	UNSIGNED	1	SRP_SYSTEM_EXEC_KEY	System PSW key N in form X'0N'
(151)	CHARACTER	7	*	Reserved
(158)	CHARACTER	32	SRP_ERROR_FP_REGS	FP regs
(158)	CHARACTER	8	SRP_FP_REG_0	FP reg 0
(160)	CHARACTER	8	SRP_FP_REG_2	FP reg 2
(168)	CHARACTER	8	SRP_FP_REG_4	FP reg 4
(170)	CHARACTER	8	SRP_FP_REG_6	FP reg 6
(178)	CHARACTER	16	SRP_ERROR_ SUBSPACE_INFO	
(178)	CHARACTER	4	SRP_ALET	ALET
(17C)	CHARACTER	8	SRP_SUBSPACE_TOKEN	Subspace token
(184)	BITSTRING	1	SRP_SUBSPACE_FLAGS	
	1... ..		SRP_SUBSPACE_ ACTIVE	Subspace/basespace
	.111 1111		*	Reserved
(185)	CHARACTER	3	*	Reserved

## SRT System recovery table

CONTROL BLOCK NAME = DFHSRTDS  
 DESCRIPTIVE NAME = CICS System Recovery Table.  
 FUNCTION =  
 The System Recovery Table contains a list of System Abend codes that are intercepted by the Recovery program (DFHSRP).  
 The user has the option of modifying the Table to meet his special requirements by use of the DFHSRT macros.  
 The Table is loaded at CICS/MVS initialization.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHSRTDS	SYSTEM RECOVERY TABLE DSECT
(0)	CHARACTER	4	SRTABCID	ABEND CODE IDENTIFICATION
	.... .1..		SRTED	"(-DFHSRTDS)" ENDING DISPLACEMENT

## SSA Static storage area address list

MACRO NAME = DFHSSAD  
 DESCRIPTIVE NAME = CICS STATIC STORAGE AREA ADDRESS LIST  
 FUNCTION = DFHSSAD GENERATES THE DSECT THAT IS USED BY CICS/ESA TO REFERENCE THE LIST OF STATIC STORAGE AREA ADDRESSES.

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = NONE  
 REGISTER CONVENTIONS = NOT APPLICABLE  
 PATCH LABEL = NOT APPLICABLE  
 MODULE TYPE = MACRO  
 MODULE SIZE = NOT APPLICABLE  
 ATTRIBUTES = NOT APPLICABLE  
 MACRO NAME = DFHSSAD  
 DESCRIPTIVE NAME = STATIC STORAGE AREA ADDRESS LIST  
 DSECT NAME: DFHSSADS  
 FUNCTION =  
 The Static Storage Area Address List is a list of addresses of the static storage areas used by various CICS modules.  
 CSASSA in the CSA Optional Features List (CSAOPFL) addresses the SSA address list.

Offset Hex	Type	Len	Name (Dim)	Description	
(0)			DFHSSADS	STATIC STORAGE AREA ADDRESS LIST	
(0)	ADDRESS	4	SSACPI	CPI static storage address	
(4)	ADDRESS	4	SSAAITM	AITM static storage address	
(8)	ADDRESS	4	SSAPRM	Partner Manager static storage address	
(C)	ADDRESS	4		Reserved	
(10)	ADDRESS	4	SSADLI	DLP PARAMETER AREA & DFHDLI STORAGE ADDRESS	
(14)	ADDRESS	4	SSATMP	TABLE MANAGER STATIC STORAGE AREA ADDRESS	
(18)	BITSTRING	1	SSAPCFLG	DFHPCPC2 static storage flag	
	1... ....		PCSCOBGM	"X'80" Cobol getmain in progress	
(19)	BITSTRING	3		Reserved	
(1C)	ADDRESS	4	SSACRL	anchor block for DFHCRL (only used during emergency restart)	
(20)	ADDRESS	4	SSATSP	TEMPORARY STORAGE STATIC STORAGE AREA ADDRESS (VSAM ACB)	
(24)	ADDRESS	4	SSAAPRD	APRD address of RDAB	
(28)	ADDRESS	4	SSAKCP	Transaction Manager static storage addr	
(2C)	ADDRESS	4	SSASKM	SUBTASK MANAGER STATIC STORAGE ADDR	
(30)	ADDRESS	4	SSASZ	Front-End Programming Interface Static	
(34)	ADDRESS	4	SSADB2	CICS/DB2 static storage	
(38)	ADDRESS	4	SSARCP	RECOVERY CONTROL STATIC STORAGE ADDR	
(3C)	ADDRESS	4		Reserved	
(40)	ADDRESS	4	SSAXRF	XRF static storage area addr	
(44)	ADDRESS	4	SSAXRP	XRP static storage area addr (storage allocated by XRA)	
#				<b>APAR PQ31328</b>	
#				added SSAAPLH	
#	(48)	ADDRESS	4	SSAAPLH	APLH static storage area addr
	(4C)	ADDRESS	4	SSAICP	ICP static storage area addr
	(50)	ADDRESS	4	SSAAPDM	DFHAPDM's static storage area addr
	(54)	FULLWORD	4	SSASTOP	END STOPPER
	.1.1 1...		SSALEN	"-DFHSSADS" LENGTH OF STATIC AREA ADDRESS LIST	

**STG      Statistics domain statistics**

CONTROL BLOCK NAME = DFHSTGDS  
 DESCRIPTIVE NAME = CICS Statistics domain statistics  
 FUNCTION =  
     This DSECT describes the statistics maintained by the statistics domain on its own operation.  
     This control block belongs to the Statistics Domain. There is a single instance of the control block which is copied to SMF at each statistics interval.  
 LIFETIME =  
     This control block is created when the Statistics Domain is initialized and is destroyed when the domain is shut down.  
 STORAGE CLASS =  
 LOCATION =  
     This control block is part of the Statistics domain anchor block.  
 INNER CONTROL BLOCKS = None  
 NOTES :  
     DEPENDENCIES = S/370  
     RESTRICTIONS = none  
     MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = none  
     DATA AREAS = none  
     CONTROL BLOCKS = none  
     GLOBAL VARIABLES (Macro pass) = none

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHSTGDS	Statistics domain statistics
(0)	FULLWORD	4	(0)	Reserved
(0)	HALFWORD	2	STGLEN	Length of data
	.1.. .1.		STGIDE	"66" Stats domain id mask
(2)	ADDRESS	2	STGID	Stats domain id
	.... .1		STGVERS	"X'01" Stats version number mask
(4)	CHARACTER	1	STGDVERS	Stats version number
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	STGNC	Number of collections
(C)	FULLWORD	4	STGSMFW	Number of SMF writes
(10)	FULLWORD	4	STGLDW	Length of data written
	...1 .1..		STGEND	""
	...1 .1..		STGCLEN	""-STGLEN" Length of stats

## STI Statistics record identifiers

CONTROL BLOCK NAME = DFHSTIDS  
 DESCRIPTIVE NAME = CICS Statistics Record Identifiers.  
 FUNCTION = This copybook contains the common 5 byte header for statistics records and a list ( as equates ) of all the valid statistics record ids.  
 This copybook is provided for use by both CICS and user transactions to identify the source of a statistics record appearing at the Stats Exit, the SMF dataset or the EXEC API.  
 LIFETIME = There is no storage dedicated to this copybook  
 STORAGE CLASS = n/a  
 LOCATION = n/a  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = None  
 CONTROL BLOCKS = None  
 GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHSTIDS	Stats record header
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	STILEN	Length of the record
(2)	ADDRESS	2	STID	Stats id
(4)	CHARACTER	1	STIVERS	Stats record version
	.... .1.		STISMDSA	"2" Storage manager DSA id
	.... .1.1		STISMD	"5" Storage mgr domain subpool id
	.... .11.		STISMT	"6" Storage manager task subpool id
	.... 1.1.		STIXMG	"10" Transaction manager (Globals) id
	.... 1.11		STIXMR	"11" Transaction manager (Trans) id
	.... 11..		STIXMC	"12" Transaction manager (Tclass) id
	...1 ....		STIFEPIP	"16" FEPI pool id
	...1 ...1		STIFEPIP	"17" FEPI connection id
	...1 .1.		STIFEPIP	"18" FEPI target id
	...1 .1.1		STIVT	"21" VTAM stats id
	...1 .111		STIPAUTO	"23" Program Autoinstall id
	...1 1...		STIAUTO	"24" Terminal Autoinstall stats id
	...1 1..1		STILDR	"25" Loader (Resid) id
	...1 11..		STIDBUSS	"28" DBCTL USS id
	...1 111.		STILDG	"30" Loader (Globals) id
	..1. .1.		STITCR	"34" Terminal control (Resid) id
	..1. .111		STILSRR	"39" LSRPOOL pool stats (resid) id
	..1. 1...		STILSRFR	"40" LSRPOOL File stats (by file) id
	..1. 1.1.		STITDQR	"42" TDQUEUE (Resid) id
	..1. 11.1		STITDQG	"45" TDQUEUE (Globals) id
	..11 ....		STITSQ	"48" TSQUEUE stats id
	..11 .1..		STICONS	"52" ISC/IRC system entry (resid) id
	..11 .11.		STICONS	"54" ISC connection - System Security
	..11 .111		STIDS	"55" Dispatcher stats id
	..11 11.1		STIUSG	"61" User Domain stats id
	..11 1111		STITM	"63" Table manager stats id
	..1. .1.		STIST	"66" Stats stats id
	..1. .11		STIFCR	"67" File Control (Resid) id
	..1. 11..		STICONMR	"76" ISC/IRC mode entry (resid) id
	..1.1 ...1		STIM	"81" Monitoring stats (Global) id
	..1.1 .1.		STIMNR	"82" Monitoring stats (Resid) id
	..1.1 .1.1		STITDR	"85" Transaction dump (Resid) id
	..1.1 .111		STITDG	"87" Transaction dump (Global) id
	..1.1 1...		STISDR	"88" System dump (Resid) id
	..1.1 1.1.		STISDG	"90" System dump (Global) id
	..1.1 11.1		STILGR	"93" Logger stats (Resource) id
	..1.1 111.		STILGS	"94" Logstream stats (Resource) id
	..11. ...1		STINQG	"97" ENQ Manager stats (Global) id
	..11. .11		STIRMG	"99" Recovery Mgr stats (Global) id
	..11. .11.		STID2G	"102" DB2 Connection stats (Global) id
	..11. .111		STID2R	"103" DB2 Entry stats (Resource) id
	..11. 11..		STISOR	"108" TCPIP Services (Resource) id
	.... .1.1		STIEND	**
	.... .1.1		STICLEN	** -STILEN" Length of DSECT

**TACB Transaction abend control block**

CONTROL BLOCK NAME = DFHTACBS  
 DESCRIPTIVE NAME = CICS Transaction Abend Control Block  
 FUNCTION =  
 A Transaction Abend Control Block is built, usually by DFHPCP, when abend processing is performed. It contains details of the abend, such as the abend code. The address of the latest TACB for a task is in TCAPCAB in the TCA. If multiple abends occur, one TACB per abend is built. TACBs are chained together using ABNDNXT in the TACB. Note that for ASRA, ASRB, ASRD and AICA abends the TACB is built by DFHSRP, so we can capture (1) the PSW and registers at the time of the program check, MVS abend or runaway, and (2) the diagnostics provided by DFHSRP such as storage hit by 0C4, and offset of program check or MVS abend in program. Note that abends in a remote DPL server program are re-issued with the same abend code on the local system. The PSW and registers are not valid for such re-issued abends, and the TACB contains a REMOTE eyecatcher to indicate this. The TACB for such abends is built by DFHEPC.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	277	DFHABND	Transaction Abend Control Block
(0)	CHARACTER	8	*	Eyecatcher information
(0)	HALFWORD	2	ABNDSAAC	- Length of dsect.
(2)	CHARACTER	1	ABNDSAAS	- Arrow(>)
(3)	CHARACTER	5	ABNDSAAL	- DSECT name ('TACB')
(8)	ADDRESS	4	ABNDNXT	A(NEXT TACB) OR 0
(C)	HALFWORD	2	*	RESERVED
(E)	CHARACTER	2	ABNDFLGS	
(E)	CHARACTER	1	ABNDFLG1	- VALID FIELDS
			ABNDREQI	- REQUEST ID
			ABNDNXTI	- NEXT TACB
			ABNDRSRI	- FAILING RESOURCE
			ABNDPRGI	- FAILING PROGRAM
			ABNDREGI	- ABEND REGISTERS
			ABNDSNSI	- SENSE BYTES
			ABNDMSGI	- A(MESSAGE)
			ABNDSYSI	- SYSID
(F)	CHARACTER	1	ABNDFLG2	- VALID FIELDS
			ABNDRABD	- LOWER LEVEL ABEND
			ABNDCDE	- ABEND CODE SET
			ABNDOCDE	- OP SYS AB CODE SET
			ABNDREMT	- RE-ISSUING AN ABEND THAT ORIGINATED IN DPL SERVER PROGRAM
			ABNDIGNORE	- IGNORE HANDLES
			ABNDSTART	- ABEND RECORD COMPLETE, START_ABEND ISSUED
			ABNDMDP	- DUMP REQUESTED
			ABNDEDTB	- DTB ABEND
(10)	CHARACTER	8	ABNDNAME	'DFHTACB' EYECATCHER
(18)	CHARACTER	4	ABNDSTAT	STATUS FLAGS
(18)	BITSTRING	1	ABNDSYAB	- CONTENTS OF TCASYABI
(19)	BITSTRING	2	ABNDPCTR	- CONTENTS OF TCAPCTR
(1B)	BITSTRING	1	ABNDCAXI	- CONTENTS OF TCAPCAXI
(1C)	CHARACTER	4	ABNDCODE	ABEND CODE
(20)	CHARACTER	8	ABNDPRG	FAILING PROGRAM
(20)	CHARACTER	8	ABNDPGM	- ALIAS
(28)	CHARACTER	4	ABNDREQ	REQUEST ID
(2C)	CHARACTER	8	ABNDRSRC	FAILING RESOURCE
(34)	CHARACTER	4	ABNDSYST	IF ABNDREMT IS SET, THIS FIELD CONTAINS THE SYSID OF THE SYSTEM FROM WHICH THE DPL SERVER ABEND WAS RECEIVED
(38)	ADDRESS	4	ABNDSETX	SETXIT FLAGS/ADDRESS
(3C)	CHARACTER	4	ABNDSENS	SENSE BYTES
(3C)	BITSTRING	1	ABNDSSN1	- SYSTEM SENSE 1
(3D)	BITSTRING	1	ABNDSSN2	- SYSTEM SENSE 2
(3E)	BITSTRING	1	ABNDUSN1	- USER SENSE 1
(3F)	BITSTRING	1	ABNDUSN2	- USER SENSE 2
(40)	CHARACTER	6	*	ERROR MESSAGE DATA
(40)	ADDRESS	4	ABNDAMSG	- A(ERROR MESSAGE)
(44)	HALFWORD	2	ABNDMLN	- L(ERROR MESSAGE)
(46)	CHARACTER	2	*	EXTRA ASRA/ASRB INFO
(46)	UNSIGNED	1	ABNDKEY	- EXECUTION KEY N AT ABEND, HELD IN FORM X'N0'. (ASRA AND ASRB)
(47)	UNSIGNED	1	ABNDSTG	- STORAGE TYPE HIT BY 0C4. (ASRA ONLY)
(48)	CHARACTER	4	ABNDOCOD	OP SYS ABEND CODE
(4C)	FULLWORD	4	ABNDOFF	OFFSET OF ERROR IN FAILING PROGRAM. 'FFFFFFF' MEANS ERROR OCCURRED OUTSIDE PROG. (ASRA, ASRB, ASRD)
(50)	CHARACTER	88	*	
(50)	CHARACTER	8	ABNDPSNM	'REGS&PSW' EYECATCHER
(58)	CHARACTER	64	ABNDGPRS	GP REGISTERS 0 - 15 ON ENTRY TO ABEND
(58)	CHARACTER	64	ABNDREGS	
(58)	FULLWORD	4	ABNDREGX (0 15)	

Offset Hex	Type	Len	Name (Dim)	Description
(98)	CHARACTER	8	ABNDPSW	EC MODE PSW ON ENTRY TO ABEND (ASRA, ASRB, ASRD, AICA)
(A0)	CHARACTER	8	ABNDINT	ADDITIONAL EC MODE INFO (ASRA, ASRB, ASRD, AICA)
(A8)	CHARACTER	32	ABNDFPRS	FP REGISTERS 0,2,4,6 (ASRA, ASRB, ASRD, AICA)
(A8)	CHARACTER	8	ABNDFPR0	- FP REGISTER 0
(B0)	CHARACTER	8	ABNDFPR2	- FP REGISTER 2
(B8)	CHARACTER	8	ABNDFPR4	- FP REGISTER 4
(C0)	CHARACTER	8	ABNDFPR6	- FP REGISTER 6
(C8)	CHARACTER	64	ABNDACRS	Access registers
(C8)	FULLWORD	4	ABNDACREGS (0 15)	
(108)	CHARACTER	4	ABNDALET	ALET at time of abend
(10C)	CHARACTER	8	ABNDSTOKEN	STOKEN at time of abend *
(114)	CHARACTER	1	ABNDSPACE	space (basespace/subspace * at time of abend as passed on ABAB interface
(115)	CHARACTER		ABNDMSGT	MESSAGE TEXT (IF ANY)

## Constants

Len	Type	Value	Name	Description
1	DECIMAL	0	ABNDNOHIT	No hit or not 0C4
1	DECIMAL	1	ABNDCDSA	CDSA hit
1	DECIMAL	2	ABNDECDSA	ECDSA hit
1	DECIMAL	3	ABNDERDSA	ERDSA hit
1	DECIMAL	4	ABNDRDSA	RDSA hit
1	DECIMAL	5	ABNDEDSA	EUDSA hit
1	DECIMAL	6	ABNDUDSA	UDSA hit
ABNDKEY values				
1	DECIMAL	144	ABNDUSERKEY	USER key x'90'
1	DECIMAL	128	ABNDCICSKEY	CICS key x'80'

## TACLE Terminal abnormal condition line entry

CONTROL BLOCK NAME = DFHTCTLE  
 DESCRIPTIVE NAME = CICS Terminal Abnormal Condition Line Entry  
 FUNCTION =  
 Terminal Control Table Line Entry Prefix.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHTCTLE	DUMMY SECTION - LINE PREFIX
(0)	FULLWORD	4	TCTLEPSA	Storage accounting area
(4)	FULLWORD	4	TCTLEPCH	Error chain pointer
TERMINAL ERROR CODES				
(8)	CHARACTER	1	TCTLEPFL	Error flags
	.... ..1		TCECTIO	"X'01" Terminal I/O error code
	1... ..1		TCEMCTL	"X'81" Message too long error code
	1... ..1.		TCEMCTCT	"X'84" TCT search error code
	1... ..1.1		TCEMCROT	"X'85" Output rejected - read only
	1... ..1.1.1		TCEMCUI	"X'87" Unsolicited input on control UN
	1... ..1...		TCEMCIER	"X'88" Input event rejected error code
	1... ..11..		TCEMCOER	"X'8C" Output event rejected code
	1... ..11.1		TCEMCOLZ	"X'8D" Output length of zero error
	1... ..111.		TCEMCNOA	"X'8E" No output area error code
	1... ..1111		TCEMCOAE	"X'8F" Output area exceeded error code
	1..1 ..1..		TCEMCUC	"X'94" Unit check
	1..1 ..1.1		TCEMCUCS	"X'95" Unit check - should not occur
	1..1 ..1.1.		TCEMCUE	"X'96" Unit exception
	1..1 ..1.1.1		TCEMCUES	"X'97" Unit exception should not occur
	1..1 ..1.1.1		TCEMCUDT	"X'99" Undetermined unit error
	1..1 ..1111		TCEMIDR	"X'9F" Invalid DEST -- TCAM return
(9)	CHARACTER	1	TCTLEPF2	Flags 2
	.... ..1		TCEIDTD	"X'01" Dummy term displacement indicator
	.... ..1.		TCEIRE	"X'02" Repeating error indicator
	.... ..1..		TACCUER	"X'04" Control unit error flag
	.... ..1...		TACNPRO	"X'08" Non-process error flag
	.... ..1....		TCTECHLE	"X'10" Error chain last entry flag
	.... ..1....		TACNTEP	"X'20" Last TEP call indicator
(A)	HALFWORD	2		Reserved
(C)	FULLWORD	4	TCTLEPTE	Terminal entry address
	.... ..1....		TCTLEPRE	"-DFHTCTLE" Prefix length

## TCA Task control area

CONTROL BLOCK NAME = DFHTCAPS  
 DESCRIPTIVE NAME = CICS TASK CONTROL AREA  
 FUNCTION = The DFHTCAPS copybook declares the structure for the TASK CONTROL AREA (TCA). The TCA is the primary control block used by CICS to represent a transaction within AP domain.  
 The TCA is a single area of storage described by structure DFHUSTCA. However, it is also possible to access the TCA as two separate structures, DFHUSTCA (User area) and DFHTCADY (System area). Field TCASYAA in DFHUSTCA contains the address of DFHTCADY, for this purpose.  
 When reading code that deals with TCA fields, it is important to know which method of access is used.

## NOTES :

DEPENDENCIES = S/370  
 RESTRICTIONS = NONE  
 REGISTER CONVENTIONS = NOT APPLICABLE  
 PATCH LABEL = NOT APPLICABLE  
 MODULE TYPE = COPY  
 MODULE SIZE = NOT APPLICABLE  
 ATTRIBUTES = NOT APPLICABLE  
 : and REMOVE TCAASRD  
 PRODUCT-SENSITIVE PROGRAMMING INTERFACE  
 The following field forms part of the Product-Sensitive Programming Interface:  
 TCAICTR

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	776	DFHUSTCA	
TASK CONTROL AREA				
(0)	ADDRESS	4	TCASYAA	T C A SYSTEM AREA ADDRESS
(4)	BITSTRING	1	TCAXMSRF	XM secondary request flags *
	1... ..		TCAENQ31	1 - ENQ arg is above the line * 0 - ENQ arg is below the line
	.1.. ..		TCAENQTA	1 - MAXLIFETIME=TASK 0 - MAXLIFETIME=LUW
(5)	UNSIGNED	1	TCATCQL4	ENQ arg len (31 bit args)
(5)	UNSIGNED	1	TCATCQLN	ENQ arg len (24 bit args)
(6)	UNSIGNED	1	TCAGFLG1	TCA general flag1
	1... ..		TCAACPAC	DFHACP active for WEB
	.111 1111		*	Reserved
(7)	BITSTRING	1	TCAFCI	facility control indicator *
	111. ....		*	Reserved
	...1 ....		TCAFCID	AID FACILITY MASK.
	.... 1...		TCAFCDM	DESTINATION CONTROL TABLE
	.... .1..		TCAFICM	NON-TERMINAL FACILITY MASK *
	.... .1.		TCAFICM	K C P MACRO FILE MASK
	.... ..1		TCAFCTRM	TERMINAL FACILITY MASK
(8)	ADDRESS	4	TCAFCAAA	FACILITY CONTROL AREA ADDRESS, CONTENTS RELATED TO THE SYSTEM OR TASK-DEPENDENT FACILITY ASSOCIATED WITH THE TASK
(8)	ADDRESS	4	TCAFCPTR	facility control area address *
(C)	ADDRESS	4	TCACSOAD	A(CSA OPTIONAL FEATURES LIST)
(10)	ADDRESS	4	TCALCDSA	A(CURRENT KERNEL STACK ENTRY)
TASK CONTROL SECTION				
(14)	CHARACTER		TCAKCPBA	
(14)	CHARACTER	4	TCATCTFA	TCTTE ADDRESS,DCI=TERMINAL
(14)	CHARACTER	4	TCATCEA	TASK CONTROL EVENT CONTROL BLOCK ADDRESS
(14)	ADDRESS	4	TCATCQA4	ENQ arg addr (31 bit)
(14)	ADDRESS	4	TCATCQA	ENQ arg addr (24 bit)
(18)	CHARACTER	1	TCATCEI	TASK CONTROL EVENT CONTROL INDICATOR
(18)	BITSTRING	1	TCATCDC	TASK CONTROL DISPATCH CONTROL INDICATOR MASK MASK ABEND REQUESTED
(19)	BITSTRING	1	TCATCTR	TASK CONTROL TYPE OF REQUEST
	1... ..		*	TASK TERMINATION MASK
	.1.. ..		*	TASK WAIT MASK
	..1. ....		*	Reserved
	...1 ....		TCATOM	Attach request
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... .1.		*	Reserved
	.... ..1		*	Reserved
(1A)	CHARACTER	1	*	Reserved
(1B)	CHARACTER	1	TCAPCABR	PROGRAM CONTROL TASK ABEND REQUEST
(1B)	BITSTRING	1	TCAPCDMP	PROGRAM CONTROL TASK DUMPED INDICATOR
(1C)	BITSTRING	1	TCATCCFG	TERMINAL CONTROL COMPATABILITY CONTROL COMPATABILITY FLAGS AND OTHER USES
(1C)	BITSTRING	1	TCAPURGI	TASK PURGE INDICATOR
	1... ..		*	Reserved (was TCATPURG)
	.1.. ....		TCASPURG	system purgeable mask



Offset Hex	Type	Len	Name (Dim)	Description
	.1. ....		TCACTIND	
	...1 ....		TCACTFBF	FULL BUFFER FLAG
	.... 1...		TCAENQRR	RESUME required (see ENQ code) *
	.... .1..		TCAJOURN	Journaling in control
	.... .1..		*	Reserved (was TCASTGFZ)
	.... ...1		TCACTCMT	COMPATIBLE MODE TASK MASK INDICATOR
(1D)	CHARACTER	2	*	reserved
(1F)	BITSTRING	1	TCASYABI	SYSTEM ABEND REQUEST INDICATOR
	1... ....		TCAABIPM	ABEND IN PROGRESS MASK used during task termination
	.1.. ....		TCAABREC	ABEND RECOVERY IN PROGRESS * used to detect looping abends
	.1. ....		TCAABDPM	ABEND DUMP IN PROGRESS MASK
	...1 ....		TCAABRAM	RECURSIVE ABEND MASK
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... .1..		TCAA0C4	HANDLING 0C4 ABEND
	.... ...1		*	Reserved
Miscellaneous				
(20)	CHARACTER		*	
(20)	CHARACTER	4	*	Reserved
(24)	CHARACTER	4	TCATXNO	XM supplied txn number
(28)	CHARACTER	12	*	reserved
(34)	FULLWORD	4	TCARTNSV	INTERNAL RETURN REGISTER SAVE AREA
(38)	CHARACTER		TCAKCPFA	FINAL ADDRESS OF KCP AREA.
STORAGE CONTROL SECTION				
CONTROL BLOCK NAME = DFHTCUSC				
DESCRIPTIVE NAME = CICS DFHSC USER OVERLAY OF THE DFHTCA				
(38)	ADDRESS	4	TCASCSA	ADDRESS OF STORAGE AFTER IT HAS BEEN OBTAINED BY STORAGE CONTROL AND INITIALIZED TO REQUESTED CONFIGURATION
(3C)	BITSTRING	1	TCASCTR	STORAGE CONTROL TYPE OF REQUEST
	1... ....		TCASCGET	Getmain request
	.1.. ....		TCASCFRE	Freemain request
	.1. ....		TCASCREL	RELEASE=ALL
	...1 1...		*	Reserved
	.... .1..		TCASCUSR	User storage freemain
	.... ..11		*	Reserved
(3D)	CHARACTER	1	TCASCIB	VALUE TO WHICH STORAGE IS TO BE INITIALIZED: ZERO, BLANKS, ETC.
(3E)	UNSIGNED	2	TCASCNB	16-BIT UNSIGNED BINARY INTEGER REPRESENTING NUMBER OF BYTES REQUESTED FOR NON-PROGRAM STORAGE OR NUMBER OF DOUBLEWORDS REQUESTED FOR PROGRAM STORAGE.
REGISTER STORAGE				
(40)	ADDRESS	4	TCASCRS (8)	STORAGE CONTROL REGISTER STORAGE AREA: STORES REGISTERS 14 - 5
COMMON CONTROL				
(60)	FULLWORD	4	TCACCCA (9)	common control communication area used by some AP Domain modules as a parameter area *
(84)	FULLWORD	4	TCACCRS (14)	common control register save area used by some AP Domain modules.
(BC)	HALFWORD	2	TCACCSV1	SAVE AREA FOR BYTES OVERLAID BY DFHDC
(BE)	HALFWORD	2	*	Reserved
(C0)	FULLWORD	4	TCACCSV2	SAVE AREA FOR BYTES OVERLAID BY DUMP CODE
(C4)	CHARACTER		TCACCEA	COMMON CONTROL ENDING ADDRESS
TRACE				
CONTROL BLOCK NAME = DFHTCUTR				
DESCRIPTIVE NAME = CICS DFHTR USER OVERLAY OF THE DFHTCA				
(C4)	CHARACTER	8	TCATRF	Data area 1 and 2
(C4)	FULLWORD	4	TCATRF1	TRACE ENTRY DATA AREA 1
(C8)	FULLWORD	4	TCATRF2	TRACE ENTRY DATA AREA 2
(CC)	BITSTRING	1	TCATRTR	TYPE OF TRACE REQUEST
	11.. ....		TCATRET	Entry type '00' Make trace entry '01' Turn trace off '10' Turn trace on '11' Extended interface
	.1. ....		TCATRSM	System macro request
	...1 ....		*	Reserved
	.... 1111		TCATRST	Request sub-type X'F' Reserved X'E' Reserved X'D' Trace on/off X'C' Reserved X'B' Reserved X'A' Reserved X'9' Reserved
	.... 1...		*	X'8' PP entry X'7' Reserved X'6' Reserved X'5' LIFO exit trace
	.... .1..		TCATRSYS	X'4' System trace X'3' LIFO enter trace
	.... .1..		TCATRUSE	X'2' User trace
	.... ...1		*	X'1' Reserved X'0' Reserved
(CD)	BITSTRING	1	TCATRID	TRACE ENTRY IDENTIFICATION
(CE)	BITSTRING	1	TCATRMF	TCA TRACE CONTROL
	1... ....		TCATRSI	User trace for single task
	.111 1111		*	Reserved
(CF)	BITSTRING	1	TCATRID1	TRACE ENTRY I.D.EXTENSION
(D0)	ADDRESS	4	TCAEISTG	COMMAND LEVEL ASSEMBLER EXEC STORAGE
(D4)	ADDRESS	4	TCAJCAAD	JOURNAL CONTROL AREA (JCA) ADDRESS
(D8)	FULLWORD	4	TCAATAC	ABNORMAL TERMINATION ABEND CODE
(DC)	ADDRESS	4	TCACSAAD	CSA address
(E0)	CHARACTER	12	*	Reserved
(EC)	ADDRESS	4	TCATWAAD	Address of TWA in User storage *
(F0)	FULLWORD	4	TCATWALN	Length of TWA
(F4)	ADDRESS	4	TCAPCMEA	XPCTA, XPCHAIR, XPCFTCH modified address
(F8)	BITSTRING	1	TCAPCRFL	XPCTA retry execution key

Offset Hex	Type	Len	Name (Dim)	Description
(F9)	BITSTRING	1	TCAPCSTG	Storage hit by ASRA 0C4
(FA)	BITSTRING	1	TCAPCARO	XSRAB abend recovery option
(FB)	CHARACTER	1	*	Reserved
(FC)	ADDRESS	4	TCAPRUWA	APLI ruwa pool
(100)	CHARACTER		*	End of User area
(100)	CHARACTER		DFHTCADY	
SYSTEM AREA				
(100)	CHARACTER		DFHSYTCA	
(100)	CHARACTER	8	*	Reserved
(108)	ADDRESS	4	*	Reserved
(10C)	ADDRESS	4	*	Reserved
TASK CONTROL SECTION				
CONTROL BLOCK NAME = DFHTCSKC				
DESCRIPTIVE NAME = CICS DFHKC system overlay of the DFHTCA				
(110)	CHARACTER	4	TCATXNUM	TXN MGR transaction num
(110)	BITSTRING	1	*	X'00'
(111)	CHARACTER	3	TCAKCTTA	TASK IDENTIFICATION NUM
(114)	CHARACTER	8	TCASPOOL	TCA subpool id
(11C)	ADDRESS	4	TCATCPC	PROGRAM CONTROL TABLE ENTRY ADDRESS
(120)	ADDRESS	4	TCADCAA	TQE address
(120)	ADDRESS	4	TCATQEA	TQE ADDRESS
(124)	CHARACTER	4	*	Reserved
(128)	ADDRESS	4	TCARSTSK	RESUME TASK'S T C A ADDRESS
(12C)	ADDRESS	4	TCADWLBA	DEFERRED WORK LIST BEGIN ADDRESS
INTERVAL CONTROL SECTION				
CONTROL BLOCK NAME = DFHTCSIC				
DESCRIPTIVE NAME = CICS DFHC System Overlay of the DFHTCA				
INTERVAL CONTROL SECTION				
(130)	ADDRESS	4	TCAICEAD	INTERVAL CONTROL ELEMENT ADDRESS
(134)	ADDRESS	4	*	Reserved
PROGRAM CONTROL SECTION				
CONTROL BLOCK NAME = DFHTCSPC				
DESCRIPTIVE NAME = CICS Section used by PROGRAM CONTROL				
(138)	ADDRESS	4	TCAPCSA	Head of chain of PESAs used to stack ap info over a link
(13C)	CHARACTER	12	TCAPCTWA	PROGRAM CONTROL WORK AREA
(13C)	ADDRESS	4	*	Reserved
(140)	ADDRESS	4	TCAPCHS	HIGH-LEVEL-LANGUAGE SAVE AREA ADDRESS
TCAPCDSA IS THE HEAD OF THE CHAIN OF DYNAMIC STORAGE USED BY APPLICATION PROGRAMS TO MAKE THEM REENRANT. FOR PL/I IT IS THE CHAIN OF PL/I DSA'S (ALSO CALLED TCAPCPA) FOR COBOL IT IS THE TGT AND(FOR EXEC)WS (ALSO CALLED TCAPCCA) FOR ASSEMBLER(EXEC ONLY) IT IS THE DFHEISTG STORAGE HEADER FOR RPG IT IS THE ENTIRE PROGRAM				
(144)	CHARACTER	4	TCAPCPA	PL/I ACQUIRED AREA ADDRESS
(144)	CHARACTER	4	TCAPCCA	COBOL ACQUIRED AREA ADDRESS
(144)	ADDRESS	4	TCAPCDSA	DYNAMIC STORAGE HEADER ADDRESS
(148)	ADDRESS	4	*	Reserved
(14C)	CHARACTER	8	TCAPCIPN	Name of invoking program after DPL from client
TRANSIENT DATA SECTION				
CONTROL BLOCK NAME = DFHTCSTD				
DESCRIPTIVE NAME = CICS DFHTD system overlay of the DFHTCA				
TRANSIENT DATA SECTION				
(154)	ADDRESS	4	TCAIDAA	INTRAPARTITION DATA AREA
BASIC MAPPING SUPPORT				
CONTROL BLOCK NAME = DFHTCSBM				
DESCRIPTIVE NAME = CICS DFHBMS System Overlay of the DFHTCA				
BASIC MAPPING SUPPORT				
(158)	ADDRESS	4	TCAOSPWA	OUTPUT SERVICE PROCESSOR WORK AREA ADDRESS (BMS)
(15C)	ADDRESS	4	*	Reserved
(160)	BITSTRING	1	*	Reserved
(161)	CHARACTER	2	*	Reserved
(163)	BITSTRING	1	TCADLII	DL/I INDICATOR
	1... ....		TCADLISI	DL/I SCHEDULING INITIATED
	.111 1111		*	Reserved
(164)	FULLWORD	4	*	Reserved
RECOVERY / RESTART SECTION				
CONTROL BLOCK NAME = DFHTCSSP				
DESCRIPTIVE NAME = CICS DFHSP SYSTEM OVERLAY OF THE DFHTCA				
RECOVERY / RESTART SECTION				
(168)	BITSTRING	1	TCAZLUWD	TASK'S LOGICAL UNIT OF WORK (LUW) DEFINITION
	1... ....		TCAZAKPT	Activity keypoint
	.111 1111		*	Reserved

Offset Hex	Type	Len	Name (Dim)	Description
(169)	BITSTRING	1	TCAZLUWT	TASK'S LUW STATUS
	1... ..		TCAZRRD	A READ HAS OCCURRED IN THIS LUW
	.1. ....		TCAZRVRT	A WRITE HAS OCCURRED IN THIS LUW
	.1. ....		TCAZINDT	Next SHUNT is 'in-doubt'
	...1 1...		*	Reserved
	.... 1..		TCAZDLIC	DLI-SYNCHRONOUS 4 COMMUNICATION ESTABLISHED
	.... ..11		*	Reserved
(16A)	BITSTRING	1	TCABRPS	Rollback status
	11.. ....		*	Reserved
	.1. ....		TCABRPSR	Backout-Reqd prog state
	...1 1111		*	Reserved
(16B)	CHARACTER	1	*	Reserved
(16C)	ADDRESS	4	TCADWASV	SAVE ADDR OF DWE CHN.
(170)	CHARACTER	12	*	Reserved
(17C)	CHARACTER	4	TCAORABC	ORIGINAL ABEND CODE
(17C)	CHARACTER	4	TCADBABC	ABEND CODE OF APPLICATION.
(180)	BITSTRING	1	TCATRTO	TERMINAL READ TIME OUT VALUE
(181)	BITSTRING	1	TCAFLAGS	MISCELLANEOUS FLAGS
	1... ..		*	Reserved
	.1. ....		TCANOTRC	SUPPRESS TRACE FOR TASK
	.1. ....		*	Reserved
	...1 ....		TCASZUSE	FEPI Access in Task
	.... 1...		*	Reserved
	.... .1..		TCAUKCAL	MAKE CALL IN USER KEY
	.... .1.		*	Reserved
	.... ..1		*	Reserved
#				<b>APAR PQ25422</b>
#				removed TCAJVMXT
(182)	BITSTRING	1	TCASCS	SCREEN SIZE SELECTION ETC
	1... ..		TCAFASTL	FAST LINK to DFHMIRS
	.111 ....		*	Reserved
	.... 1..		TCASCSA	ALTERNATE SCREEN SIZE
	.... .1..		*	Reserved
	.... ..1		TCAPRTCM	BMS TEXT PRINTER COMPATIBILITY
	.... ..1		TCATCABT	DFHACP abending flag
(183)	BITSTRING	1	TCAIRTC	INTER REGION RETURN CODE
(184)	ADDRESS	4	TCARLB	Address of TMP lock block
(188)	ADDRESS	4	TCAEMSSV	SAVE AREA FOR DFHEMS
(18C)	BITSTRING	1	*	Reserved
(18D)	BITSTRING	1	*	Reserved
(18E)	CHARACTER	1	*	Reserved
(18F)	BITSTRING	1	TCAEISFL	EXEC CICS I/F FLAG
(190)	ADDRESS	4	TCAEISA	EXEC CICS I/F STRUCT ADDR
(194)	ADDRESS	4	TCACAAAD	LE/370 Anchor Address
(198)	ADDRESS	4	TCACEEPT	LE/370 Parameter List Address *
(19C)	ADDRESS	4	TCAREGPT	EXEC CICS registers
(1A0)	ADDRESS	4	TCALIRE	Ill task return addr
(1A4)	ADDRESS	4	TCALTGET	LIFO PUSH ROUTINE(=CSALFNAC) * SEE...TCALTFRE BELOW.
(1A8)	FULLWORD	4	*	Reserved
(1AC)	FULLWORD	4	*	Reserved
(1B0)	CHARACTER	4	TCAKCTTI	Assigned transaction id
(1B4)	ADDRESS	4	TCATCUCN	TCTTE USER CHAIN FIELD.
(1B8)	ADDRESS	4	*	Reserved
(1BC)	ADDRESS	4	TCAXFS23	XFSTG FOR TRANSFORMATION 2 AND 3
(1C0)	ADDRESS	4	TCARSBA	ADDRESS OF REMOTE SCHEDULING BLOCK
(1C4)	CHARACTER	4	TCAKCOID	ID WHICH ORIGINATED TASK
(1C8)	BITSTRING	1	TCADLIST	DLI STATUS INFORMATION
	1... ..		TCAUIBAQ	UIB ACQUIRED
	.111 ....		*	Reserved
	.... 1..		TCAEXDLI	EXEC DLI
	.... .1..		*	Reserved
	.... ..1		TCAREMOT	REMOTE
	.... ..1		TCADBCTL	DBCTL
(1C9)	CHARACTER	2	TCAACMSG	DFHACP MSG NUMBER
(1CB)	BITSTRING	1	TCAAPFLG	AP DOMAIN FLAGS @BA81573C
	1... ..		TCARSREQ	RESUME REQUIRED
	.1. ....		TCAXMSOT	APXMI should invoke APXM
	.1. ....		TCAROUTE	Transaction route attach has been sent to a remote CICS system
	...1 1111		*	Reserved
(1CC)	CHARACTER	2	*	Reserved
(1CE)	BITSTRING	1	*	Reserved
(1CF)	BITSTRING	1	TCAAAM	APPLICATION ADDRESSING MODE NB BITS 1 - 7 OF BYTE TCAAAM MUST BE ZERO
	1... ..		TCAAAM31	31-BIT MODE
(1D0)	ADDRESS	4	*	Reserved
(1D4)	CHARACTER	4	TCACRABC	CURRENT ABEND CODE
(1D4)	CHARACTER	4	TCAPCABC	CURRENT ABEND CODE
(1D8)	CHARACTER	3	*	Reserved
(1DB)	CHARACTER	1	TCAIACB	ABEND CONTROL BLOCK STATUS *
(1DC)	ADDRESS	4	TCAPCACB	ABEND CONTROL BLOCK ADDRESS
(1E0)	CHARACTER	4	TCASENSE	SENSE FIELDS
(1E0)	CHARACTER	2	TCASS1	SYSTEM SENSE
(1E2)	CHARACTER	2	TCAUS1	USER MSG NO.
(1E4)	ADDRESS	4	TCATIEBA	TIE CHAIN FOR API ROUTER
(1E8)	ADDRESS	4	TCADMTLA	ADDRESS OF CSD MANAGER TASK LOCAL STORAGE
(1EC)	FULLWORD	4	TCATRRC	Transaction Routing RC

Offset Hex	Type	Len	Name (Dim)	Description
# (1F0)	CHARACTER	7	*	Reserved APAR PQ25422 shortens reserved field from 8 to 7 to use 1 byte for flags TCAJVM
# (1F7)	CHARACTER	5	TCAJVM	JVM information
# (1F7)	BITSTRING	1	TCACJVMF	DFHCJVM flags
#	1... ..		TCAFURM	Fetch for URM DFHJVMAT in progress
#	.1.. ..		TCACURM	Call to URM DFHJVMAT in progress
#	..1. ....		TCAJVMXT	system.exit from JVM issued
#	...1 1111		*	Reserved
# (1F8)	ADDRESS	4	TCAJVMTK	Token for the JVM instance used
# (1FC)	ADDRESS	4	TCAPCXA	PROGRAM LOAD POINT ADDRESS
# (200)	CHARACTER	8	TCATRRSN	RESOURCE NAME
BASIC MAPPING SUPPORT FAST PATH FIELDS.				
(208)	CHARACTER	8	TCABMMSN	SUFFIXED NAME OF MOST RECENTLY LOADED BMS MAPSET
(210)	ADDRESS	4	TCABMMSA	ADDRESS OF MOST RECENT BMS MAPSET
(214)	CHARACTER	1	TCABMMW	WIDTH OF MOST RECENT BMS MAP
(215)	CHARACTER	1	TCABMMH	HEIGHT OF MOST RECENT BMS MAP
(216)	CHARACTER	1	TCABMMC	COLUMN POSITION MOST RECENT BMS MAP
(217)	CHARACTER	1	TCABMML	LINE POSITION MOST RECENT BMS MAP
LU6.2 INFORMATION				
(218)	ADDRESS	4	TCAALUCX	ADDRESS OF LU6.2 EXTENSION
(21C)	ADDRESS	4	*	Reserved
(220)	CHARACTER	4	*	Reserved
(224)	FULLWORD	4	TCATMLRP	TMP read lock list addr.
(228)	ADDRESS	4	*	Reserved
(22C)	ADDRESS	4	*	Reserved
(230)	ADDRESS	4	TCALTFRE	LIFO POP ROUTINE ADDRESS = CSALFXAC SEE...TCALTGET ABOVE.
(234)	CHARACTER	4	TCACREQ	REQID from an IC START
TASK CONTROL - TABLE MANAGER INTERFACE				
(238)	BITSTRING	1	TCAALFLG	Flag byte used by DFHALP
	1... ..		TCALRES	A RESUME is required
	.111 1111		*	Reserved
(239)	CHARACTER	3	*	Reserved
(23C)	ADDRESS	4	TCADOMPM	USED as plist addr
(240)	CHARACTER	8	*	Reserved
(248)	FULLWORD	4	*(4)	Reserved
(258)	CHARACTER	8	TCATRIDQ	TRACE ID QUALIFIER
(260)	ADDRESS	4	*	Reserved
(264)	FULLWORD	4	*	Reserved
(268)	CHARACTER	28	*	Reserved
(284)	ADDRESS	4	*	Reserved
TRANSIENT DATA				
CONTROL BLOCK NAME = DFHTC2TD DESCRIPTIVE NAME = CICS DFHTD system overlay of the DFHTCA TRANSIENT DATA - NEW 1.7 FIELDS				
(288)	CHARACTER	4	TCADSTID	TRANSIENT DATA DESTID
(28C)	CHARACTER	1	TCATDFLG	TRANSIENT DATA FLAGS
(28D)	CHARACTER	1	*(3)	RESERVED
SPECIAL FEATURES				
(290)	ADDRESS	4	TCAPSDBA	BASE POINTER FOR TASK PDB CHAIN FOR MVS *
(290)	ADDRESS	4	TCAPSS	BASE POINTER FOR TASK PSS CHAIN FOR DOS *
(290)	ADDRESS	4	TCAPSTBA	BASE POINTER FOR TASK PST CHAIN FOR DOS *
(294)	CHARACTER	4	*	Reserved
(298)	CHARACTER	10	*	Reserved
Transaction Routing parameters (DFHAPRT->DFHZIS2) & ATI routing for PF starts				
(2A2)	BITSTRING	1	TCAAPRTF	Transaction Routing parameter flags
	1... ..		TCAPRIP	Priority is to be passed to the AOR
	.1.. ..		TCASYSNP	Applid present
	..1. ....		TCARTST	Routable start
	...1 ....		TCATRMNP	Terminal netname present
	.... 1111		*	Reserved
(2A3)	UNSIGNED	1	TCATRPRI	Priority value to pass to AOR
(2A4)	ADDRESS	4	TCADSBA	DBCTL SCHEDULING BLOCK ADDRESS *
(2A8)	CHARACTER	4	TCADLUIB	USER INTERFACE BLOCK (UIB) *
(2A8)	ADDRESS	4	TCADLIBA	UIB ADDRESS
(2AC)	ADDRESS	4	TCAAPRET	return address for DETACH
(2B0)	CHARACTER	8	TCAPLAN	DB2 plan in use if any
(2B8)	CHARACTER	8	TCATRMNE	Terminal netname
(2C0)	CHARACTER	8	*	Reserved
(2C8)	CHARACTER	4	TCASUTOK	suspend/resume token for general AP use
(2CC)	ADDRESS	4	TCAEIUSA	A(EIUS). The user part of the EXEC CICS interface structure
(2D0)	CHARACTER	8	TCASYSNE	Applid of owning Terminal
CPI-C				
(2D8)	ADDRESS	4	TCACPCCN	base pointer for CPC chain
(2DC)	ADDRESS	4	TCATRU24	Head of TRUE save area
(2E0)	CHARACTER	4	*	Reserved

Offset Hex (2E4)	Type	Len	Name (Dim)	Description
	CHARACTER	4	*	Reserved
FIELDS FOR USE BY DFHSRP (24 BYTES)				
(2E8)	CHARACTER	24	TCASRDAT	Fields for SRP use only
(2E8)	CHARACTER	8	TCASRPGM	Name of abended program
(2F0)	CHARACTER	8	TCASRPCD	Kernel error code xxx/yyyy
(2F0)	CHARACTER	3	TCASYABD	xxx
(2F3)	CHARACTER	1	*	/
(2F4)	CHARACTER	4	TCATRABD	yyyy
(2F8)	FULLWORD	4	TCASROFF	Offset of abend in program
(2F8)	ADDRESS	4	TCAKEDAD	-> Kernel error data copy
(2FC)	BITSTRING	1	TCASRFLG	SRP flag byte
			TCASRDMP	System dump required
			TCAEMISC	EMS deliberate prog check
			TCACELCK	LIP deliberate prog check
			TCASRPLI	PCP deliberate prog check
			TCASRAP	AP0001 abend issued by DFHSRP
			TCACHKAD	EDF DELIBERATE ABEND
			*	RESERVED SRP FLAGS
(2FD)	UNSIGNED	1	TCASRLOC	Abend in application?
(2FE)	BITSTRING	2	TCASREXC	EXC trace point id
FIELDS FOR THE REMOTE SYSTEM AND TRANSACTION NAMES				
(300)	CHARACTER	4	TCARMTRA	Remote Transaction name
(304)	CHARACTER	4	TCARMSYS	Remote System name
END OF SYSTEM AREA				
(308)	CHARACTER		TCAEND	T C A STORAGE AREA DISPLACEMENT

CONTROL BLOCK NAME = DFHTCUKC  
 DESCRIPTIVE NAME = CICS DFHKC USER OVERLAY OF THE DFHTCA

Offset Hex	Type	Len	Name (Dim)	Description
(60)	STRUCTURE	36	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(60)	CHARACTER	1	TCAKCRC	SYST.MACRO RTN.CODE FROM CHANGE FROM ATT/AVAIL/REDISP
			*	
(61)	CHARACTER	1	TCAKCSRB	SECONDARY REQUEST BYTE
(62)	CHARACTER	1	TCAKCRC2	Secondary response indicator (macro compatibility XMxx reason) *
(63)	CHARACTER	1	TCATOMOP	Attach options
			TCATOMCN	Conditional attach
			TCATOMEP	Entrypoint attach
			TCATOMST	Attach of a system task
			*	Reserved
(64)	ADDRESS	4	TCAKCEPA	ENTRY POINT ADDRESS
(64)	CHARACTER	9	TCAKCSSF	SECURITY SUBFIELD
(64)	UNSIGNED	1	TCAKCUIL	...LENGTH OF USERID
(65)	CHARACTER	8	TCAKCUID	...TASK USERID
(68)	CHARACTER	8	*	reserved
(70)	CHARACTER	4	TCAKCDST	T.D. DESTINATION ID
(74)	ADDRESS	4	TCAKCPA	ATTPARM address
(74)	CHARACTER	4	TCAKCSYS	REMOTE SYSTEM IDENTIFICATION *
(78)	CHARACTER	4	TCAKCTI	TRANSACTION IDENTIFICATION
(7C)	UNSIGNED	1	TCAKCPL	ATTPARM length
(7D)	CHARACTER	2	*	RESERVED
(7F)	BITSTRING	1	TCAKCFI	FACILITY CONTROL INDICATOR *
			*	RESERVED
			TCAKCAID	AID FACILITY MASK
			TCAKCDCM	DESTINATION CONTROL TABLE
			TCAKCICM	NON-TERMINAL FACILITY MASK *
			TCAKCMCM	K C P MACRO FILE MASK
			TCAKCTRM	TERMINAL FACILITY MASK
(80)	CHARACTER	4	TCAKCTA	TASK CONTROL AREA ADDRESS
(80)	ADDRESS	4	TCAKCFA	FACILITY CONTROL ADDRESS
(80)	ADDRESS	4	TCAKCPTR	FACILITY CONTROL ID

CONTROL BLOCK NAME = DFHTCUIK  
 DESCRIPTIVE NAME = CICS DFHIC USER OVERLAY OF THE DFHTCA  
 The following field is product sensitive:-  
 TCAICTR

Offset Hex	Type	Len	Name (Dim)	Description
(60)	STRUCTURE	44	*	
(60)	CHARACTER	1	TCAICTR	TYPE OF REQUEST/RESPONSE
(61)	CHARACTER	3	*	RESERVED

Offset Hex	Type	Len	Name (Dim)	Description
(64)	CHARACTER	4	TCAICTEC	ICP 'POST' TIMER EVENT CONTROL ADDRESS
(64)	ADDRESS	4	TCAICDA	ICP MACRO SERVICE-DATA ADDRESS
(68)	CHARACTER	8	TCAICQPX	REQUEST ID PREFIX
(68)	CHARACTER	8	TCAICQID	ICP REQUEST IDENTIFICATION
(70)	FULLWORD	4	TCAICRT	REQUESTED TIME INTERVAL OR EXPIRATION TIME-OF-DAY
(74)	CHARACTER	4	TCAICFA	ICP FACILITY CONTROL ADDR.
(74)	CHARACTER	4	TCAICTI	ICP TRANSACTION IDENT.
(78)	CHARACTER	4	TCAICUSA	ADDRESS OF US PARAMETER STORAGE WHICH IS 11 BYTE FIELD OF: 1 BYTE USERID LENGTH 10 BYTE FIELD FOR USERID
(78)	CHARACTER	4	TCAICTID	ICP SYMBOLIC TERMINAL IDENTIFICATION
(7C)	CHARACTER	1	TCAICCLS	UNIQUE ID OF REQUESTED ID
(7D)	CHARACTER	1	TCAICTR2	SECOND REQUEST/RESPONSE BYTE
	1... ..		TCAICHDR	DATA RETURNED BY IC GET CONTAINS A USER-BUILT HDR. (INTERNAL)
	.1. ....		TCAICHSZ	FEPI start - startcode SZ
	..1. ....		TCAICTKX	XM Transaction token flag
	...1 ....		TCAICRTC	Router commarea present
	.... 1...		TCAICUSS	Userid is that of system
	.... .1..		TCAICUSR	US domain parameter ...specified
	.... .1..		TCAICDFS	Deferred dynamic start
	.... ..1		*	RESERVED
(7E)	CHARACTER	2	*	RESERVED
(80)	ADDRESS	4	TCAICTKA	XM Transaction token address. *
(84)	ADDRESS	4	TCAICRTR	Router's commarea address
(88)	HALFWORD	2	TCAICRTL	Routers commarea length
(8A)	CHARACTER	2	*	RESERVED

CONTROL BLOCK NAME = DFHTCUTC  
DESCRIPTIVE NAME = CICS DFHTC USER OVERLAY OF THE DFHTCA

Offset Hex	Type	Len	Name (Dim)	Description
(60)	STRUCTURE	40	*	ORIGIN TO COMMON COMMUNICATION AREA
This area (from TCATP_TRACE to TCATP_TRACE_LEN) is traced in some ZC level 1 trace formats				
(60)	CHARACTER	32	TCATP_TRACE	TCA parm list trace area
(60)	BITSTRING	1	TCATPAPR	APPLICATION REQUEST RESPONSE CODE
(60)	BITSTRING	1	TCATPLRC	LOCATE RETURN CODE FOR PAGE STATUS TERMINAL INTERPARTITION SESSION
	1... ..		TCATPEB	END BRACKET RECEIVED (ISC) *
	.1. ....		TCATPSNC	PREPARE/SPR RECEIVED (ISC) *
	..1. ....		*	
	...1 ....		TCATPR10	CANCELLED DURING ALLOC
	.... 1...		TCATPRC8	BAD REQUEST RETURN
	.... .1..		TCATPRC4	POSSIBLE RETRY RETURN
(61)	BITSTRING	1	*	RESERVED
(62)	BITSTRING	1	TCATPOS1	EXTERNAL OPERATOR REQUEST - byte 1
(63)	BITSTRING	1	TCATPOS2	EXTERNAL OPERATOR REQUEST - byte 2
Overlaid by the LDC - level 4 For ZARQ (Application requests) - level 5 For ZISP - levels 6 and 7				
(63)	BITSTRING	1	TCATPLDC	Logical Device Code
	1... ..		TCATPOER	ERASE REQUEST
	1... ..		TCATPQAF	ALLOC OP FREE @USER SYNC
	1... ..		TCATPFSY	FREE OP implicit free
	.1. ....		TCATPOSS	SAVE TERMINAL STORAGE
	..1. ....		*	Reserved
	...1 ....		TCATPOLA	LINE ADDRESSING REQUEST
	.... 1...		TCATPQAR	ALLOC OP FREE AT RESTART
	.... .1..		TCATPORR	READ REQUEST
	.... ..1		TCATPQUA	ALLOC OP NOT PROTECTED AT
	.... 1...		TCATPODR	DISCONNECT REQUEST
	.... 1...		TCATPQUE	QUEUE REQUEST(0=NQ)
	.... .1..		TCATPOSR	SYNCHRONIZATION REQUEST
	.... .1..		*	Reserved
	.... ..1		TCATPCVS	CONVERSE REQUEST
	.... ..1		*	Reserved
	.... ..1		TCATPOWR	WRITE REQUEST
	.... ..1		TCATPIDT	ID IS CHAR (0=ADDR SPEC)
(64)	BITSTRING	1	TCATPCS1	EXTERNAL CONTROL REQUEST - byte 1
For ZARQ (Application requests) - level 4 For ZSTU (Status change) - level 5				
	1... ..		TCATPNNI	NOATNI=YES
	1... ..		TCATPPG	PAGE
	.1. ....		TCATPNAB	NOABEND=YES
	.1. ....		TCATPAU	AUTOMATIC PAGING
	..11 1...		*	reserved
	..1. ....		TCATPINP	INPUT
	...1 ....		TCATPNOP	NO POLL
	.... 1...		TCATPSAI	AUTOMATIC INITIATION

Offset Hex	Type	Len	Name (Dim)	Description
	.... .1..		TCATBPQ	BYP QUIESCE FOR PASS
	.... .1..		TCATPTSA	TRANSACTION
	.... .11		*	reserved
	.... .1..		TCATPINS	IN SERVICE
	.... .1..		TCATPOOS	OUT OF SERVICE
(65)	BITSTRING	1	TCATPCS2	EXTERNAL CONTROL REQUEST - byte 2
For ZARQ (Application requests) - level 4 For ZSTU (Status change) - level 5				
	1... ....		TCATPCRB	READ BUFFER REQUEST
	1... ....		TCATNVTA	DON'T ISSUE VTAM CMDS
	.1.. ....		TCATPCEU	ERASE ALL UNPROTECTED
	.1.. ....		TCATALGI	REQUEST INTLOG
	.1.. ....		TCATPCWL	WRITE LOCK REQUEST
	.1.. ....		TCATNLGI	REQUEST NOINTLOG
	..1 ....		TCATPCRL	READ LOCK REQUEST
	..1 ....		TCATTFOR	FORCEPURGE
	.... 1...		TCATPCPY	COPY REQUEST
	.... 1...		TCATTPUR	PURGE TASK
	.... .1..		TCATPCPT	PRINT REQUEST
	.... .1..		TCATPREL	RELEASE
	.... .1..		TCATPCNT	NOTRANSLATE REQUEST
	.... .1..		TCATPRSO	RESYNCHRONIZATION OVERRIDE
	.... .1..		TCATPCPB	PSEUDO BINARY MODE
	.... .1..		TCATPACQ	ACQUIRE
(66)	BITSTRING	1	TCATPOC1	OPERATION CONTROL BYTE 1
For ZARQ (Application requests) - see constants below For ZSTU (Status change) - see constants below				
(67)	BITSTRING	1	TCATPOC2	OPERATION CONTROL BYTE 2
For ZARQ (Application requests) - level 4				
	1... ....		TCATPFRC	FORCE=YES
	.1.. ....		TCATPWSR	WAIT ON INBOUND SIGNAL
	.1.. ....		TCATPLMP	LOGICAL DEVICE CODE (LDC) MNEMONIC PRESENT
	..1 ....		TCATFPD	FUNCTION MANAGEMENT HEADER (FMH) PROVIDED WITH DATA
	.... 1...		TCATPLWT	LAST WRITE FROM TASK
	.... .1..		TCATPOAO	OVERRIDE ASYNCHRONOUS OPERATION NOT USED
	.... .1..		TCATPOSO	OVERRIDE SYNCHRONOUS OPERATION NOT USED
	.... .1..		TCATPWRO	WAIT REQUEST WITH OPERATION
(68)	CHARACTER	2	TCATPLDM	LOGICAL DEVICE MNEMONIC
(6A)	BITSTRING	1	TCATPCON	CONNECTION TYPE FLAG
	1111 111.		*	
	.... .1..		TCATPNCM	NON-COMMUNICATION INDICATOR
(6B)	BITSTRING	1	TCATPOC3	OPERATION CONTROL BYTE 3
For ZARQ (Application requests) - level 4 For ZLOC (Status change) - level 5				
	1... ....		TCATPNEC	WRITE WITH CCOMPL=NO
	1... ....		TCATTMID	TRMIDNT VALUE SUPPLIED
	.1.. ....		TCATPTTA	TCTTE ADDRESS SUPPLIED.
	.1.. ....		TCATSTAT	STATUS KEYWORD SUPPLIED
	.1.. ....		TCATPCND	CONDITIONAL REQUEST FLAG.
	.1.. ....		TCATSELC	SELECT KEYWORD SUPPLIED
	..1 ....		TCATPOWS	WRITE STRFIELD
	..1 ....		TCATTRMT	TRMTYPE SUPPLIED
	.... 1...		TCATPTTO	TRANSP TIOA OBTAINED
	.... 1...		TCATOPNW	OPTION=NOWAIT REQUESTED
	.... .1..		TCATPDWR	DEFER REQUEST FLAG
	.... .1..		TCATCMPN	TCTCOMP=NO REQUESTED
	.... .1..		TCATPINV	INVITE REQUEST FLAG
	.... .1..		TCATSIND	SCAN INDIRECTS.DOM=N=SYS
	.... .1..		*	X'01' RESERVED
	.... .1..		*	X'01' RESERVED
(6C)	CHARACTER	20	TCATPPNM	PROGRAM NAME FIELD
(6C)	ADDRESS	4	TCATPTA	TMNL ID OR A(FULL)MODEL TE)
(70)	CHARACTER	16	TCATPREQ	REQUEST ID PARAMETER.
(70)	CHARACTER	16	TCATPAID	AID ADDRESS
(70)	ADDRESS	4	TCATPLDA	LOGIC DEVICE CODE ELEMENT ADDRESS
(74)	CHARACTER	12	TCATPRMT	REMTENAME OF FOUND TERM'L
(74)	ADDRESS	4	TCATPPFL	TERMINAL PROFILE ADDRESS
(78)	CHARACTER	8	TCATPAPL	APPLID OF REMOTE REGION
(78)	CHARACTER	4	TCATPSYS	SYSID OF REMOTE REGION
(7C)	ADDRESS	4	TCATPSKA	A(SKELETON TCTTE)
(7C)	ADDRESS	4	TCATPFS	FS parameters plist
TCATP_TRACE_LEN End of parm list trace area				
(80)	CHARACTER	8	TCATPZTR	ZC trace work area
(80)	CHARACTER	4	TCATPZT1	Copy TCT exit footprints
(84)	ADDRESS	4	TCATPZT2	Copy TCT address

OVERLAYS

Offset Hex	Type	Len	Name (Dim)	Description
(84)	STRUCTURE	56	*	ORIGIN TO COMMON REGISTER STORAGE
(84)	FULLWORD	4	TCATPRS (14)	REGISTER SAVE AREA

CONTROL BLOCK NAME = DFHTCUPC  
DESCRIPTIVE NAME = CICS DFHPC USER OVERLAY OF THE DFHTCA

Offset Hex	Type	Len	Name (Dim)	Description
(60)	STRUCTURE	36	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(60)	CHARACTER	1	TCAPCTR	TYPE OF REQUEST / RESPONSE
(61)	CHARACTER	1	TCAPCSR	PROGRAM CONTROL SECONDARY REQUEST
(62)	CHARACTER	1	*	reserved
(63)	CHARACTER	1	*	Reserved
(64)	CHARACTER	8	TCAPCPI	PROGRAM IDENTIFICATION
(64)	CHARACTER	4	TCAPCERA	ABEND EXIT RETURN ENTRY ADDRESS
(6C)	CHARACTER	4	TCAPCEA	LOADED PROGRAM ENTRY ADDRESS AND PC BROWSE ENTRY ADDRESS
(6C)	CHARACTER	4	TCAPCAC	ABNORMAL TERMINATION CODE
(70)	ADDRESS	4	TCAPCLA	LOADED PROGRAM BEGINNING ADDRESS
(74)	ADDRESS	4	TCAPGENT	Program entry point (GLUE)
(78)	ADDRESS	4	TCAPGTKN	Program token (GLUE)
(7C)	CHARACTER	8	TCAPCEPI	Program that abended APCT

## REGISTER STORAGE

Offset Hex	Type	Len	Name (Dim)	Description
(84)	STRUCTURE	56	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(84)	FULLWORD	4	TCAPCRS (14)	PROGRAM CONTROL REGISTER STORAGE AREA: REGISTERS 14 -11 *

CONTROL BLOCK NAME = DFHTCUPH  
DESCRIPTIVE NAME = CICS DFHPH User Overlay of the DFHTCA

Offset Hex	Type	Len	Name (Dim)	Description
(60)	STRUCTURE	22	*	OVERLAY THE TCA COMMON COMMUNICATION AREA
(60)	CHARACTER	22	TCAPH	FOR ZEROING REQUEST BYTES
(60)	ADDRESS	4	TCAPHRC	ADDRESS OF RETURN CODE
(64)	ADDRESS	4	TCAPHPSN	ADDRESS OF PRTNSET NAME
(68)	ADDRESS	4	TCAPHPN	ADDRESS OF PARTITION NAME
(6C)	ADDRESS	4	TCAPHPID	ADDRESS OF PARTITION ID
(70)	ADDRESS	4	TCAPHTIO	ADDRESS OF TIOA
(74)	CHARACTER	1	TCAPHTR	REQUEST TYPE
(75)	CHARACTER	1	TCAPHRCV	RETURN CODE VALUE

CONTROL BLOCK NAME = DFHTCUBM  
DESCRIPTIVE NAME = CICS DFHBMS USER OVERLAY OF THE DFHTCA

Offset Hex	Type	Len	Name (Dim)	Description
(60)	STRUCTURE	8	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(60)	BITSTRING	1	TCAMSRC1	RETURN CODE BYTE ONE
	1... ..		TCAMSRF	ROUTE FAILED - NO RESOLUTIONS
	.1.. ..		TCAMSRW	ROUTE WORKED - SOME RESOLUTIONS
	..1. ....		TCAMSIET	INVALID ERROR TERMINAL
	...1 ....		*	
	.... 1...		TCAMSMTL	MAP TOO LARGE
	.... .1..		TCAMSCBM	I/O AREA CANNOT BE MAPPED
	.... ..1.		TCAMSPRI	PAGE RETURNED INDICATOR
	.... ...1		TCAMSIR	INVALID REQUEST
(61)	BITSTRING	1	TCAMSRC2	RETURN CODE BYTE TWO
	1... ..		TCAMSTSE	TEMP STORAGE I/O ERROR
	.1.. ..		TCAMSRCD	REQUEST CHANGE DIRECN ERROR
	..1. ....		TCAMSUXI	UNEXPECTED INPUT
	...1 ....		TCAMSIMN	INVALID LDC MNEMONIC
	.... 1...		TCAMSIPS	INVALID PARTITION SET NAME



Offset Hex	Type	Len	Name (Dim)	Description
	.... .1..		TCAMSIPN	INVALID PARTITION NAME
	.... .1.		TCAMSIPF	PARTNFAL ERROR
	.... ...1		TCAMSDSS	DATASET STATUS CHANGE
(62)	BITSTRING	1	TCAMSRC3	RETURN CODE BYTE THREE
	111. ....		*	
	.... 1...		TCAMSIGR	SPECIFIED 'REQID' IGNORED
	.... 1..		TCAMSEOC	END-OF-CHAIN IN LAST INPUT
	.... .1..		TCAMSEOD	END-OF-DATA-SET LAST INPUT
	.... .1.		TCAMSIFH	INBOUND FMH IN LAST INPUT
	.... ...1		TCAMSOI	PAGE OVERFLOW INDICATOR
(63)	BITSTRING	1	TCAMSRI1	RETURN INFORMATION BYTE ONE
(64)	CHARACTER	4	TCAMSPOF	PAGEBLD OVERFLO INFORMATION
(64)	HALFWORD	2	TCAMSPGN	CURRENT PAGE NUMBER
(66)	HALFWORD	2	TCAMSOCN	OVERFLOW CONTROL NUMBER
<b>Offset Hex</b>	<b>Type</b>	<b>Len</b>	<b>Name (Dim)</b>	<b>Description</b>
(60)	STRUCTURE	64	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(60)	BITSTRING	1	TCAMSTR1	TYPE REQUEST BYTE ONE
	1... ....		TCAMSTRR	TYPE = ROUTE
	.1. ....		TCAMSEO	ERRRTERM = ORIG
	.1. ....		TCAMSETI	ERRRTERM = TERMINAL ID
	...1 ....		TCAMSRI	INTRVAL = NUMERIC VALUE
	.... 1...		TCAMSRT	TIME = NUMERIC VALUE
	.... .1..		TCAMSRSA	LIST = ALL
	.... .1.		TCAMSRSA	LIST = SYMBOLIC ADDRESS
	.... ...1		TCAMSROC	OPCLASS = OPERATOR CLASS
(61)	BITSTRING	1	TCAMSTR2	TYPE REQUEST BYTE TWO
	1... ....		TCAMSRTL	TITLE = SYMBOLIC ADDRESS
	.1. ....		TCAMSOPT	PROPT = NLEOM
	.1. ....		TCAMSRQI	REQID = ALPHANUMERIC VALUE
	...1 ....		TCAMSTLD	LDC = MNEMONIC OR YES
	.... 1...		TCAMSIOT	IOTYPE = IMMED
	.... .1..		TCAMSLPS	SEND PARTNSET
	.... .1.		TCAMSRIN	RECV INTO EXEC COMMAND
	.... ...1		TCAMSTRG	TYPE = PURGE
(62)	BITSTRING	1	TCAMSTR3	TYPE REQUEST BYTE THREE
	1... ....		TCAMSLST	TYPE = LAST
	.1. ....		TCAMSRPT	RECEIVE PARTN
	.1. ....		TCAMSTRT	TYPE = TEXT
	...1 ....		TCAMSTC	CURSOR = NUMBER
	.... 1...		TCAMSTCW	CTRL = ANY 3270 WCC
	.... .1..		TCAMSTMN	MAP = MAP NAME
	.... .1.		TCAMSTSA	MSETADR = SYMBOLIC ADDRESS OR PSETADR = ADDRESS
	.... ...1		TCAMSTSN	MAPSET = MAP SET NAME
(63)	BITSTRING	1	TCAMSTR4	TYPE REQUEST BYTE FOUR
	1... ....		*	
	.1. ....		TCAMSTDN	DATA = NO
	.1. ....		TCAMSTRS	TYPE = SAVE
	...1 ....		TCAMSTMA	MAPADR = SYMBOLIC ADDRESS
	.... 1...		TCAMSTRW	TYPE = WAIT
	.... .1..		TCAMSTRM	TYPE = MAP
	.... .1.		TCAMSTRE	TYPE = ERASE
	.... ...1		TCAMSTRI	TYPE = IN
(64)	BITSTRING	1	TCAMSTR5	TYPE REQUEST BYTE FIVE
	1... ....		TCAMSTRB	TYPE = PAGEBLD
	.1. ....		TCAMSTOF	OFLOW = SYMBOLIC ADDRESS
	.1. ....		TCAMSTEU	TYPE = ERASEAUP
	...1 ....		TCAMSTFF	TYPE = FORMFEED
	.... 1...		TCAMSTRLOC	TYPE = LOCATE_MAP
	.... .1..		TCAMSTRO	TYPE = OUT
	.... .1.		TCAMSTRF	TYPE = STORE
	.... ...1		TCAMSTRU	TYPE = RETURN
(65)	BITSTRING	1	TCAMSTR6	TYPE REQUEST BYTE SIX
	1... ....		TCAMSTRP	TYPE = PAGEOUT
	.1. ....		TCAMSTCA	CTRL = AUTOPAGE
	.1. ....		TCAMSTCP	CTRL = PAGE
	...1 ....		TCAMSTCK	CTRL = RETAIN
	.... 1...		TCAMSTCR	CTRL = RELEASE
	.... .1..		TCAMSWBC	WTBRK = CURRENT
	.... .1.		TCAMSWBA	WTBRK = ALL
	.... ...1		TCAMSEPO	EODPURG = OPER
(66)	BITSTRING	1	TCAMSTR7	TYPE REQUEST BYTE SEVEN
	1... ....		TCAMSTRX	TYPE = TEXTBLD
	.1. ....		TCAMSTH	HEADER = SYMBOLIC ADDRESS
	.1. ....		TCAMSTT	TRAILER = SYMBOLIC ADDRESS
	...1 ....		TCAMSTJ	JUSTIFY = FIRST, LAST, OR VALUE
	.... 1...		TCAMSOPR	API SPECIFIES OUTPARTN
	.... .1..		TCAMSAPR	API SPECIFIES ACTPARTN
	.... .1.		TCAMSPGS	PGA SUPPLIED WITH DATA
	.... ...1		TCAMSTRN	TYPE = NOEDIT
N.B. TIOATDL SHOULD GIVE THE LENGTH INCLUDING THE PGA IF SET.				
(67)	BITSTRING	1	TCAMSTR8	TYPE REQUEST BYTE EIGHT

Offset Hex	Type	Len	Name (Dim)	Description
	1... ..		TCAMSIPR	API SPECIFIES INPARTN
	.1.. ....		TCAMSMGM	MSR OPTION SPECIFIED
	..1. ....		TCAMSEIC	EXEC INTERFACE COMMAND
	...1 ....		TCAMSTFP	FMHPARM = YES OR PARM
	.... 1...		TCAMSRDA	RDATT = SYMBOLIC ADDRESS
	.... .1..		TCAMSWRB	WRBRK = SYMBOLIC ADDRESS
	.... ..1.		TCAMSSIG	SIGNAL
	.... ...1		TCAMSMGC	SEND CONTROL
(68)	CHARACTER	4	TCAMSTA	TITLE ADDRESS
(68)	ADDRESS	4	TCAMSIOA	ALTERNATE I/O AREA ADDRESS
(6C)	CHARACTER	4	TCAMSFSC	FIELD SEPARATOR CHARACTERS
(6C)	CHARACTER		TCABMSFB	WCC AND FLAG BYTE
(6C)	CHARACTER	1	TCAMSWCC	WRITE CONTROL CHARACTERS
(6D)	BITSTRING	1	TCAMSJ	JUSTIFY = FIRST, LAST, OR VALUE
(6E)	CHARACTER	2	TCAMSRPL	RETURNED LENGTH FROM RECEIVE PARTN
(6E)	HALFWORD	2	TCABMSCP	CURSOR POSITION
(70)	CHARACTER	8	TCABMSMN	MAP NAME
(70)	CHARACTER	8	TCAMSPSN	PARTITION SET NAME
(70)	ADDRESS	4	TCABMSMA	MAP ADDRESS
(70)	ADDRESS	4	TCAMSHDR	HEADER ADDRESS
(70)	ADDRESS	4	TCAMSRLA	ROUTE OR RETURNED PAGE LIST ADDRESS
(74)	ADDRESS	4	TCAMSTRL	TRAILER ADDRESS
(74)	ADDRESS	4	TCABMSDA	ADS descriptor address
(74)	CHARACTER	4	TCAMSRTI	TIME OR INTERVAL OF TIME
(78)	CHARACTER	8	TCAMMSA	MAP SET OR PARTNSET ADDRESS
(78)	CHARACTER	8	TCAMSMNS	MAP SET NAME
(78)	CHARACTER	4	TCAMSTI	ROUTE ERROR TERMINAL ID
(7C)	BITSTRING	1	*	RESERVED
(7D)	CHARACTER	3	TCAMSOC	OPERATOR CLASS
(80)	CHARACTER	2	TCAMSLDM	LOGICAL DEVICE CODE MNEMONIC IF LDC ON API ELSE OUTPARTN IF SEND OR INPARTN IF RECEIVE MAP OR PARTN IF RECEIVE PARTN
(82)	BITSTRING	1	TCAMSLDC	LOGICAL DEVICE CODE
(83)	CHARACTER	2	TCAMSRID	REQID - TEMPORARY STORAGE RECOVERY PREFIX
(85)	CHARACTER	2	TCAMAPNM	ACTPARTN VALUE
(87)	CHARACTER	1	*	RESERVED FOR BMS
(88)	CHARACTER	8	TCAMSFMP	FUNCTION MANAGEMENT HEADER (FMH) PARAMETER
(90)	CHARACTER	4	TCAMMSR	MSR CONTROL VALUE
(94)	CHARACTER	8	TCAMSRQS	WORK AREA
(9C)	CHARACTER	1	TCAMCPY	FLAG INDICATING COPY REQUIRED
(9D)	CHARACTER	3	*	RESERVED

Offset Hex	Type	Len	Name (Dim)	Description
(84)	STRUCTURE	56	*	ORIGIN TO COMMON CONTROL REGISTER STORAGE
REGISTER STORAGE				
(84)	FULLWORD	4	* (7)	OVERLAID BY BMS REQUEST BYTES
(A0)	FULLWORD	4	* (3)	RESERVED
(AC)	FULLWORD	4	TCAMSR (4)	BMS REGISTER SAVE AREA

CONTROL BLOCK NAME = DFHTCUSP  
DESCRIPTIVE NAME = CICS DFHSP User Overlay of the DFHTCA

Offset Hex	Type	Len	Name (Dim)	Description
(60)	STRUCTURE	19	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(60)	BITSTRING	1	TCASPTR	SYNC POINT REQUEST
	1... ..		*	Reserved
	.1.. ....		TCASPREP	SEND PREPARE
	..11 ....		*	Reserved
	.... 1...		TCASPROL	TYPE=ROLLBACK
	.... .1..		TCASPRAB	No remote rollbackabend
	.... ..1.		TCASPEXP	Explicit EXEC SYNCPOINT
	.... ...1		TCASPUSR	TYPE=USER
(61)	CHARACTER	3	*	Reserved
(64)	ADDRESS	4	TCASPSDA	Address of RMRO parameter area for DFHSP PHASE_1/2 calls
(68)	CHARACTER	10	*	Reserved
(72)	CHARACTER	1	TCASPRC	RETURN CODE

CONTROL BLOCK NAME = DFHTCUDC  
DESCRIPTIVE NAME = CICS DFHDC USER OVERLAY OF THE DFHTCA

Offset Hex	Type	Len	Name (Dim)	Description
(60)	STRUCTURE	16	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(60)	CHARACTER	2	TCADCTR	TYPE OF REQUEST
REQUEST BYTE 1				
	1... ..		TCADCCSA	DUMP THE CSA
	.1. ....		TCADCTCA	DUMP THE TCA
	.1. ....		TCADCPGM	DUMP THE PROGRAM AREAS
	..1 ....		TCADTRT	DUMP THE TRACE TABLE
	.... 1...		TCADCIOA	DUMP TERMINAL I/O AREAS
	.... .1..		TCADCTRN	DUMP TRANSACTION AREAS
	.... ..1.		*	RESERVED
	.... ...1		TCADCSEG	DUMP USER SPECIFIED AREA
REQUEST BYTE 2				
(61)	1... ..		*	RESERVED
	.1. ....		TCADCSIT	DUMP THE SIT
	.1. ....		TCADCPPT	DUMP THE PPT
	..1 ....		*	RESERVED
	.... 1...		TCADCPCT	DUMP THE PCT
	.... .1..		TCADCTCT	DUMP THE TCT
	.... ..1.		TCADCFCT	DUMP THE FCT
	.... ...1		TCADCDCCT	DUMP THE DCT
(62)	HALFWORD	2	TCADCNB	DUMP CONTROL NUMBER OF BYTES
(64)	ADDRESS	4	TCADCSA	DUMP CONTROL STORAGE ADDRESS
(68)	CHARACTER	4	*	RESERVED
(6C)	CHARACTER	4	TCADCDC	DUMP IDENTIFICATION CODE

REGISTER STORAGE

Offset Hex	Type	Len	Name (Dim)	Description
(84)	STRUCTURE	56	*	ORIGIN TO COMMON CONTROL REGISTER STORAGE
(84)	FULLWORD	4	TCADCRS (14)	DUMP CONTROL PROGRAM REGISTER STORAGE AREA: STORES REGISTERS 14 THROUGH 11

CONTROL BLOCK NAME = DFHTCUDL  
 DESCRIPTIVE NAME = CICS DL/I TCA Communication Area Overlay  
 FUNCTION =  
 Logical equivalent of DL/I support communication area overlay of the user part of the TCA. This contains request and response fields for various DL/I requests.  
 LOCATION =  
 Offset (release dependent) from the start of the user TCA.  
 LIFETIME =  
 Request fields should be filled in for the request and the response fields will contain the return codes.  
 For the next request, the fields should be re-filled.  
 STORAGE CLASS =  
 Same as user TCA.  
 INNER CONTROL BLOCKS = none.  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none.  
 EXTERNAL REFERENCES = none.

Offset Hex	Type	Len	Name (Dim)	Description
(60)	STRUCTURE	36	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(60)	CHARACTER	1	TCADLRC	DL/I Response Code
(61)	CHARACTER	1	TCADLTR	DL/I Reason Code
(62)	CHARACTER	2	*	Reserved
(64)	ADDRESS	4	TCADLPAR	DL/I Parameter List Address
(68)	CHARACTER	8	TCADLPSB	DL/I PSB Name
(70)	CHARACTER	4	TCADLFUN	DL/I Function Code
(74)	ADDRESS	4	TCADLPCB	DL/I PCB Address
(78)	ADDRESS	4	TCADLQO	DL/I Workarea Address
(7C)	ADDRESS	4	TCADLSSA	DL/I SSA List Address
(80)	CHARACTER	4	TCADLLAN	DL/I Language Flags

REGISTER STORAGE

Offset Hex	Type	Len	Name (Dim)	Description
(84)	STRUCTURE	56	*	ORIGIN TO COMMON CONTROL REGISTER STORAGE
(84)	FULLWORD	4	TCADLRS (14)	DL/I INTERFACE REGISTER STORAGE AREA, STORES REGISTERS 14 THROUGH 11

CONTROL BLOCK NAME = DFHTCUTD  
DESCRIPTIVE NAME = CICS DFHTD USER OVERLAY OF THE DFHTCA

Offset Hex	Type	Len	Name (Dim)	Description
(60)	STRUCTURE	32	*	overlay on the TCA Common Control Communication Area
(60)	BITSTRING	1	TCATDTR	- type of request / response
	1... ..		*	- reserved
	.1... ..		TCATDPUT	- TYPE=PUT
	..1... ..		*	- reserved
	...1... ..		*	- reserved
	.... 1... ..		*	- reserved
	.... .1... ..		*	- reserved
	.... ..1... ..		*	- reserved
	.... ....1... ..		*	- reserved
(61)	CHARACTER	3	*	- reserved
(64)	CHARACTER	4	TCATDDI	queue id - either N(queue) or A(DCTE)
(68)	CHARACTER	24	TCATDROA	- CTYPE=... overlay area

Offset Hex	Type	Len	Name (Dim)	Description
(68)	STRUCTURE	4	*	overlay area for DFHTD TYPE=PUT,....,GET,....
(68)	ADDRESS	4	TCATDAA	- A(data area)

Offset Hex	Type	Len	Name (Dim)	Description
(68)	STRUCTURE	8	*	overlay area for DFHTD CTYPE=OPEN,....,PUT,....
(68)	ADDRESS	4	TCATDDA	- A(DCTE) or 0 - in each case TCATDDI contains N(queue)
(6C)	ADDRESS	4	TCATDOCP	- A(TDOC parameter list)
(6C)	ADDRESS	4	TCATDTDP	- A(TDTD parameter list)

## REGISTER STORAGE

Offset Hex	Type	Len	Name (Dim)	Description
(84)	STRUCTURE	56	*	ORIGIN TO COMMON CONTROL REGISTER STORAGE
(84)	FULLWORD	4	TCATDRS (14)	TRANSIENT DATA CONTROL PROGRAM REGISTER STORAGE AREA: STORES REGISTERS 14 THROUGH 11

CONTROL BLOCK NAME = DFHTCUTS  
DESCRIPTIVE NAME = CICS DFHTS User Overlay of the DFHTCA

Offset Hex	Type	Len	Name (Dim)	Description
(60)	STRUCTURE	36	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(60)	BITSTRING	1	TCATSTR	TYPE OF REQUEST/RESPONSE *
	1... ..		TCATSGET	get(q) request
	.1... ..		TCATSPUT	put(q) request
	..1... ..		TCATSREL	purge/release request
	...1... ..		TCATSADR	address supplied on get
	.... 1... ..		TCATSCND	conditional request
	.... .1... ..		TCATSENT	entry no. supplied on get
	.... ..1... ..		TCATSMST	main storage request
	.... ....1... ..		TCATSUPD	update request
	.... .....1... ..		TCATSSYS	system request
	.... ....1... ..		TCATSQUE	queue type request
(61)	BITSTRING	1	TCATSTR2	TYPE OF REQUEST (SECONDARY) *
	1... ..		TCATSICE	append ice
	.1... ..		TCATSPUN	put unique
	..1... ..		TCATSWRM	warm start restore
	...1... ..		TCATSEMR	emergency start restore
	.... 1... ..		TCATSBMS	class=bms
	.... ..1... ..		TCATSTRM	storage class=terminal

Offset Hex	Type	Len	Name (Dim)	Description
	.... ..1.		TCATSFLB	flush buffers
	.... ...1		TCATSE52	ESCAPE BIT (TCATSTR3 VALID) *
(62)	CHARACTER	1	TCATSSTT	SAVED STORAGE TYPE INDICATOR *
(63)	CHARACTER	1	*	Reserved
(64)	ADDRESS	4	TCATSDA	TEMPORARY STORAGE DATA ADDRESS *
(68)	CHARACTER	8	TCATSDI	TEMPORARY DATA IDENTIFICATION
(70)	HALFWORD	2	TCATSRN	TEMPORARY STORAGE RECORD NUMBER
(72)	CHARACTER	1	TCATSTR3	TYPE OF REQUEST(TERTIARY)
	1... .....		TCATSHDO	HEADER PRESENT IN OUTPUT DATA
	.1. ....		TCATSHLL	REQUEST ISSUED BY HLL - I.E. BY DFHETS
	..1. ....		TCATSEXT	EXTENDS TCA AFTER TCATSSTA
	...1 ....		TCATSPRV	PRIVILEGED REQUEST - DO NOT WAIT FOR OPEN-FOR-BUSINESS
	.... 1...		TCATSINI	CTYPE=INITIALIZE REQUEST
	.... .1..		TCATSWTI	CTYPE=WAITINIT REQUEST
	.... ..1.		TCATSRST	RESTART TASK
	.... ...1		TCATSGDB	DWE Recovery
(73)	CHARACTER	1	TCATSR52	2ND RESPONSE BYTE
	1... .....		TCATSHDI	HEADER PRESENT IN INPUT DATA
(74)	ADDRESS	4	TCATSCBA	APPENDED CONTROL BLOCK ADDRESS
(74)	ADDRESS	4	TCATSCBP	
(78)	FULLWORD	4	TCATSSTA	ADDRESS OF PREVIOUSLY AQUIRED STORAGE
(7C)	FULLWORD	4	TCATSLL	LL00 FIELD WHEN SEPARATE OR CONCAT = L'(LL00) + L'(DATA)
(80)	BITSTRING	1	TCATSCMD	COMMAND MODIFIER.
	1... .....		TCATSLRE	long record extrn queue
	.1. ....		TCATSLRH	long record header
	..1. ....		TCATSLRU	long record header update
	...1 1111		*	reserved
(81)	CHARACTER	1	*	reserved
(82)	HALFWORD	2	TCATSTNR	TOTAL NUMBER OF RECORDS
(84)	CHARACTER		*	

REGISTER STORAGE

Offset Hex	Type	Len	Name (Dim)	Description
(84)	STRUCTURE	56	*	ORIGIN TO COMMON CONTROL REGISTER STORAGE
(84)	FULLWORD	4	TCATSRS (14)	TEMPORARY STORAGE CONTROL PROGRAM REGISTER STORAGE AREA: STORES REGISTERS 14 THROUGH 11 *

CONTROL BLOCK NAME = DFHTCUDI  
 DESCRIPTIVE NAME = CICS DFHDI USER OVERLAY OF THE DFHTCA

Offset Hex	Type	Len	Name (Dim)	Description
(60)	STRUCTURE	24	*	
(60)	CHARACTER	2	TCADIRC	CURRENT RETURN CODE
(60)	BITSTRING	1	TCADIRC1	CLASS OF ERROR
	111. ....		*	
	...1 ....		TCADIQSN	UNKNOWN SENSE ERROR
	.... 1...		TCADIQFU	FUNCTION ERROR
	.... .1..		TCADIQDS	DESTINATION CHANGE RESPONSE
(61)	BITSTRING	1	TCADIRC2	VALUE OF ERROR CODE
(62)	BITSTRING	1	TCADIFL1	OPERATION TYPE
(63)	BITSTRING	1	TCADIFL2	OPERATION FLAGS
	1... .....		TCADIFNV	VOLADDR SPECIFIED
	.1. ....		TCADIFNM	SELECT SPECIFIED
	..1. ....		TCADIFNP	PROFILE SPECIFIED
	...1 ....		TCADIFND	DSN NOT SPECIFIED
(64)	BITSTRING	1	TCADIFL3	OPERATION FLAGS
	1... .....		TCADIFNF	DEFRESP=YES
	.1. ....		TCADIFSS	TYPE=SAVE SPECIFIED
	..1. ....		TCADIFNK	KEY SPECIFIED
	...1 ....		TCADIFNR	RRN SPECIFIED
	.... 1...		TCADIFKN	KEYNUMBER SPECIFIED
	.... ..1.		*	
	.... ...1		TCADIFRR	RESERVED
	.... ...1		TCADIFWT	WAIT REQUESTED OR DEFAULTED
(65)	BITSTRING	1	TCADIFL4	OPERATION FLAGS RESERVED FOR FUTURE USE
(66)	BITSTRING	1	TCADINRS	NUMBER OF RECORDS IN REQUEST
(67)	BITSTRING	1	TCADISEL	SELECT VALUE
(68)	CHARACTER	4	TCADIRNA	RECORD ID
(68)	ADDRESS	4	TCADIKYA	KEY ADDRESS
(6C)	ADDRESS	4	TCADIDNA	DATA SET NAME ADDRESS
(70)	ADDRESS	4	TCADIVNA	VOLUME NAME ADDRESS
(74)	BITSTRING	1	TCADIDSP	DATA STREAM PROFILE

Offset Hex	Type	Len	Name (Dim)	Description
(75)	CHARACTER	1	*	RESERVED
(76)	HALFWORD	2	TCADIKYN	KEYNUMBER VALUE
(78)	CHARACTER		TCADIPND	END OF PLIST MARKER

## Constants

Len	Type	Value	Name	Description
1	HEX	80	TCAEISUN	TCA CONTAINS A(UNINITIALISED EIS)
1	HEX	80	TCAACB	ABEND CONTROL BLOCK BUILT
CONSTANTS				
1	DECIMAL	12	TCACBAR	TASK CONTROL AREA COMMON
TASK CONTROL SECTION THE FOLLOWING BELONG TO FIELD TCATCDC				
1	HEX	13	TCADCITW	DCI=TERMINAL WAIT
1	HEX	20	TCADCIDT	DISPATCHABLE MASK
1	HEX	40	TCADCIEL	EVENT CONTROL LIST ADDRESS
1	HEX	80	TCADCISE	SINGLE EVENT CONTROL ADDRESS
1	HEX	88	TCADCISY	C I C S SYSTEM EVENT CONTROL
1	HEX	C5	TCADCEND	END-OF-ACTIVE-CHAIN MARKER
THE FOLLOWING BELONG TO FIELD TCATCTR				
1	HEX	10	TCATOMX	attach request
1	HEX	40	TCATWM	wait request
1	HEX	0E	TCACANCL	TASK CANCEL FORCE=NO
1	HEX	0F	TCACANCF	TASK CANCEL FORCE=YES
1	HEX	08	TCATRM	TASK RESUME MASK
1	HEX	05	TCACEM	CONDITIONAL ENQUEUE MASK
1	HEX	03	TCATDLM	SYNC.DEQUEUE-ALL MASK
1	HEX	02	TCATDM	TASK DEQUEUE MASK
1	HEX	01	TCATEM	TASK ENQUEUE MASK
1	HEX	31	TCADUPQ	DUPLICATE ENQUEUE RESPONSE
1	HEX	32	TCATCONQ	COND ENQ FAILED RESP
1	HEX	00	TCATCOK	COND ENQ SUCCESSFUL RESP
1	HEX	28	TCALOCA	LOCATE XTRAN (DOMAIN=ALL)
1	HEX	29	TCALOCR	LOCATE XTRAN (DOMAIN=REGION)
1	HEX	2A	TCABRW	BROWSE
1	HEX	2B	TCABRWUL	BROWSE UNLOCK PREVIOUS
1	HEX	2C	TCAPROFL	LOCATE PROFILE
1	HEX	2D	TCAPROB	BROWSE PROFILES
1	HEX	2E	TCAPROBU	BROWSE PROFILES UNLOCK PREVIOUS
1	HEX	2F	TCAKCREP	REPLACE PCT ELEMENT
1	HEX	2F	TCAKCSRQ	KCP SECONDARY REQUEST
THE FOLLOWING BELONG TO FIELD TCAPURGI				
1	HEX	BF	TCASNPRG	STALL NO PURGE MASK
EXIT XSRAB ABEND RECOVERY OPTION (TCAPCARO) VALUES				
1	HEX	00	TCAPCAGO	Abend ASRB, don't cancel exits
1	HEX	C3	TCAPCANC	Abend ASRB, cancel exits
1	HEX	C1	TCAPCAAC	Terminate CICS
STORAGE TYPE HIT BY ASRA 0C4 (TCAPCSTG) VALUES				
1	HEX	00	TCANOHit	No hit or not 0C4
1	HEX	01	TCACDSA	CDSA hit
1	HEX	02	TCAECDSA	ECDSA hit
1	HEX	03	TCAERDSA	ERDSA hit
1	HEX	04	TCARDSA	RDSA hit
1	HEX	05	TCAEUDSA	EUDSA hit
1	HEX	06	TCAUDSA	UDSA hit
1	HEX	10	TCADYCSA	Dummy CSA/TCA hit
1	HEX	20	TCADYRCT	Dummy RCT hit
EXIT XPCTA RETRY EXECUTION KEY (TCAPCRFL) VALUES				
1	HEX	80	TCAPCUSK	Retry in USER key
1	HEX	40	TCAPCCIK	Retry in CICS key
NOTE THAT THESE DEFINITIONS ARE LOGICALLY BYTE DEFINITIONS THE FOLLOWING BELONG TO FIELD TCAFCI				
1	HEX	00	TCAFCTDM	TASK-DEPENDENT FACILITY MASK
CONSTANTS THE FOLLOWING BELONG TO TCAKRC				
1	HEX	00	TCAKCOK	SUCCESS
1	HEX	08	TCAKCWRN	WARNING MESSAGE ISSUED
1	HEX	10	TCAKCDER	DISASTROUS ERROR
1	HEX	12	TCAKCINV	INVALID NEW VALUE PASSED
1	HEX	16	TCAKCINP	INVALID PARM TYPE PASSED
1	HEX	00	TCAKCATS	ATTACH SUCCESSFUL
1	HEX	31	TCAKCATF	ATTACH FAILED
1	HEX	32	TCAKCTNF	TRANSACTION NOT FOUND

Len	Type	Value	Name	Description
THE FOLLOWING BELONG TO TCAKCSRB				
1	HEX	01	TCAKCSRR	CTYPE=REPLACE
1	HEX	02	TCAKCSRI	CTYPE=INITIALIZE
1	HEX	03	TCAKCSRW	CTYPE=WAITINIT
1	HEX	04	TCAKCSRK	RESTART TASK
CONSTANTS				
THE FOLLOWING BELONG TO TCAICTR				
1	HEX	10	TCAICGTM	'GETIME' TYPE OF REQUEST
1	HEX	20	TCAICWTM	'WAIT' TYPE OF REQUEST
1	HEX	30	TCAICPST	'POST' TYPE OF REQUEST
1	HEX	40	TCAICINT	'INITIATE' TYPE OF REQUEST
1	HEX	50	TCAICPUT	'PUT' TYPE OF REQUEST
1	HEX	60	TCAICIND	'INITIATE' DEFERRED
1	HEX	70	TCAICPTH	'PUT WITH HEADER' TYPE OF REQUEST (CICS INTERNAL)
1	HEX	80	TCAICGET	'GET' TYPE OF REQUEST
1	HEX	81	TCAICGNR	'GET-NO RELEASE' REQUEST
1	HEX	90	TCAICRTY	'RETRY' TYPE OF REQUEST
1	HEX	A0	TCAICRST	'RESET' CICS INTERNAL
1	HEX	B0	TCAICSCH	'SCHEDULE' (CICS INTERNAL)
1	HEX	C0	TCAICTXA	EXPIRY ANALYSIS, APTIX Call *
1	HEX	D0	TCAICRVY	DWE DRIVEN ACTIONS.
1	HEX	E0	TCAICSCD	Secondary Request TCAICTR2 contains code
1	HEX	F0	TCAICCNL	'CANCEL' TYPE OF REQUEST
1	HEX	01	TCAICPFM	PACKED TIME-OF-DAY REQUEST MASK
1	HEX	01	TCAICTFM	AUTOMATIC TASK INITIATION - TERMINAL FACILITY MASK
1	HEX	01	TCAICNRL	'NO RELEASE' MASK
1	HEX	01	TCAICDWE	SCHEDULE BUILDS DWE.
1	HEX	02	TCAICUDA	RETURN DATA TO USER MASK
1	HEX	02	TCAICRAM	RETURN 'GET' DATA ADDRESS
1	HEX	02	TCAICRIP	'REQID=PREFIX' REQUEST
1	HEX	06	TCAICCSA	'CLASS=' (CICS INTERNAL)
1	HEX	04	TCAICIDM	ICP REQUEST IDENTIFIER GIVEN MASK
1	HEX	08	TCAICXTM	EXPIRATION TIME GIVEN MASK
1	HEX	08	TCAICGWT	'WAIT' OPTION ON GET.
1	HEX	40	TCAICFND	SEARCH, TRAN FOUND RESPONSE *
1	HEX	08	TCAICNFD	SEARCH, TRAN NOT FOUND RESP *
CONSTANTS				
THE FOLLOWING BELONG TO TCAICTR2				
NOTE: See definition of TCAICTR2 above before adding more byte definitions.				
1	HEX	01	TCAICSRC	Search
1	HEX	02	TCAICRGW	Resume Get Waiters
CONSTANTS				
THE FOLLOWING REFER TO FIELD TCATPAPR				
1	HEX	0C	TCATPRCC	BAD REQUEST RETURN
1	HEX	14	TCATPR14	MODE GP OUT OF SERVICE
1	HEX	18	TCATPR18	LUC DRAIN=ALL
1	HEX	1C	TCATPR1C	RM ADD_LINK failure
THE FOLLOWING REFER TO FIELD TCATPLRC				
1	HEX	00	TCATPLNR	NORMAL RETURN
1	HEX	F0	TCATPLLE	LAST ENTRY
1	HEX	F1	TCATPLIR	INVALID REQUEST
1	HEX	F2	TCATPLII	INVALID TERMINAL ID
1	HEX	F3	TCATPLIA	INVALID ADDRESS
1	HEX	F4	TCATPLIL	INVALID LOGICAL DEVICE CODE
1	HEX	F5	TCATPNAT	ATI REQUIRED ON NON-ATI
1	HEX	F6	TCATPVAL	RESOURCE PROBLEM FOR
1	HEX	F7	TCATPNVL	INVALID PROGRAM NAME
1	HEX	F8	TCATPRFL	UNABLE TO PERFORM REQUEST
1	HEX	F9	TCATPLNL	TYPE IS NOT LUC
1	HEX	FA	TCATPBSY	BUSY
1	HEX	FB	TCATPUSR	INVALID USERID
1	HEX	FC	TCATPDFR	Purge was deferred
THE FOLLOWING REFER TO FIELD TCATPOS1				
ZARQ REQUEST FLAGS				
1	HEX	00	TCATPIOR	I/O REQUEST TYPE
1	HEX	01	TCATPISG	ISSUE SIGNAL REQUEST
1	HEX	20	TCATPASS	CLSDST PASS
1	HEX	40	TCATPPGM	PROGRAM REQUEST
1	HEX	80	TCATPEOD	EOD REQUEST
ZISP REQUEST FLAGS				
1	HEX	01	TCATPALL	ALLOCATE REQUEST.
POINT logic moved in-line to ISP				
1	HEX	03	TCATPFRE	FREE REQUEST.
1	HEX	04	TCATPFRD	FREE DETACH REQUEST
1	HEX	05	TCATPFRR	FREE RELEASE REQUEST
1	HEX	06	TCATPLUA	DFHLUC ALLOC REQUEST
1	HEX	07	TCATPLUF	DFHLUC FREE REQUEST

Len	Type	Value	Name	Description
ZIS1 CTYPE REQUEST FLAGS				
1	HEX	01	TCATPPRP	PREPARE REQUEST.
1	HEX	02	TCATPSPR	SPR REQUEST.
1	HEX	03	TCATPCMM	COMMIT REQUEST.
1	HEX	04	TCATPABT	ABORT REQUEST.
1	HEX	05	TCATPSRB	ROLLBACK request
1	HEX	06	TCATPERR	ISSUE-ERROR request
1	HEX	07	TCATPABN	ISSUE-ABEND request
1	HEX	08	TCATPSHU	SHUNT request
ZLOC REQUEST FLAGS				
1	HEX	01	TCATPLOC	LOCATE REQUEST
1	HEX	02	TCATPATI	AUTOMATIC TASK INITIATION
1	HEX	05	TCATPUNL	UNLOCK REQUEST
1	HEX	08	TCATPLDR	LOGICAL DEVICE CODE REQUEST
1	HEX	20	TCATPSYN	SYNC-POINT REQUEST
1	HEX	21	TCATPRCY	RECOVER REQUEST
1	HEX	10	TCATPXLT	TRANSLATE ID TO UNIQUENAME (REQUEST)
ZDET REQUEST FLAGS				
1	HEX	10	TCATPDET	DETACH REQUEST
ZSTU REQUEST FLAGS				
1	HEX	02	TCATPFOR	FORCEPURGE
1	HEX	03	TCATPPUR	TASK PURGE REQ(TCATPTA=TCA)
1	HEX	04	TCATPTST	STATUS REQUEST
THE FOLLOWING REFER TO FIELD TCATPOS2 ZLOC REQUEST SETTINGS WITH CTYPE=LOCATE, 3 BITS SPECIFY THE FORM OF SEARCH ARGUMENT: THE INTERPRETATION OF THE 2 LOW-ORDER BITS IS MAINTAINED IN THE FOLLOWING, FOR COMPATIBILITY WITH CALLS IN OLD MODULES.				
1	HEX	00	TCATPLCL	LOCAL DOMAIN IE THIS CICS.
1	HEX	08	TCATPSTM	THE SYTEMS ENTRIES.
1	HEX	10	TCATPREM	REMOTE DOMAIN (ALL REGIONS)
1	HEX	18	TCATPGBL	ALL REGIONS, LOCAL & REMOTE
1	HEX	20	TCATPNIB	TERMINAL SESSION, IDENTIFIED VIA
1	HEX	28	TCATPSES	SESSIONS, DEPENDENT ON SPECIFIED
1	HEX	30	TCATPGRP	LUC SESSIONS, DEPENDENT UPON A
1	HEX	38	TCATPMOD	MODE GROUP ENTRIES, DEPENDENT UPON
1	HEX	40	TCATPLUC	LUC SYSTEM OR SESSION DOMAIN
1	HEX	48	TCATPOOL	POOL TERMINALS DOMAIN
1	HEX	50	TCATPIRC	IRC SYSTEM DOMAIN
1	HEX	58	TCATPSUR	SURROGATE TCTTE DOMAIN
1	HEX	60	TCATPPRT	PRINTER SPOOLER DOMAIN
1	HEX	00	TCATPADR	ADDR OF PASSED TEJSE.
1	HEX	01	TCATPTID	ID REQUEST -- 4 BYTES GIVEN
1	HEX	02	TCATPNXT	ADDR GIVEN, NEXT REQUESTED
1	HEX	03	TCATPUNQ	UNIQUE COMPOUND NAME GIVEN
1	HEX	04	TCATPFST	FIRST-IN-DOMAIN REQUEST.
1	HEX	05	TCATPNET	PTR TO VTAM NETNAME GIVEN.
1	HEX	06	TCATPSID	COMPARE SIDS.
1	HEX	07	TCATPFM7	8TH FORMAT UNDEFINED.
THE FOLLOWING REFER TO FIELD TCATPOC1				
1	HEX	01	TCATPWCI	CONTROL CHARACTER SUPPLIED
1	HEX	02	TCATPOFR	END OF FILE REQUEST
1	HEX	04	TCATPPBK	PASSBOOK REQUEST
1	HEX	08	TCATPCBR	COMMON BUFFER REQUEST
1	HEX	10	TCATPRAR	READ ATTENTION ANALYSIS
1	HEX	20	TCATPWBR	WRITE BREAK ANALYSIS
1	HEX	40	TCATP120	PLIST IS AT V1.2.0 LEVEL
1	HEX	80	TCATPDRR	DEFINITE RESPONSE REQUESTED
1	HEX	08	TCATOTTI	TTI ALLOWED
1	HEX	04	TCATNTTI	NO TTI ALLOWED
1	HEX	02	TCATOATI	ATI ALLOWED
1	HEX	01	TCATNATI	NO ATI ALLOWED
1	HEX	00	TCATPCOM	COMMUNICATION INDICATOR
PROGRAM CONTROL PRIMARY REQUEST BYTE VALUES				
1	HEX	01	TCAPCLNK	LINK
1	HEX	20	TCAPCEXT	SETEXIT
1	HEX	40	TCAPCABD	ABEND
1	HEX	41	TCAPCADC	ABEND AND CANCEL ALL EXITS *
1	HEX	60	TCAPCABA	ABEND WITH ABCODE
1	HEX	61	TCAPCACA	ABEND CANCEL EXITS WITH ACODE *
RESPONSE RETURN CODES				
1	HEX	00	TCAPCROK	NORMAL RESPONSE
1	HEX	02	TCAPCINV	INVALID PROGRAM CNTRL REQUEST *
1	HEX	03	TCAPCFFA	FAILURE FROM FETCH
1	HEX	04	TCAPCABN	ABEND RETURNED TO URM
1	HEX	01	TCAPCWAM	WRONG AMODE FOR LINK
1	HEX	02	TCAPCNON	PPT NOTFND, NOT PCLASS
PROGRAM CONTROL SECONDARY REQUEST BYTE VALUES				



Len	Type	Value	Name	Description
1	HEX	02	TCAPCEXR	EXIT IS ROUTINE (SETEXIT) *
1	HEX	06	TCAPCPNR	REFRESH (WITH SETEXIT)
1	HEX	08	TCAPCREX	RESETEXIT (SETEXIT)
1	HEX	40	TCAPCSYS	PROGRAM CLASS IS SYSTEM
1	HEX	80	TCAPCNOD	SUPPRESS DUMP (WITH ABEND) *
CONSTANTS				
TCAPHTR EQUATES				
1	HEX	01	TCAPHPSI	TYPE=PSETLOAD
1	HEX	02	TCAPHPSC	TYPE=PSETCRT
1	HEX	03	TCAPHPIN	DECOMPOSE 3270E INBOUND
1	HEX	04	TCAPHPEX	INPUT FROM WRONG PARTITION
TCAPHRC EQUATES				
1	HEX	00	TCAPHROK	GOOD RETURN CODE
1	HEX	04	TCAPHNPS	PARTITION SET NOT KNOWN
1	HEX	08	TCAPHIPS	INVALID PARTITION SET
1	HEX	0C	TCAPHNP	PARTITION NOT KNOWN
1	HEX	10	TCAPHERR	IRRECOVERABLE ERROR
CONSTANTS				
THE FOLLOWING BELONG TO THE BYTE TCAMSRC1				
1	HEX	00	TCAMSNR1	NORMAL RESPONSE
THE FOLLOWING BELONG TO THE BYTE TCAMSTR4				
1	HEX	C0	TCAMSTDY	DATA = YES
THE FOLLOWING BELONG TO THE BYTE TCAMSJ				
1	HEX	FF	TCAMSJF	JUSTIFY = FIRST
1	HEX	FE	TCAMSJL	JUSTIFY = LAST
THE FOLLOWING CONSTANTS REFER TO TCASPRC				
1	HEX	00	TCASPRC0	NORMAL RETURN
1	HEX	01	TCASPRC1	Rolled Back
1	HEX	08	TCASPRC8	STATE ERROR
TCADLRC and TCADLTR are used to indicate the results of a DL/I related request. TCADLRC contains the Response Code and, where appropriate, TCADLTR contains the Reason Code to explain the response code further.				
TCADLRC may contain the following response codes:-				
1	HEX	00	TCADLNR	Normal Response
1	HEX	08	TCADLINV	Invalid Request (Reason in TCADLTR)
1	HEX	0C	TCADLNOP	Not Open (Reason in TCADLTR)
1	HEX	14	TCADLIDB	DBRC Check Failure (DBRC Return Code in TCADLTR)
1	HEX	18	TCADLNGL	Global Request Failure - Command only attempted locally (Results of the request in TCADLTR)
TCADLTR may contain the following response codes:- When Normal Response - TCADLRC=TCADLNR TCADLTR will also contain TCADLNR to indicate Normal Response When Invalid Request - TCADLRC=TCADLINV				
1	HEX	00	TCADLINA	Invalid Argument
1	HEX	00	TCADLPIN	PI Trace On (CEMT PITRACE only)
1	HEX	01	TCADLPNF	PSB Not Found in PDIR
1	HEX	03	TCADLSFS	Schedule Failure - A PSB is already scheduled
1	HEX	04	TCADLPFIF	PI Trace Off (CEMT PITRACE only)
1	HEX	05	TCADLSFI	Schedule Failure - IMS unable to schedule PSB
1	HEX	07	TCADLTFE	Termination Failure - No PSB has been scheduled
1	HEX	08	TCADLFUF	Function Failure - No PSB has been scheduled
1	HEX	08	TCADLNPI	PI not being used (CEMT PITRACE only)
1	HEX	10	TCADLSFP	Schedule Failure - Invalid System Service parameter
1	HEX	14	TCADLFPX	Function prevented by User Exit XDLPRE
1	HEX	1C	TCADLSTG	Unable to acquire storage
The following code applies to TCADLTR				
The following codes indicate the result of a Master Terminal request to reconnect to the IRLM.				
1	HEX	61	TCADLRIF	IRLM IDENTIFY FAILED
1	HEX	62	TCADLRE2	MASTER TERMINAL RECONNECT ALREADY IN PROGRESS
1	HEX	63	TCADLNOI	IRLM NOT REINITIALIZED YET
1	HEX	64	TCADLRNG	IRLM NOT REQUESTED FOR THIS BRINGUP
1	HEX	65	TCADLIRA	IRLM ALREADY CONNECTED
The following codes indicate the result of other Master Terminal requests.				
1	HEX	71	TCADLDNF	DB NOT FOUND (FOR MT REQUEST)
1	HEX	72	TCADLBSY	OTHER MT ACTING ON THIS DB
1	HEX	73	TCADLINT	DB CMD FAILED FOR INTEGRITY REASONS
1	HEX	74	TCADLIAC	ACCESS PARAMETER ILLEGAL
1	HEX	75	TCADLIGL	GLOBAL PARAMETER ILLEGAL
1	HEX	76	TCADLFCL	CLOSE FAILED DURING REQUEST
1	HEX	77	TCADLFCA	CHANGE-AUTHORISATION FAILED
1	HEX	78	TCADLCSF	NOT YET SAFE TO DO *REC RQST

Len	Type	Value	Name	Description
1	HEX	79	TCADLFDA	DE-ALLOCATION FAILURE
TCADLNLD BIT(8) CONSTANT(7AX) NO LOCAL PSBs - removed				
1	HEX	FF	TCADLNA	DL/I Support not available
When Not Open - TCADLRC=TCADLNOP				
1	HEX	00	TCADLDBC	Data Base not open
1	HEX	02	TCADLISC	Intent Scheduling Conflict
When Global Command Failure - TCADLRC=TCADLNGL				
1	HEX	00	TCADLLNR	Normal Response to Local Request
1	HEX	10	TCATDTLO	- TYPE=LOCATE
1	HEX	E1	TCATDCLO	- CTYPE=LOCATE
1	HEX	E3	TCATDITD	- CTYPE=INIT_TD
1	HEX	E4	TCATDBRW	- CTYPE=BROWSE
1	HEX	F0	TCATDINI	- CTYPE=INITIALIZE
1	HEX	F1	TCATDWTI	- CTYPE=WAITINIT
1	HEX	FA	TCATRST	- CTYPE=RESETRIG
1	HEX	FC	TCATDCPT	- CTYPE=PUT
1	HEX	FD	TCATDCGT	- CTYPE=GET
1	HEX	FE	TCATDCPR	- CTYPE=PURGE
CONSTANTS				
The following refer to TCATSTR.				
1	HEX	00	TCATSNML	normal response
1	HEX	01	TCATSENE	entry number error
1	HEX	02	TCATSIDE	id error
1	HEX	04	TCATSIOE	input/output error
1	HEX	08	TCATSNOS	nospace error
1	HEX	20	TCATSINV	invalid request error
1	HEX	80	TCATSDUP	duplicate id error
The following refer to TCATSTR2 for the CYPE=GETDWEB command				
1	HEX	00	TCATSGDY	normal response
1	HEX	01	TCATSGDM	err-DWE already there
1	HEX	02	TCATSGDE	err-no TCTTE/URD/TSTUTE
THE FOLLOWING REFER TO TCATSSTT				
1	CHARACTER	A	TCATSSTU	TSUT TYPE STORAGE
1	CHARACTER	B	TCATSSTG	TSUID TYPE STORAGE
1	CHARACTER	C	TCATSSTD	DATA TYPE STORAGE
1	CHARACTER	D	TCATSSTM	TIOA STORAGE
THE FOLLOWING REFER TO TCATSCMD				
1	HEX	00	TCATSNRM	NORMAL
1	HEX	C0	TCATSHDR	SPECIAL HEADER. SPHDR.
CONSTANTS				
THE FOLLOWING BELONG TO THE BYTE TCADIRC1				
1	HEX	00	TCADIQNM	NORMAL RESPONSE
1	HEX	0C	TCADIQSL	SELECTION ERROR
THE FOLLOWING BELONG TO THE BYTE TCADIRC2				
1	HEX	01	TCADIQBE	BEGIN DESTINATION
1	HEX	02	TCADIQRE	RESUME DESTINATION
1	HEX	11	TCADIQEN	END DESTINATION
1	HEX	12	TCADIQSU	SUSPEND DESTINATION
1	HEX	13	TCADIQAB	ABORT DESTINATION INBOUND
1	HEX	14	TCADIQAY	ABORT DESTINATION OUTBOUND
1	HEX	15	TCADIQCN	CURRENTLY NO DATA TO SEND
1	HEX	21	TCADIQIF	INVALID FUNCTION
1	HEX	22	TCADIQLF	RECORD TOO LONG
1	HEX	23	TCADIQFD	DATA SET FULL
1	HEX	24	TCADIQIK	INVALID RECORD KEY OR
1	HEX	25	TCADIQID	I/O ERROR ON OUTBOARD DISK
1	HEX	26	TCADIQIB	INVALID NUMERICAL RECORD
1	HEX	28	TCADIQIR	INSUFFICIENT RESOURCE
1	HEX	29	TCADIQND	DATA SET NOT FOUND
1	HEX	2A	TCADIQTD	DATA SET ALREADY EXISTS
1	HEX	2B	TCADIQCD	REQUEST CHANGE DIRECTION ERROR
1	HEX	41	TCADIQXD	DESTINATION DOES NOT EXIST
1	HEX	42	TCADIQBD	BUSY DATA SET
1	HEX	43	TCADIQXM	SELECT VALUE NOT SUPPORTED
1	HEX	44	TCADIQLD	DESTINATION NAME LENGTH
1	HEX	45	TCADIQIV	INVALID VOLUME
1	HEX	46	TCADIQLV	VOLUME NAME LENGTH ERROR
1	HEX	47	TCADIQTT	TRANSMIT DATASET ATERM
1	HEX	48	TCADIQAV	ACTIVE DESTINATION SELECTED
1	HEX	60	TCADIQTS	TEMPORARY STORAGE ERROR
1	HEX	F1	TCADIQUF	UNEXPECTED SENSE CODE REC'D
1	HEX	F2	TCADIQUA	INVALID INPUT RECEIVED
1	HEX	F3	TCADIQUI	UNSUPPORTED INPUT RECEIVED
THE FOLLOWING BELONG TO THE BYTE TCADIFL1				
1	HEX	01	TCADIFOA	TYPE=ADD
1	HEX	02	TCADIFOE	TYPE=ERASE
1	HEX	03	TCADIFOR	TYPE=REPLACE

Len	Type	Value	Name	Description
1	HEX	04	TCADIFAB	TYPE=ABORT
1	HEX	05	TCADIFOQ	TYPE=QUERY
1	HEX	06	TCADIFEN	TYPE=END
1	HEX	07	TCADIFIR	TYPE=RECEIVE
1	HEX	08	TCADIFNT	TYPE=NOTE
1	HEX	09	TCADIFDT	TYPE=DETACH
1	HEX	0A	TCADIFIB	TYPE=ATTACH
1	HEX	0B	TCADIFOS	TYPE=SEND
1	HEX	0C	TCADIFCK	TYPE=WAIT
1	HEX	0D	TCADIFCA	CTYPE=ABORT
1	HEX	00	TCADIRLE	RELEASE LEVEL

## TCADY Task control area - system area

DESCRIPTIVE NAME = TASK CONTROL AREA - SYSTEM AREA  
 FUNCTION = The DFHTCADY structure is repeated to provide  
 the offsets when it is addressed separately.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	520	DFHTCADY	
SYSTEM AREA				
(0)	CHARACTER		DFHSYTCA	
(0)	CHARACTER	8	*	Reserved
(8)	ADDRESS	4	*	Reserved
(C)	ADDRESS	4	*	Reserved
TASK CONTROL SECTION				
CONTROL BLOCK NAME = DFHTCSKC				
DESCRIPTIVE NAME = CICS DFHKC system overlay of the DFHTCA				
(10)	CHARACTER	4	TCATXNUM	TXN MGR transaction num
(10)	BITSTRING	1	*	X'00'
(11)	CHARACTER	3	TCAKCTTA	TASK IDENTIFICATION NUM
(14)	CHARACTER	8	TCASPOOL	TCA subpool id
(1C)	ADDRESS	4	TCATCPC	PROGRAM CONTROL TABLE ENTRY ADDRESS
(20)	ADDRESS	4	TCADCAA	TQE address
(20)	ADDRESS	4	TCATQEA	TQE ADDRESS
(24)	CHARACTER	4	*	Reserved
(28)	ADDRESS	4	TCARSTSK	RESUME TASK'S T C A ADDRESS
(2C)	ADDRESS	4	TCADWLBA	DEFERRED WORK LIST BEGIN ADDRESS
INTERVAL CONTROL SECTION				
CONTROL BLOCK NAME = DFHTCSIC				
DESCRIPTIVE NAME = CICS DFHIC System Overlay of the DFHTCA				
INTERVAL CONTROL SECTION				
(30)	ADDRESS	4	TCAICEAD	INTERVAL CONTROL ELEMENT ADDRESS
(34)	ADDRESS	4	*	Reserved
PROGRAM CONTROL SECTION				
CONTROL BLOCK NAME = DFHTCSPC				
DESCRIPTIVE NAME = CICS Section used by PROGRAM CONTROL				
(38)	ADDRESS	4	TCAPCSA	Head of chain of PESAs used to stack up info over a link
(3C)	CHARACTER	12	TCAPCTWA	PROGRAM CONTROL WORK AREA
(3C)	ADDRESS	4	*	Reserved
(40)	ADDRESS	4	TCAPCHS	HIGH-LEVEL-LANGUAGE SAVE AREA ADDRESS
TCAPCDSA is the head of the chain of dynamic storage used by application programs to make them reentrant. - for PL/I it is the chain of PL/I DSA's (also called TCAPCPA) - for COBOL it is the TGT and (for EXEC) the WS (also called TCAPCCA) - for ASSEMBLER (EXEC only) it is the 16 byte prefix to the DFHEISTG storage - for RPG it is the entire program				
(44)	CHARACTER	4	TCAPCPA	PL/I ACQUIRED AREA ADDRESS
(44)	CHARACTER	4	TCAPCCA	COBOL ACQUIRED AREA ADDRESS
(44)	ADDRESS	4	TCAPCDSA	DYNAMIC STORAGE HEADER ADDRESS
(48)	ADDRESS	4	*	Reserved
(4C)	CHARACTER	8	TCAPCIPN	Name of invoking program after DPL from client
TRANSIENT DATA SECTION				
CONTROL BLOCK NAME = DFHTCSTD				
DESCRIPTIVE NAME = CICS DFHTD system overlay of the DFHTCA				
TRANSIENT DATA SECTION				
(54)	ADDRESS	4	TCAIDAA	INTRAPARTITION DATA AREA

Offset Hex	Type	Len	Name (Dim)	Description
BASIC MAPPING SUPPORT				
CONTROL BLOCK NAME = DFHTCSBM				
DESCRIPTIVE NAME = CICS DFHBSM System Overlay of the DFHTCA				
BASIC MAPPING SUPPORT				
(58)	ADDRESS	4	TCAOSPWA	OUTPUT SERVICE PROCESSOR WORK AREA ADDRESS (BMS)
(5C)	ADDRESS	4	*	Reserved
(60)	BITSTRING	1	*	Reserved
(61)	CHARACTER	2	*	Reserved
(63)	BITSTRING	1	TCADLII	DL/I INDICATOR
	1... ..		TCADLISI	DL/I SCHEDULING INITIATED
	.111 1111		*	Reserved
(64)	FULLWORD	4	*	Reserved
RECOVERY / RESTART SECTION				
CONTROL BLOCK NAME = DFHTCSSP				
DESCRIPTIVE NAME = CICS DFHSP SYSTEM OVERLAY OF THE DFHTCA				
RECOVERY / RESTART SECTION				
(68)	BITSTRING	1	TCAZLUWD	TASK'S LOGICAL UNIT OF WORK (LUW) DEFINITION
	1... ..		TCAZAKPT	Activity keypoint
	.111 1111		*	Reserved
(69)	BITSTRING	1	TCAZLUWT	TASK'S LUW STATUS
	1... ..		TCAZRRD	A READ HAS OCCURRED IN THIS LUW
	.1. ....		TCAZRWR	A WRITE HAS OCCURRED IN THIS LUW
	.1. ....		TCAZINDT	Next SHUNT is 'in-doubt'
	..1 1...		*	Reserved
	.... .1.		TCAZDLIC	DL/I-SYNCHRONOUS 4 COMMUNICATION ESTABLISHED
	.... ..11		*	Reserved
(6A)	BITSTRING	1	TCABRPS	Rollback status
	11.. ....		*	Reserved
	..1. ....		TCABRPSR	Backout-Reqd prog state
	...1 1111		*	Reserved
(6B)	CHARACTER	1	*	Reserved
(6C)	ADDRESS	4	TCADWASV	SAVE ADDR OF DWE CHN.
(70)	CHARACTER	12	*	Reserved
(7C)	CHARACTER	4	TCAORABC	ORIGINAL ABEND CODE
(7C)	CHARACTER	4	TCADBABC	ABEND CODE OF APPLICATION.
(80)	BITSTRING	1	TCATRTO	TERMINAL READ TIME OUT VALUE
(81)	BITSTRING	1	TCAFLAGS	MISCELLANEOUS FLAGS
	1... ..		*	Reserved
	.1. ....		TCANOTRC	SUPPRESS TRACE FOR TASK
	..1. ....		*	Reserved
	...1 ....		TCASZUSE	FEPI Access in Task
	.... 1...		*	Reserved
	.... .1.		TCAUKCAL	MAKE CALL IN USER KEY
	.... ..1.		*	Reserved
#				APAR PQ25422
#				removes TCAJVMXT
#			*	Reserved
(82)	BITSTRING	1	TCASCS	SCREEN SIZE SELECTION ETC
	1... ..		TCAFASTL	FAST LINK to DFHMIRS
	.111 ....		*	Reserved
	.... 1...		TCASCSA	ALTERNATE SCREEN SIZE
	.... .1.		*	Reserved
	.... ..1.		TCAPRTCM	BMS TEXT PRINTER COMPATIBILITY
	.... ..1.		TCATCABT	DFHACP abending flag
(83)	BITSTRING	1	TCAIRTC	INTER REGION RETURN CODE
(84)	ADDRESS	4	TCARLB	Address of TMP lock block
(88)	ADDRESS	4	TCAEMSSV	SAVE AREA FOR DFHEMS
(8C)	BITSTRING	1	*	Reserved
(8D)	BITSTRING	1	*	Reserved
(8E)	CHARACTER	1	*	Reserved
(8F)	BITSTRING	1	TCAEISFL	EXEC CICS I/F FLAG
(90)	ADDRESS	4	TCAEISA	EXEC CICS I/F STRUCT ADDR
(94)	ADDRESS	4	TCACAAAD	LE/370 Anchor Address
(98)	ADDRESS	4	TCACEEPT	LE/370 Parameter List Address *
(9C)	ADDRESS	4	TCAREGPT	EXEC CICS registers
(A0)	ADDRESS	4	TCIIIRE	III task return addr
(A4)	ADDRESS	4	TCALTGET	LIFO PUSH ROUTINE(=CSALFNAC) * SEE...TCALTFRE BELOW.
(A8)	FULLWORD	4	*	Reserved
(AC)	FULLWORD	4	*	Reserved
(B0)	CHARACTER	4	TCAKCTTI	Assigned transaction id
(B4)	ADDRESS	4	TCATCUCN	TCTTE USER CHAIN FIELD.
(B8)	ADDRESS	4	*	Reserved
(BC)	ADDRESS	4	TCAXFS23	XFSTG FOR TRANSFORMATION 2 AND 3
(C0)	ADDRESS	4	TCARSBA	ADDRESS OF REMOTE SCHEDULING BLOCK
(C4)	CHARACTER	4	TCAKCOID	ID WHICH ORIGINATED TASK
(C8)	BITSTRING	1	TCADLIST	DLI STATUS INFORMATION
	1... ..		TCAUIBAQ	UIB ACQUIRED
	.111 ....		*	Reserved
	.... 1...		TCAEXDLI	EXEC DLI
	.... .1.		*	Reserved
	.... ..1.		TCAREMOT	REMOTE

Offset Hex	Type	Len	Name (Dim)	Description
	.... ..1		TCADBCTL	DBCTL
(C9)	CHARACTER	2	TCAACMSG	DFHACP MSG NUMBER
(CB)	BITSTRING	1	TCAAPFLG	AP DOMAIN FLAGS @BA81573C
	1... ..		TCARSREQ	RESUME REQUIRED
	.1.. ....		TCAXMSOT	APXML should invoke APXM
	..1. ....		TCAROUTE	Transaction route attach has been sent to a remote CICS system
	...1 1111		*	Reserved
(CC)	CHARACTER	2	*	Reserved
(CE)	BITSTRING	1	*	Reserved
(CF)	BITSTRING	1	TCAAAM	APPLICATION ADDRESSING MODE NB BITS 1 - 7 OF BYTE TCAAAM MUST BE ZERO
	1... ..		TCAAAM31	31-BIT MODE
(D0)	ADDRESS	4	*	Reserved
(D4)	CHARACTER	4	TCACRABC	CURRENT ABEND CODE
(D4)	CHARACTER	4	TCAPCABC	CURRENT ABEND CODE
(D8)	CHARACTER	3	*	Reserved
(DB)	CHARACTER	1	TCIACB	ABEND CONTROL BLOCK STATUS *
(DC)	ADDRESS	4	TCAPCACB	ABEND CONTROL BLOCK ADDRESS
(E0)	CHARACTER	4	TCASENSE	SENSE FIELDS
(E0)	CHARACTER	2	TCASS1	SYSTEM SENSE
(E2)	CHARACTER	2	TCAUS1	USER MSG NO.
(E4)	ADDRESS	4	TCATIEBA	TIE CHAIN FOR API ROUTER
(E8)	ADDRESS	4	TCADMTLA	ADDRESS OF CSD MANAGER TASK LOCAL STORAGE
(EC)	FULLWORD	4	TCATRRRC	Transaction Routing RC
# (F0)	CHARACTER	7	*	Reserved
#				<b>APAR PQ25422</b>
#				shortens reserved field from 8 to 7 to use 1 byte for flags TCAJVM
# (F7)	CHARACTER	5	TCAJVM	JVM information
# (F7)	BITSTRING	1	TCACJVMF	DFHCJVM flags
#	1... ..		TCAFURM	Fetch for URM DFHJVMAT in progress
#	.1.. ....		TCACURM	Call to URM DFHJVMAT in progress
#	..1. ....		TCAJVMXT	system.exit from JVM issued
#	...1 1111		*	Reserved
# (F8)	ADDRESS	4	TCAJVMTK	Token for the JVM instance used
(FC)	ADDRESS	4	TCAPCXA	PROGRAM LOAD POINT ADDRESS
(100)	CHARACTER	8	TCATRRSN	RESOURCE NAME
BASIC MAPPING SUPPORT FAST PATH FIELDS.				
(108)	CHARACTER	8	TCABMMSN	SUFFIXED NAME OF MOST RECENTLY LOADED BMS MAPSET
(110)	ADDRESS	4	TCABMMSA	ADDRESS OF MOST RECENT BMS MAPSET
(114)	CHARACTER	1	TCABMMW	WIDTH OF MOST RECENT BMS MAP
(115)	CHARACTER	1	TCABMMH	HEIGHT OF MOST RECENT BMS MAP
(116)	CHARACTER	1	TCABMMC	COLUMN POSITION MOST RECENT BMS MAP
(117)	CHARACTER	1	TCABMML	LINE POSITION MOST RECENT BMS MAP
LU6.2 INFORMATION				
(118)	ADDRESS	4	TCAALUCX	ADDRESS OF LU6.2 EXTENSION
(11C)	ADDRESS	4	*	Reserved
(120)	CHARACTER	4	*	Reserved
(124)	FULLWORD	4	TCATMLRP	TMP read lock list addr.
(128)	ADDRESS	4	*	Reserved
(12C)	ADDRESS	4	*	Reserved
(130)	ADDRESS	4	TCALTFRE	LIFO POP ROUTINE ADDRESS = CSALFXAC SEE...TCALTGET ABOVE.
(134)	CHARACTER	4	TCaicREQ	REQID from an IC START
TASK CONTROL - TABLE MANAGER INTERFACE				
(138)	BITSTRING	1	TCAALFLG	Flag byte used by DFHALP
	1... ..		TCAALRES	A RESUME is required
	.111 1111		*	Reserved
(139)	CHARACTER	3	*	Reserved
(13C)	ADDRESS	4	TCADOMPM	USED as plist addr
(140)	CHARACTER	8	*	Reserved
(148)	FULLWORD	4	*(4)	Reserved
(158)	CHARACTER	8	TCATRIDQ	TRACE ID QUALIFIER
(160)	ADDRESS	4	*	Reserved
(164)	FULLWORD	4	*	Reserved
(168)	CHARACTER	28	*	Reserved
(184)	ADDRESS	4	*	Reserved
TRANSIENT DATA				
CONTROL BLOCK NAME = DFHTC2TD				
DESCRIPTIVE NAME = CICS DFHTD system overlay of the DFHTCA				
TRANSIENT DATA - NEW 1.7 FIELDS				
(188)	CHARACTER	4	TCADSTID	TRANSIENT DATA DESTID
(18C)	CHARACTER	1	TCATDFLG	TRANSIENT DATA FLAGS
(18D)	CHARACTER	1	*(3)	RESERVED
SPECIAL FEATURES				
(190)	ADDRESS	4	TCAPSDBA	BASE POINTER FOR TASK PDB CHAIN FOR MVS *
(190)	ADDRESS	4	TCAPSS	BASE POINTER FOR TASK PSS CHAIN FOR DOS *
(190)	ADDRESS	4	TCAPSTBA	BASE POINTER FOR TASK PST CHAIN FOR DOS *
(194)	CHARACTER	4	*	Reserved
(198)	CHARACTER	10	*	Reserved

Offset Hex	Type	Len	Name (Dim)	Description
Transaction Routing parameters (DFHAPRT->DFHZIS2) & ATI routing for PF starts				
(1A2)	BITSTRING	1	TCAAPRTF	Transaction Routing parameter flags
	1... ..		TCAPRIP	Priority is to be passed to the AOR
	.1.. ..		TCASYSNP	Applid present
	..1. ....		TCARTST	Routable start
	...1 ....		TCATRMNP	Terminal netname present
	.... 1111		*	Reserved
(1A3)	UNSIGNED	1	TCATRPRI	Priority value to pass to AOR
(1A4)	ADDRESS	4	TCADSBA	DBCTL SCHEDULING BLOCK ADDRESS *
(1A8)	CHARACTER	4	TCADLUIB	USER INTERFACE BLOCK (UIB) *
(1A8)	ADDRESS	4	TCADLIBA	UIB ADDRESS
(1AC)	ADDRESS	4	TCAAPRET	return address for DETACH
(1B0)	CHARACTER	8	TCAPLAN	DB2 plan in use if any
(1B8)	CHARACTER	8	TCATRMNE	Terminal netname
(1C0)	CHARACTER	8	*	Reserved
(1C8)	CHARACTER	4	TCASUTOK	suspend/resume token for general AP use
(1CC)	ADDRESS	4	TCAEIUSA	A(EIUS). The user part of the EXEC CICS interface structure
(1D0)	CHARACTER	8	TCASYSNE	Applid of owning Terminal
CPI-C				
(1D8)	ADDRESS	4	TCACPCCN	base pointer for CPC chain
(1DC)	ADDRESS	4	TCATRU24	Head of TRUE save area
(1E0)	CHARACTER	4	*	Reserved
(1E4)	CHARACTER	4	*	Reserved
FIELDS FOR USE BY DFHSRP (24 BYTES)				
(1E8)	CHARACTER	24	TCASRDAT	Fields for SRP use only
(1E8)	CHARACTER	8	TCASRPGM	Name of abended program
(1F0)	CHARACTER	8	TCASRPCD	Kernel error code xxx/yyyy
(1F0)	CHARACTER	3	TCASYABD	xxx
(1F3)	CHARACTER	1	*	/
(1F4)	CHARACTER	4	TCATRABD	yyyy
(1F8)	FULLWORD	4	TCASROFF	Offset of abend in program
(1F8)	ADDRESS	4	TCAKEDAD	-> Kernel error data copy
(1FC)	BITSTRING	1	TCASRFLG	SRP flag byte
	1... ..		TCASRDMP	System dump required
	.1.. ..		TCAEMSIC	EMS deliberate prog check
	..1. ....		TCACELCK	LIP deliberate prog check
	...1 ....		TCASRPLI	PCP deliberate prog check
	.... 1...		TCASRAP	AP0001 abend issued by DFHSRP
	.... .1..		TCACHKAD	EDF DELIBERATE ABEND
	.... ..11		*	RESERVED SRP FLAGS
(1FD)	UNSIGNED	1	TCASRLOC	Abend in application?
(1FE)	BITSTRING	2	TCASREXC	EXC trace point id
FIELDS FOR THE REMOTE SYSTEM AND TRANSACTION NAMES				
(200)	CHARACTER	4	TCARMTRA	Remote Transaction name
(204)	CHARACTER	4	TCARMSYS	Remote System name
END OF SYSTEM AREA				
(208)	CHARACTER		TCAEND	T C A STORAGE AREA DISPLACEMENT

## TCPRA Receive any control element

```

BI-LINGUAL Control Block
=====

MODULE NAME = DFHTCPRA

DESCRIPTIVE NAME = CICS Receive Any Control Element

FUNCTION =
Receive Any Control Elements (RACE) are obtained at initialisation
time by DFHZRPL.
Each element is a control block used when processing a
Receive Any RPL. The RACE contains the ECB and a pointer to the
RPL. RACEs are contained in a pool pointed to by the TCTVRVRA field
of the terminal control table prefix.

=====
Receive Any Pool
=====
  
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	32	DFHTCPRA	
(0)	CHARACTER	4	TCTVRAPS	Receive Any Pool start
(0)	UNSIGNED	1	TCTVRAB	Receive Any control byte
	1... ..		TCTVRRS	Receive Specific required
	.1. ....		TCTVRQP	Purge receive queue
	..1. ....		TCTVRAG	TIOA GETMAIN required
	...1 ....		TCTVLRP	Last RPL in pool flag
	.... 1...		TCTVRAI	RAIA GETMAIN required
	.... .1..		TCTVROL	Overlength data GETMAIN reqd.
	.... ..1.		TCTVRGM	RPL GETMAIN required
	.... ...1		TCTVRAA	Receive Any not active
(1)	UNSIGNED	1	TCTVRAB2	Receive Any control byte 2
	1... ..		TCTVWBC	Waiting for BID completion
	.1. ....		TCTVCMR	Command response outstanding
	..1. ....		TCTVRSN	Data from RECEIVE SPECIFIC NQ
	...1 ....		TCTVSRA	Stop issuing RECEIVE ANY
	.... 1...		TCTVIAP	Invalid TCTTE address passed
	.... .1..		TCTVSAS	Send asyn req outstanding
	.... ..1.		TCTVEXC	*exc* trace already writn
	.... ...1		TCTVCFO	CLSDST force issued @PQ19528A
(2)	HALFWORD	2	TCTVRAGN	Number of bytes for GETMAIN
(4)	ADDRESS	4	TCTVRAL	Receive Any RPL address
(8)	UNSIGNED	4	TCTVRAEB	Receive Any ECB @P4C
	1... ..		TCTVRAEB_WAITING	ECB in waiting state @P4A
	.1. ....		TCTVRAEB_POSTED	ECB in posted state @P4A
(8)	BITSTRING	3	*	@02C
(C)	ADDRESS	4	TCTVRAF1	Reserved @02A
(10)	ADDRESS	4	TCTVRAF2	Reserved @02A
(14)	ADDRESS	4	TCTVRAF3	Reserved @02A
(18)	CHARACTER	8	TCTVRATI	TOD at time send issued

## TCRWE Remote install work element

```

CONTROL BLOCK NAME = DFHTCRWE
DESCRIPTIVE NAME = CICS/ESA Remote Install Work Element
FUNCTION = Store remote install/remote delete data for use by
           module DFHZATS. The DSECT is used exclusively by
           DFHZTSP DFHCRS and DFHZATS.
The WE contains:
FIELD LENGTH
=====
Request type 1 byte
ECB 1 byte
Reserved 2 bytes
Terminal ID 4 bytes
Remote system ID 4 bytes
TCSE address 4 bytes
Netname 8 bytes
Pointer to BPS 4 bytes
New TCTTE address 4 bytes
Token 8 bytes
LIFETIME = Storage is obtained by a GETMAIN issued by the calling
           module (DFHZTSP or DFHCRS) and released by a FREEMAIN
           following completion or failure of the remote install or
           remote delete. In the event of the calling program
           ABENDING before completion of the remote install or
           delete storage is released by DFHZATS.
STORAGE CLASS = Shared
LOCATION = The address is placed in TCAFCAAA for retrieval by
          DFHZATS
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = NONE
MODULE TYPE = DSECT
PLS DECLARATION OF THE REMOTE WORK ELEMENT

```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	56	TCTRWE	
(0)	CHARACTER	1	RWETYPE	Request type
(1)	CHARACTER	1	RWEECB	ECB
	1... ..		RWEIHA	Initiating program has ABENDED
	.1. ....		RWEPOST	TCTTE built OK
	..1. ....		RWESHA	Remote install prog. ABENDED
	...1 ....		RWEDUP	Duplicate TCTTE found
	.... 1...		*	Reserved
	.... .1..		RWETOK	TCTTE has a token
	.... ..1.		RWEBITM	RT bit map used
	.... ...1		*	Reserved
(2)	BITSTRING	1	RWE_FLAG	Input flags
	1... ..		RWERSE	Remote system entry
	.1.. ....		RWESTERM	Shipped terminal definition@L3M
	..1. ....		RWE_VT	Virtual Terminal
(3)	CHARACTER	1	RWEPAD	Reserved
(4)	CHARACTER	52	RWEVAR	
(4)	CHARACTER	4	RWETERM	Terminal ID
(8)	CHARACTER	4	RWESID	Remote system ID
(C)	ADDRESS	4	RWESADDR	TCSE address
(10)	CHARACTER	8	RWENETN	Netname
(18)	ADDRESS	4	RWEBPS	Address of BPS
(1C)	ADDRESS	4	RWETCTAD	New TCTTE address
(20)	CHARACTER	8	RWETOKEN	Token
(28)	CHARACTER	8	RWECORID	Correlation Id of terminal
(30)	CHARACTER	8	RWENETOR	TOR Netname



## Constants

Len	Type	Value	Name	Description
1	HEX	08	RWEINST	Install requested
1	HEX	04	RWEDEL	Remote delete request
1	HEX	02	RWEMDEL	Mass delete request
1	HEX	01	RWEFDEL	Mass flag request

## TCTFX Terminal control table prefix

CONTROL BLOCK NAME = DFHTCTFS  
 DESCRIPTIVE NAME = CICS TERMINAL CONTROL TABLE PREFIX  
 FUNCTION = The TCT Prefix is the anchor block for Terminal Control. It is used by most TC and ZC modules.

NOTES :

DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
 DATA AREAS =  
 CONTROL BLOCKS =  
 GLOBAL VARIABLES (Macro pass) =

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	904	DFHTCTFX	TCT Prefix
Addresses of key areas				
(0)	ADDRESS	4	TCTVWLA	Address of the wait list
(4)	ADDRESS	4	TCTVWLA1	First non-VTAM wait list entry
(8)	ADDRESS	4	TCTVCSAA	Pointer to CSA address
(C)	ADDRESS	4	TCTVCSAD	CSA address saved by SIF1
(10)	ADDRESS	4	TCTVADCB	A(non VTAM OPN/CLS list)
(14)	ADDRESS	4	TCTVTIHA	Address of term id hash list
(18)	ADDRESS	4	TCTVTATA	Address of term id addr table
(1C)	ADDRESS	4	TCTVTEBA	Address of first TCTTE
(20)	FULLWORD	4	TCTVDRSA	Dispatcher base reg. save
(24)	ADDRESS	4	TCTVDMTE	Address of dummy terminal
(28)	ADDRESS	4	TCTVRSAA	Address of reg. save stack
(2C)	FULLWORD	4	TCTVCNTE	Current NACP term entry addr.
(30)	CHARACTER	8	TCTVLVLR	CICS functions required
(38)	ADDRESS	4	TCTVMODL	Address of module list
(3C)	ADDRESS	4	TCTVSEBA	Address of first System Entry
(40)	CHARACTER	4	TCTVZQTI	Resource name for BPS trace
(44)	ADDRESS	4	TCTVATTB	Address of attach tables
(48)	CHARACTER	4	TCTVLVL	ASM time release level
(4C)	CHARACTER	8	TCTVLVLI	ASM time functions support
(54)	CHARACTER	8	TCTVLVLM	CICS functions supported
(5C)	CHARACTER	8	TCTVLVLB	RUN-TIME function support
(5C)	BITSTRING	1	TCTVLVL0	Function support byte 0
(5D)	BITSTRING	1	TCTVLVL1	Function support byte 1
			*	80
			*	40
			*	20
			*	10
			TCTVUSFD	08 ACB USERFLD supported
			*	04
			*	02
			TCTVLUNS	01 Resource ID vector
(5E)	BITSTRING	1	TCTVLVL2	Function support byte 2
			*	80
			*	40
			*	20
			TCTVXRFS	10 VTAM API is XRF capable
			TCTVCLSS	08 CLSDST sense codes supptd
			TCTVSSON	04 Sending SONCODE supported
			TCTVSLHO	02 SETLOGON HOLD supported
			*	01
(5F)	BITSTRING	1	TCTVLVL3	Function support byte 3
			TCTV31BA	80 31-bit addr support
			TCTVQRN	40 Queued response NOTFN
			*	20
			TCTVUVAR	10 INQUIRE USERVAR supp.
			*	08
			*	04
			*	02
			*	01
(60)	BITSTRING	1	TCTVLVL4	Function support byte 4

Offset Hex	Type	Len	Name (Dim)	Description
	1... ..		*	80
	.1.. ..		TCTVPLUS	40 Per. Sess. terminals supported
	..1. ....		*	20
	...1 ....		*	10
	.... 1...		TCTVPLUT	08 Per. Sess. APPC, LU61 & terminals supported
	.... .1..		*	04
	.... ..1.		*	02
	.... ...1		*	01
(61)	BITSTRING	1	TCTVLVL5	Function support byte 5
	1... ..		*	80
	.1.. ..		*	40
	..1. ....		*	20
	...1 ....		*	10
	.... 1...		*	08
	.... .1..		*	04
	.... ..1.		*	02
	.... ...1		*	01
(62)	BITSTRING	1	TCTVLVL6	Function support byte 6
	1... ..		*	80
	.1.. ..		*	40
	..1. ....		*	20
	...1 ....		*	10
	.... 1...		*	08
	.... .1..		*	04
	.... ..1.		*	02
	.... ...1		*	01
(63)	BITSTRING	1	TCTVLVL7	Function support byte 7
	1... ..		*	80
	.1.. ..		*	40
	..1. ....		*	20
	...1 ....		*	10
	.... 1...		*	08
	.... .1..		*	04
	.... ..1.		*	02
	.... ...1		*	01
(64)	BITSTRING	1	TCTVPNTK	Print key value
(65)	BITSTRING	1	TCTVEODI	BSAM End of Device Ind
(66)	UNSIGNED	2	TCTVSKLN	Number of remote terminals
(68)	ADDRESS	4	TCTVSKAD	Address of 'REMOTE' index
(68)	ADDRESS	4	TCTVPOOL	'Til TCRP. then anchor for chain of PIPELINE POOLS
(6C)	ADDRESS	4	TCTVMDAD	Address of model terminal entries
(70)	ADDRESS	4	TCTVMDND	End of model entries
(74)	ADDRESS	4	TCTVDSPA	Address of ZDSP DSSR plist
(78)	ADDRESS	4	TCTVSUT	Suspend token for DFHZNAC
(7C)	ADDRESS	4	TCTVVPLS	Saved VTAM parm list addr
(80)	ADDRESS	4	TCTV_APPC_BITMAP	APPC Session BITMAP ptr
(84)	ADDRESS	4	TCTV_MRO_BITMAP	MRO session name BITMAP
(88)	ADDRESS	4	TCTVADEF	Address of AUTODEF 'extension'
(8C)	HALFWORD	2	TCTVTCNT	Task count for ZRAC
(8E)	HALFWORD	2	TCTVNQCT	ENQ count for TCTI NAMESPACE
(90)	HALFWORD	2	TCTVNPRC	'no primed' RPLs' count
This area (from TCTV_TRACE to TCTV_TRACE_LEN) is traced in some ZC level 1 trace formats				
(92)	CHARACTER	14	TCTV_TRACE	TCT prefix trace area
(92)	BITSTRING	1	*	HPO & shutdown flags
	1... ..		TCTVHPOA	80 HPO active in system
	.1.. ..		TCTVSLS	40 DFHZSLS entered
	..1. ....		TCTV_RA_STALL	20 All RAs stuck
	...1 ....		TCTVSLR	10 Shutdown LR CNOS in prog
	.... 1...		TCTVSHM	08 Shutdown message issued
	.... .1..		TCTVSLG	04 SETLOGON quiesce issued
	.... ..1.		TCTVSHU	02 DFHZSHU control flag
	.... ...1		TCTVNATF	01 No attaches this dispatch
(93)	BITSTRING	1	TCTVSDST	Shutdown stage Shutdown Quiesce codes ... Move in stages from one to another as stage complete X'00' No shutdown, Etc...
(94)	BITSTRING	1	TCTVSCSW	Start up & close down switch
	1... ..		TCTVDC	80 TPEND exit invoked
	.1.. ..		TCTVDO	40 DYNAMIC OPEN invoked
	..1. ....		TCTVVSG	20 VTAM TCTTEs generated
	...1 ....		TCTVOA	10 ACB open
	.... 1...		TCTVVFQ	08 VTAM is quiesced
	.... .1..		TCTVVTHA	04 VTAM ABENDED
	.... ..1.		TCTVVTHQ	02 Quick VTAM close
	.... ...1		TCTVVTHO	01 Orderly VTAM close
TCTVVTQS EQU TCTVVTHO+TCTVVTHQ+TCTVVTHA VTAM quiescing.				
(95)	BITSTRING	1	TCTVRESP	SYS +resp level used byte
	1... ..		TCTVFC	80 FORCECLOSE requested
	.1.. ..		TCTVAF	40 ACB close failed
	..1. ....		TCTVCIQ	20 CICS INIT'D ZC CLOSE
	...1 ....		*	10
	.... 1...		TCTVFME	08 Use FME outbound
	.... .1..		TCTVRRN	04 Use RRRN outbound
	.... ..1.		TCTVISC	02 ISC modules loaded
	.... ...1		TCTVBFQ	01 Non VTAM quiesce

Offset Hex	Type	Len	Name (Dim)	Description
(96)	BITSTRING	1	TCTVSQUE	System service queue controls
	1... ..		TCTVNAC	80 NACP already scheduled
	.1.. ..		*	40
	..1. ....		TCTVVAP	20 VTAM authorised path
	...1 ....		TCTVVRZ	10 RPL for ZDSP from ZHPRX
	.... 1...		TCTVXNP	08 New work for NACP
	.... .1..		TCTVNSU	04 DFHZNAC suspended
	.... ..1.		TCTVNOP	02 OPDLIM NOT REQ.
	.... ...1		*	01
(97)	BITSTRING	1	TCTVAPPL	Length of APPLID
(98)	CHARACTER	8	TCTVAPPN	VTAM APPLID
TCTV_TRACE_LEN End of prefix trace area				
(A0)	ADDRESS	4	TCTVLUN	Address of VTAM LU name
(A4)	ADDRESS	4	TCTVIRCH	Address of first IRC TCSE
(A4)	ADDRESS	4	TCTV_MRO_HEAD	Alternative name for TCTVIRCH
(A8)	ADDRESS	4	TCTVSLUT	Address of LDC lookup-table
(AC)	CHARACTER	3	TCTVNQTI	TASKID with TCTI NAMESPACE lock
(AF)	BITSTRING	1	*	XRF bit
	1... ..		TCTVXBC	80 DFHTCBP completed
	.1.. ..		TCTVXRT	40 CEMT P SHUT TAKEOVER
	..1. ....		TCTVXTS	20 Terminal sw scan begun
	...1 ....		*	10
	.... 1...		*	08
	.... .1..		*	04
	.... ..1.		*	02
	.... ...1		*	01
(B0)	HALFWORD	2	TCTVXSBC	No. STANDBY BOUND sessions
(B2)	CHARACTER	2	TCTVCUID	Current/last XRF catch up ID.
(B4)	ADDRESS	4	TCTVMGRP	Address of first mode entry
3270 command constant area				
(B8)	CHARACTER		*	Alignment
(B8)	BITSTRING	1	TCTV32EA	Erase unprotected '6F'
(B9)	BITSTRING	1	TCTV32RB	Read buffer 'F2'
(BA)	BITSTRING	2	TCTV32PT	Print 'F1F8'
(BC)	BITSTRING	2	TCTV32P4	Print model one 'F1D8'
(BE)	HALFWORD	2	TCTVSLCT	LDC look-up count
(C0)	ADDRESS	4	TCTVTRTA	Address of translate tables
OS Console Support area				
(C4)	ADDRESS	4	TCTVSECB	System communication ECB
(C8)	ADDRESS	4	TCTVCSCCL	Cmdnd scheduler commun. list
(CC)	ADDRESS	4	TCTVWLSE	Wait list entry
(D0)	ADDRESS	4	TCTVCCE	First Console Control Element
(D4)	ADDRESS	4	TCTVTCT	First Console TCTTE
(D8)	ADDRESS	4	TCTVCDME	Dummy ECB
(DC)	ADDRESS	4	TCTVCWA	Console Work Area
(E0)	CHARACTER	8	TCTVJBNM	CICS system jobname
OS Console flags				
(E8)	BITSTRING	1	TCTVCONF	Console flag byte
	1... ..		*	80
	.1.. ..		*	40
	..1. ....		TCTV_CCE_TASK	20 ZCNA task loop reqd.
	...1 ....		TCTV_CCE_ATI	10 ZCNA ATI loop reqd.
	.... 1...		TCTVCFQ	08 Quiesce is COMPLETE
	.... .1..		TCTVCSQ	04 Quiesce IN PROGRESS
	.... ..1.		TCTVCNE	02 DFHZCNC is ACTIVE
	.... ...1		TCTVCAC	01 Console abnormal condition
(E9)	CHARACTER	3	*	Reserved
END OF COMMON SECTION				
2 PTR(31), @05C DELETED BY				
(EC)	FULLWORD	4	TCTVSDXT	TC Shutdown, Threshold Expiration Time
(F0)	ADDRESS	4	TCTVRVRA	Addr of 'RVCE ANY' RPL pool
(F4)	ADDRESS	4	TCTVLNIB	Address of NIB list (INC IRC)
(F8)	ADDRESS	4	TCTVCNIB	Fixed NIB for LOGON X
(FC)	ADDRESS	4	TCTVACBA	Address of VTAM ACB/EXLST
(100)	ADDRESS	4	TCTVCRPL	CLSDST RPL for LOGON X
(104)	ADDRESS	4	TCTVSLDC	System default LDC table
(108)	ADDRESS	4	TCTVSLSS	SETLOGON START save area
(108)	ADDRESS	4	TCTVASRR	Save area for ACTIVATE SCAN
(10C)	ADDRESS	4	TCTVTCTE	End of TCT
Chain pointers for TCP				
(110)	CHARACTER		*	Double word alignment VTAM Activate process chain
(110)	FULLWORD	4	TCTVAA1	First entry
(114)	FULLWORD	4	TCTVAA2	Last entry VTAM Activate queueing chain
(118)	FULLWORD	4	TCTVAA3	First entry
(11C)	FULLWORD	4	TCTVAA4	Last entry LOGGING/ERROR queue chains
(120)	ADDRESS	4	TCTV_LU61_HEAD	LU61 system chain
(124)	ADDRESS	4	TCTV_REMDEL_HEAD	RemDel system chain

#  
 #  
 added TCTCATWE

Offset Hex	Type	Len	Name (Dim)	Description
# (128)	ADDRESS	4	TCTCATWE	Console autoinst WE
(12C)	FULLWORD	4	*	Reserved
(130)	FULLWORD	4	TCTVSRQ	System error Q for NACP First on queue
(134)	FULLWORD	4	TCTVSRQE	System error queue for NACP Last on queue
(138)	FULLWORD	4	TCTVPOAC	Previous TCTTE on Act. chain
(13C)	FULLWORD	4	TCTVRPLA	RPL QUICK-CELL chain anchor First on free queue
(140)	UNSIGNED	1	TCTV_ZBLX_ ERR_OFFSET	error offset in SCIP
(141)	CHARACTER	7	*	Reserved
VTAM control area pointers				
(148)	ADDRESS	4	TCTVMNIB	Address of model NIBS
(14C)	ADDRESS	4	TCTVRPL2	Address of RPL for VTAM 3270
(150)	ADDRESS	4	TCTVRPLS	Address of RPL for RESETSR
(154)	ADDRESS	4	TCTVXQOA	Anchor for XRF TRACKINQ Q'S
(158)	HALFWORD	2	TCTVRPLN	RPL length
(15A)	HALFWORD	2	TCTVDOC	Dynamic open count
Process control switches 2 CHAR(2), DELETED BY				
(15C)	UNSIGNED	1	TCTVSDWT	TC Shutdown Wait from SIT TCSWAIT
(15D)	BITSTRING	1	*	TC Shutdown Flag Byte
	1... ..		TCTVSDUB	80 Action from SIT TCSACTN On = UNBIND Off = NONE or FORCE
	.1.. ..		TCTVSDTFO	40 Action from SIT TCSACTN On = FORCE Off = NONE or UNBIND
	..1. ....		TCTVSDTX	20 Threshold Expired On = TC Shutdown end time expired (sessions hung) Off = TC Shutdown end time not expire
	...1 ....		TCTVSDTD	10 Threshold Disabled On = TC Shutdown threshold disabled (no msgs produced) Off = TC Shutdown threshold enabled (msgs produced)
	.... 1...		TCTVSDTD6	08 Threshold Disabled for LU62 and LU61 On = TC Shutdown threshold disabled (no msgs produced) Off = TC Shutdown threshold enabled (msgs produced)
	.... .1..		TCTVSDTI	04 Treshold Initiated On = TS Shutdown initiated and end time calculated Off = TC Shutdown not initiated, and no end time
	.... ..1.		TCTVRAPLF	02 On = RAPOOL FORCE
	.... ...1		TCTV_RA_ 2118_ISSUED	01 On if RA STALL
(15E)	HALFWORD	2	TCTVRMAX	'RCVE ANY' max size
(160)	HALFWORD	2	TCTVRMIN	'RCVE ANY' min size
(162)	CHARACTER	2	TCTVRASW	'RCVE ANY' stat work area PL2
(164)	CHARACTER	2	TCTVRAHC	'RCVE ANY' high water mark PL2
(166)	CHARACTER	2	TCTVOCC	OPNDST/CLSDST reqt limit PL2
(168)	CHARACTER	4	TCTVRANT	No. times high water hit PL4
(16C)	FULLWORD	4	TCTVAPCC	Act. process chain DOS CCB
(16C)	FULLWORD	4	TCTVAPCE	VTAM Act. process chain ECB
(170)	CHARACTER	128	TCTVXRPL	RPL initialising mask area
VIO trace				
(1F0)	UNSIGNED	1	TCTVIOBL	Max L2 VIO bufflist entries
(1F1)	UNSIGNED	1	TCTVIOL1	Max lev 1 VIO data length
(1F2)	HALFWORD	2	TCTVIOL2	Max lev 2 VIO data length
ECB to prevent ZGRP running before ZSLS during startup				
(1F4)	UNSIGNED	4	TCTV_ZSLS_ECB	Make ZGRP run after ZSLS
Addresses for SRB exits				
(1F8)	FULLWORD	4	TCTVZHPR	Lock field for ZHPRX
SRB mode 'RCVE ANY' counts				
(1FC)	CHARACTER	2	TCTVRAVC	Current active RA RPL count
(1FE)	CHARACTER	2	TCTVRAVL	Limit of active SRB mode RA
TCTVRARP is the anchor address for a chain of RPLs.				
(200)	FULLWORD	4	TCTVRARP	'RCVE ANY' RPL Q for ZHPRX
(204)	FULLWORD	4	TCTVRINC	'RCVE ANY' RPL CDS counter
AUTOINSTALL data				
(208)	FULLWORD	4	TCTVMXWE	Limit of concurrent requests
(20C)	FULLWORD	4	TCTVACWE	Number currently active
(210)	ADDRESS	4	TCTVANWE	Address of first WE ON chain
(214)	BITSTRING	1	TCTVADFG	Flag Byte
	1... ..		TCTVADEN	80 external ENA DIS indicator
	.1.. ..		TCTVADIN	40 internal ENA DIS indicator
	..1. ....		TCTVADDF	20 delayed delete failed
	...1 ....		TCTVNONO	10 CLSDST PASS no notify
	.... 1...		TCTVAIRU	08 TCTTE can be reused (AILDELAY == 0)
	.... .1..		TCTVSLHI	04 SETLOGON HOLD done
	.... ..1.		TCTVAITR	02 Trace Autoinstall
(215)	CHARACTER	8	TCTVAXIT	User program name
(21D)	BITSTRING	1	TCTVAICN	Console autoinstall
	1... ..		TCTVAICE	80 external ENA DIS
	.1.. ..		TCTVAICA	40 external AUTO
	..1. ....		TCTVAICY	20 external YES NO
AUTOINSTALL Statistics information				
(21E)	HALFWORD	2	TCTVADSH	Number of times max value reached
(220)	FULLWORD	4	TCTVADRJ	Number of requests rejected
(224)	FULLWORD	4	TCTVADLO	Number of delete's

Offset Hex	Type	Len	Name (Dim)	Description
(228)	HALFWORD	2	TCTVADAT	Total number of requests attempted
(22A)	HALFWORD	2	TCTVADPK	Peak concurrent requests
(22C)	HALFWORD	2	TCTVADPX	Incidence of peak requests
Fully Qualified LU Name				
(22E)	BITSTRING	1	TCTVQLUL	Length of fully qualified LU name
(22F)	CHARACTER	17	TCTVQLUN	Fully qualified LU name
RSA for entry to TCP				
(240)	CHARACTER	72	TCTVKRSA	Reg save area KCP to TCP
RSA for VTAM exit calls				
(288)	FULLWORD	4	TCTVEVRA	Save area VTAM return address
(28C)	CHARACTER	12	TCTVERSA	RSA for VTAM exits
(298)	FULLWORD	4	TCTVER14	Register 14
(29C)	FULLWORD	4	TCTVER15	Register 15
(2A0)	FULLWORD	4	TCTVER0	Register 0
(2A4)	FULLWORD	4	TCTVER1	Register 1
(2A8)	FULLWORD	4	TCTVER2	Register 2
(2AC)	FULLWORD	4	TCTVER3	Register 3
(2B0)	FULLWORD	4	TCTVER4	Register 4
(2B4)	FULLWORD	4	TCTVER5	Register 5
(2B8)	FULLWORD	4	TCTVER6	Register 6
(2BC)	FULLWORD	4	TCTVER7	Register 7
(2C0)	FULLWORD	4	TCTVER8	Register 8
(2C4)	FULLWORD	4	TCTVER9	Register 9
(2C8)	FULLWORD	4	TCTVER10	Register 10
(2CC)	FULLWORD	4	TCTVER11	Register 11
(2D0)	FULLWORD	4	TCTVER12	Register 12
(2D4)	CHARACTER	8	TCTVWK1	
(2DC)	CHARACTER	80	TCTVERS2	RSA for SYNAD exit
(2DC)	CHARACTER	12	TCTVER2H	RSA for SYNAD exit
(2E8)	FULLWORD	4	TCTVER2E	Register 14
(2EC)	FULLWORD	4	TCTVER2F	Register 15
(2F0)	FULLWORD	4	TCTVER20	Register 0
(2F4)	FULLWORD	4	TCTVER21	Register 1
(2F8)	FULLWORD	4	TCTVER22	Register 2
(2FC)	FULLWORD	4	TCTVER23	Register 3
(300)	FULLWORD	4	TCTVER24	Register 4
(304)	FULLWORD	4	TCTVER25	Register 5
(308)	FULLWORD	4	TCTVER26	Register 6
(30C)	FULLWORD	4	TCTVER27	Register 7
(310)	FULLWORD	4	TCTVER28	Register 8
(314)	FULLWORD	4	TCTVER29	Register 9
(318)	FULLWORD	4	TCTVER2A	Register 10
(31C)	FULLWORD	4	TCTVER2B	Register 11
(320)	FULLWORD	4	TCTVER2C	Register 12
(324)	CHARACTER	1	TCTVERS2_FLAG	Flag byte for RSA
			1111 111.	Reserved
			.... ...1	TCTVERS2_IN_USE
(325)	CHARACTER	7	*	This RSA is in use. Reserved
RSA stack for TCP calls				
(32C)	ADDRESS	4	TCTVRSAP	RSA pointer initial value
(330)	CHARACTER		*	Word alignment
(330)	HALFWORD	2	TCTVVMOF	Offset of self in assembly
(332)	HALFWORD	2	TCTVSUFx	TCT suffix
(334)	CHARACTER	4	*	Double word alignment
(338)	FULLWORD	4	TCTVRSPC	TCP call save stack start
(338)	FULLWORD	4	TCTVRSBA	Start address for RSA stack
(338)	FULLWORD	4	TCTVRSID	Optional stack entry trace ID
(33C)	FULLWORD	4	TCTVRSRG	Start of stack of saved regs.
(33C)	FULLWORD	4	TCTVRS14	Register 14
(340)	FULLWORD	4	TCTVRS15	Register 15
(344)	FULLWORD	4	TCTVRS0	Register 0
(348)	FULLWORD	4	TCTVRS1	Register 1
(34C)	FULLWORD	4	TCTVRS2	Register 2
(350)	FULLWORD	4	TCTVRS3	Register 3
(354)	FULLWORD	4	TCTVRS4	Register 4
(358)	FULLWORD	4	TCTVRS5	Register 5
(35C)	FULLWORD	4	TCTVRS6	Register 6
(360)	FULLWORD	4	TCTVRS7	Register 7
(364)	FULLWORD	4	TCTVRS8	Register 8
(368)	FULLWORD	4	TCTVRS9	Register 9
(36C)	FULLWORD	4	TCTVRS10	Register 10
(370)	CHARACTER	24	*	Reserved space for RSA
(388)	CHARACTER		TCTVRSEA	RSA stack entry ending address

TCTVRSAZ EQU (TCTVRSEA-TCTVRSBA) size of one save area = 80

Offset Hex	Type	Len	Name (Dim)	Description	
(338)	STRUCTURE	768	*		
(338)	CHARACTER	320	*	4 save areas for TCP calls	
TC task ECBS					
(478)	ADDRESS	4	TCTVINI	TC initialisation TCA Address ( posted by TCRP )	
(47C)	ADDRESS	4	TCTVSTAT		
(47C)	ADDRESS	4	TCTVCECB	TC restart completion ECB	
(480)	ADDRESS	4	TCTVOECB	TC open for business ECB	
(480)	BITSTRING	1	*		
	1... ..		*		
	.1. ....		TCTVOPST	TC open for business post bit *	
(484)	BITSTRING	1	TCTVRSTC	TC restart return code	
(485)	CHARACTER	1	TCTVSTYP	TC restart start-type	
(486)	HALFWORD	2	TCTVXREN	Current XRF reconn. try-number	
(488)	UNSIGNED	1	TCTVSAPL	APPLID length	
(489)	CHARACTER	8	TCTVSAPN	VTAM APPLID	
(491)	BITSTRING	1	*		
	1... ..		TCTVLSY	80 Local system entry exists	
	.1. ....		TCTVRCC	40 Reading CICS Catalog	
	..1. ....		TCTVALT	20 TCRP was an alternate	
	...1 ....		TCTVUALC	10 TCTUA ANY BELOW	
	.... 1...		TCTVALTT	08 Alternate tracking	
	.... .1..		*		
	.... ..1.		*		
	.... ...1		TCTVUAKY	01 indicates CICS key	
(492)	HALFWORD	2	TCTVXPLC	Pending S/B logons count	
(494)	ADDRESS	4	TCTVXPLE	Pending S/B logons ECB	
XRF Terminal cleanup statistics					
(498)	HALFWORD	2	TCTVX001	CLEANUP ACTION=NONE	
(49A)	HALFWORD	2	TCTVX002	CLEANUP ACTION=CLEAR/SDT	
(49C)	HALFWORD	2	TCTVX003	CLEANUP ACTION=UNBIND	
(49E)	HALFWORD	2	TCTVX004	Reserved	
(4A0)	CHARACTER	2	TCTVXSLM	Switch CMD pacing limit(PL2)	
(4A2)	CHARACTER	2	*	Reserved - alignment	
(4A4)	ADDRESS	4	TCTVXTSE	Track stream started ECB	
ZC storage management					
(4A8)	ADDRESS	4	TCTVSUBP	Address of SUBPOOL token	
VTAM exit trace					
(4AC)	ADDRESS	4	TCTVTRF	Address of NETNAME chain	
(4B0)	ADDRESS	4	TCTVTRV	Variable S/POOL TOKEN pointer	
(4B4)	ADDRESS	4	TCTVTRXA	Trace entry build area ptr. A	
(4B8)	ADDRESS	4	TCTVTRXB	Trace entry build area ptr. B	
(4BC)	ADDRESS	4	TCTVTRXC	Trace entry build area ptr. C	
(4C0)	ADDRESS	4	TCTVTRXD	Trace entry build area ptr. D	
(4C4)	ADDRESS	4	TCTVTRXE	Trace entry build area ptr. E *	
(4C8)	FULLWORD	4	TCTVTRC	Terminal exit trace count	
(4CC)	FULLWORD	4	TCTVRLCT	OPNDLIM count	
(4D0)	BITSTRING	1	*	Exit trace flags	
	1... ..		TCTVTRA	80 - All exits traced	
	.1. ....		TCTVTRX	40 - Non term. exits traced	
	..1. ....		*	20 - reserved	
	...1 ....		*	10 - reserved	
	.... 1...		*	08 - reserved	
	.... .1..		*	04 - reserved	
	.... ..1.		*	02 - reserved	
	.... ...1		*	01 - reserved	
(4D1)	CHARACTER	3	*	Word Alignment	
Postponed autoinstall logon fields					
(4D4)	ADDRESS	4	TCTVAPWE	Postponed Autoinstall work element anchor	
(4D8)	FULLWORD	4	TCTVADQC	Postponed Autoinstall work current count	
(4DC)	FULLWORD	4	TCTVADQT	Total number of postponed logons	
(4E0)	HALFWORD	2	TCTVADQK	Peak concurrent postponed logons	
(4E2)	HALFWORD	2	TCTVADQX	Incidence of postponed peak logons	
Schedule Restart Delete fields					
(4E4)	UNSIGNED	4	TCTVAECB	Schedule restart delete ECB	
(4E8)	FULLWORD	4	TCTVASDC	Schedule restart delete count	
Early ZC SUBPOOL TOKENS for Subpools added before TCRP					
(4EC)	CHARACTER	8	TCTVTOKR	RAIA subpool token	
(4F4)	CHARACTER	8	*	Reserved	
#	Additional BITMAP				
#	<b>APAR PQ27823</b> added TCTV_APPC_BITMAP				
#	(4FC)	ADDRESS	4	TCTV_APPC_BITMAP	2nd LU62 name set
RPL completion queue anchor.					
(500)	FULLWORD	4	TCTVRPLQ	Q of RPLs for DSP from ZHPRX	
(504)	FULLWORD	4	TCTVRPLC	Q of RPLs for DSP CDS counter	

Offset Hex	Type	Len	Name (Dim)	Description
Persistent Sessions fields				
(508)	BITSTRING 1... ..	1	TCTVPRB1 TCTV_PRSS_AVAILABLE	Flags for Per. Sess. use VTAM support available for persistent sessions
	.1. ....		TCTV_PRSS_SUBSET	VTAM 3.4.0 is in use
	.1. ....		TCTV_PRSS_PRED_TAKEOVER	Predatory takeover
	...1 ....		TCTV_PRSS_PRED_VICTIM	Current takeover victim
	.... 1...		TCTV_PRSS_VTAM_ABEND	VTAM abend occurred
(509)	UNSIGNED 1... ..	1	TCTVPRB2 TCTV_ZGRP_FAILED	Byte 2 of Per. Sess flags SI11 notify SIJ1 of fail
	.1. ....		TCTV_RA_DONE	RA initiation done
(50A)	UNSIGNED	1	TCTVPRB3	Byte 3 of Per. Sess flags
(50B)	UNSIGNED	1	TCTVPRB4	Byte 4 of Per. Sess flags
Persistent sessions related fields				
(50C)	FULLWORD	4	TCTV_PRSS_CHUNK	Per. Sess. NIBLIST size
(510)	FULLWORD	4	TCTV_PRSS_INQUIRE_THRESHOLD	NIBs for CO TCB
(514)	FULLWORD	4	TCTV_PRSS_UNBIND_THRESHOLD	NIBS FOR ZGUB CO
(518)	BITSTRING	8	TCTV_ZCNIBLST_TOKEN	Subpool token - Per. Sess.@LFA
(520)	FULLWORD	4	TCTV_ZGRP_FIN_ECB	ZGRP finished
(524)	FULLWORD	4	TCTV_PSDI	PSDI value in seconds
(528)	ADDRESS	4	TCTV_PRSS_RPL_POOL_PTR	RPL Pool for Per. Sess.
(52C)	ADDRESS	4	TCTV_PRSS_UNBIND_RPLS_PTR	RPL pool within above
(530)	ADDRESS	4	TCTV_FIRST_NIBLIST_PTR	First NIBLIST in chain
(534)	ADDRESS	4	TCTV_PRSS_LNKTABLE_PTR	Per. Sessions LINK table
Persistent sessions statistics fields				
(538)	FULLWORD	4	TCTV_PRSS_NIB_COUNT	Per. Sessions NIB cnt
(53C)	FULLWORD	4	TCTV_PRSS_INQUIRE_COUNT	Per. Session INQUIREs issued.
(540)	FULLWORD	4	TCTV_PRSS_OPNDST_COUNT	Per. Sessions OPNDSTed
(544)	FULLWORD	4	TCTV_PRSS_UNBIND_COUNT	Per. Sessions unbound
(548)	FULLWORD	4	TCTV_PRSS_ERROR_COUNT	Per. Sessions clsd ext
(54C)	ADDRESS	4	TCTV_NIB_EXLST_PTR	TCTV3600 pointer
RA Stall dispatcher count				
(550)	FULLWORD	4	TCTV_RA_STALL_COUNT	TCP dsps with stall
Entry Point addresses				
(554)	ADDRESS	4	TCTV_ZGTI	DFHZGTI entry point
(558)	ADDRESS	4	TCTV_ZGTA	DFHZGTA entry point
(55C)	ADDRESS	4	TCTV_ZGCH	DFHZGCH entry point
(560)	ADDRESS	4	TCTV_ZGIN	DFHZGIN entry point
(564)	ADDRESS	4	TCTV_ZCN2	DFHZCN2 entry point
(568)	ADDRESS	4	*	DFHZGxx entry point
(56C)	ADDRESS	4	*	DFHZGxx entry point
(570)	ADDRESS	4	*	DFHZGxx entry point
ZLGX work area				
(574)	CHARACTER	8	TCTV_ZLGX_SLUNAME	SLU/member name
(57C)	ADDRESS	4	TCTV_ZLGX_TOKEN	Nibrsch token
Saved UDSS03 for ZLGX/ZSCX				
(580)	CHARACTER	8	TCTV_SAVE_GRNAME	Saved GR name
More session name bitmap addresses				
(588)	ADDRESS	4	TCTV_RT_BITMAP	Remote Terminal names
(58C)	ADDRESS	4	TCTV_VIRTTERM_BITMAP	

Offset Hex	Type	Len	Name (Dim)	Description
(590)	ADDRESS	4	TCTV_BRIDGE_BITMAP	CICS Client term names
(594)	ADDRESS	4	TCTV_CONS_BITMAP	Bridge facility names
(598)	ADDRESS	4	TCTV_ZC_ENQ_POOL_TOKEN	Console names
(59C)	CHARACTER	2	*	ZC ENQ Pool Token
(59E)	BITSTRING	1	TCTV_GRQL	Reserved
(59F)	CHARACTER	17	TCTV_GRQN	Fully qual. GR name lngth
(5B0)	CHARACTER	8	TCTV_GENRNAME	Fully qualified GR name
(5B8)	BITSTRING	1	TCTV_GRSTATUS	Generic resource name
(5B9)	CHARACTER	3	*	Generic resource status
(5BC)	ADDRESS	4	TCTV_ZGXA	Reserved
(5C0)	ADDRESS	4	TCTV_ZGPR	DFHZGXA entry point
Terminal Timeout (CESC) Static Storage Area				
(5C4)	CHARACTER	8	TCTV_CESC_TIME	Time at which CESC runs
(5CC)	UNSIGNED	1	TCTV_CESC_FUNCTION	Func code passed to CESC
(5CD)	BITSTRING	1	TCTV_CESC_FLAGS	CESC flags
	1... ....		TCTV_CESC_SCHEDULED	
	.111 1111		*	CESC is scheduled
(5CE)	UNSIGNED	2	*	Reserved
Entry point addresses for ZC domain subroutines				
(5D0)	ADDRESS	4	TCTV_ZGBM	DFHZGBM entry point
(5D4)	ADDRESS	4	TCTV_ZGRP	DFHZGRP entry point
(5D8)	ADDRESS	4	TCTV_ZGSL	DFHZGSL entry point
(5DC)	ADDRESS	4	TCTV_ZGUB	DFHZGUB entry point
(5E0)	ADDRESS	4	TCTV_ZGCC	DFHZGCC entry point
(5E4)	ADDRESS	4	TCTV_ZGPC	DFHZGPC entry point
(5E8)	ADDRESS	4	TCTV_ZGDA	DFHZGDA entry point
(5EC)	ADDRESS	4	TCTV_ZGCN	DFHZGCN entry point
(5F0)	ADDRESS	4	TCTV_ZGCA	DFHZGCA entry point
(5F4)	ADDRESS	4	TCTV_ZGAI	DFHZGAI entry point
VTAM Statistics.				
(5F8)	FULLWORD	4	TCTLUNUM	Current no of LUs
(5FC)	FULLWORD	4	TCTLUHWM	HWM no of LUs
Prefix fields for Remote delete timeout mechanism.				
(600)	FULLWORD	4	TCTV_IDLE_COUNT	Total reuse count
(604)	CHARACTER	8	TCTV_MAXIMUM_IDLETIME	Max skeleton idle time
(60C)	CHARACTER	8	TCTV_TOTAL_IDLETIME	Max total idle time
(614)	FULLWORD	4	TCTV_REMDINT	Shipped delete interval
(618)	FULLWORD	4	TCTV_REMDIDLE	Shipped delete idle time
(61C)	FULLWORD	4	TCTV_SKELETONS_BUILT	# of skeletons built
(620)	FULLWORD	4	TCTV_SKELETONS_CURRENT	# of skeletons installed@DCA
(624)	FULLWORD	4	TCTV_SKELETONS_DELETED	# deleted
(628)	FULLWORD	4	TCTV_FLAG_DELETES	# times CRMF called
(62C)	FULLWORD	4	TCTV_REMDELS_IN	Remote deletes in
(630)	FULLWORD	4	TCTV_REMDELS_OUT	Remote deletes out
(634)	FULLWORD	4	TCTV_REMDEL_DELETES	Remote deletes out
(638)	CHARACTER		TCTPFXLN	Length of TCT PREFIX



## Constants

Len	Type	Value	Name	Description
1	HEX	70	TCTVLMPE	LMPEO+BUFFLST+USERRH flags
1	HEX	00	TCTVSDNO	No shutdown in progress
1	HEX	01	TCTVSDOP	Operator terminal Quiesce
1	HEX	02	TCTVSDAI	ATI operator terminal quiesce
1	HEX	03	TCTVSDIS	Inter system quiesce
1	HEX	04	TCTVSDMT	Master terminal quiesce
1	HEX	05	TCTVSDFN	Final quiesce all terminals
1	HEX	40	TCTVECBC	ECB posted complete
1	HEX	80	TCTVCCBC	CCB posted complete
1	DECIMAL	4	TCTVRSAN	Number of save area stacks
1	HEX	40	TCTVCPST	TC restart complete post bit
1	DECIMAL	11	TCTV_RPL_NUMBER	Number of RPLs in Pers. Sessions pool CESC Function Codes...
1	DECIMAL	1	TCTV_CESC_	Terminal
			TERM_TIMEOUT	
1	DECIMAL	2	TCTV_CESC_XRF_TIMEOUT	XRF
1	DECIMAL	3	TCTV_CESC_	Enable
			ENABLE_TIMEOUT	
Generic resource status codes				
1	HEX	80	TCTV_GR_REGD	
Registered as VTAM generic resource				
1	HEX	40	TCTV_GR_REGERR	
Attempt to register failed				
1	HEX	20	TCTV_GR_NOTAVAIL	
Function not supported				
1	HEX	08	TCTV_GR_DEREGD	
Successfully deregistered from VTAM				
1	HEX	04	TCTV_GR_DEREGERR	
Attempt to deregister failed				
1	HEX	02	TCTV_GR_NOTAPPL	
Facility not required				
1	HEX	00	TCTV_GR_NOTREG	

**TCTLE Terminal control table line entry**

CONTROL BLOCK NAME = DFHTCTLS  
 DESCRIPTIVE NAME = CICS Terminal Control Table Line Entry.  
 FUNCTION = May be used by the Master Terminal module DFHEIQMT  
 instead of DFHTCTLE.  
 LIFETIME =  
 STORAGE CLASS =  
 LOCATION =  
 INNER CONTROL BLOCKS =  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
 DATA AREAS =  
 CONTROL BLOCKS =  
 GLOBAL VARIABLES (Macro pass) =

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	DFHTCTLE	
(0)	CHARACTER	4	TCTLEECB	event control block
(4)	CHARACTER	2	TCTLETOP	type of operation
(6)	UNSIGNED	2	TCTLEIOL	input / output data length
(8)	ADDRESS	4	TCTLEDCB	data control block address
(8)	ADDRESS	4	TCTLEDTF	D T F address
(C)	ADDRESS	4	TCTLEIOA	input / output area address
(10)	CHARACTER	*	*	BSAM OVERLAY
(10)	ADDRESS	4	TCTLEIOB	input/ output block address
(14)	ADDRESS	4	TCTLESID	BSAM input DCB address
(18)	ADDRESS	4	TCTLESOD	BSAM output DCB address
(10)	CHARACTER	*	*	GAM OVERLAY
(10)	CHARACTER	1	TCTLEEGC	length error or read error code
(11)	CHARACTER	1	*	*
(12)	CHARACTER	2	TCTLEGRC	residual count if length error
(14)	UNSIGNED	4	TCTLELGC	input / output data length
(18)	CHARACTER	4	*	*
(1C)	UNSIGNED	1	TCTLEDGC	index to DEB table addr ptr
(1D)	CHARACTER	1	TCTLEGLR	lock option request
(1E)	CHARACTER	2	*	*
(10)	CHARACTER	*	*	TCAM OVERLAY
(10)	CHARACTER	4	*	*
(14)	ADDRESS	4	TCTLEOQ	output TCTLE address
(18)	CHARACTER	1	TCTLEFL	TCAM flags
	1... ..		TCTLEFL1	POOL=YES specified
	.1.. ..		TCTLESNA	TCAM SNA
	..1. ....		TCTLEFL3	reserved
	...1 ....		TCTLEFL4	reserved
	.... 1...		TCTLEFL5	deact queue
(19)	CHARACTER	1	*	*
(10)	CHARACTER	*	*	BTAM OVERLAY
(10)	CHARACTER	1	TCTLESM1	remote status message byte one
(11)	CHARACTER	1	TCTLESM2	remote status message byte two
(12)	UNSIGNED	2	TCTLETRC	residual count
(14)	CHARACTER	1	TCTLECC	command code
(15)	CHARACTER	3	TCTLETLA	terminal list address
(18)	CHARACTER	1	TCTLESF	status flags
(19)	CHARACTER	1	TCTLERLN	relative line number
(1A)	CHARACTER	1	TCTLERSP	response to addressing
(1B)	CHARACTER	1	TCTLELRC	response to VRC / LRC
(1C)	CHARACTER	1	TCTLETPO	TP - OP code
(1D)	CHARACTER	1	TCTLEES	error status
(1E)	CHARACTER	2	TCTLECSW	CSW status
(20)	ADDRESS	4	TCTLEALP	current addressing list pointer
(24)	CHARACTER	3	*	reserved
(27)	CHARACTER	1	TCTLELRL	local terminal index
(28)	CHARACTER	2	*	reserved
(2A)	UNSIGNED	2	TCTLEOL	output length
(2C)	CHARACTER	4	TCTLEOA	ouput area
(30)	BITSTRING	1	TCTLESI	line status indicator
	1... ..		TCTLESEP	error pending indicator
	.1.. ....		TCTLESAK	dial line acknowledgement
	..1. ....		TCTLESPO	line perm out of service
	...1 ....		TCTLESIR	interruptable read initiated
	.... 1...		TCTLESLC	switched line connected
	.... .1..		TCTLESTR	terminal read initiated
	.... ..1.		TCTLESLI	line initiated
	.... ...1		TCTLESOS	line out of service
(31)	BITSTRING	1	TCTLEMI	multiple indicator byte
	1... ....		TCTLELPI	last line in pool indicator
	.1.. ....		TCTLEMWL	wrap list indicator

Offset Hex	Type	Len	Name (Dim)	Description
	.1. ....		TCTLETCM	access method is TCAM
	...1 ....		TCTLEMFP	first pool line indicator
	.... 1...		TCTLEMET	error task initiated indicator
	.... .1..		TCTLEATA	telecommunication access method
	.... .1..		TCTLEAGA	local line
	.... ...1		TCTLEASA	sequential access method
(32)	UNSIGNED	2	TCTLEAL	input data area length
(34)	ADDRESS	4	TCTLERA	input area address retention
(38)	CHARACTER	4	TCTLENP	number of polls issued
(3C)	UNSIGNED	4	TCTLEBC	bypass control counter
(40)	ADDRESS	4	TCTLEPLA	polling list address
(40)	BITSTRING	1	TCTLELF	line features
	1... ....		TCTLEFLO	read lock
	.1.. ....		TCTLEFWL	wrap list feature
	.1.. ....		TCTLEFSC	station control feature
	...1 ....		TCTLEFCK	checking feature
	.... 1...		TCTLEFBR	buffer receive feature
	.... .1..		TCTLEFAP	auto poll feature
	.... .1..		TCTLEFAC	auto call feature
	.... ...1		TCTLEFAA	auto answer feature
(44)	ADDRESS	4	TCTLETEA	active term table entry address
(48)	BITSTRING	1	*	
	1... ....		*	
	.1.. ....		TCTLEPUI	purging data request indicator
	.1.. ....		TCTLEDP2	term already connected purge
	...1 ....		TCTLEDP1	term out of service purge
<hr/>				
TCTLEDP1+TCTLEDP2 = TCTLEDP3 ... term in nopoll status purge				
	.... 1111		*	
(49)	BITSTRING	1	TCTLECL	Line Class
	1... ....		TCTLELS	line scan indicator
	.11. ....		*	
	...1 ....		TCTLECBS	bisynchronous
	.... 1111		*	
(4A)	CHARACTER	2	TCTLELE	number of transmission errors
(4C)	ADDRESS	4	TCTLEECA	line error chain address
(50)	UNSIGNED	1	TCTLELEC	line error count
(51)	CHARACTER	3	TCTLEPP	previous polling list pointer
(54)	ADDRESS	4	TCTLEPA	terminal pool address
(54)	ADDRESS	4	TCTLEEA	Line Entry ending address
(58)	ADDRESS	4	TCTLEETE	error terminal entry pointer
(5C)	CHARACTER	8	TCTLEBAA	bi-sync auxiliary area
(64)	CHARACTER	2	TCTLEBRA	bi-sync response I/O area
(66)	CHARACTER	1	TCTLEBTO	last bi-sync type of operation
(67)	BITSTRING	1	TCTLEBEI	bi-sync event indicators
(68)	BITSTRING	1	TCTLESBI	BSC line status
(69)	BITSTRING	1	TCTLEIBS	index byte savearea
(6A)	BITSTRING	1	TCTLERPS	rotational poll savearea
(6B)	BITSTRING	1	*	indicator byte
	11.. ....		*	
	.1.. ....		TCTLEMLU	line in use mask
	...1 1111		*	reserved
(6C)	UNSIGNED	2	TCTLESWL	3270 segment size
(6E)	CHARACTER	2	*	reserved

## TCTTE TCT terminal entry

CONTROL BLOCK NAME = DFHTCTTE  
 DESCRIPTIVE NAME = CICS TCT Terminal Entry  
 Many assembler bit names are not included in this structure.  
 E.G. The TCTEIGBF in 'OI TCTEIGBF,TCTEGBF' will be found under  
 TCTEGBF and not TCTEIGBF.  
 Old L0 to LZ removed to allow reuse of change flags.  
 Old @L0 to @LZ have been changed to @I0 and @Iz.  
 Use cruise on older releases if you need the original flag  
 EXTENSIONS FOR THE DFHTCTTE DSECT  
 TCTTETTE TCTTE BMS Extension  
 Pointed to by TCTTETEA  
 TCTTEPSE TCTTE Special Features Extension  
 Pointed to by TCTTEPSA  
 TCTTELUC TCTTE Extension for LUC Systems  
 Pointed to by TCTTELUCX  
 TCTENIB TCTTE Extension for Nib Descriptor  
 Pointed to by TCTENIBA  
 PRODUCT-SENSITIVE PROGRAMMING INTERFACE.  
 The following fields form part of the Product-Sensitive  
 Programming Interface  
 TCTEAMIB TCTECIP TCTECG1 TCTECG2 TCTEDIP TCTEHACP  
 TCTELOS TCTENIBA TCTENNAM TCTERPLA TCTESEST  
 TCTEVR5 TCTEVR6 TCTEVR7 TCTEVR8 TCTE2RY  
 TCTTEAID TCTTECA TCTTECIA TCTTECIL  
 TCTTEDA TCTTEDLM TCTTEEIA TCTTEIST TCTTENI TCTTENO  
 TCTTEPCR TCTTEPGB TCTTEPGM TCTTETEA  
 TCTTETC TCTTETI TCTTETP TCTTETS TCTTETT

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	277	DFHTCTTE	Dummy Section
TERMINAL DATA CONTROL INFORMATION				
This area (from TCTE_TRACE_1 to TCTE_TRACE_1_LEN) is traced				
(0)	CHARACTER	24	TCTE_TRACE_1	TCTTE trace area 1
(0)	CHARACTER	4	TCTTETI	Terminal name
TERMINAL TYPE CODES				
(4)	CHARACTER	1	TCTTETT	Terminal Type - see constants
(5)	CHARACTER	1	TCTTETM	Terminal model number
OPERATION CLASS CODES				
(6)	BITSTRING	1	TCTTECL	Operation class
	1... ..		*	
	.1. ....		TCTTECAU	AUDIO
	..1. ....		TCTTESTI	TERM INIT TASK
	...1 ....		TCTTECBS	BISYNCHRONOUS
	.... 1...		TCTTECHC	HARD COPY
	.... .1..		TCTTECV	VIDEO
	.... ..1.		TCTTECB	BATCH
	.... ...1		TCTTECCV	CONVERSATIONAL
TERMINAL STATUS CODES				
(7)	CHARACTER	1	TCTTETS	Terminal status
	1... ..		TCTTEATP	Dummy TCTTE for APT
	.1. ....		TCTTESRO	READ only
	..1. ....		TCTTESPO	Permanent OUT OF SERVICE
	...1 ....		TCTTESQC	Terminal QUIESCING
	.... 1...		TCTTESNP	RECEIVE only
	.... ..1.		TCTTESAT	AUTO TRANSACTION initiate
	.... ..1.		TCTTESA	Terminal ATTENDED
	.... ...1		TCTTESOS	OUT OF SERVICE
OPERATION DATA				
(8)	ADDRESS	4	TCTTESC	Address of first TIOA for any one task
(C)	ADDRESS	4	TCTTEDA	Address of TIOA
(10)	ADDRESS	4	TCTTECA	Address of TCA using this terminal, else 0 if no TCA is currently available
(14)	CHARACTER	4	TCTE_TRANNUM	Trannum of transaction running with this term facility
TCTE_TRACE_1_LEN End of TCTTE trace area 1				
(18)	ADDRESS	4	TCTTECIA	Address of USER AREA
(1C)	BITSTRING	1	TCTTECIL	Length of USER AREA
(1D)	BITSTRING	1	*	Storage allocation
	1... ..		TCTTEPCR	PASSBOOK present on read
	1... ..		TCTTERMC	WRITE resend message
	.1. ....		TCTTEPCW	PASSBOOK present on WRITE
	.1. ....		TCTTERMS	Re-send message scheduled
	..1. ....		TCTTERMI	Re-send message control
	..1. ....		TCTTERMT	Re-send message transparent
	...1 ....		TCTTERMQ	Re-send message queued

Offset Hex	Type	Len	Name (Dim)	Description
	.... 1...		TCTTEEOD	End of DATASET
	.... 1...		TCTEMOPU	Unattended mode
	.... .1.		TCTTEOFC	End of file
	.... .1.		TCTRO2	WRITE break occurred
	.... .1.		TCTRO1	READ attention occurred
(1E)	CHARACTER	1	TCTTEURC	User return code
(1F)	BITSTRING	1	TCTTEFX	TRANSPARENCY feature flag
	1... ..		TCTTEFXF	TRANSPARENCY present
	.1. ....		TCTTE32T	3270 TRANSPARENCY
	.1. ....		TCTTETOT	TC obtained TRANSP TIOA
	.1. ....		TCTTETW	TRANSP WRITE required
(20)	ADDRESS	4	TCTTERTV	Address
(20)	FULLWORD	4	TCTTEDES	TCAM destination name
(24)	CHARACTER	1	TCTTERC	(Packed decimal)
(24)	CHARACTER	1	TCTTETCM	TCAM OPTCD flag
OPERATOR DATA CONTROL INFORMATION				
(25)	CHARACTER	3	TCTTEOI	Operator identification
(28)	CHARACTER	3	TCTTENLI	National Language in use
(2B)	UNSIGNED	1	TCTTEOP	Operator priority
VTAM FMH BUILD AREA				
(2C)	CHARACTER	2	TCTEFMH1	FMH area for 3600 DEVICES
(2C)	BITSTRING	1	TCTEVTC	Type code name definition
	1111 ....		TCTEVCTCT	Logical device code
	.... 1..		*	
	.... .1.		TCTEOFP	OUTPUT format PARM present
	.... .1.		TCTEIFP	INPUT format PARM present
	.... .1.		TCTEFPP	FORMS parameter present type code STRG ALLOC
(2D)	BITSTRING	1	*	
(2D)	BITSTRING	1	TCTEVLDC	Logical device code
DATA STREAM TYPE				
(2E)	BITSTRING	1	TCTETDST	DATA STREAM type byte
	1... ..		TCTECSB	SCS basic DATASTREAM indicator (GRAPHICS + NL)
	.1. ....		*	
	.1. ....		*	
	.1. ....		*	
	.... 1..		TCTEAI DP	AID present in TCTTE
	.... .1.		TCTEASC7	ASCII-7 indicator
	.... .1.		TCTEASC8	ASCII-8 indicator
	.... .1.		TCTETTSI	3270 DATA STREAM indicator
SESSION CHARACTERISTICS CONTINUED				
(2F)	CHARACTER	1	TCTEILUC	LUC SESSION indicator
(2F)	BITSTRING	1	TCTESEST	TCTTE SESSION status
	1... ..		TCTESLGI	1=CICS SIMLOGON OK (INTLOG) 0=CICS SIMLOG not allowed (NO INTLOG)
	.1. ....		TCTESLGT	Remember INTLOG value
	.1. ....		TCTEACT	This is an APPC terminal
	.1. ....		TCTESOPR	Operative
	.... 1..		TCTELUC	This is an LUC expression
	.... .1.		TCTEFPX	FAST PATH XFORMER in use
	.... .1.		TCTEFCTK	FC Token allowed
	.... .1.		TCTE_CLONE	APPC clone
TERMINAL DEPENDENT OVERLAY AREA				
The following field is overlaid by:				
TCTE3270 : 3270 Definitions				
TCTE2980 : 2980 Definitions				
TCTETLX : TLX Disconnect Messages				
TCTE3600 : 3600 Binary Synchronous Definitions				
TCTEOS : OS Console Support				
(30)	CHARACTER	12	TCTTETDO	
3270 DEFINITIONS Terminal Dependent Overlay				
(30)	CHARACTER	12	TCTE3270	3270 definitions
(30)	HALFWORD	2	TCTTECAD	CURSOR address of BINARY
(32)	BITSTRING	1	TCTTEAID	ATTENTION identifier
(33)	BITSTRING	1	TCTTEFIB	Terminal feature flag byte
	1... ..		TCTTEFSP	SELECTOR PEN
	.1. ....		TCTTELPR	LOCAL PRINT function
	.1. ....		TCTTEFDK	DUAL case keyboard
	.1. ....		TCTTEFTU	UPPER case TRANSLATE
	.... 1..		TCTTEFCV	COPY valid
	.... .1.		TCTTEFAA	AUDIBLE ALARM
	.... .1.		TCTTEFP7	Print eligible printer
	.... .1.		TCTTEFPA	Model 3 printer adapter
(34)	CHARACTER	8	TCTTELUN	LUNAME in CLSDST PASS
(34)	UNSIGNED	1	TCTEDMYE	dummy overlay - error cde
(35)	CHARACTER	5	TCTEDMMN	dummy overlay - mod name
(3A)	UNSIGNED	1	TCTEDMGC	dummy overlay - getmn rc
(3B)	CHARACTER	1	*	dummy overlay - reserved

Offset Hex	Type	Len	Name (Dim)	Description
2980 DEFINITIONS				
Terminal Dependent Overlay				
(30)	CHARACTER	5	TCTE2980	2980 definitions
(30)	BITSTRING	1	TCTTEBAA	2980 alternate address
(31)	BITSTRING	1	TCTTNSA	2980 normal address
(32)	BITSTRING	1	TCTTESID	2980 station ID
(33)	BITSTRING	1	TCTTETAB	2980 TAB factor
(34)	BITSTRING	1	TCTTETID	2980 Model 4 TELLER ID
TLX DISCONNECT MESSAGES				
Terminal Dependent Overlay				
(30)	CHARACTER	4	TCTETLX	TLX definitions
(30)	ADDRESS	4	TCTTETLM	TLX disconnect MSG addr
3600				
BINARY SYNCHRONOUS DEFINITIONS				
Terminal Dependent Overlay				
(30)	CHARACTER	12	TCTE3600	3600 definitions
(30)	CHARACTER	8	TCTTERIN	Resend message user data
(38)	BITSTRING	1	TCTTEDLM	End of input delimiter
	1... ..		TCTTECEX	Input ended with ETX
	.1. ....		TCTTECEB	Input ended with ETB
	..1. ....		TCTTECIS	Input ended with IRS
	...1 ....		TCTTECSO	Ignored
	.... 1...		TCTTECTR	Transparent input
(39)	CHARACTER	3	*	
OS CONSOLE SUPPORT				
Terminal Dependent Overlay				
(30)	CHARACTER	12	TCTEOS	OS definitions
(30)	ADDRESS	4	TCTTECCE	Console control element
	1... ..		TCTTEPL	Error console
(30)	BITSTRING	3	*	Reserved
(34)	FULLWORD	4	TCTTEMID	message identification
(38)	FULLWORD	4	TCTTECNI	Console identification
VTAM DEFINITIONS				
(3C)	CHARACTER		TCTTEVDA	Area
(3C)	CHARACTER	4	TCTESIDI	Data
(40)	CHARACTER	4	TCTESIDO	Data
(44)	CHARACTER	3	TCTTECRE	Extension
NOTE: X'80' is restricted because of arithmetic manipulations in COBOL				
(44)	BITSTRING	1	TCTEUSE1	Byte storage allocation
	1... ..		*	restricted due to COBOL arith
	.1. ....		TCTEFMH	FMH received test mask
	..1. ....		TCTEEOC	EOC,OC received test mask
	...1 ....		TCTEASE	SESSION Error notified
	.... 1...		TCTESIG	SIGNAL received test mask
	.... .1.		TCTEUFRT	Free the TCTTE(EB received)
	.... ..1.		TCTEUCOM	User should SYNC POINT now
	.... ...1		TCTERCDI	REQCD condition
(45)	BITSTRING	1	*	
(46)	BITSTRING	1	TCTETXF	3270 TEXT feature flag byte
	1... ..		TCTE327E	3270 Extended range
	.1. ....		TCTEAPTX	APL TEXT feature
	..1. ....		TCTETXKB	TEXT keyboard
	...1 ....		TCTEAPKB	APL keyboard
	.... 1...		TCTETXPR	3288 TEXTPRINT
	.... .1.		TCTETXT6	KATAKANA
	.... ..1.		TCTETXT7	Reserved
	.... ...1		TCTETXT8	Reserved
3270 SIZE DEFINITIONS				
(47)	BITSTRING	1	TCTE32SF	3270 size flags
	1... ..		TCTEWA	Alternate size can be used
	.1. ....		TCTEALW	Alternate size is in use
	..1. ....		TCTELEWA	Alternate size used last
	...1 ....		TCTEAWN	EW/EWA needed next
	.... 1...		*	3270 - Reserved
	.... ..1.		TCTTE_ROUTABLE_	
			START	
				Routable START
The following 2 BIT definitions are for TRANSACTION ROUTING use				
	.... ..1.		TCTECRTF	Caller is running the first transaction of a ROUTING SESSION
	.... ...1		TCTECERT	Caller is running an EXPLICIT ROUTING SESSION
(48)	HALFWORD	2	TCTEDSCZ	3270 default screen size
(4A)	UNSIGNED	1	TCTEDSCL	3270 default size rows
(4B)	UNSIGNED	1	TCTEDSCC	3270 default size columns
(4C)	HALFWORD	2	TCTEASCZ	3270 alternate screen size
(4E)	UNSIGNED	1	TCTEASCL	3270 alternate size rows
(4F)	UNSIGNED	1	TCTEASCC	3270 alternate size columns

Offset Hex	Type	Len	Name (Dim)	Description
3270 EXTENDED FEATURES				
(50)	BITSTRING	1	TCTE32EF	3270 extended features
	1... ..		TCTTEEDS	EXT DATA STREAM supported
	.1.. ....		TCTTECOL	COLOUR supported
	..1. ....		TCTTEPSS	PSS supported
	...1 ....		TCTTEHIL	HILIGHT supported
	.... 1..		TCTTEVAL	VALIDATION supported
	.... .1..		TCTTEPRN	PARTITIONS supported
	.... ..1.		TCTTEMSR	MSR CONTROL supported
(51)	BITSTRING	1	TCTE32E2	3270 extended features #2
	1... ..		TCTTEFRL	Field OUTLINING supported
	.1.. ....		TCTTE MIX	MIXED field supported
	..1. ....		TCTTEBTR	Background transparency
	...1 11..		*	Reserved
	.... ..1.		TCTTERMP	Reply mode structured field in query reply
	.... ...1		TCTTESA	Set Attribute supported.
(52)	BITSTRING	1	TCTE32E3	3270 extended features
	1... ..		TCTTEQYA	QUERY always
	.1.. ....		TCTTEQYC	QUERY COLD-STARTS only
	..1. ....		TCTTEQYN	QUERY next LOGON
	...1 ....		TCTTEQYP	QUERY pending
	.... 1111		*	
Extended User INFORMATION field				
(53)	BITSTRING	1	TCTEUSE2	Byte storage allocation
	1... ..		TCTEABP	ABEND is pending
	.1.. ....		TCTEUERR	0889 SENSE REC'D mask
	..1. ....		TCTEUCFM	User should CONFIRM now
	...1 ....		TCTEUSRB	User should ROLL BACK now
	.... 1..		TCTESRBR	ROLLBACK rec'd from other side
	.... .1..		TCTEUNUL	No User data ID received
	.... ..1.		TCTEUSMD	User flag in SEND mode
	.... ...1		TCTEURCV	User flag in RECEIVE mode must issue a RECEIVE
(54)	CHARACTER	4	TCTTEUSE	End of User area
SYSTEM AREA STARTS HERE				
GENERAL INFORMATION				
(54)	HALFWORD	2	TCTTETEL	Table entry length
(56)	HALFWORD	2	TCTTETEN	Terminal entry number
(58)	ADDRESS	4	TCTEDIBA	Data interchange block address
(5C)	ADDRESS	4	TCTESNEX	Addr of Signon Extension
(60)	CHARACTER	11	TCTESCUR	Security level
(60)	CHARACTER	4	*	
(60)	UNSIGNED	2	TCTECSG1	CGCSGID-1
(62)	UNSIGNED	2	TCTECSG2	CGCSGID-2
(64)	BITSTRING	1	TCTESCFL	Security flag byte
	1... ..		TCTEGNXT	GNTRAN next transid
	.1.. ....		*	Reserved
	..1. ....		TCTETOFB	Timeout BID failed
	...1 ....		TCTESCFM	Preset signon error field
	.... 1..		TCTESCST	Timeout SIGN-OFF is allowed
	.... .1..		TCTESCLG	SIGNOFF = LOGOFF
	.... ..1.		TCTESTAR	Trans Access Revoked
	.... ...1		TCTESCTO	Timeout signoff required
(65)	CHARACTER	4	TCTEELGM	A(EXTRACTED LOGON DATA)
(69)	BITSTRING	1	*	
	1... ..		TCTEMROS	Shippable definition
	.1.. ....		TCTEMROP	Ship done to someone
	..1. ....		TCTTETMC	TMP action taken for TCTE
	...1 ....		TCTESKSH	Save on restart dataset that definition shipped
	.... 1..		TCTENTA	Notify received.
	.... .1..		TCTEIRFR	TEDA->TIOA is free for reuse
	.... ..1.		TCTERMDL	Remdel scheduled
	.... ...1		TCTTETSC	TMP action taken for TCSE
(6A)	BITSTRING	1	TCTEANDX	SNA-ASCII direction indicator
	1111 1..		*	Reserved
	.... ..1..		TCTES7TX	S/7 no RETRANSLATE indicator
	.... ...1.		TCTEASCO	Output (EBCDIC to ASCII)
	.... ...1		TCTEASCI	Input (ASCII to EBCDIC)
(6B)	BITSTRING	1	TCTEUCTB	Index for translate table
(6C)	ADDRESS	4	TCTENIBA	Address of NIB descriptor
(6C)	ADDRESS	4	TCTTERLA	Address of RELAY LINK TCTTE, if this TCTTE is a SURROGATE.
(6C)	ADDRESS	4	TCTTETA	The physical address and terminal device for the write MACRO instruction
(6C)	BITSTRING	1	TCTTEGU	Relative line number
(70)	ADDRESS	4	TCTTESKA	Address of SKELETON TCTTE, if this TCTTE is a SURROGATE.
(70)	ADDRESS	4	TCTERPLA	RPL address
(70)	ADDRESS	4	TCTTELEA	LINE ENTRY address
(74)	ADDRESS	4	TCTTERST	Addr of tran restart Extn
(78)	ADDRESS	4	TCTTETEA	Address of BMS extension
(7C)	CHARACTER	4	TCTTETC	Terminal transaction code
(80)	ADDRESS	4	TCTEEILR	A(EIP'S last held TIOA)
(84)	ADDRESS	4	TCTEEIEX	A(EXEC terminal CB ETGB)
(84)	ADDRESS	4	TCTTESUA	Address of SURROGATE TCTTE if this TCTTE's a RELAY LINK
(88)	ADDRESS	4	TCTTEEIA	Exec interface PARM addr
(8C)	ADDRESS	4	TCTTEUCN	ISC User ownership chain

Offset Hex	Type	Len	Name (Dim)	Description
(90)	ADDRESS	4	TCTTEIST	ISC INTERSYSTEM table address
(94)	BITSTRING	1	TCTTEEDF	EDF debug mode
(95)	CHARACTER	1	TCTEMRST	MRO/LU6.1 Apl State-cur
(96)	CHARACTER	1	TCTEMRSV	MRO/LU6.1 Apl State-prev
(97)	CHARACTER	1	*	
	1111 ....		TCTEMRSX	MRO/LU6.1 Indicators
	1... ....		TCTENNQI	IMS Session Indicator
	.111 ....		*	Reserved
	.... 1111		TCTTEDII2	DYNAMIC INSTALL flags
	.... 111.		*	Reserved
	.... ...1		TCTEDAB	Autoinstall delete abend
(98)	BITSTRING	1	TCTTEDII	DYNAMIC INSTALL indicators. *
	1... ....		TCTTEDAP	Pending DYNAMIC ADD
	.1. ....		TCTTEDDP	Requires deleting
	.1. ....		TCTPNDOS	Pending INSERVICE
	...1 ....		TCTPNDNP	Pending TTI i.e. RECEIVEONLY *
	.... 1...		TCTPNATG	Pending ATI
	.... .1.		TCTPNDLG	Pending CREATESESS.
	.... .1.		TCTPNDAC	Pending AUTOCONNECT
	.... ...1		TCTETRAN	Transient terminal
(99)	BITSTRING	1	*	DYNAMIC INSTALL indicatorS-2 *
	1... ....		TCTEDELQ	AUTOINSTALL ZACT has issued INITIATE
	.1. ....		TCTEDELQ	AUTOINSTALL delete after a restart
	.1. ....		TCTELUSM	Special LUS 1st session
	...1 ....		TCTENDEL	AUTOINSTALL do not delete
	.... 1...		TCTEXDEL	on if ZCLX or ZNSP run and action=simlogon
	.... .1.		TCTECLG	CLSDST & LOGON in progress
	.... ...1		TCTEPSN	Awaiting CLSDST PASS notification
	.... ...1		TCTEDZIP	CATD delete in progress
(9A)	CHARACTER	4	TCTEXTOK	ZXQO token
(9E)	HALFWORD	2	TCTEEIDL	Length of residual data
(A0)	HALFWORD	2	TCTTECCU	Physical hardware address
(A2)	CHARACTER	1	TCTESONS	SON code for SCIP
Terminal read timeout VALUE				
(A3)	BITSTRING	1	TCTETRTO	Read timeout value
(A4)	BITSTRING	1	TCTTESCV	Storage violation count
This byte is used by surrogates to record the state of the relay link				
(A5)	CHARACTER	1	TCTE_RELAY_ LINK_STATUS	
	1... ....		*	reserved bit 0
	.1. ....		*	reserved bit 1
	.1. ....		*	reserved bit 2
	...1 ....		*	reserved bit 3
	.... 1...		*	reserved bit 4
	.... .1.		TCTE_RECOV_ STATUS_DEFERRED	No recovery status yet
	.... ...1		TCTE_RELAY_ LINK_ACTIVE	Relay link is active
	.... ...1		TCTE_RELAY_ LINK_ASSIGNED	Relay link is assigned
(A6)	HALFWORD	2	TCTTEREC	Last record NBR written
The following field is overlaid by: TCTTEZ1 : NON-VTAM status fields TCTTEZ2 : PIPELINE statistics TCTTEZ3 : Session Specific fields for Function Shipping				
(A8)	CHARACTER	8	TCTTEZ0	
NON - VTAM Status fields				
(A8)	CHARACTER	8	TCTTEZ1	NON-VTAM status fields
(A8)	FULLWORD	4	TCTTEBC	Bypass control counter
(AC)	HALFWORD	2	TCTTELPL	(Terminal type is CARD READER or LINE PRINTER)
(AE)	BITSTRING	1	TCTTEPRC	Event (terminal type if SYSTEM/7 support
(AF)	UNSIGNED	1	*	NON-VTAM Reserved
PIPELINE Statistics				
(A8)	CHARACTER	8	TCTTEZ2	PIPELINE statistics
(A8)	HALFWORD	2	TCTETCNT	Total throw-away count
(AA)	HALFWORD	2	TCTESCNT	Number of times (consecutive throw-away count)
(AC)	HALFWORD	2	TCTECCNT	Current throw-away count
(AE)	HALFWORD	2	TCTEMCNT	Maximum throw-away count
Session Specific fields used for Function Shipping				
(A8)	CHARACTER	4	TCTTEZ3	Session only fields
(A8)	CHARACTER	4	TCTESERV	Current mirror transid
TERMINAL STATISTICS				
(B0)	FULLWORD	4	TCTTENI	From this terminal (BINARY)
(B4)	FULLWORD	4	TCTTEN0	To this terminal (BINARY)
(B8)	CHARACTER	2	TCTEDVSC	VTAM short on storage (SOS)



Offset Hex (B8)	Type	Len	Name (Dim)	Description
	CHARACTER	2	TCTTETE	Number of transmission errors or IRC disconnect requests (BINARY)
OPERATOR STATISTICS				
(BA)	CHARACTER	4	TCTTEOT	Number of transactions
(BE)	CHARACTER	2	TCTTEOE	Number of transaction errors
General Bits				
# (C0)	BITSTRING	1	*	<div style="border: 1px solid black; padding: 5px;"> <b>APARS</b>                      PQ30085 added TCTETABP                      PQ41122 added TCTEPABP                      PQ40109 added TCTECLRQ                 </div>
#				
#				
#				
#	11.. ....		*	
#	..1. ....		TCTECLRQ	
#	...1 ....		TCTEPABP	
#	.... 1...		TCTETABP	
#	.... ..1.		TCTE_CONFDATA_YES	
#	.... ..1.		TCTEDIBS	
	.... ...1		TCTTEGWI	A GET WAIT has been issued *
TERMINAL CONTROL INDICATORS				
(C1)	BITSTRING	1	TCTTETC1	Byte name definition
	1... ....		TCTTECLT	Last terminal in group
	..1. ....		TCTTECPF	Compatible terminal
	..1. ....		TCTTECUI	Control unit OUT OF SERVICE
	...1 ....		TCTTEPOS	Control unit PERMANENTLY OUT OF SERVICE
	.... 1...		TCTTESUS	Task is suspended by ZC
	.... ..1.		TCTTECTC	Terminal connected
	.... ..1.		TCTTECRS	Skip terminal read
	.... ...1		TCTTECSF	Skip flag status indicator
(C2)	BITSTRING	1	TCTTEIO	Internal operation req byte
OPERATION STATUS				
	1... ....		TCTTEONR	NEGATIVE response
	..1. ....		TCTTEOAO	AUTO output message
	..1. ....		TCTTEOAT	AUTO output transaction
	...1 ....		TCTTECG	Conditional GETMAIN for read attention
	.... 1...		TCTTEOGA	GRAPHIC attention indicator
	.... 1...		TCTTERPI	READ pending
	.... ..1.		TCTTEOIC	TIME control transaction
	.... ..1.		TCTTEOTI	TASK to be initiated
	.... ...1		TCTTEXAC	Transparent transaction
	.... ...1		TCTTESCW	SEGMENTED write
(C3)	BITSTRING	1	TCTTEIO2	Byte 2 name definition
	1... ....		TCTTECAI	Permanent transaction code
	..1. ....		*	
	..1. ....		*	
	...1 ....		*	reserved
	.... 1...		TCTERORT	Initiate restart task
	.... ..1.		TCTERORN	Notify terminal
	.... ..1.		TCTEROC5	Restart for CICS LOGON
	.... ...1		TCTEROS	Restart to SIMLOGON
ACCESS METHOD FLAGS				
(C4)	BITSTRING	1	TCTEAMIB	Access method flags
OPERATION REQUESTS				
(C5)	BITSTRING	1	TCTTEOS	External operation request
	1... ....		TCTTEOER	Erase
	..1. ....		TCTTEOSS	Save terminal storage
	..1. ....		TCTTEOLA	Line addressing request
	...1 ....		TCTTEORR	Read
	.... 1...		TCTTEODR	Disconnect
	.... ..1.		TCTTEOSR	Wait
	.... ..1.		TCTTECVS	Converse
	.... ...1		TCTTEOWR	Write
OPERATION MODIFIERS				
(C6)	BITSTRING	1	TCTTECS	External control request
	1... ....		TCTTERBI	Read buffer
	..1. ....		TCTTEUI	Erase all unprotected
	..1. ....		TCTTEOWL	Write lock
	...1 ....		TCTTEORL	Read lock
	.... 1...		TCTTECYI	Copy
	.... ..1.		TCTTERPR	
	.... ..1.		TCTTETRM	Transparent mode
	.... ..1.		TCTTENTR	No translate
	.... ...1		TCTTEPBM	PSEUDO-BINARY mode
	.... ...1		TCTTETRY	BISYNCH transparency
(C7)	BITSTRING	1	TCTTEOC	Byte 2 storage allocation
	1... ....		TCTEDRR	Write with DEF RESP requested *
	..1. ....		TCTTETWW	TCAM write WORK flag
	..1. ....		TCTRA2	Write BREAK analysis request
	.... ...1		TCTRA1	Read ATTN analysis request

Offset Hex	Type	Len	Name (Dim)	Description
	.... 1...		TCTTECBW	COMMON BUFFER request
	.... .1..		TCTTEPBK	PASSBOOK request
	.... .1.		TCTTEOFR	END OF FILE request
	.... ..1		TCTTEWCI	Control char supplied
(C8)	BITSTRING	1	TCTEOCB	Byte 3 storage allocation
	1... ..		TCTEFRC	Write with FORCE=YES
	.1. ....		TCTEWSR	Wait until SIGNAL received
	.1. ....		TCTELMP	LDC mnemonic present
	..1 ....		TCTEFPD	FMH provided with data
	.... 1...		TCTELST	LAST write from task
	.... .1.		TCTEORAS	IMMED option
	.... ..1		TCTEORSY	DELAY option
(C9)	BITSTRING	1	TCTEIKPC	Byte 4 storage allocation
	1... ..		*	Reserved
	.1. ....		*	Reserved
	.1. ....		TCTESFU	SPP ISSUE TC free at USR SP
	..1 ....		TCTESFR	SPP ISSUE TC free if RSTRT
	.... 1...		*	
	.... .1.		TCTEPH1	SYNCPOINT PHASE 1 done
	.... ..1		TCTEPH2	SYNCPOINT PHASE 2 done
(CA)	BITSTRING	1	TCTEOC3	Byte 5 storage allocation
	1... ..		TCTENEC	Write with CCOMPL=NO
	.1. ....		*	
	.1. ....		TCTEHDA	User handles all conditions
	.1. ....		TCTTECND	COND request
	.1. ....		TCTTECND	COND request
	..1 ....		TCTTEOWS	Write structured field
	.... 1...		TCTTETTO	TRANSP TIOA obtained
	.... .1..		TCTEDWP	Defer requested
	.... .1.		TCTTEDWR	Defer requested
	.... ..1		TCTTEINV	Invite requested
	.... ..1		TCTEDRD	Defer load
(CB)	BITSTRING	1	TCTEOC4	Byte 6 storage allocation
	1... ..		*	
	.1. ....		*	
	.1. ....		*	
	..1 ....		*	
	.... 1...		*	
	.... .1..		TCTEBYPQ	Byq quiesce for PASS
	.... ..1		TCTENOA	NOABEND requested
	.... ..1		TCTEINN	TERMERR flag byte
(CC)	BITSTRING	1	TCTETSU	TCTTE terminal sharing use
	1... ..		TCTESUR	Used as a SURROGATE
	.1. ....		TCTERLX	Used as a RELAY LINK on transaction side
	.1. ....		TCTERLT	Used as a RELAY LINK on terminal side
	..1 ....		TCTETRT	Used as terminal for remote transaction
	.... 1...		TCTEMDL	Is a model TCTTE
	.... .1..		TCTERTNT	TCTTE nominated transaction to be routed
	.... .1.		TCTERTE	Running routing transaction (CRTE)
	.... ..1		TCTEERT	Running under an explicit
(CD)	BITSTRING	1	TCTEERAF	3270 Error MSG flags ROUTING SESSION
	1... ..		TCTEERAL	Error MSGS on last line
	.1. ....		TCTEERAI	Intensify 3270 error MSGS
	.1. ....		TCTEPROP	Propagate abend towards TOR
(CE)	BITSTRING	1	TCTEERAH	3270 Error MSG HIGHLIGHT ATTR
(CF)	BITSTRING	1	TCTEERAC	3270 Error MSG COLOR ATTR
(D0)	CHARACTER	4	TCTESYID	SYSID of transaction owning system
(D4)	BITSTRING	1	TCTETSU2	Terminal sharing usage
	1... ..		TCTESPRR	SYNC POINT must be sent to terminal owning system
	.1. ....		TCTERTEC	ROUTING SESSION cancelled if this is a surrogate:
	.1. ....		TCTTEMBI	model owns BIND-IMAGE
	..1 ....		TCTTEMND	model owns NIB-DESCRIPTOR
	.... 1...		*	RESERVED
	.... .1..		*	RESERVED
	.... ..1		*	RESERVED
(D5)	BITSTRING	1	TCTETSU3	General bits
	1... ..		TCTTEUIP	Limited update-in-place
	.1. ....		TCTECDSY	SAVED TCTECDSV if on
	.1. ....		TCTEUCTR	Translate TRANID to U/C
	..1 ....		TCTE_STORAGE_FREEZE	Indicates when all terminal storage should be retained@NBC
	.... 1...		TCTTESRE	scheduled RESETSR
	.... .1..		TCTELXS	Logon crossed simlog
	.... .1.		TCTEOPSE	TCTTEOI value set by SET TERM OPERID
	.... ..1		TCTEDTR	Dyn Router requires abend notification
(D6)	UNSIGNED	2	TCTTERTK	RTT entry key
(D8)	UNSIGNED	1	TCTTEEN	POLL list entry number
(D9)	CHARACTER	1	TCTTETP	Terminal priority
(DA)	BITSTRING	1	*	Trace bits
	1... ..		TCTETRX	Exit trace active
	.1. ....		TCTETRST	Standard or special trace OFF = STAN, ON = SPECIAL
	..1 1111		*	Trace - Reserved
(DB)	UNSIGNED	1	TCTENLS	National Lang. Supp. code
(DC)	ADDRESS	4	TCTECELPA	Address of CEL parmlist passed from CICS to CEL at Run Unit Init
(E0)	CHARACTER	8	TCTTE_START_DATA_ID	Start data id

Offset Hex	Type	Len	Name (Dim)	Description
(E0)	ADDRESS	4	TCTTE_START_DATA_ADDRESS	Data on session
(E4)	BITSTRING	1	TCTTE_START_DATA_FLAGS	Start flags
	1... ..		TCTTE_START_DATA_HEADER	Header in data
	.1.. ..		TCTTE_START_DATA	Just data
	..11 1111		*	Reserved
(E5)	CHARACTER	3	*	Reserved
(E8)	HALFWORD	2	TCTTE_START_DATA_LEN	Start data length
(EA)	CHARACTER	6	TCTE_RES_SA	Reserved
The following field is overlaid by: TCTTEX1 : Bisynchronous Data TCTETCM1 : TCAM Area				
(F0)	CHARACTER	12	TCTTEX0	SNA System Area
BISYNCHRONOUS DATA				
(F0)	CHARACTER	12	TCTTEX1	BISYNCH data
(F0)	CHARACTER	4	TCTTEBSB	BISYNCH data begin addr
(F0)	HALFWORD	2	TCTTEBDL	BISYNCH data area length
(F2)	BITSTRING	1	TCTTEBES	BISYNCH Event flags
	1... ..		TCTTEBAB	Terminal ANSWER BACK indicator.
	.1.. ..		TCTTEBAI	Read or write abort
	..1. ....		*	
	...1 ....		*	
	.... 1...		TCTTEBUB	User deblocking
	.... .1..		TCTTEBBI	Blocked input
	.... ..1.		*	
	.... ...1		TCTTEBIB	Incomplete batch
(F3)	BITSTRING	1	*	Reserved
(F4)	ADDRESS	4	TCTTEPDA	Area
(F8)	ADDRESS	4	TCTTEBIA	Blocked input record addr
(FC)	CHARACTER		TCTTEBEA	Address
TCAM AREA (OS)				
(F0)	CHARACTER	12	TCTETCM1	TCAM area
(F0)	HALFWORD	2	TCTTETML	Minimum length TIOA TCAM
(F2)	BITSTRING	1	*	TCAM SNA flags
	1... ..		TCTETME	EB still to do for task
	.1.. ..		TCTETMD	DUMMY write to perform
(F3)	BITSTRING	1	TCTETCM2	Reserved TCAM
(F4)	CHARACTER	8	TCTTETQN	TCAM QUEUE name
(FC)	CHARACTER		TCTEGET6	Length for OS CONSOLE
TERMINAL - DEPENDENT EXTENSION OVERLAY AREA The following field is overlaid by: TCTTEY1 : 2980 Control Extension TCTTEY2 : 3270 Display Data TCTTEY3 : 3735 Extension Area TCTTEY5 : 3600 Binary Synchronous Extension Area				
(FC)	CHARACTER	25	TCTTETDE	Term Dep Ext Overlay area
2980 CONTROL EXTENSION Terminal dependent extension overlay area				
(FC)	CHARACTER	2	TCTTEY1	2980 control ext.
(FC)	BITSTRING	1	TCTTEFLG	2980 control flags
	1... ..		*	
	.1.. ..		TCTTEWKF	Work factor
	..1. ....		*	
	...1 ....		TCTTEB96	Buffer expansion
	.... 1...		TCTTESEG	SEGMENTED write
	.... .1..		TCTTEPBI	PASSBOOK inserted on POLL
	.... ..1.		TCTTEAAI	Station address in use
	.... ...1		TCTTEHLT	Data translate
(FD)	BITSTRING	1	TCTTETTV	VECTOR
	1... ..		*	
	.1.. ..		*	
	..1. ....		TCTTESCN	2980 SHIFT CHARACTER SCAN
	...1 ....		*	
	.... 1...		*	
	.... .1..		TCTTETM4	2980 model 4 test
	.... ..1.		TCTTETM2	2980 model 2 test
	.... ...1		TCTTETM1	2980 model 1 test
3270 DISPLAY DATA Terminal dependent extension overlay area				
(FC)	CHARACTER	25	TCTTEY2	3270 display area
(FC)	ADDRESS	4	TCTTEBDA	Blocking data area addr
(100)	HALFWORD	2	TCTTELSV	Retention
(102)	BITSTRING	1	TCTTEDOC	Byte 1 Storage Allocation

Offset Hex	Type	Len	Name (Dim)	Description
	1... ..		TCTTE3SR	3270 save request
	.1.. ..		TCTTEPRI	Printer running
	..1. ....		TCTTEPBF	Printer read buffer
	...1 .....		TCTTEPDI	Printer data
	.... 1...		TCTTEPYI	COPY/PRINT
	.... .1..		TCTTECRI	COPY/PRINT running
	.... ..1.		TCTTESBI	Print save buffer
(103)	BITSTRING	1	TCTTEWCS	Save area
(104)	BITSTRING	1	TCTTEDOS	Byte 2 storage allocation
	1... ..		TCTTEDBI	Device BUSY
	.1.. ..		TCTTEPSI	Pending status message
	..1. ....		TCTTERLI	Read length saved
	...1 .....		TCTTEICI	Incomplete message
	.... 1...		TCTTERKI	Keyboard
	.... .1..		TCTTEWLI	Write length saved
	.... ..1.		TCTTEIRF	INTERVENTION required
	.... ...1		TCTTEPIP	Print in progress
3270 SEGMENTED WRITE AREA				
(105)	BITSTRING	1	TCTE32SW	SEGMENTED write flag byte
	1... ..		TCTE32WI	SEGMENTED write indicator
(106)	CHARACTER	2	TCTE32RL	Len of remain SEG output
(108)	CHARACTER	4	TCTE32RA	Addr of remain SEG output
3270 COMPATIBILITY AREA				
(10C)	CHARACTER	1	TCTTECTT	Compatible terminal type
(10D)	CHARACTER	1	TCTTECTM	Compatible terminal model
(10E)	CHARACTER	1	TCTTERTT	Real terminal type
(10F)	CHARACTER	1	TCTTERMN	Real terminal model
(110)	BITSTRING	1	TCTTECSS	Compatible screen size
	1... ..		TCTTEC24	6X40 240 2260
	.1.. ..		TCTTEC48	12X40 480 2260
	..1. ....		TCTTEC96	12X80 960 2260
	...1 .....		TCTTEC15	15X64 960 2265
	.... 1...		TCTTEC12	12X40 480 3270
	.... ..1.		TCTTEC19	24X80 1920 3270
	.... ...1		TCTTEFCP	FASTER 2260 compatible
	.... ...1		TCTTECFB	FULLBUF mode
(111)	BITSTRING	1	*	Reserved
(112)	HALFWORD	2	TCTTECSM	SMI BINARY position
(114)	BITSTRING	1	TCTTECFG	Compatibility flags
	1... ..		TCTTECMF	Compatible mode
	.1.. ..		TCTTESSF	SMI on screen
	..1. ....		TCTTECPZ	Print
	...1 .....		TCTTECTI	Compatible transaction in process
	.... 1...		TCTTECT	Compatible transaction in control
	.... ..1.		TCTTECRC	Read conversion
	.... ...1		*	
	.... ...1		TCTTECDF	Convert data
3735 EXTENSION AREA				
Terminal dependent extension overlay area				
(FC)	CHARACTER	4	TCTTEY3	3735 extension area
(FC)	CHARACTER	1	TCTTEMC1	3735 mode control flags
	1... ..		*	
	.1.. ..		TCTTEMIQ	INQUIRY mode
	..1. ....		TCTTEMG1	GETMAIN
	...1 .....		TCTTEMSF	ERROR status
	.... 1...		TCTTEMEF	End of file
	.... ..1.		TCTTEMTC	Transmission complete
	.... ...1		TCTTEMBW	Batch mode - write
	.... ...1		TCTTEMBR	Batch mode - read
(FD)	CHARACTER	3	TCTTEDMP	Data retention area
3600				
BINARY SYNCHRONOUS EXTENSION AREA				
Terminal dependent extension overlay area				
(FC)	CHARACTER	15	TCTTEY5	3600 extension area
(FC)	FULLWORD	4	TCTTEMTU	Message input
(100)	ADDRESS	4	TCTTEMTI	Address input TIOA
(104)	ADDRESS	4	TCTTESTU	User output TIOA address
(108)	HALFWORD	2	TCTTEMLN	Input
(10A)	BITSTRING	1	TCTTEMLF	3600 BSC control flags
	1... ..		TCTTEMWR	Write pending
	.1.. ..		TCTTEMTD	Output segment built
	..1. ....		TCTTEMSG	SEGMENTED write

START - STOP SPECIFIC POLL AREA

Offset Hex	Type	Len	Name (Dim)	Description
(F3)	STRUCTURE	9	*	Overlay byte and TCAM Q name
(F3)	CHARACTER	3	TCTTESPA	POLL list header
(F6)	CHARACTER	2	TCTTESPC	Terminal Address
(F8)	CHARACTER	4	*	POLL list suffix

SNA SYSTEM AREA

Offset Hex	Type	Len	Name (Dim)	Description
(F0)	STRUCTURE	336	*	AREAS
(F0)	CHARACTER	4	TCTEV TSA	VTAM system area start
(F0)	HALFWORD	2	TCTESOAL	Terminal data length
(F2)	HALFWORD	2	TCTEGRS	Size of queued GETMAIN request

This area (from TCTE\_TRACE\_3 to TCTE\_TRACE\_3\_LEN) is traced

(F4)	CHARACTER	44	TCTE_TRACE_3	TCTTE trace area 3
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SENSE DATA

(F4)	CHARACTER	8	TCTEVSSS	System sense and status area
(F4)	CHARACTER	4	TCTEVSDA	Sense area
(F4)	BITSTRING	1	TCTESS1	Definition modifier system sense codes
(F5)	BITSTRING	1	TCTESS2	Definition
(F6)	BITSTRING	1	TCTEUS1	User sense byte 1
(F7)	BITSTRING	1	TCTEUS2	User sense byte 2
(F8)	CHARACTER	4	TCTEVNSS	Node sense and status area *
(F8)	BITSTRING	1	TCTENSS1	Node system sense byte 1
(F9)	BITSTRING	1	TCTENSS2	Node system sense byte 2
(FA)	BITSTRING	1	TCTENUS1	Node User sense byte 1
(FB)	BITSTRING	1	TCTENUS2	Node User sense byte 2
(FC)	ADDRESS	4	TCTESLNK	ISC system OWNERSHIP CHAIN *
(FC)	ADDRESS	4	TCTENEXT	Address next TCTTE(session) *
(FC)	ADDRESS	4	TCTE_NEXT_ APPC_SURROG	Next PS APPC surrog
(100)	CHARACTER	4	TCTETRND	ISC transaction ID
(104)	BITSTRING	1	*	Reserved
(105)	BITSTRING	1	TCTESPS	ISC SYNC POINT flags
			TCTESPSH	ISC SHUNT received
			TCTESPAB	ISC ISSUE ABEND received
			TCTESPER	ISC ISSUE ERROR received
			TCTESPRB	ISC SYNC ROLLBACK received *
			TCTESPSS	ISC SYNC PT request sent
			TCTESPID	ISC IN DOUBT indicator
			TCTESPSR	received
			TCTESPPR	ISC PREPARE received
(106)	BITSTRING	1	TCTESPSA	ADDITIONAL SYNC PT flags
			*	
			TCTESPRP	Sent PREPARE
			TCTESPRC	Sent 'PREPARE INVITE'
			TCTESPRL	Sent 'PREPARE REQUEST EB'
			TCTERPRC	Received 'PREPARE INVITE'
			TCTERPRL	Received 'PREPARE REQUEST EB'

SYNC POINT status - not PROTOCOL FLAGS, but AUW LIFETIME

(107)	BITSTRING	1	TCTESPST	SYNC point status
			*	
			*	
			*	
			*	
			*	
			*	
			*	
			TCTESPUN	Session is known to not have done PROTECTED ACTIONS
(108)	BITSTRING	1	TCTESARB	
			*	Reserved
			*	Reserved
			*	Reserved
			*	Reserved
			*	Reserved

The next flag only used if TCSEAR0I is on (new rules)

			TCTESARR	State after Rollback flag On = go to Receive Off = go to Send
			*	Reserved
			*	Reserved
(109)	BITSTRING	1	*	Reserved
(10A)	BITSTRING	1	*	Reserved
			TCTESABC	ABORT completely
			TCTESABR	ABORT received
			TCTESABS	ABORT sent
			TCTESABP	ABORT pending
			*	

Offset Hex	Type	Len	Name (Dim)	Description
	.... .1..		*	
	.... ..1.		TCTEEMX	ERP MSG expected
	.... ...1		TCTESER	Error processing state
(10B)	CHARACTER	1	TCTEATPN	Attached process memory
(10C)	ADDRESS	4	TCTEMII	MESSAGE INSERT information address

The BIT definitions in the following field match the BIT assignments in BYTES 16 and 17 of the LU6 BIND IMAGE

(110)	CHARACTER	2	TCTEARC	Information
(110)	BITSTRING	1	TCTEARC1	Arch Info 1 X'80' and X'40' Reserved
	1... ....		*	
	.1.. ....		*	
	..1. ....		TCTESYSM	System message model
	...1 ....		TCTESCHM	SCHEDULER model
	.... 1...		TCTEQM	QUEUE model
	.... .1..		TCTELFM	LINEAR FILE model
	.... ..1.		TCTEDL1M	DL/1 model
	.... ...1		TCTEFDM	FILE DEFINITION model
(111)	BITSTRING	1	TCTEARC2	Arch Info 2
	1... ....		TCTEOPCM	OPERATOR CONTROL model Other bits reserved
(112)	BITSTRING	1	TCTEISC1	ISC flags
	1... ....		TCTE1RY	CICS is PRIMARY
	.1.. ....		TCTE2RY	CICS is SECONDARY
	..1. ....		TCTEDYN	PRI/SEC is DYNAMIC
	...1 ....		*	
	.... 1...		TCTEWIN	LUC CONTENTION WINNER
	.... .1..		TCTELSE	LUC CONTENTION LOSER
	.... ..1.		*	
	.... ...1		TCTEBCL	BINDING as CONTENTION LOSER
(113)	BITSTRING	1	TCTENEPS	NEPCLASS static definition
(114)	CHARACTER	2	TCTESQNS	sequence number BUCKETS
(114)	HALFWORD	2	TCTESQIP	PHYSICAL INBOUND sequence number
(116)	HALFWORD	2	TCTESQOP	PHYSICAL OUTBOUND sequence number
(118)	HALFWORD	2	TCTESQIL	LOGICAL INBOUND sequence number
(11A)	HALFWORD	2	TCTESQOL	LOGICAL OUTBOUND sequence
(11C)	HALFWORD	2	TCTESQR1	OUR BB SEQ no sent
(11E)	HALFWORD	2	TCTESQR2	HIS BB SEQ no sent

TCTE\_TRACE\_3\_LEN End of TCTTE trace area 3

ATTACH REQUIRED FIELDS

TASK REQUEST COLLECTOR (1)

(120)	BITSTRING	1	TCTETRC1	Byte 2 storage allocation
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TASK REQUEST COLLECTOR (2)

(121)	BITSTRING	1	TCTETRC2	Byte 3 Storage Allocation
	1... ....		*	
	.1.. ....		*	
	..1. ....		*	
	...1 ....		TCTEOCC	OUTBOUND chain control
	.... 1...		*	
	.... .1..		TCTEMI	Message INTEGRITY(POSITIVE response)
	.... ..1.		*	
	.... ...1		TCTEOWO	ONE WRITE ONLY indicator
(122)	BITSTRING	1	TCTESUP1	Required features (1)
(123)	BITSTRING	1	TCTESUP2	Required features (2)
(124)	BITSTRING	1	TCTENSP1	Unsupported features (1)
(125)	BITSTRING	1	TCTENSP2	Unsupported features (2)
(126)	CHARACTER	5	TCTEJINF	GROUP next 5 bytes together KCP uses TCTEJINF for copy from PCT

JOURNALLING & I/O definition

(NOTE - CONCATENATION with following 2 fields by TCTEJINF)

(126)	BITSTRING	1	TCTEJSA	JOURNALLING and I/O def
	1... ....		TCTEFHA	All FMH'S to APPLN program
	1... ....		TCTEEXNO	EXTRACT=NO
	.1.. ....		TCTEFHE	EODS FMH'S to APPLN program
	.1.. ....		TCTEEXAT	EXTRACT=ATTACH
	..1. ....		TCTEAI0	ASYNCHRONOUS I/O
	...1 ....		TCTESIO	SYNCHRONOUS I/O
	.... 1...		TCTEFHD	DFHDIP to process FMH
	.... .1..		TCTELRQ	Transaction requires logical record
	.... ..1.		TCTEIMJ	Automatic message JOURNALLING on INPUT
	.... ...1		TCTEOMJ	Automatic message JOURNALLING on OUTPUT
(127)	BITSTRING	1	TCTEXTOP	EXTRACT options
(128)	BITSTRING	1	TCTEOPT2	EXTRA options
	1... ....		TCTESRAQ	RAQ=YES specified
	.1.. ....		TCTETUCT	UC translate required
	..1. ....		*	
	...1 ....		*	
	.... 1...		*	
	.... ..1.		*	
	.... ...1		*	
(129)	BITSTRING	1	TCTEJID	JOURNALLING JOURNAL ID
(12A)	BITSTRING	1	TCTENEPC	Node error program class ID

Offset Hex	Type	Len	Name (Dim)	Description
end of COPIED FIELDS from PCT				
(12B)	BITSTRING	1	*	
	1... ..		TCTENBD	NIB disabled - ZCLS cleanup needed
	.1... ..		TCTECRQ	Real CLSDST reqd
(12C)	CHARACTER	4	TCTEIRET	Access method RETCODE
(130)	CHARACTER	8	TCTENET	Applid of TOR
(130)	CHARACTER	8	TCTE_TITOKEN	token for remote delete
Communications Recovery Services storage				
(138)	CHARACTER	38	CR_STORAGE	
Access method independent Communications Recovery Services storage				
(138)	CHARACTER	20	CR_COMMON_STG	
Access method dependent Communications Recovery Services storage				
(14C)	CHARACTER	11	CR_OVERLAY_STG1	
(14C)	CHARACTER	2	*	
(14E)	CHARACTER	9	*	
(158)	CHARACTER	6	CR_OVERLAY_STG2	
(15E)	CHARACTER	2	*	reserved
(160)	CHARACTER	16	TCTE_RES_SNA	Reserved
(170)	CHARACTER	4	TCTEACSA	Access method SPECIFIC OVERLAY part of SNA system area
VTAM SYSTEM AREA				
(170)	ADDRESS	4	TCTEFMSA	Address of area to be freed
(174)	ADDRESS	4	TCTEASRA	ASYNCH TCP RESUME address
(178)	ADDRESS	4	TCTEHACP	ACTIVATE chain address
(17C)	FULLWORD	4	TCTECID	VTAM communications ID
(180)	ADDRESS	4	TCTEVSSC	SYST SERVICE chain address
(184)	HALFWORD	2	TCTELDCI	LDC index into lookup tbl
(186)	BITSTRING	1	TCTEPRUS	PRIMARY RU SIZE
(187)	BITSTRING	1	TCTESRUS	SECONDARY RU SIZE
(188)	HALFWORD	2	TCTESQOS	number
(18A)	HALFWORD	2	TCTESQRP	Turnaround count field
(18C)	HALFWORD	2	TCTESQSC	number
(18E)	HALFWORD	2	TCTESQER	ERROR SEQUENCE number
(190)	HALFWORD	2	TCTEOAL	Maximum allowable output
(192)	HALFWORD	2	TCTECHMX	Maximum chain size
(194)	HALFWORD	2	TCTERUSZ	Maximum RU size
(196)	HALFWORD	2	TCTELROF	Offset of next logical REC
(198)	ADDRESS	4	TCTELRTA	Deblocking
(19C)	ADDRESS	4	TCTELLDC	Local available LDC table
(1A0)	FULLWORD	4	TCTEEIDA	EXIT ID TRACE area
(1A0)	BITSTRING	1	TCTEEID0	EXIT ID capture area
(1A1)	BITSTRING	1	TCTEEID1	EXIT ID 1
(1A2)	BITSTRING	1	TCTEEID2	EXIT ID 2
(1A3)	CHARACTER	1	TCTEMDID	MODULE identifier
(1A3)	BITSTRING	1	TCTEEID3	EXIT ID 3
(1A4)	CHARACTER	4	TCTECDSV	A(TEDA) if change directio
(1A4)	FULLWORD	4	TCTERCSV	Error save area
This area (from TCTE_TRACE_5 to TCTE_TRACE_5_LEN) is traced				
(1A8)	CHARACTER	57	TCTE_TRACE_5	TCTTE trace area 5
INTERNAL ERROR CODE AREA				
(1A8)	BITSTRING	8	TCTE_ZNAC_ERRCODE	Group error codes
(1A8)	BITSTRING	2	TCTEERI5	Internal error code 5
(1A8)	BITSTRING	1	TCTEVR5	Internal error code 5
(1A9)	BITSTRING	1	TCTEMID5	Prog ID for error code 5
(1AA)	BITSTRING	2	TCTEERI6	Internal error code 6
(1AA)	BITSTRING	1	TCTEVR6	Internal error code 6
(1AB)	BITSTRING	1	TCTEMID6	Prog ID for error code 6
(1AC)	BITSTRING	2	TCTEERI7	Internal error code 7
(1AC)	BITSTRING	1	TCTEVR7	Internal error code 7
(1AD)	BITSTRING	1	TCTEMID7	Prog ID for error code 7
(1AE)	BITSTRING	2	TCTEERI8	Internal error code 8
(1AE)	BITSTRING	1	TCTEVR8	Internal error code 8
(1AF)	BITSTRING	1	TCTEMID8	Prog ID for error code 8
The following two internal error code slots are for use by the DFHZERRM TYPE=OVERFLOW_1 macro call only. These slots are used as an 'overflow' when the standard four internal slots all used up.				
(1B0)	BITSTRING	2	TCTEERI9	Internal error 9
(1B0)	BITSTRING	1	TCTEVR9	Internal error 9
(1B1)	BITSTRING	1	TCTEMID9	Prog ID for error 9
(1B2)	BITSTRING	2	TCTEERIA	Internal error 10 (A)
(1B2)	BITSTRING	1	TCTEVRCA	Internal error 10 (A)
(1B3)	BITSTRING	1	TCTEMIDA	Prog ID for error 10
(1B4)	ADDRESS	4	TCTEAWEA	AWE address
(1B4)	ADDRESS	4	TCTE_CTINDATA_PTR	Pointer to CTIN data
ACTIVATE CHAIN REQUESTS				

Offset Hex	Type	Len	Name (Dim)	Description
(1B8)	CHARACTER	4	TCTEACR	Activate request bytes
(1B8)	BITSTRING	1	TCTEACR1	Byte 1 storage allocation
	1... ..		TCTECGR	GETMAIN
	.1. ....		TCTEFR	FREEMAIN
	.1. ....		TCTECAT	ATTACH
	...1 ....		TCTECRC	ASYNCH return of control
	.... 1...		TCTECRR	RESUME
	.... .1..		TCTERCS	RECEIVE SPECIFIC
	.... .1..		*	Reserved
	.... ..1		*	Reserved
(1B9)	BITSTRING	1	TCTEACR2	Byte 2 storage allocation
	1... ..		TCTECSS	SEND SYNC data flow
	.1. ....		TCTECSA	SEND ASYNCH commands
	.1. ....		TCTECSC	SESSIONC
	...1 ....		TCTECSS	SEND response
	.... 1...		TCTECRS	RESETSR
	.... .1..		TCTEBYP	Delay ACTIVATE SCAN of TCTTE
	.... .1..		TCTECXA	EXIT added
	.... ..1		TCTECDT	DETACH
(1BA)	BITSTRING	1	TCTEACR3	Byte 3 Storage Allocation
	1... ..		TCTECOR	OPNDST
	.1. ....		TCTECCT	CLSDST
	.1. ....		TCTECTI	Automatic task initiate
	...1 ....		TCTECSL	SIMLOGON
	.... 1...		TCTECRY	RESYNCH
	.... .1..		TCTECEA	NACP
	.... .1..		TCTEDEL	AUTOINSTALL activate scan primed for delete
	.... ..1		TCTECKR	Send response to command
(1BB)	BITSTRING	1	TCTEACR4	Byte 4 Storage Allocation
	1... ..		TCTETRA	TRACE ENTRY required
	.1. ....		TCTESDL	SEND SYNC LUTYPE 6.2
	.1. ....		TCTERVL	RECEIVE SPEC LUTYPE 6.2
	...1 ....		TCTEXRC	XRF Session state analys.
	.... 1111		*	ZACT reserved
(1BC)	BITSTRING	1	TCTERIND	Internal error indicators
	1... ..		TCTERFB	VTAM FEEDBACK available
	.1. ....		TCTERLS	SEND required after LUS
	.1. ....		TCTERLR	RECEIVE required after LUS
	...1 ....		TCTESRV	REMEMBER user RECEIVE flag
	.... 1...		TCTECDH	HARD SIGNAL RCD received
	.... .1..		*	reserved
	.... .1..		TCTERDS	RECEIVE req'd after dvend
	.... ..1		TCTERDR	SEND required after dvend
(1BD)	BITSTRING	1	TCTEVPAC	V-PACING constant
(1BE)	BITSTRING	1	*	reserved
(1BF)	BITSTRING	1	TCTEVIR1	Byte 1 storage allocation
PACING AND RU COUNT BYTES				
VTAM INTERNAL REQUESTS				
for ZSDS ROUTINE				
	1... ..		TCTECHS	CHASE
	.1. ....		TCTECNCL	CANCEL
	.1. ....		TCTEQCM	QUIESCE complete
	...1 ....		TCTECBD	BID
	.... 1...		TCTELUS	Logical unit status
	.... .1..		TCTESXC	SEND COMMAND EXCEPTION
	.... .1..		TCTERTR	RTR
	.... ..1		TCTETBIS	BIS SEND REQUEST
(1C0)	BITSTRING	1	TCTEVIR2	Byte 2 storage allocation
	1... ..		TCTECLR	CLEAR
	.1. ....		TCTESDT	Start data traffic
	.1. ....		TCTESTSN	SET AND TEST sequence number
	...1 ....		TCTESNU	SEND zero data length
	.... 1...		TCTEDR2	DR2 requested
	.... .1..		TCTESAB	STAND ALONE BB required for 3270
	.... .1..		TCTEBSS	BEGIN BRACKET request
	.... ..1		TCTEESS	END BRACKET request
(1C1)	BITSTRING	1	TCTEVIR3	Byte 3 Storage Allocation
	1... ..		TCTERSP	RECEIVE SPECIFIC
	.1. ....		TCTEWDA	SEND DATA
	.1. ....		TCTESCM	SEND COMMAND
	...1 ....		TCTEORSP	SEND RESP type 0=+VE 1=-VE
	.... 1...		TCTEDCA	Change to CA mode
	.... .1..		TCTERAT	Read attention
	.... .1..		TCTECWT	CTYPE wait request
	.... ..1		TCTESXD	SEND DATA EXCEPTION
(1C2)	BITSTRING	1	TCTEVIR4	Byte 4 storage allocation
	1... ..		TCTECP	GETMAIN - RPL
	.1. ....		TCTECTA	GETMAIN - TIOA
	.1. ....		TCTECRAS	GETMAIN - RECEIVE ANY
	...1 ....		TCTEGNB	GETMAIN - NIB/BIND
	.... 1...		TCTEGBF	GETMAIN - BUFFLST
	.... .1..		TCTEGLC	GETMAIN - LUC control blocks
(1C3)	BITSTRING	1	TCTEVIR5	Byte 5 storage allocation
	1... ..		TCTERPL	FREEMAIN - RPL
	.1. ....		TCTECFA	FREEMAIN - all



Offset Hex	Type	Len	Name (Dim)	Description
	.1. ....		TCTECFS	FREEMAIN - specific
	...1 ....		TCTEFNB	FREEMAIN - NIB/BIND
	.... 1...		TCTEFBF	FREEMAIN - BUFFLST
	.... .1..		TCTEFLC	FREEMAIN - LUC control blocks
	.... .1..		TCTEFNL	FREEMAIN - EXTR'D LOGON data
	.... ...1		TCTEFRS	FREEMAIN - RPL specific
(1C4)	BITSTRING	1	TCTEVIR6	Byte 6 storage allocation
	1... ....		TCTECTS	Use symbol name for CLSDST
	.1.. ....		TCTECVI	IMMEDIATE availability
	...1 ....		TCTECVD	DEFERRED availability
	.... 1...		TCTEPAS	CLSDST pass
	.... .1..		TCTECVR	BID rejected
	.... .1..		TCTEBWD	BIDDING with data
	.... .1..		TCTEPRT	RTR SEND pending
	.... ...1		TCTESWT	XRF SWITCH required
(1C5)	BITSTRING	1	TCTERSRR	Byte 7 storage allocation
	11.. ....		TCTERCMO	CONTINUE mode
	..11 1...		*	
	.... .1..		TCTERUB	Reject RU until BB
	.... ..11		TCTERMOD	RECEIVE mode
SYSTEM SERVICE QUEUE FLAG				
(1C6)	BITSTRING	1	TCTEISSQ	Byte storage allocation
	1... ....		TCTESNQ	System error queue
	.1.. ....		*	Reserved
	...1 ....		*	Reserved
	.... 1...		TCTEOPQ	On Activate Process Queue
	.... .1..		*	
	.... .1..		*	
	.... ...1		*	
EMW REQUEST AND STATUS FLAGS				
(1C7)	BITSTRING	1	TCTEEMF	Byte Storage Allocation
	1... ....		TCTEPUR	PURGE request
	.1.. ....		TCTESEM	SEND MESSAGE request
	...1 ....		TCTESNR	SEND NEGATIVE response
	.... 1...		*	
	.... .1..		*	
	.... .1..		TCTEEMW	Error message writer active
	.... ...1		*	
RECEIVE flags				
(1C8)	BITSTRING	1	*	Byte storage allocation
	1... ....		TCTERVR	RECEIVE a response
	.1.. ....		TCTERVD	RECEIVE data
	...1 ....		TCTERBP	BID PURGE in progress
	.... 1...		TCTERRR	RECEIVE and PURGE ONE RU
	.... .1..		TCTEXSC	SDT after clear required
	.... .1..		TCTEXPU	XRF RECEIVE PURGE
	.... ...1		TCTEQRQ	QRI-type response is queued *
	.... ...1		TCTENRQ	NORMAL response is queued
(1C9)	BITSTRING	1	TCTEIXRP	XRF Flags
	1... ....		TCTEXNR	XRF Term not Recovered
	.1.. ....		TCTEXRM	XRF Recovery Msg reqd
	...1 ....		TCTEXRT	XRF Recovery Tranact reqd
	.... 1111		TCTEXPT	XRF Purge task
	.... 1...		TCTEXCC	Cleanup Action flags
	.... .1..		TCTEXNO	Cleanup Action is NONE
	.... .1..		TCTEXEB	Cleanup Action is SEND-EB
	.... .1..		TCTEXCL	Cleanup Action is CLEAR/SDT *
	.... ...1		TCTEXUB	Cleanup Action is UNBIND
ASYNCH REQUEST FLAGS for use BY ZSDA /ZSAX only				
(1CA)	BITSTRING	1	*	ASYNCHRONOUS request byte
	1... ....		*	
	.1.. ....		*	
	...1 ....		TCTERSH	Request SHUTDOWN
	.... 1...		TCTEESG	E-SIGNAL
	.... .1..		TCTETSBI	SBI SEND request
	.... .1..		TCTERLSQ	RELEASE QUIESCE
	.... ...1		TCTEQEOC	QUIESCE at end of chain
	.... ...1		TCTERSD	Request SHUTDOWN
(1CB)	BITSTRING	1	TCTELTEC	LOSTERM Error code
LRP REQUEST AND STATUS FLAGS				
(1CC)	BITSTRING	1	TCTELRPF	Byte Storage Allocation
	1... ....		TCTELRP	Logical REC PRESENTATION
	.1.. ....		TCTELRD	Deblock in progress
	...1 ....		TCTELRN	No delimiter in input unit
	.... 1...		*	
	.... .1..		TCTELRC	SAVE flag for EOC indicator
	.... .1..		TCTELRZ	SAVE flag for EODS indicator

Offset Hex	Type	Len	Name (Dim)	Description
VTAM PROCESS STATUS OPERATION IN PROGRESS				
(1CD)	BITSTRING	1	TCTEVTPS	Byte storage allocation
	1... ..		TCTECIP	COMMAND in progress
	.1. ....		TCTEDIP	DATA in progress
	.1. ....		TCTEAIP	ATI BID in progress
	...1 ....		TCTENIP	NACP in progress
	.... 1...		TCTERSI	RESYNCH/RECOVERY in progress
	.... .1..		TCTECAP	CHAIN ASSEMBLY in progress
	.... .1.		TCTERNW	INPUT JOURNAL required flag
	.... ...1		TCTECCV	1=TASK VIA AVAIL,0=VIA INPUT
(1CE)	BITSTRING	1	TCTEVOP2	Byte 2 Storage Allocation
	1... ..		TCTEDRQ	Data required after STAND ALONE FMH
	.1. ....		*	Reserved
	.1. ....		TCTEQE2	RESP + to REQ2 outstanding
	...1 ....		TCTENND	No normal data flow allowed
	.... 1...		TCTERAQ	READ-AHEAD QUEUEING required
	.... .1..		TCTERAD	READ-AHEAD DATA available
	.... .1.		TCTERAP	READ-AHEAD PURGE required
	.... ...1		TCTERVP	RECEIVE PURGE required
NODE SESSION STATUS				
(1CF)	BITSTRING	1	TCTEVTSS	Node session status one byte
	111. ....		TCTENIS	Node is now in session
	1... ..		TCTELOS	LOGGED on
	.1. ....		TCTEOPD	OPNDST
	.1. ....		TCTENSD	Start data traffic sent
	...1 ....		TCTESLP	SIMLOGON in progress
	.... 1...		TCTEREO	RESPONSE outstanding
	.... .1..		*	Reserved
	.... .1.		TCTESHP	SHUTDOWN sent by CICS
	.... ...1		TCTERELR	RELEASE request received
(1D0)	BITSTRING	1	TCTEVTS2	Node session status byte 2
	1... ..		TCTENQS	Node QUIESCED by CICS
	.1. ....		TCTEHQS	CICS QUIESCED by node
	.1. ....		TCTECSM	Mode (CS=X'20' CA= - X'20')
	...1 ....		TCTEOLD	OVERLENGTH data
	.... 1...		TCTEBPE	BRACKET PROTOCOL required
	.... .1..		TCTEERS	EMERGENCY restart
	.... .1.		TCTEPSA	PREVIOUS SESSION ABEND
	.... ...1		TCTERPR	RESYNCHRONIZATION required
SESSION CHARACTERISTICS				
(1D1)	BITSTRING	1	TCTEVISC	Byte storage allocation
	1... ..		TCTEERL	Eligible to be released
	.1. ....		TCTIQSL	SIMLOGON to be queued
	.1. ....		TCTEDRI	Eligible to be disconnected
	...1 ....		TCTEXCA	Current session is XRF-capable *
	.... 1...		TCTEXCM	EXC. RESP. Commands valid
	.... .1..		TCTEXRE	Take-over must reconnect by switch or BIND as appropriate *
	.... .1.		TCTEXCS	Last OPNDST was OPTCD=BACKUP *
	.... ...1		TCTECAR	Chain assembly requested by terminal
PENDING EVENT STATUS				
(1D2)	BITSTRING	1	TCTEVIPS	Byte storage allocation
	1... ..		TCTEORRN	Pending RRN response
	.1. ....		TCTEOFME	Pending FME response
	.1. ....		TCTEBNS	BIND TIME security undefined
	...1 ....		TCTEPRA	Awaiting POSITIVE response
	.... 1...		TCTEOEXM	Response (0=+VE &-VE 1=-VE)
	.... .1..		*	Reserved
	.... .1.		TCTEQRI	QRI type response
	.... ...1		TCTEDEF	DEFINITE response send in progress (was TCTEDRS)
(1D3)	BITSTRING	1	TCTEVIP2	Byte 2 storage allocation
	1... ..		TCTEWGS	Task Awaiting for INBOUND SIGNAL
	.1. ....		TCTELGX	LOGON EXIT in progress
	.1. ....		*	Reserved
	...1 ....		TCTECDS	CHANGE DIRECTION sent
	.... 1...		TCTECMT	RESPOND POSITIVE to SPR
	.... .1..		TCTESQA	Start task REQ no active request
	.... .1.		TCTESEO	EXCEPTION response outstanding
	.... ...1		TCTECDV	CHANGE DIRECTION save TIOA
BRACKET PROTOCOL STATUS				
(1D4)	BITSTRING	1	TCTEVBPS	Byte Storage Allocation
	1... ..		TCTEINB	In BRACKET state
	.1. ....		TCTEBBP	BEGIN BRACKET pending
	.1. ....		TCTEEEB	BB EB sent state
	...1 ....		TCTEBBS	BEGIN BRACKET sent
	.... 1...		TCTEEBS	END BRACKET sent
	.... .1..		TCTEBBR	BEGIN BRACKET received
	.... .1.		TCTEBBA	BEGIN BRACKET receive
	.... ...1		TCTEBTB	BETWEEN BRACKETS
EXTENDED BRACKET STATE FLAGS				

Offset Hex	Type	Len	Name (Dim)	Description
(1D5)	BITSTRING	1	*	
	1... ..		TCTERTP	RTR pending state
	.1. ....		TCTEBRT	BID TO BE RETRIED indicator
	..1. ....		TCTEBRP	BIDDING in progress
	...1 ....		TCTEBRS	REBID if necessary
	.... 1...		*	
	.... .1..		TCTEEBM	END BRACKET memory flag
	.... ..1		TCTEEBR	EB received
	.... ...1		TCTEBEB	BB EB received state
ZRAC flag byte				
(1D6)	BITSTRING	1	*	
	1... ..		TCTERNU	NULL RU / LUS 6 received
	.1. ....		TCTERCM	Command received
	..1. ....		TCTERDT	Data received
	...1 ....		TCTERRS	Response received
	.... 1...		TCTEBSC	BIND security complete
	.... .1..		TCTERAE	ZRAC to EXECUTE
	.... ..1		TCTERAN	ZRAC possibly to RUN
	.... ...1		TCTESKI	ZRAC to SKIP
TRANSMISSION PROTOCOL STATUS				
(1D7)	BITSTRING	1		
	1... ..		TCTEVTP	Byte storage allocation
	.1. ....		TCTESMP	SEND mode pending
	..1. ....		TCTEPRC	Processing chain state
	...1 ....		TCTESMA	SEND mode assumed
	.... 1...		TCTESMD	SEND mode
	.... .1..		TCTEECN	OUTBOUND processing chain state
	.... ..1		TCTEABD	ABNORMAL END condition
	.... ...1		TCTERMD	RECEIVE mode
			TCTECPG	CHAIN PURGED indicator
CLSDEST STATUS				
(1D8)	BITSTRING	1		
	1... ..		TCTECLST	CLSDEST status byte
	.1. ....		TCTESBIS	SBI sent
	..1. ....		TCTEMTO	TERM issued SHUTDOWN
	...1 ....		TCTEBISI	BIS SEND in progress
	.... 1...		TCTEFBIS	First BIS was sent by us
	.... .1..		*	
	.... ..1		TCTESBIR	SBI received
	.... ...1		TCTEBISS	BIS sent
			TCTEBISR	BIS received
SEND RESPONSE TO COMMAND REQUEST				
(1D9)	BITSTRING	1	*	
	1... ..		TCTEKNE	SEND NEGATIVE response
	.1. ....		TCTEKSD	SEND SDT response
	..1. ....		TCTEKBD	SEND BIND response
	...1 ....		TCTEKCA	SEND SMD response CA mode
	.... 1...		TCTEKST	SEND STSN response
	.... ..1		TCTESUS	Suspend activate scan
	.... ...1		TCTERMC	response to MIC sent
LUTYPE6.2 State Machines				
(1DA)	BITSTRING	1		CONVERSATION state machine
(1DB)	BITSTRING	1		BRACKET state machine
(1DC)	BITSTRING	1		CONTENTION state machine
(1DD)	BITSTRING	1		CHAIN state machine
(1DE)	BITSTRING	1		ACC FIELDS required
	1... ..		TCTEACC1	ACC field 1 required
	.1. ....		TCTEACC2	ACC field 2 required
	..1. ....		TCTEACC3	ACC field 3 required
	...1 ....		TCTEACC4	ACC field 4 required
	.... 1...		TCTEACC5	ACC field 5 required
	.... .1..		TCTEACC6	ACC field 6 required
	.... ..1		TCTEACC7	ACC field 7 required
	.... ...1		TCTEACC8	ACC field 8 required
The following byte is in the SAME format as the BIND RU				
(1DF)	CHARACTER	1		SPL,LU_SVC byte DEF
	1... ..		TCTESSPL	*
	.1. ....		TCTESP2	--- all
	..1. ....		TCTESP1	--- commit
	...1 ....		TCTERS1	--- restart supported
	.... 1...		*	SECONDARY REINIT
	.... .1..		*	PRIMARY REINIT
	.... ..1		TCTEPAR	PARALLEL SESSION
	.... ...1		TCTECNO	CNOS supported
(1E0)	BITSTRING	1		LUTYPE 6.2 MISCELLANY
	1... ..		TCTESBB	CURR BB SEQ NO = OURS
	.1. ....		TCTENIT	We Init'd session
	..1. ....		TCTEESR	ext. sec. recvd in BIND
	...1 ....		TCTENOB	No BB for this allocate
	.... 1...		*	
	.... .1..		*	
	.... ..1		TCTE_LR	Limited Resource

Offset Hex	Type	Len	Name (Dim)	Description
TCTE_TRACE_5_LEN End of TCTTE trace area 5				
The next byte is used to save pending User SYNCPT INFO				
(1E1)	BITSTRING	1	TCTEUSRV	TCTEUSRS pending info
(1E2)	UNSIGNED	1	TCTE_ZBAN_RESPONSE	Response for ZNAC msg
(1E3)	UNSIGNED	1	TCTE_ZBAN_REASON	Reason for ZNAC msg
(1E4)	ADDRESS	4	TCTTEMOD	-> Mode-entry
(1E4)	ADDRESS	4	TCTE_PREV_APPC_SURROG	Next PS APPC surrog
(1E8)	ADDRESS	4	TCTE_ACQUIRE_DATA	Acquire userdata
(1EC)	ADDRESS	4	TCTEBIMG	-> BIND-image
(1F0)	BITSTRING	1	*	Reserved
XRF Flags				
(1F1)	BITSTRING	1	*	
	1... ..		TCTEXON	No tracking
	.1. ....		TCTEXOD	Cleanup : Send END BRACKET *
	..1. ....		TCTEXOC	Cleanup : Issue CLEAR cmd
	...1 ....		TCTEXOR	Cleanup : UNBIND session
	.... 1...		TCTEXOT	Unconditional UNBIND
	.... .1.		TCTEXNN	RecovNotify = None
	.... ..1.		TCTEXNM	RecovNotify = Message
	.... ...1		TCTEXNT	RecovNotify = Transaction
XRF Flags, gathered up from other areas				
(1F2)	BITSTRING	1	*	Misc XRF Bits
	1... ..		TCTEXNG	NETNAME removed from TMP
	.1. ....		TCTEXSB	OPNDST is to be STANDBY
	..1. ....		TCTEXSW	XRF Analyse R(Switch)
	...1 ....		TCTEXNC	XRF ZNAC Recovery Process
	.... 1...		*	Reserved
	.... .1.		*	Reserved
	.... ..1.		TCTEXS1	Takeover signon flag OFF = NOFORCE, ON = FORCE
	.... ...1		TCTEXRO	XRF - Override XRF capable if set to 1 it stops the XRF vector being created subsequent to the logon exit.
TCTE ACQUIRE OPTIONS				
(1F3)	BITSTRING	1	TCTE_ACQUIRE_OPTIONS	Acquire options
	1... ..		TCTE_SIMLOG_RQD	SIMLOGON reqs
	.1. ....		TCTE_QALL_RQD	QALL option
	..1. ....		TCTE_QSESSLIM_RQD	QSESSLIM option
	...1 ....		TCTE_QNOTENAB_RQD	QNOTENAB OPTION
	.... 1...		TCTE_RELREQ_RQD	RELREQ option
	.... .111		*	Reserved
SESSION FUNCTIONS DEFINITION				
(1F4)	FULLWORD	4	*	Ensure alignment
(1F4)	BITSTRING	1	TCTETSPB	Terminal session pool byte
	1... ..		TCTEXSL	Standby LOGON pending
	.1. ....		TCTESPLI	Pool/session leader
	..1. ....		TCTETPSI	Session terminal indicator
#				<b>APAR PQ27379</b>
#				added TCTECLE
#	...1 ....		TCTECLE	CLSDST cleanup ended and AILDELAY in use
	.... 1...		TCTEPTI	Pool terminal indicator
	.... ..1.		TCTEXSN	Standby session counted
(1F5)	BITSTRING	1	*	
	1... ..		TCTEPTBI	Indicator
	.1. ....		TCTEPRQ	PROGRAM request indicator
	..1. ....		TCTEOWCI	ON WRITE COMPLETEDIND.
	...1 ....		TCTENCD	CD NOT REQUIRED
	.... 1...		TCTE_ZCNIBISC	Nib gotten from ZCNIBISC
	.... ..1.		TCTERLM	Resume after LUSTAT
#				<b>APAR PQ23372</b>
#				added TCTE_REM_EOD and TCTE_REM_FRI
#	.... ..1.		TCTE_REM_EOD	Remember no EOD support
#	.... ...1		TCTE_REM_FRI	Remember no FMH required
(1F6)	BITSTRING	1	TCTESFFB	Session feature flag byte
	1... ..		TCTECSNI	CSSN feature indicator
	.1. ....		TCTEFUP	Pass FMH to User
	..1. ....		TCTESNS	SIMLOGON INVALID indicator
	...1 ....		TCTELIRI	LUSTATUS sent after IR
	.... 1...		TCTEVTSI	VTAM supported 3270 indicator
	.... ..1.		TCTECPMI	3270 COMPATIBILITY mode IND
	.... ...1		TCTEGMMI	GOOD MORNING message required
	.... ...1		TCTERYCF	RECOVERY requires CLSDST
(1F7)	BITSTRING	1	*	Session function definition
	1... ..		TCTECSRI	COLD START request indicator
	.1. ....		TCTEEOB	No EOD support indicator
	..1. ....		TCTENOCI	No output chain support IND

Offset Hex	Type	Len	Name (Dim)	Description
	.... ....		TCTENASI	No ATI support terminal
	.... 1...		TCTENFRI	No FMH required indicator
	.... .1..		TCTENFSI	No FMH support terminal
	.... ..1.		TCTESEB	END BRACKET on every write
	.... ....1		TCTESDA	CONTINUE ANY on every write
(1F8)	BITSTRING	1	TCTESD2	Byte Storage Allocation
	1... ....		TCTESDBP	HALF-DUPLEX FLIP-FLOP
	.1.. ....		TCTESDEM	EMW - type session
	.1. ....		TCTESDL	LDC - type session
	...1 ....		TCTENQCI	No QEC supported on output
	.... 1...		TCTESDED	SEND EB with DEFINITE response required
	.... ..1.		TCTESDIS	INBOUND SIGNAL supported
	.... ..1.		TCTESBDI	LONG TYPE1 FMH supported
	.... ....1		TCTETRC	Trace ACTIVATE SCAN
(1F9)	BITSTRING	1	TCTESD3	Byte Storage Allocation
	1... ....		TCTES2EB	SECONDARY can SEND EB
	.1.. ....		TCTESRPI	SENDER ERP RESPONSIBILITY
	.1. ....		TCTESBIF	SBI/BIS supported
	...1 ....		TCTEFNSP	SPR supported
	.... 1...		TCTEFNPR	PREPARE supported
	.... ..1.		TCTEFLUS	LUSTAT SENDING supported
	.... ..1.		TCTEFST	FAST PATH session
	.... ....1		TCTENCK	BB,EB supported
(1FA)	CHARACTER	2	TCTEINSH	.
(1FA)	BITSTRING	1	TCTESD4	Byte Storage Allocation
	1... ....		TCTENDT	No SDT supported
	.1.. ....		TCTENSH	No SHUTD support
	.1. ....		TCTEQRS	QRI response supported
	...1 ....		TCTECDX	SEND CD with RQE
	.... 1...		TCTEBID	NULL RU with BB = BID
	.... ..1.		TCTESDN	SIGNAL will drive NACP
	.... ..1.		TCTEESC	Enforce HARD SIGNAL RCD
	.... ....1		TCTECON	Contention logical unit
(1FB)	BITSTRING	1	TCTESD5	Byte Storage Allocation
	1... ....		TCTERIB	RESET state is INB
	.1.. ....		TCTEPSS	PRIMARY SEND state at session initiation
	.1. ....		TCTEL06	NULL RU = LUSTAT 0006
	...1 ....		TCTESQI	QRI supported
	.... 1...		TCTEL07	LUSTAT 0007 not THR ZNAC
	.... ..1.		*	
	.... ..11		TCTESTL	SECONDARY RECEIVE STACK where B'00' = 1-Level where B'01' = 2-Level where B'10' is Reserved where B'11' = 3-level
(1FC)	BITSTRING	1	*	byte storage allocation
	1... ....		TCTEEBX	EB DEFINITE if OUTSTAND REQ
	.1.. ....		TCTERIR	CICS responsible for reinitiation
	.1. ....		TCTERIN	CICS may not Reinitiate
	...1 ....		TCTESTR	Do not send RTR
	.... 1...		TCTERIS	Re-initiate pending
	.... ..1.		TCTENBK	Bracket(No)
(1FD)	BITSTRING	1	TCTELSB	LU-type subsetting flags B *
	1... ....		TCTELS25	LU-type subsetting bit 25
	.1.. ....		TCTELS26	LU-type subsetting bit 26
	.1. ....		TCTELS27	LU-type subsetting bit 27
	...1 ....		TCTELS28	LU-type subsetting bit 28
	.... 1...		TCTELS29	LU-type subsetting bit 29
	.... ..1.		TCTELS30	LU-type subsetting bit 30
	.... ..1.		TCTELS31	LU-type subsetting bit 31
	.... ....1		TCTELS32	LU-type subsetting bit 32
(1FE)	BITSTRING	1	TCTECACT	In transmission
(1FF)	BITSTRING	1	TCTECLIM	Transmission
(200)	ADDRESS	4	TCTESPPA	Session pool address
(200)	ADDRESS	4	TCTETPPA	Terminal pool address
VTAM 3270 CONTROL INFORMATION				
(204)	BITSTRING	1	*	Byte storage allocation
	1... ....		TCTEEXI	EXCEPTIONAL input received
	.1.. ....		TCTEXIP	EXCEPTIONAL input program in progress
	.1. ....		TCTEPRP	PRINT command in progress
	...1 ....		TCTEINT	INTERVENTION required
	.... 1...		TCTERRT	RESTORE read with TEXT
	.... ..1.		TCTERRI	RESTORE read indicator
	.... ..1.		TCTECPY	PRINTTO=(X,COPY)
	.... ....1		TCTECPA	ALTPRT=(X,COPY)
MISCELLANEOUS control information.				
(205)	BITSTRING	1	*	
	1... ....		TCTEHOR	Handling own errors
	.1.. ....		TCTEWP	BMS input passthrough
	.1. ....		TCTERED	EDS FMH received
	...1 ....		TCTEF12	Awaiting receipt of FMH 12
	.... 1...		TCTEDLG	LOGON with OPNDST active
	.... ..1.		TCTETIA	Send buffer is a TIOA
	.... ..1.		TCTEBIR	BIND received
	.... ....1		TCTEUBR	UNBIND received
Persistent Sessions State machine - see constants for values				

Offset Hex	Type	Len	Name (Dim)	Description
(206)	BITSTRING	1	TCTE_PRSS	Persistent Sessions State
Generic resource flags				
(207)	BITSTRING 1... ..	1	TCTE_GR_FLAGS TCTE_GR_LOGGEDON_ BY_MEMBERNAME	Generic Resource flags  terminal used member name to log on
Correlation ID The correlation ID for non-LUC terminals is as follows The correlation ID for LUC terminals is contained in the LUC extension				
(208)	CHARACTER	8	TCTECORR	Correlation ID
TCTTENNM is used during deletion of an autoinstalled terminal to hold the Terminal Netname. The field is set in DFHBSTZV prior to Freemaining the NIB, and used in DFHBSSUB during Statistics collection.				
(208)	CHARACTER	8	TCTTENNM	Netname Copy
(210)	CHARACTER	8	TCTTETIM	STCK logon time
(218)	ADDRESS	4	TCTEBFLA	VTAM buffer list address
(21C)	ADDRESS	4	TCTE_PRSS_ CV29_PTR	Last PRSS flows etc
(220)	ADDRESS	4	TCTELUCX	A(TCTTE LUC Extension)
(220)	CHARACTER		TCTEPIPE	PIPELINE overlay
(224)	CHARACTER		TCTESESS	Session overlay
VTAM 3270 SYSTEM AREA EXISTS only for VTAM 3270 and 3270 COMPATIBILITY mode				
(224)	CHARACTER	4	TCTEPTO	PRINTTO name
(228)	CHARACTER	4	TCTEAPT	ALTPRT name
(22C)	ADDRESS	4	TCTEFRM	Source-terminal address for copy
PRINTER and Alternate Printer Netnames for VTAM 3270				
(230)	CHARACTER	8	TCTEPNET	Printer Netname
(238)	CHARACTER	8	TCTEANET	Alternate Printer Netname
Length of ZC Terminals				
(240)	CHARACTER		TCTEGET1	Length for ZC terminals
(240)	CHARACTER		TCTEGET2	Length for ZC terminals

-

Declarations for the use of Communications Recovery Services.

These definitions become part of TCTTE Storage.

-

Recovery Manager Connection Storage common to all session types.

-

The following pieces of state are associated with the DFHCRESI service to add and set links as recovery necessary/unnecessary, and are common to MRO and LU6.X access methods.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	10	DFHCRESI_STATE	
-				
This is the token returned by ADD_ LINK, and represents &rm.'s link state. It is supplied to &rm. on subsequent calls.				
(0)	BITSTRING	4	CR_CURRENT_LINK	

Offset Hex	Type	Len	Name (Dim)	Description
(4)	BITSTRING	4	CR_PENDING_LINK	
(8)	1... .. .111 1111		CR_FORGET_NEEDED *	

This field is used to keep &rm.'s token for a link which we have deleted but not forgotten (ie. the conversation has gone out of bracket, but the implicit forget flow has not been received yet).

In addition to this field, there is a flag to indicate that we have set FORGET(NO) in response to PERFORM\_ COMMIT, and are therefore obliged to inform &rm. that he can forget the link status on the next inbound flow (or that he must remember the link status if the session is lost).

(9)	UNSIGNED	1	CR_PEND_ RECOVERY_STATUS	
-----	----------	---	--------------------------	--

The PENDING mechanism for adding/setting links is managed by a new piece of state, CR\_PEND\_ RECOVERY\_ STATUS, associated with the session.

--  
-

The Logname is required whenever a session is registered with RM via the ADD LINK function.

Initialised by Exchange lognames before use.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	9	RMC_COMMON_LOGNAME	
(0)	CHARACTER	9	CR_LOGNAME	
(0)	UNSIGNED	1	CR_LOGNAME_LEN	
(1)	CHARACTER	8	CR_LOGNAME_DATA	

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-

State remembered between back-to-front calls.

Owned by Unit of work processors.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	1	REMEMBERED_STATE	
	1... ..		CR_2PC_SESS_FAIL	sess fail sending Prepare SPR
	.1.. ..		CR_SHUNT_RECEIVED	
	..1. ....		CR_ABORT_RECEIVED	
	...1 ....		CR_ABORT_FORBIDDEN	

--

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	20	RMC_COMMON	
(0)	STRUCTURE	10	*	
	IsA(DFHCRESI_STATE)			
(0)	BITSTRING	4	CR_CURRENT_LINK	
(4)	BITSTRING	4	CR_PENDING_LINK	
(8)	1... ..		CR_FORGET_NEEDED	

Offset Hex	Type	Len	Name (Dim)	Description
(9)	.111 1111 UNSIGNED	1	* CR_PEND_ RECOVERY_STATUS	
(A)	STRUCTURE IsA(RMC_COMMON_LOGNAME)	9	* CR_LOGNAME	
(A)	CHARACTER	9	CR_LOGNAME_LEN	
(A)	UNSIGNED	1	CR_LOGNAME_DATA	
(B)	CHARACTER	8		
(13)	STRUCTURE IsA(REMEMBERED_STATE)	1	* 1... .. .1.. .. ..1. .... ...1 .....	sess fail sending Prepare SPR CR_2PC_SESS_FAIL CR_SHUNT_RECEIVED CR_ABORT_RECEIVED CR_ABORT_FORBIDDEN

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IRC (talking to old systems, using sequence number recovery) and LU6.1.  
  
-  
  
Jointly owned by LU6.1 and IRC sequence number logic code.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	9	SEQUENCE_NUMBERS	
(0)	CHARACTER	8	CR_SEQ_NOS	
(0)	CHARACTER	4	CR_BACKOUT_SEQ_NOS	
(0)	HALFWORD	2	CR_BACKOUT_SEQ_INPUT	
(2)	HALFWORD	2	CR_BACKOUT_SEQ_OUTPUT	
(4)	CHARACTER	4	CR_COMMIT_SEQ_NOS	
(4)	HALFWORD	2	CR_COMMIT_SEQ_INPUT	
(6)	HALFWORD	2	CR_COMMIT_SEQ_OUTPUT	
(8)	11.. ....		CR_UOW_DISPOSITION	NOTE - MUST be 1st 2 bits of byte for ASM

--

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	9	RMC_SHARED_IRC61	
(0)	STRUCTURE IsA(SEQUENCE_NUMBERS)	9	* CR_SEQ_NOS	
(0)	CHARACTER	8	CR_BACKOUT_SEQ_NOS	
(0)	CHARACTER	4	CR_BACKOUT_SEQ_INPUT	
(0)	HALFWORD	2	CR_BACKOUT_SEQ_OUTPUT	
(2)	HALFWORD	2	CR_COMMIT_SEQ_NOS	
(4)	CHARACTER	4	CR_COMMIT_SEQ_INPUT	
(4)	HALFWORD	2	CR_COMMIT_SEQ_OUTPUT	
(6)	HALFWORD	2	CR_UOW_DISPOSITION	
(8)	11.. ....		CR_UOW_DISPOSITION	NOTE - MUST be 1st 2 bits of byte for ASM



```
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-
LU6.2 and IRC using RM services for recovery.
-
Owned by Exchange lognames process.
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE 1... ..	1	RECOVERY_PROTOCOL CR_PROTOCOL	

```
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-
IRC partner may be 5.1 or pre-5.1. If the latter, then resync has
to be performed using sequence numbers. If the former, resync is
enhanced to use the same algorithms as LU6.2.
Owned by IRC bind logic.
LU6.2 partner may be 5.1 or pre-5.1. If the latter then the new
protocols are not supported.
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE 11.. ..	1	RESYNC_TYPE CR_RESYNC_TYPE	What resync type is partner?

```
--
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	2	RMC_SHARED_IRC62	
(0)	STRUCTURE IsA(RESYNC_TYPE) 11.. ..	1	* CR_RESYNC_TYPE	What resync type is partner?
(1)	STRUCTURE IsA(RECOVERY_PROTOCOL) 1... ..	1	* CR_PROTOCOL	

```
--
-
LU6.1 and LU6.2 - no shared state. This type is not used, but is
here for the sake of completeness.
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE		RMC_SHARED_LU6162	
(0)	BITSTRING		*	

```
--
-

IRC specific fields

-

MRO bind process. Conversation position and logging.

Owned by IRC bind logic.
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	1	IRC_BIND_STATE	Which conversation leg is it? NOTE- leg num must be first 3 bits of byte Is bind logging done yet?
	111. ....		CR_BIND_LEG_NUM	
	...1 ....		CR_BIND_LOGGING	

```
--
-

This field is used to hold the conversation correlator temporarily. The conversation correlator is received on an FMH5 and is logged by RM for use by RMC during resync. It is presented to RM as an Add_link in DFHZSUP, but is extracted from the FMH5 along with the UOW in DFHZATT. This field is used to transfer the value between the two modules.

NOTE: For LU6.2 a field exists in the LUC extension.

Owned by resync processing
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	5	IRC_CONV_CORRELATOR	
(0)	UNSIGNED	1	CR_CONV_CORRELATOR_LEN	
(1)	CHARACTER	4	CR_CONV_CORRELATOR	

```
--
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	6	RMC_IRC_SPECIFIC	Which conversation leg is it? NOTE- leg num must be first 3 bits of byte Is bind logging done yet?
(0)	STRUCTURE	1	*	
	IsA(IRC_BIND_STATE)		CR_BIND_LEG_NUM CR_BIND_LOGGING	
(1)	STRUCTURE	5	*	
	IsA(IRC_CONV_CORRELATOR)		CR_CONV_CORRELATOR_LEN	
(1)	UNSIGNED	1	CR_CONV_CORRELATOR	
(2)	CHARACTER	4	CR_CONV_CORRELATOR	

```
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-

Reliability of partner - indicated on inbound request commit for Presumed Abort partners.

CICS ALWAYS VOTES RELIABLE.

Owned by Unit of work processors.
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	1	PA_RELIABILITY CR_RELIABILITY_VOTE	Determined by inbound. rqc
	1... ..			

--

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	1	RMC_LU62_SPECIFIC	Determined by inbound. rqc
(0)	STRUCTURE	1	*	
	IsA(PA_RELIABILITY) 1... ..		CR_RELIABILITY_VOTE	

-

The LU6.1 Specific state comprises state which is relevant to Syncpoint, and state which is relevant to Resync.

-

Owned by Lu6.1 Syncpoint process. This state indicates that the current inbound flow contains a PREPARE or SPR flow. It is reset as soon as the information has been imparted to Recovery Manager.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	1	LU61_SYNCPOINT_ CONTROL	
	1... ..		CR_LU61_ INBOUND_PREPARE	
	.1.. ..		CR_LU61_INBOUND_SPR	

--

-

Owned by Lu6.1 Resync process.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	1	LU61_RESYNC_CONTROL	
	1... ..		CR_LU61_ RESYNC_REQUIRED	
	.1.. ..		CR_LU61_PARTNER_COLD	
	.1. ....		CR_LU61_RESYNC_DONE	
	...1 ..		CR_LU61_SECOND_ STSN_EXPECTED	

--

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	2	RMC_LU61_SPECIFIC	
(0)	STRUCTURE	1	*	
	IsA(LU61_SYNCPOINT_CONTROL)			
	1... ..		CR_LU61_ INBOUND_PREPARE	
	.1.. ..		CR_LU61_INBOUND_SPR	
(1)	STRUCTURE	1	*	
	IsA(LU61_RESYNC_CONTROL)			
	1... ..		CR_LU61_ RESYNC_REQUIRED	

Offset Hex	Type	Len	Name (Dim)	Description
.1.. ....			CR_LU61_ PARTNER_COLD	
..1. ....			CR_LU61_ RESYNC_DONE	
...1 ....			CR_LU61_ SECOND_ STSN_EXPECTED	

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-

Session types are constructed from the components, and collected together based on access method to produce three types. The aggregate types is based on an area reserved for it in the TCTTE.

The storage is composed of three physical parts, defined to allow sharing of state between PLX and Assembler modules in existing code.

- Access method independent
- Used by combinations, but not all access methods, eg IRC and LU6.2. There are theoretically three subsections, but LU6.2 and LU6.1 have nothing in common.
- Used by One access method only; one of three methods. This last part is an overlay based on the end of the preceding sections.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	31	RMC_SHARED	
(0)	STRUCTURE	20	*	
	IsA(RMC_COMMON)			
(0)	CHARACTER	10	*	
(0)	BITSTRING	4	CR_CURRENT_LINK	
(4)	BITSTRING	4	CR_PENDING_LINK	
(8)	1... ....		CR_FORGET_NEEDED	
	.111 1111		*	
(9)	UNSIGNED	1	CR_PEND_ RECOVERY_STATUS	
(A)	CHARACTER	9	*	
(A)	CHARACTER	9	CR_LOGNAME	
(A)	UNSIGNED	1	CR_LOGNAME_LEN	
(B)	CHARACTER	8	CR_LOGNAME_DATA	
(13)	CHARACTER	1	*	
	1... ....		CR_2PC_SESS_FAIL	sess fail sending Prepare SPR
	.1.. ....		CR_SHUNT_RECEIVED	
	..1. ....		CR_ABORT_RECEIVED	
	...1 ....		CR_ABORT_FORBIDDEN	
(14)	STRUCTURE	9	*	
	IsA(RMC_SHARED_IRC61)			
(14)	CHARACTER	9	*	
(14)	CHARACTER	8	CR_SEQ_NOS	
(14)	CHARACTER	4	CR_BACKOUT_SEQ_NOS	
(14)	HALFWORD	2	CR_BACKOUT_SEQ_INPUT	
(16)	HALFWORD	2	CR_BACKOUT_SEQ_OUTPUT	
(18)	CHARACTER	4	CR_COMMIT_SEQ_NOS	
(18)	HALFWORD	2	CR_COMMIT_SEQ_INPUT	
(1A)	HALFWORD	2	CR_COMMIT_SEQ_OUTPUT	
(1C)	11.. ....		CR_UOW_DISPOSITION	
(1D)	STRUCTURE	2	*	NOTE - MUST be 1st 2 bits of byte for ASM
	IsA(RMC_SHARED_IRC62)			
(1D)	CHARACTER	1	*	
	11.. ....		CR_RESYNC_TYPE	What resync type is partner?
(1E)	CHARACTER	1	*	
	1... ....		CR_PROTOCOL	

Overlay part of the TCTTE with the three session types.  
NB. This code is shared assembler code and matches corresponding assembler DSECTS.

Offset Hex	Type	Len	Name (Dim)	Description
(138)	STRUCTURE	31	CR_COMMON	
(138)	STRUCTURE	31	*	
(138)	CHARACTER	20	*	
(138)	CHARACTER	10	*	
(138)	BITSTRING	4	CR_CURRENT_LINK	
(13C)	BITSTRING	4	CR_PENDING_LINK	
(140)	1... ..		CR_FORGET_NEEDED	
	.111 1111		*	
(141)	UNSIGNED	1	CR_PEND_	
			RECOVERY_STATUS	
(142)	CHARACTER	9	*	
(142)	CHARACTER	9	CR_LOGNAME	
(142)	UNSIGNED	1	CR_LOGNAME_LEN	
(143)	CHARACTER	8	CR_LOGNAME_DATA	
(14B)	CHARACTER	1	*	
	1... ..		CR_2PC_SESS_FAIL	sess fail sending Prepare SPR
	.1.. ..		CR_SHUNT_RECEIVED	
	..1. ....		CR_ABORT_RECEIVED	
	...1 .....		CR_ABORT_	
			FORBIDDEN	
(14C)	CHARACTER	9	*	
(14C)	CHARACTER	9	*	
(14C)	CHARACTER	8	CR_SEQ_NOS	
(14C)	CHARACTER	4	CR_BACKOUT_	
			SEQ_NOS	
(14C)	HALFWORD	2	CR_BACKOUT_	
			SEQ_INPUT	
(14E)	HALFWORD	2	CR_BACKOUT_	
			SEQ_OUTPUT	
(150)	CHARACTER	4	CR_COMMIT_	
			SEQ_NOS	
(150)	HALFWORD	2	CR_COMMIT_	
			SEQ_INPUT	
(152)	HALFWORD	2	CR_COMMIT_	
			SEQ_OUTPUT	
(154)	11.. ....		CR_UOW_DISPOSITION	NOTE - MUST be 1st 2 bits of byte for ASM
(155)	CHARACTER	2	*	
(155)	CHARACTER	1	*	
	11.. ....		CR_RESYNC_TYPE	What resync type is partner?
(156)	CHARACTER	1	*	
	1... ..		CR_PROTOCOL	

Offset Hex	Type	Len	Name (Dim)	Description
(158)	STRUCTURE	1	CR_LU62	
(158)	STRUCTURE	1	*	
	IsA(RMC_LU62_SPECIFIC)			
(158)	CHARACTER	1	*	
	1... ..		CR_RELIABILITY_VOTE	Determined by inbound. rqc

Offset Hex	Type	Len	Name (Dim)	Description
(158)	STRUCTURE	2	CR_LU61	
(158)	STRUCTURE	2	*	
	IsA(RMC_LU61_SPECIFIC)			
(158)	CHARACTER	1	*	
	1... ..		CR_LU61_	
			INBOUND_PREPARE	
	.1.. ....		CR_LU61_	
			INBOUND_SPR	
(159)	CHARACTER	1	*	
	1... ..		CR_LU61_	
			RESYNC_REQUIRED	
	.1.. ....		CR_LU61_	
			PARTNER_COLD	
	..1. ....		CR_LU61_	
			RESYNC_DONE	
	...1 .....		CR_LU61_SECOND_	
			STSN_EXPECTED	

Offset Hex	Type	Len	Name (Dim)	Description
(158)	STRUCTURE	6	CR_IRC	
(158)	STRUCTURE	6	*	
	IsA(RMC_IRC_SPECIFIC)			
(158)	CHARACTER	1	*	

Offset Hex	Type	Len	Name (Dim)	Description
	111. ....		CR_BIND_ LEG_NUM	Which conversation leg is it? NOTE- leg num must be first 3 bits of byte
	...1 ....		CR_BIND_ LOGGING	
(159)	CHARACTER	5	*	Is bind logging done yet?
(159)	UNSIGNED	1	CR_CONV_	
(15A)	CHARACTER	4	CORRELATOR_LEN	
			CR_CONV_	
			CORRELATOR	

PIPELINE POOL ENTRIES (TCTEPTI) OVERLAY

Offset Hex	Type	Len	Name (Dim)	Description
(220)	STRUCTURE	12	*	Pipeline specific data
(220)	ADDRESS	4	TCTEPLCH	Pipeline pool chain if leader * and 3650 pipeline Session
(224)	CHARACTER		TCTEGET9	Length of pipeline term
(224)	CHARACTER	8	TCTEPLID	Poolid if pool-entry leader *
(224)	ADDRESS	4	TCTEPLLP	-> Pool-entry leader
(228)	FULLWORD	4	TCTEPLEI	pool entry id for catlog
(22C)	CHARACTER		TCTEGET8	L(pipeline pool chain)
(22C)	CHARACTER		TCTEGET7	Length for pipeline pool

Session Overlay Area (non-pipeline)

Offset Hex	Type	Len	Name (Dim)	Description
(224)	STRUCTURE	4	*	session data
(224)	ADDRESS	4	TCTEPREV	Previous TCTTE
(228)	CHARACTER		TCTEGET3	Length for LUC Session

IRC Overlay area

Offset Hex	Type	Len	Name (Dim)	Description
(170)	STRUCTURE	110	*	OVERLAY access method-specific IRC Overlay area
(170)	CHARACTER	3	TCTESRHI	INBOUND request header
(170)	CHARACTER	1	TCTESRI1	1st byte
	1... ....		TCTESRSP	=1 for RESPONSE =0 for REQUEST
	.1. ....		TCTESDFC	=1 for data flow control header
	.1. ....		*	
	...1 ....		*	
	.... 1...		TCTESFI	Format IND. =1 if FMH present
	.... .1..		TCTESSDI	=1 when sense data present
(171)	CHARACTER	1	TCTESRI2	2nd byte
	1... ....		TCTESDR1	DEFINITE response 1
	.1. ....		*	
	.1. ....		TCTESDR2	DEFINITE response 2
	...1 ....		TCTESERI	EXCEPTION response
	...1 ....		TCTESRTI	0= for +VE response,1= for -VE
(172)	CHARACTER	1	TCTESRI3	M-M BRACKET byte
	1... ....		TCTESBBI	BEGIN BRACKET indicator
	.1. ....		TCTESEBI	END BRACKET indicator
	.1. ....		TCTESCDI	CHANGE DIRECTION indicator
(173)	CHARACTER	3	TCTESRHO	OUTBOUND request header
(173)	CHARACTER	1	TCTESRO1	1st byte. Bits as TCTESRI1
(174)	CHARACTER	1	TCTESRO2	2ND byte. Bits as TCTESRI2
(175)	CHARACTER	1	TCTESRO3	3RD byte. Bits as TCTESRI3
(176)	HALFWORD	2	*	Reserved
(178)	BITSTRING	1	TCTESRQ	IRC request flags
	1... ....		TCTESQWR	WRITE request
	.1. ....		TCTESQSY	WAIT request
	.1. ....		TCTESQRD	READ request
	...1 ....		*	
	.... 1...		*	
	.... .1..		TCTESQSG	Segmented data
	.... .1.		TCTESQAT	ATTACH
	.... ...1		TCTESQWP	WRITE pending
(179)	BITSTRING	1	*	Misc. IRC flags
	1... ....		TCTE_USE_ MRO_BITMAP	
(17A)	BITSTRING	1	TCTESBRS	Session name in BITMAP BRACKET status byte

Offset Hex	Type	Len	Name (Dim)	Description
(17B)	BITSTRING	1	*	Reserved
(17C)	CHARACTER	4	TCTE_SERVICE_REPORTING_CLASS	
(180)	FULLWORD	4	TCTETHNO	Workload manager monitoring field
(184)	FULLWORD	4	TCTETHID	THREAD NO. for IRC SVC
(188)	ADDRESS	4	TCTESCCB	THREAD ID for IRC SVC
(18C)	CHARACTER	4	TCTEIRDA	Address of SCCB for THREAD
(18C)	ADDRESS	4	TCTEIRRA	data for switch
(190)	FULLWORD	4	TCTEIRRL	Address of RH
(194)	ADDRESS	4	TCTEIRTA	Length of RH
(198)	FULLWORD	4	TCTEIRTL	Address of LU6.2 FMH
(19C)	ADDRESS	4	TCTEIRFA	Length of LU6.2 FMH
(1A0)	FULLWORD	4	TCTEIRFL	Address of FMH
(1A4)	FULLWORD	4	TCTEIRTT	Length of FMH
(1A8)	CHARACTER	4	TCTEIRFS	OTHER-system LEVEL-indicator *
(1A8)	BITSTRING	1	TCTEIRF1	Flags bytes
			TCTEIRGI	Flag byte one
			TCTEIRSR	GET DATA ALREADY issued
			TCTEIRWL	SESSION RECOVERY performed
			TCTEIRJL	Have issued write last
			TCTEIRCO	JUST allocated
			TCTEIRDP	Control on other side
			TCTEIRUT	Data to be processed
			TCTEIRAO	Tell IOR to use TIOA
(1A9)	BITSTRING	1	TCTEIRF2	AVAIL outstanding
			TCTEIRCD	Flag byte two
			TCTEIRXM	CD on this side
			TCTEIRAA	CROSS-MEMORY in use
			TCTEIRDL	CRNP ATTACH SEC check failed *
			TCTERRSS	WRITE LAST issued but EB deferred *
(1AA)	CHARACTER	2	*	Transactional EXCI suppt
(1AC)	ADDRESS	4	TCTEURAD	Reserved
(1B0)	BITSTRING	1	TCTEIRST	MVS UR address
			TCTEIRBN	BIN status
			*	Reserved
			TCTE_IR_INIT_NEEDED	EXCI session
			TCTE_IR_BIND_NEEDED	RESERVED for TRANS. EXCI
(1B1)	CHARACTER		TCTEGET4	UR client INIT needed
				UR client BIND needed
				Length for IRC Conv.
LUWID, in the FORM of LL00ID (for possible WTO)				
(1B1)	CHARACTER	1	*	Reserved
(1B2)	HALFWORD	2	TCTESLWN	LTH of LUW ID + 4
(1B4)	HALFWORD	2	TCTESL00	ZEROS
(1B6)	CHARACTER	35	TCTESLWD	LUWID
(1D9)	CHARACTER	5	TCTEDLAB	DL/I ABEND code
(1DE)	CHARACTER		TCTEGET5	Length for IRC Batch

DESCRIPTIVE NAME = Terminal Control Table System Entry  
 PRODUCT-SENSITIVE PROGRAMMING INTERFACE.  
 The following fields form part of the Product-Sensitive Programming Interface  
 TCSACCM TCSELUC TCSESID TCSESKA TCSESUR TCSETYPE

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	192	DFHTCTSE	
(0)	CHARACTER	8	*	
AID CHAIN HEADER FIELDS				
(8)	ADDRESS	4	TCSEDAID	Pointer to dummy AID
The following fields form part of a dummy AID which acts as the anchor for this TCTSE's AID chain. The only fields which actually exist in this dummy AID are the forward and backward chain pointers. The dummy AID forward pointer points to the first AID on the chain. The dummy AID backward pointer points to the last AID on the chain. The first AID's backward pointer points to the dummy AID. The last AID's forward pointer points to the dummy AID. If the chain is empty, the dummy AID forward and backward pointers both point to the dummy AID itself. Field TCSEDAID points to the notional start of the dummy AID.				
(C)	ADDRESS	4	TCSESUSF	FORWARD AID chain.
(10)	ADDRESS	4	TCSESUSB	BACKWARDS AID chain
END OF AID CHAIN HEADER FIELDS				
(14)	CHARACTER	1	TCSETYPE	INTERPRETATION of later fields VTAM or M-M LINKS for a region which must be reached via another (IE by DAISY-CHAINING).

Offset Hex	Type	Len	Name (Dim)	Description
(15)	CHARACTER	1	TCSEILUC	LUC flag byte
(15)	BITSTRING	1	TCSEFLGS	LUC status
	1... ..		TCSELUC	This is a LUC system
	.1.. ..		TCSELU6	This is a LU6 system
	..1. ....		TCSEMRO	This is a MRO system
	...1 ....		TCSENG	Feature=SINGLE
	.... 1...		TCSESHU	SHUTDOWN in progress
	.... .1..		TCSEXLA	XLNaction parameter. On=Force
	.... ..1.		TCSESUR	Surrogate
	.... ...1		TCSECNS	CHANGE_NO_SESS supported
(16)	HALFWORD	2	TCSELEN	Entry length
(18)	CHARACTER	8	TCSESID	System NETWORK name
(20)	CHARACTER	8	TCSEXSNM	External SECURITY name
(28)	CHARACTER	8	TCSEMM	Shared database conversations *
(28)	ADDRESS	4	TCSESES1	LUC only - 1st session
(28)	ADDRESS	4	TCSEVC1	VTAM - Primary sessions
(2C)	ADDRESS	4	TCSEMODE	LUC only - mode ENTRY
(2C)	ADDRESS	4	TCSEVC2	VTAM - Secondary sessions
Access Method VALUES SAME as for TCTTE field TCTEAMID				
(30)	BITSTRING	1	TCSACCM	Access Method flags
(31)	BITSTRING	1	TCSEDSP	DATA-STREAM
(32)	BITSTRING	1	TCSEDBA	De-blocking algorithm
(33)	BITSTRING	1	TCSEI_AI	APPC autoinstall flags
	1... ..		TCSETRAN	Transient system
	.1.. ..		TCSE_CLONE	Cloned system
	..1. ....		TCSE_CATLG_NO	AI not catalogued
	...1 ....		TCSE_IMPLICIT_DELETE	
	.... 1...		TCSE_DELETE_	AI delete
	.... ..1.		AT_RESTART	
	.... .1..		TCSE_DELETE_	AI delete after EMER
	.... ..1.		SCHEDULED	
	.... ...1		TCSE_DELETE_STARTED	AI DFHIC CATD sched
	.... ...1		TCSE_DELETE_	AI DFHZATD started
	.... ...1		AND_LOGON	
				AI BIND during delete
SYSTEM ENTRY - VTAM SPECIFIC CURRENT STATISTICS				
(34)	HALFWORD	2	TCSEALL	Number of AID'S in CHAIN
(36)	HALFWORD	2	TCSESALL	Number of non-specific AID
(38)	HALFWORD	2	TCSEBID	Number of BIDS in progress
(3A)	HALFWORD	2	TCSE2RY	Secondaries currently used
(3C)	UNSIGNED	2	TCSERTK	RTT entry number.
HIGH WATER MARKS				
(3E)	HALFWORD	2	TCSESTAM	Maximum number of allocates outstanding
(40)	HALFWORD	2	TCSE2HWM	Secondaries used
(42)	HALFWORD	2	TCSEBHWM	Maximum number of BIDS
ACCUMULATORS				
(44)	FULLWORD	4	TCSES2	ATI'S SAT. by secondaries
(48)	FULLWORD	4	TCSES1	ATI'S SAT. by primaries
(4C)	FULLWORD	4	TCSES BID	Number of BIDS sent
ISC LINK STATISTICS				
(50)	FULLWORD	4	TCSESTAS	Number of allocates for LINK
(54)	FULLWORD	4	TCSESTAQ	Number of allocates QUEUED
(58)	FULLWORD	4	TCSESTAF	Allocates failing - LINK SHUT
(5C)	FULLWORD	4	TCSESTAO	Allocates failing - OTHER
(60)	FULLWORD	4	TCSESTFC	Number of FC requests
(64)	FULLWORD	4	TCSESTIC	Number of IC requests
(68)	FULLWORD	4	TCSESTTD	Number of TD requests
(6C)	FULLWORD	4	TCSESTTS	Number of TS requests
(70)	FULLWORD	4	TCSESTD L	Number of DL/1 requests
(74)	FULLWORD	4	TCSESTTC	Number of TERM SHR REQS
(78)	HALFWORD	2	TCSEM XQT	Allocate queue time
(7A)	HALFWORD	2	TCSEQPCT	MAXQTIME queue purge count *
(7C)	HALFWORD	2	TCSEMQPC	MAXQTIME alloc.s purged
(7E)	CHARACTER	2	*	Reserved
(80)	FULLWORD	4	TCSEZQRJ	XZIQUE rejects
(84)	HALFWORD	2	TCSEZQPU	XZIQUE purge conn count
(86)	HALFWORD	2	TCSEZQPC	XZIQUE allocs.s purged
Generic Resource Flags				
(88)	BITSTRING	1	TCSEI_GR	Generic Resource Flags
	1... ..		TCSE_GR	Both sides GR registered
	.1.. ..		TCSE_GRNAME_CONN	1 = TCSESID is GR name TCSEX62N membername 0 = TCSESID membername TCSEX62N is GR name
	..1. ....		TCSE_USE_	
	.... ..1.		OUR_MEMBER_NAME	Partner used our member name



Offset Hex	Type	Len	Name (Dim)	Description
	...1 ....		TCSE_MSG179_ ISSUED	ZC0179 Msg Issued
	.... 1...		TCSE_CATLG_DONE	Defined connection with affinity is catalogued
	.... .1..		TCSE_MSG177_ ISSUED	Msg ZC0177 issued
(89)	BITSTRING	1	TCSE_MISC	Miscellaneous
	1... ....		TCSESSRE	Shunt received since restart
	.1.. ....		TCSE_SD_	
			HANG_REPORTED	
#	..1. ....		TCSEUDU	on if ZC2352 written Use default user
#				<b>APAR PQ29223</b> added TCSE_CNOS_SHUT
#	...1 ....		TCSE_CNOS_SHUT	CNOS shutdown processed
#	.... 1111		*	unused
(8A)	HALFWORD	2	TCSE1RY	Primaries currently used
(8C)	HALFWORD	2	TCSE1HWM	Peak number of Primaries used
(8E)	HALFWORD	2	TCSEARC8	Allocates after RC8 XZIQUE
(90)	ADDRESS	4	TCSENEXT	Address of next TCTSE
(94)	CHARACTER	5	*	
(94)	UNSIGNED	2	TCSENQCT	ENQ count for task
(96)	CHARACTER	3	TCSENQTI	Task id of ENQ holder
(99)	BITSTRING	1	TCSEDI2	DYNAMIC INSTALL inds
	1... ....		TCSEDP	DYNAMIC ADD pending
	.1.. ....		TCSEDDP	DYNAMIC DELETE pending
	..1. ....		TCSEPNAC	Pending AUTOCONNECT
	...1 ....		*	Reserved
	.... 1...		TCSEORIS	Indirect System not ready
	.... .1..		TCSEPNOS	Pending -INSERVICE
	.... ..1.		TCSEPNLG	Pending CREATESESS
	.... ...1		TCSEPNAA	Pending AUTOCONNECT ALL
(9A)	CHARACTER	2	TCSEINUC	(Packed) Indirect system count
(9C)	ADDRESS	4	TCSE_REMDEL_ CHAIN	Address next REMDEL system@QWA
(9C)	ADDRESS	4	TCSESKA	Skeleton address
(A0)	UNSIGNED	2	TCSESRTK	Saved RTT entry number e.g. for APPC terminals
(A2)	BITSTRING	1	TCSEDI2	DYNAMIC INSTALL inds
	1... ....		TCSEDLR	Remote delete required
	.1.. ....		TCSETMC	TMP action taken for TCTS
	.1.. ....		TCSEMROP	SHIP done to this system
	...1 ....		TCSEMROG	We got shipped remotes
	.... 1...		TCSECRRD	Remote reset done
	.... .1..		TCSECRSR	DFHCRS running
	.... ..1.		TCSEUIP	Ltd. XRF update-in-place
	.... ...1		TCSEACT	Remote APPC defined as .terminal
(A3)	CHARACTER	1	TCSEDI3	
	1... ....		TCSECSRE	Contact with partner since restart
	.1.. ....		TCSERC8	RC8 from XZIQUE
	.1.. ....		TCSEQLIM	Queue limit set?
	...1 ....		TCSEQTIM	Max queue time set
The following indicate revised rules for LU6.2 Sync-Pointing				
Next flag says whether revised rules for Conversation				
Correlators and State-after-Rollback are used				
	.... 1...		TCSEAR0I	On = FQCC is supported
Off = FQCC is not supported				
	.... .1..		TCSECRTE	CRTE activity flag
	.... ..1.		TCSEPGIP	Purge in progress
	.... ...1		TCSE_SYSTEM_	
			SUPPORTS_TIMEOUT	timeout supported@DLA
(A4)	HALFWORD	2	TCSEALIM	CEDA allocate queue limit
(A6)	HALFWORD	2	TCSEACNT	Queued Allocates processed
(A8)	CHARACTER	8	TCSEAQTS	Time alloc Queue began
(B0)	CHARACTER	4	TCSETAQ	Number of allocates queued
(B4)	CHARACTER	4	TCSEALRJ	QLIMIT alloc.s rejected
(B8)	FULLWORD	4	TCSESTPC	Number of PC requests
(BC)	CHARACTER	2	TCSE_SUPPORTS_	
			FUNCTION	
(BC)	BITSTRING	1	TCSE_SUPPORTS_ FLG1	Function string
	1... ....		TCSE_ROUTABLE_	Flag1
			START	
(BD)	BITSTRING	1	TCSE_SUPPORTS_ FLG2	Routable START
(BE)	CHARACTER	2	TCSE_RESERVED	Flag2
(C0)	CHARACTER		TCSECOMN	Reserved
(C0)	CHARACTER		TCSEGET1	End of common part
(C0)	CHARACTER		TCSEGET1	Length for ZC Install

SYSTEM ENTRY - LU 6.1 and LU6.2

Offset Hex	Type	Len	Name (Dim)	Description
(C0)	STRUCTURE	76	*	
(C0)	CHARACTER	8	TCSE_NETID	Network identifier
(C8)	CHARACTER	8	TCSEX62N	XRF specific name or
(C8)	CHARACTER	8	TCSEX61N	GR name or member name
(D0)	CHARACTER		TCSEGET6	Length of LU6.1 system entry
(D0)	BITSTRING	1	*	
	1... ..		TCSEPSF	PSH flag bytes supported
	.1. ....		TCSEWRS	No sessions bound. Scan for resync at next contact *
	..1. ....		TCSEXLD	EXCHANGE LOGNAME done
	...1 ....		TCSEPPRA	Presumed Abort support
	.... 1...		TCSE_LR	Limited Resource
	.... .1..		TCSEANB	ACQ but No Bound sessions
	.... .1.		TCSE_PRSS_RECOV	Per. Sess. Recovery reqd
	.... ..1		TCSE_XLN_COLD	Hot/Cold XLN failure
(D1)	CHARACTER	1	*	Reserved
(D2)	BITSTRING	1	*	LU6.2 Security flag
	1... ..		TCSEPNAR	Partner SPM not active
	.1. ....		TCSE_PRSS_REC_ACT	Track pers. resources
	..1. ....		TCSE_PRSS_REL_CONN	
	...1 ....		TCSE_CLPEND	Release connection
	.... 1...		TCSEFBN	XLNaction race control
	.... .1..		TCSEBTCH	Sessions already bound
	.... .1.		TCSECAL	Batched Resync support
	.... ..1		TCSEAL	CONNECT=ALL
	.... ..1		TCSEBSY	BINDSECURITY keyword used

LU 6.2 Security bits indicating what ATTACH\_SECURITY we support and the partner supports. The mapping from the ATTACH\_SEC keyword on the CEDA DEFINE CONNECTION or TERMINAL panel is:

```

: XMP
ATTACH_SEC | Bind Indicators
  | UP | AV | PV |
LOCAL | 0 | 0 | 0 |
VERIFY | 1 | 0 | 0 |
IDENTIFY | 1 | 1 | 0 |
PERSISTENT | 1 | 0 | 1 |
MIXED | 1 | 1 | 1 |
: EXMP
    
```

(D3)	BITSTRING	1	TCSE_ATTACH_SEC	LU6.2 Security Flags
	1... ..		TCSE_MY_UP	Local UP setting
	.1. ....		TCSE_MY_AV	Local AV setting
	..1. ....		TCSE_MY_PV	Local PV setting
	...1 ....		TCSE_HIS_UP	Remote UP setting
	.... 1...		TCSE_HIS_AV	Remote AV setting
	.... .1..		TCSE_HIS_PV	Remote PV setting
	.... ..1		*	Reserved

The Userid Table area TCSEUTA is an internal control block within the TCSE. It contains a pointer to the Local Userid Table (LUIT) associated with the connection, the 4 character SYSID and some flags defining the state of the LUIT.

(D4)	CHARACTER	12	TCSEUTA	Userid Table Area
(D4)	ADDRESS	4	TCSELUIT	Ptr to Local Userid Table.Copy of LOCAL_USERID_TABLE_AREA
(D8)	CHARACTER	4	TCSESYSI	SYSID
(DC)	BITSTRING	1	TCSELFLG	LUIT Global Flags
	1... ..		TCSETOIP	Time Out In Progress flag
	..11 1111		*	Reserved
(DD)	CHARACTER	3	*	Reserved for ZCUT

OTHER TCSE FIELDS.....

(E0)	BITSTRING	1	TCSE_PRSS_FLAGS	Persistent Sessions flags
	1... ..		TCSE_REL_REQD	Connection in shutdown
	.1. ....		TCSE_PRSS_PS_REQD	State record not found
	..1. ....		TCSE_LR_CATLGED	LR bit set in global cat
	...1 ....		TCSE_PRSS_OPNDST_	
	.... 1...		RESTORE_FAILED	
	.... .1..		TCSE_PRSS_	
	.... ..1		WAS_SHUTTING	
	.... .111		*	Unbind all
	.... ..1		*	Reserved
(E1)	BITSTRING	1	TCSE_CBD_SECURITY	CBD security flags
	1... ..		TCSE_MY_CBDSEC	CBD security selected
	.1. ....		TCSE_MY_	
	.... 1...		CBDSEC_REQD	
	.... .1..		TCSE_EXTENDEDONLY	0=ACC or 1=REQ prtool
	.... ..1		*	Reject Local sec. attach
	.... ..1		*	Reserved
	.... 1...		TCSE_HIS_CBDSEC	Partners CBD security
	.... .1..		TCSE_HIS_	
	.... ..1		CBDSEC_REQD	

Offset Hex	Type	Len	Name (Dim)	Description
	.... ..1.		TCSE_EXT_SEC_FBN	ACC/REQ protocol
	.... ..1		TCSE_HIS_EXT_SEC	ext sec. frst BND occrd
(E2)	CHARACTER	2	*	ext security indicated
(E4)	UNSIGNED	4	TCSE_PRA	Reserved for alignment
(E8)	CHARACTER	8	TCSE_AI_CREATE_TIME	Persistent Resource count
(F0)	ADDRESS	4	TCSE_DISTINGUISHED_NAME_PTR	Autoinstall GMT time
(F4)	CHARACTER	8	TCSE_TITOKEN	Unique name
(FC)	HALFWORD	2	TCSE_APPC_CONV	token for remote delete
(FE)	BITSTRING	1	TCSEI_CC_FLAG	Active conversations
	1... ..		TCSECCIN	CICS client flag byte
	.111 1111		*	CCIN has been run
#				Reserved
#				<b>APAR PQ24744</b>
#				added TCSEXLNC
(FF)	CHARACTER	1	TCSEXLNC	XLN retry counter
(100)	ADDRESS	4	TCSE_CCINDATA_PTR	PTR CICS client data
(104)	ADDRESS	4	TCSE_LU61_CHAIN	Next LU61 system
(108)	BITSTRING	1	TCSE_CQP_FLAGS	Flags for Connection Quiesce protocol
	1... ..		TCSE_CQP_SUPPORTED	
	.1.. ..		TCSE_ENDAFFIN_REQD	CQP supported
	..1. ....		TCSE_CQPI_COMPLETE	CQP requested ENDAFFIN
	...1 ....		TCSE_CQPO_ATTACHED	Inbound CQP complete
	.... 1...		TCSE_CQP_COMPLETE	Outbound CQP attached
	.... .1..		TCSE_CQP_FAILED	CQP has completed
	.... ..11		*	CQP has failed
(109)	CHARACTER	3	*	reserved
(10C)	CHARACTER		TCSEGET4	reserved for alignment
				Length for ZC Install

SYSTEM ENTRY - M-M SPECIFIC

Offset Hex	Type	Len	Name (Dim)	Description
(C0)	STRUCTURE	4	*	
(C0)	HALFWORD	2	TCSESECN	No of secondaries sessions *
(C2)	HALFWORD	2	TCSEPRMN	No of primaries sessions

Offset Hex	Type	Len	Name (Dim)	Description
(C0)	STRUCTURE	20	*	
(C0)	CHARACTER	4	*	Leave room for previous two *
(C4)	ADDRESS	4	TCSEIRCH	Chain of IRC system entries *
(C4)	ADDRESS	4	TCSE_MRO_CHAIN	Alternative name for IRCH
(C8)	BITSTRING	1	TCSEIRCF	Flags
	1... ..		*	Reserved
	.1.. ..		TCSEIRNC	Not connected
	..1. ....		TCSEIRMD	PRI/SEC MISMATCH DIAGNOSED *
	...1 ....		TCSEIDF	Defined to IRC
	.... 1...		TCSEIRXM	Cross Memory acceptable
	.... .1..		TCSEIRSF	FIRST ATTACH OK
	.... ..1.		TCSEINBT	EXCI connection
	.... ..1		TCSEIAD	We need USERSEC=IDENTIFY
(C9)	BITSTRING	1	TCSEIRF2	Flags
	1... ..		TCSEIRXU	Cross Memory in use
	.1.. ..		TCSEIRIC	Outbound connects initiated * for this sys since connections last severed
	..1. ....		TCSEIRXC	XCF connection
	...1 ....		TCSEIRCQ	CONNECT work element already queued
(CA)	CHARACTER	8	TCSESTOD	Latest CONNECT timestamp
(D2)	CHARACTER	2	*	Reserved
(D4)	CHARACTER		TCSEGET3	Length for ZC Install

SYSTEM ENTRY - INDIRECT ROUTE

Offset Hex	Type	Len	Name (Dim)	Description
(C0)	STRUCTURE	8	*	

Offset Hex	Type	Len	Name (Dim)	Description
(C0)	ADDRESS	4	TCSEINDA	Address of another system entry, on route to remote region.
(C4)	CHARACTER	4	TCSEINDN	Name of other system *
(C8)	CHARACTER		TCSEGET2	Length for ZC Install

DESCRIPTIVE NAME = Terminal Control Table Mode Group Entry

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	138	DFHTCTME	
(0)	CHARACTER	8	*	
(8)	CHARACTER	8	TCMEMODE	Mode group name
(10)	ADDRESS	4	TCMENXT	Address of next mode group in this system
(14)	ADDRESS	4	TCMESESA	Address of 1st session in this group
(18)	ADDRESS	4	TCMESYSA	Address of system entry
(1C)	HALFWORD	2	TCMELEN	Length of this mode entry

SYSTEM STATISTICS

(1E)	HALFWORD	2	TCMELMAX	LOCAL_MAX_ALLOWED
(20)	HALFWORD	2	TCMEMCON	MINIMUM number of contention WINNERS acceptable for this mode group
(22)	HALFWORD	2	TCMEMAXS	MAX_SESSION_COUNT

CURRENT STATISTICS

(24)	HALFWORD	2	TCMECONW	Currently CNOS negotiated contention WINNERS
(26)	HALFWORD	2	TCMECONL	Currently CNOS negotiated contention LOSERS
(28)	ADDRESS	4	TCMELST	Address of last session in this group
(2C)	HALFWORD	2	TCMEZQPC	XZIQUE alloc.s purged
(2E)	HALFWORD	2	TCMEBID	Number of BIDS in progress
(30)	HALFWORD	2	TCME2RY	LUC contention WINNERS count
(32)	HALFWORD	2	TCMEBND	Currently bound sessions
(34)	HALFWORD	2	TCME1RY	Current no of losers in use

HIGH WATER MARKS

(36)	HALFWORD	2	TCMESTAM	Maximum number of allocates outstanding
(38)	HALFWORD	2	TCME2HWM	LUC MAX No. WINNERS
(3A)	HALFWORD	2	TCMEBHWM	Maximum number of BIDS
(3C)	UNSIGNED	2	TCMERTK	RTT entry number
(3E)	HALFWORD	2	TCME1HWM	Peak contention losers

ACCUMULATORS

(40)	FULLWORD	4	TCMES2	LUC ATIS SAT by WINNERS
(44)	FULLWORD	4	TCMES1	LUC ATIS SAT by LOSERS
(48)	FULLWORD	4	TCMESBID	Number of BIDS sent

ISC LINK STATISTICS

(4C)	FULLWORD	4	TCMESTAS	Number of allocates for LINK
(50)	FULLWORD	4	TCMESTAQ	Number of allocates QUEUED
(54)	FULLWORD	4	TCMESTAF	Allocates failing - LINK SHUT
(58)	FULLWORD	4	TCMESTAO	Allocates failing - OTHER
(5C)	FULLWORD	4	TCMESTAG	Generic allocs satisfied
(60)	FULLWORD	4	TCMESTAP	Specific allocs satisfied
(64)	CHARACTER	1	*	Reserved
(65)	BITSTRING	1	TCMEDII	DYNAMIC INSTALL indicators
	1... ..		TCMEDAP	DYNAMIC ADD pending
	.1.. ....		TCMEDDP	DYNAMIC DELETE pending
	..1. ....		TCMEPNAC	Pending AUTOCONNECT
	...1 1...		*	TCME - Reserved
	.... .1..		TCMEPNOS	Pending -INSERVICE
	.... ..1.		TCMEPNLG	Pending CREATESESS.
	.... ...1		TCMEPNAA	Pending AUTOCONNECT all
(66)	BITSTRING	1	TCMEDII2	DYNAMIC INSTALL indicators
	1... ..		*	RESERVED
	.1.. ....		TCMEUIP	Update in place
	..11 1111		*	RESERVED
(67)	CHARACTER	1	*	TCME - Reserved
(68)	HALFWORD	2	TCMEPMAX	Potential LOCAL_MAX_ALLOW
(6A)	HALFWORD	2	TCMEPMCO	Potential MAX_CON_WINNERS
(6C)	ADDRESS	4	TCMEDPGR	Address of MACRO version
(70)	BITSTRING	1	TCMEIFG1	Flags - 1
	1... ..		TCMELSM	LU SERVICES MANAGER TCTME
	.1.. ....		*	Reserved
	..1. ....		TCMECON	CONNECT=AUTO
	...1 ....		TCMECNO	initial CNOS sent
	.... 1...		TCMEBCL	CICS to BIND CON_LOSERS
	.... .1..		TCMEPCN	Postponed CNOS needed
	.... ..1.		TCMEOUT	Mode group OUT OF SERVICE
	.... ...1		TCMECLO	Mode group TEMP. CLOSED
(71)	BITSTRING	1	TCMEIFG2	Flags - 2
	1... ..		TCMETRM	Performing TERMINATION
	.1.. ....		TCMEACT	ACTIVATE SCAN flag
	..1. ....		TCMESHU	SHUTDOWN in progress
	...1 ....		TCMEINT	Initial CNOS x'chge done

Offset Hex	Type	Len	Name (Dim)	Description
	.... 1...		TCMEERR	Permanent Error in mode group
	.... .1..		TCMER12	RC12 issued by XZIQUE
	.... .1.		TCME_LOCK_DENIED	Busy on CNOS target sys
	.... ...1		TCMEPGIP	Purge in progress
(72)	HALFWORD	2	TCMEACNT	Queued Allocates processed
(74)	HALFWORD	2	TCMEAR12	Allocates after RC12
(76)	HALFWORD	2	TCMEQPCT	XZIQUE purge mode count
(78)	CHARACTER	8	TCMEAQTS	Time alloc Queue began
(80)	ADDRESS	4	TCME_LOCK_TOKEN	LM token for CNOS lock
(84)	HALFWORD	2	TCME_ORD_COUNT	Outstanding remote deactivation count
(86)	HALFWORD	2	TCME_WTL_COUNT	Expected unbinds for Winner-To-Loser switch
(88)	HALFWORD	2	TCME_LTW_COUNT	Expected unbinds for Loser-To-Winner switch
(8A)	CHARACTER		TCMEGET	Length for ZC Install

DESCRIPTIVE NAME = TCTTE BMS Extension

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	52	TCTTETTE	TCTTE BMS Extension
(0)	UNSIGNED	1	TCTTEELN	Entry length (includes PARTITION Extension for BTAM)
(1)	BITSTRING	1	*	Reserved
(2)	CHARACTER	3	TCTTEOCL	Operator class code
(5)	BITSTRING	2	TCTTETFS	Terminal features
(5)	BITSTRING	1	TCTTEFMB	BMS flag bytes
	1... ....		TCTTEOBO	OBOPID specified
	.1.. ....		TCTTETFV	VERTICAL format feature
	.1. ....		TCTTETFH	FORM FEED feature
	...1 ....		TCTTENRA	DON'T route with LIST = ALL
	.... 1...		TCTTENR	NEVER route to this terminal
	.... .1..		TCTTEFMP	User FMH PARAMS supported
	.... .1.		TCTTEOBF	OUTBOARD FORMATTING support data
	.... ...1		TCTTETFM	2780 MULTI-RECORD feature
(6)	BITSTRING	1	*	
	1... ....		TCTTELDC	BMS LDC device
	.1. ....		*	
	.1. ....		*	
	...1 ....		*	
	.... 1...		*	
	.... .1..		*	
	.... .1.		*	
	.... ...1		TCTTETFF	HORIZONTAL format feature
(7)	UNSIGNED	1	TCTTEPGL	3270 default PAGE size ROWS *
(8)	UNSIGNED	1	TCTTEPGC	3270 default PAGE size COLS *
(9)	UNSIGNED	1	TCTEAPGL	3270 alternate PAGE size ROWS *
(A)	UNSIGNED	1	TCTEAPGC	3270 alternate PAGE size COLS *
(B)	BITSTRING	1	TCTTEPGB	Terminal Paging Status
	1... ....		TCTTEPGP	TRMSTAT=PAGE
	.1. ....		TCTTEPGR	TRMSTAT TEMP INVERTED
	.1. ....		TCTTEPGD	DISPLAY status
	...1 ....		TCTTEPGI	DISPLAY status task
	.... 1...		TCTTEPGG	CONVERSATIONAL pages
	.... .1..		TCTTEPGO	Some MCB has EODPURG=OPER
	.... .1.		TCTTEPG3	Terminal is 3270
	.... ...1		TCTTEPGA	PURGE BMS PAGE after ATNI
(C)	CHARACTER	3	*	Reserved BMS Extension
(F)	CHARACTER	1	TCTTEDDS	DEVICE DEPENDENCE suffix
(10)	CHARACTER	1	TCTTEMSS	MAP SET suffix
(11)	CHARACTER	1	TCTTEAMS	ALTERNATE MAP SET suffix
(12)	HALFWORD	2	TCTTEBFS	Buffer suffix
(14)	ADDRESS	4	TCTTEPSA	System SPOOLING EXTN.address *
(18)	ADDRESS	4	TCTTETPA	(DFHTCTPE) address
(1C)	ADDRESS	4	TCTTEXHN	-> TCTTE if dynamic entry *
(20)	ADDRESS	4	TCTTEPGM	Addr of first message CB
(24)	CHARACTER	8	TCTTEBMN	Name of last mapset
(2C)	CHARACTER	7	TCTTEMAP	Name of last map
(33)	CHARACTER	1	*	Reserved
(34)	CHARACTER		TCTTEEXE	End of extension

DESCRIPTIVE NAME = TCTTE Special Features Extension

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	28	TCTTEPSE	
(0)	UNSIGNED	1	TCTTEQLN	Extension length
(1)	BITSTRING	1	TCTTEQSL	Printer RSL

Offset Hex	Type	Len	Name (Dim)	Description
(2)	CHARACTER	2	TCTTEQPT	Printer type, X'32XX'
(4)	CHARACTER	8	TCTTEQST	Spooling target printer
(4)	CHARACTER	8	TCTTEQSD	Spooling printer dest.ID *
(C)	CHARACTER	4	TCTTEQF	Spooling forms ID
(10)	ADDRESS	4	TCTTEQAP	Spooling control block address *
(14)	HALFWORD	2	TCTTEQLC	Spooling line-up counter
(16)	CHARACTER	1	TCTTEQCL	Spooling device class
(17)	BITSTRING	1	*	Spooling flag byte
	1... ..		TCTTEQPM	No printed messages *
(18)	CHARACTER	4	*	Reserved *
(1C)	CHARACTER		TCTTEPXE	End of SYS.SPOOLING EXTN.

DESCRIPTIVE NAME = TCTTE LUTYPE6.2 Extension

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	236	TCTTELUC	Start of LUC Extension
This area (from TCTE_LUCX_TRACE to TCTE_LUCX_TRACE_LEN) is traced in some ZC level 1 trace formats				
(0)	CHARACTER	64	TCTE_LUCX_TRACE	LUCX trace area
(0)	CHARACTER	1	*	
(0)	UNSIGNED	1	TCTTELUL	Length of extension
(1)	CHARACTER	3	TCTESTAT	LU 6.2 state bytes
(1)	BITSTRING	1	TCTELUC1	Flag byte 1
	1... ..		TCTEPLL	PARTIAL LL count set
	.1. ....		TCTECEBS	CEB to be sent
	..1. ....		TCTECEBR	CEB received
	...1 ....		TCTECCDS	CD to be sent
	.... 1...		TCTECCDR	CD received
	.... .1..		TCTECCDR2	DR2 to be sent
	.... ..1.		TCTECCDR1	DR1 to be sent
	.... ...1		TCTESDR	Remember DR1 RQD
(2)	BITSTRING	1	TCTELUC2	Flag Byte 2
	1... ....		TCTEFMS	FMH to be sent
	.1. ....		TCTEFMR	FMH received
	..1. ....		TCTEDEX	-ER* received
	...1 ....		TCTERCR	-ZLSX given return code
	.... 1...		TCTEBUF	buffer type RECEIVE
	.... ..1.		TCTERCL	ZRVL recalled by ZRLX
	.... ...1		TCTELLK	LL set by caller
	.... ...1		TCTEIMP	IMPLICIT SEND
(3)	BITSTRING	1	TCTELUC3	Flag Byte 3
	1... ....		TCTELUN	LUSTAT for NULL RU
	.1. ....		TCTUAXFI	TCTUA XFRMD from TOR
	..1. ....		TCTELIC	Resp to LUSTAT CEB,RQD2 o/s
	...1 ....		TCTERES	Response to be sent
	.... 1...		TCTEAHB	ATT FMH generated
	.... ..1.		TCTERQD2	SEND with RQD2
	.... ...1		TCTERQD1	SEND with RQD1
	.... ...1		TCTERQE	SEND with ER1
(4)	ADDRESS	4	*	reserved (was TCTEURDA)
(8)	ADDRESS	4	*	reserved (was TCTEPURD)
(C)	ADDRESS	4	*	reserved (was TCTEHURD)
(10)	CHARACTER	1	TCTESPL	CONV SYNCPOINT level
(11)	CHARACTER	1	TCTECVT	Conversation type
	1... ....		*	
	.1. ....		*	
	..1. ....		*	
	...1 ....		*	
	.... 1...		*	
	.... ..1.		*	
	.... ...1		*	
	.... ...1		TCTEMAPD	"MAPPED"
(12)	UNSIGNED	1	TCTEPLLC	PARTIAL LL count
(13)	UNSIGNED	1	TCTECCL	CONV. CORRELATOR length
(14)	CHARACTER	8	TCTECC	Conversation CORRELATOR
(1C)	ADDRESS	4	TCTESBA	SEND buffer address
(20)	FULLWORD	4	TCTESBL	SEND buffer length
(24)	ADDRESS	4	TCTESBDA	next slot in SEND buffer
(28)	FULLWORD	4	TCTESBDL	DATE length in SEND BFR
(2C)	ADDRESS	4	TCTERBA	RECEIVE buffer address
(30)	FULLWORD	4	TCTERBL	RECEIVE buffer length
(34)	ADDRESS	4	TCTERDA	Next slot in RECV buffer
(38)	FULLWORD	4	TCTERBDL	Data length in RECV buffer
(3C)	HALFWORD	2	TCTELLC	LL count
(3E)	HALFWORD	2	TCTENLLC	New LL count
(3E)	UNSIGNED	1	TCTELSED	Length of RCVD seed
(3F)	UNSIGNED	1	TCTELENC	Len of RCVD TRANSFRMD PWD

TCTE\_LUCX\_TRACE\_LEN End of LUCX trace area

Offset Hex	Type	Len	Name (Dim)	Description
(40)	ADDRESS	4	TCTEAPBF	APPL buffer address
(44)	FULLWORD	4	TCTEAPBL	APPL buffer length
(48)	CHARACTER	8	TCTERENC	BIND password seed RCVD in bnd
(48)	FULLWORD	4	TCTEMAXL	User MAX data required
(4C)	FULLWORD	4	TCTEDATL	Length of data received
(50)	ADDRESS	4	TCTEFMHA	Address of FMH received
(54)	HALFWORD	2	TCTELLCT	LL required
(56)	BITSTRING	1	TCTECUSR	Conversation use flags
	1111 11..		*	Reserved
	.... ..1.		TCTECPIC	conversation is CPIC
	.... ..1		TCTENCPC	conversation is not CPIC
(57)	CHARACTER	1	*	Miscellaneous bits
	1... ..		TCTEIIR	Interested in responses
	.1.. ..		TCTE_PRSS_MATCHED	TCTTE matched to NIB
	.1. ....		TCTE_PRSS_	
			REJ_ATTACH	Reject attach flag
	...1 ....		TCTE_PRSS_	
			REM_SCHED	
	.... 1...		TCTENRI	Remote schedule flag
	.... .111		*	Not Receive Immediate reserved
(58)	ADDRESS	4	TCTERCSA	RECEIVE SET address
(5C)	ADDRESS	4	TCTELHNP	-> TCTTE
(60)	CHARACTER	1	TCTESIL	SESSION INSTANCE length
(61)	CHARACTER	8	TCTESII	SESSION INST identifier
(69)	CHARACTER	3	TCTESECA	Reserved
(6C)	ADDRESS	4	*	Reserved
(70)	CHARACTER	8	TCTETPWA	BIND security work area
(78)	CHARACTER	1	TCTESONC	CLSDST SON code
(79)	CHARACTER	2	TCTESSNS	System sense code
(7B)	CHARACTER	2	TCTEUSNS	User sense code
(7D)	CHARACTER	1	TCTETLD	ETL Deferred Data Flag
	1... ..		TCTETLDD	ETL is deferring the data
	.111 1111		*	unused
(7E)	HALFWORD	2	TCTE_BID_SEQ	Persistent Sessions BB seqno. save area
(80)	CHARACTER	32	TCTEBLST	Buffer list
(A0)	CHARACTER	8	TCTEPENC	Primary encrypted seed
(A8)	FULLWORD	4	TCTEPLK	Previous TOD clock bits for LU62 bind
(AC)	ADDRESS	4	TCTERPLB	Second RPL
(B0)	FULLWORD	4	TCTEMINL	Minimum ll to receive
(B4)	BITSTRING	1	TCTEVOP3	Operation in progress
	1... ..		TCTERIP	Receive in progress
(B5)	BITSTRING	1	TCTERPBS	LU62 RPL_B state machine
(B6)	BITSTRING	1	TCTE_BID_STATUS	Persistent Sessions status for LU62 recovery
(B7)	BITSTRING	1	TCTE_RESP_STATUS	Persistent sessions status@R7C for response recovery
(B8)	CHARACTER	8	TCTESEED	BIND PASSWORD seed sent in bnd
(C0)	CHARACTER	8	TCTERSED	BIND PASSWORD seed RCVD in bnd
(C8)	ADDRESS	4	TCTERERA	LU62 RPL_in_error address
(CC)	ADDRESS	4	TCTERBLA	Logical LU62 recv buf addr
(D0)	UNSIGNED	4	TCTERBLL	Logical LU62 recv buf len
(D4)	ADDRESS	4	TCTECPCA	CPC address
(D8)	CHARACTER	4	TCTERSFR	RELAY SESSION failed reason code
(DC)	CHARACTER	8	TCTE_MY_ATT_SEQ	Local attach sequence num
(E4)	CHARACTER	8	TCTE_HIS_ATT_SEQ	Partner attach seq num
(EC)	CHARACTER		TCTTELCE	End of LUC extension

DESCRIPTIVE NAME = TCTTE NIB Descriptor Extension

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	100	TCTENIB	Start of NIB DESCRIPTOR
This area (from TCTE_NIBD_TRACE to TCTE_NIBD_TRACE_LEN) is traced in some ZC level 1 trace formats				
(0)	CHARACTER	20	TCTE_NIBD_TRACE	NIBD trace area
(0)	CHARACTER	3	*	ALIGN length field
(3)	UNSIGNED	1	TCTENLEX	Length of DESCRIPTOR
(4)	ADDRESS	4	TCTENPTR	Address of NIB
(8)	ADDRESS	4	TCTENUSA	User area
(C)	CHARACTER	8	TCTENNAM	Symbolic node name
TCTE_NIBD_TRACE_LEN End of NIBD trace area				
(14)	CHARACTER	8	TCTENLOG	LOGMODE
(1C)	UNSIGNED	1	*	Reserved
(1D)	UNSIGNED	1	TCTENIBN	NIB model INDEX number
(1E)	UNSIGNED	1	TCTENBDR	BIND routine type number
(1F)	UNSIGNED	1	TCTENDVP	Device address copied from NIB
(20)	ADDRESS	4	TCTENBDS	A(SAVED BIND AREA)
(24)	FULLWORD	4	TCTENBDL	LENGTH OF THE BIND SESSION PARAMETERS SAVED BY SCIP
(28)	CHARACTER	4	TCTEKSS	Command sense codes

Offset Hex	Type	Len	Name (Dim)	Description
(28)	CHARACTER	1	TCTEKSS1	System sense 1
(29)	CHARACTER	1	TCTEKSS2	System sense 2
(2A)	CHARACTER	1	TCTEKUS1	User sense 1
(2B)	CHARACTER	1	TCTEKUS2	User sense 2
(2C)	CHARACTER	6	TCTESTNR	Number (STSN) indicators BUILD/RECEIVE area
(2C)	CHARACTER	1	TCTESTRI	FLOW
(2D)	CHARACTER	1	TCTESTAC	STSN actions

The values of the STSN response codes set in the TCTTE must equal the values for the corresponding codes in the VTAM RPL, since the TCTTE fields are set by copying the corresponding field from the RPL.

(2D)	CHARACTER	1	TCTESTRP	STSN response byte storage *
(2E)	HALFWORD	2	TCTESTIB	Number
(30)	HALFWORD	2	TCTESTOP	Number
(32)	HALFWORD	2	TCTESQCI	COMPLEMENTARY version of MY INBOUND FLOW'S logical SEQ. number
(34)	HALFWORD	2	TCTESQCO	COMPLIMENTARY version of MY OUTBOUND FLOW'S logical SEQ. number
(36)	HALFWORD	2	TCTESQCM	Command sequence number
(38)	CHARACTER	8	TCTENRBD	ECHOED BYTES of BIND response invalid
(40)	BITSTRING	1	*	
	1... ..		TCTEPSSES	And its value
	.1.. ..		TCTENBLE	NEG BIND specified
	..1. ....		TCTENBLR	NEGOTIABLE response required
	...1 ....		TCTETNNB	TRY not NEG BIND
	.... 1...		*	reserved
	.... .1..		*	reserved
(41)	BITSTRING	1	TCTEERP	Error processing REASONCODE
(42)	CHARACTER	16	TCTESQP	Session QUALIFIER PAIR
(42)	CHARACTER	1	TCTESQPL	Length of SQP field
(43)	BITSTRING	1	*	SQP field ID - X'01'

The format of the SESSION QUALIFIER PAIR IS:  
|L|PSQ|L|SSQ| where L is a one byte length  
The lengths of both TCTEPSQ and TCTESSQ are from 0 to 8, therefore the position of TCTESSQL is calculated as the Address of TCTEPSQ + the CONTENTS of TCTEPSQL.  
When CICS is the PRIMARY SESSION then the LENGTH of the PSQ IS 4, when it is the SECONDARY SESSION then the LENGTH of the SSQ is 4 IE. The CICS SESSION NAME always has a LENGTH of 4 while the OTHER SESSION NAME will have a LENGTH of 0 to 8.

(44)	CHARACTER	1	TCTEPSQS	Start of PSQ
(52)	BITSTRING	1	*	Length of PASSWORD (X'00')
(53)	BITSTRING	1	*	
	1... ..		TCTNNTMC	TMP action taken for TCNT
(54)	ADDRESS	4	TCTENNCH	-> Next in NETNAME chain
(58)	CHARACTER	8	TCTE_LOGON_LOGMODE	LOGMODE name from VTAM LOGON exit.
(60)	FULLWORD	4	TCTENIBE	End of NIB DESCRIPTOR

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	TCTEPSQR	PSQ record based on TCTEPSQS
(0)	BITSTRING	1	TCTEPSQL	Length of PSQ
(1)	CHARACTER	*	TCTEPSQ	PSQ (Max 8 chars)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	TCTESSQR	SSQ record Based on TCTEPSQ + value of PSQL
(0)	BITSTRING	1	TCTESSQL	Length of SSQ
(1)	CHARACTER	*	TCTESSQ	SSQ (Max 8 chars)

DESCRIPTIVE NAME = TCTTE Dummy Work Element  
This DSECT describes a WORK ELEMENT which is GETMAINED in order to hold information regarding unknown LOGONS.  
Because the Error may occur many times before ZNAC can process each WE, the WE'S are CHAINED together off the DUMMY TCTTE(VIA field TCTTECIA).  
Each element is used to hold a qualified name identifying the unknown LU(NETNAME.2NDARY\_SESSION\_QUALIFIER), and other sundry data items.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	40	TCTEDMWE	Logon work element
(0)	ADDRESS	4	TCTEDMCH	Chain field to next WE
(4)	BITSTRING	1	TCTEDMER	Error type byte 1
	1... ..		TCTEDMCL	CLSDST failed - logon exit



Offset Hex	Type	Len	Name (Dim)	Description
	.1.. ....		TCTEDMRA	Receive any error - ZRAC
	..1. ....		*	Reserved
	...1 ....		TCTEDMLG	VTAM detected logic error
	.... 1...		TCTEDMSM	Issue storage message
	.... .1..		TCTEDMSL	Negative resp to BIND fail
	.... ..1.		TCTEVTMQ	VTAM Quiescing
	.... ...1		TCTEVTMP	VTAM Predatory takeover
(5)	BITSTRING	1	TCTEDME2	Error type byte 2
	1... ....		TCTEDMPD	TCTTE Delete pending
	.1.. ....		TCTEDMAX	AUTOINSTALL max reached
	..1. ....		TCTEDMGF	O/S getmain failed
	...1 ....		TCTEDMUL	Unknown LU LOGON
	.... 1...		TCTEDMAI	Autoinstall inactive
	.... ..1.		TCTEDMIT	Invalid LOGON token
	.... ...1		TCTEDMRY	Terminal recovery in prog
	.... ...1		*	Reserved
(6)	CHARACTER	17	TCTEDMQN	Qualified network name
(6)	CHARACTER	8	TCTEDMNN	NETNAME
(E)	CHARACTER	1	TCTEDMDT	'.' SEPARATOR
(F)	CHARACTER	8	TCTEDMSQ	2NDARY SESSION QUALIFIER
(17)	CHARACTER	4	TCTEDMID	Termid
(1B)	CHARACTER	1	TCTEDMMI	Module instance ID
(1C)	ADDRESS	4	TCTEDMBD	Address of saved BIND
(20)	FULLWORD	4	TCTEDMBL	Length of saved BIND
(24)	UNSIGNED	4	TCTEDMSN	Sense data
(24)	UNSIGNED	1	TCTEDMS1	System sense byte 1
(25)	UNSIGNED	1	TCTEDMS2	System sense byte 2
(26)	UNSIGNED	1	TCTEDMU1	User sense byte 1
(27)	UNSIGNED	1	TCTEDMU2	User sense byte 2

DESCRIPTIVE NAME = Terminal Control Table Skeleton Entry

The TCT skeleton represents a terminal that is attached to another CICS address space and may interact with this CICS address space via the terminal sharing facility.

The two fields which form the key in the table management index 'TCTN', identify the TCTSE by which this CICS will access the terminal-owning address space and the name that the terminal has in its own address space.

The skeleton also exists in the 'TCTE' table management index

The skeleton is used by the Transaction Routing (some times called Terminal Shipping) component to hold definition information between INSTALL, and task-attach. The skeleton contains only the names unique to the entry, the other parameters are in a "model" referenced by the skeleton.

Models are shareable between skeletons.

The skeleton resides on the 'application' system, there must be a matching normal terminal entry on the 'terminal' system.

When a transaction is to be run, a 'surrogate' TCTTE is created in task-attach and made visible to the transaction program in the usual way.

A reference to the surrogate is placed in the skeleton while one exists.

LIFETIME = Created by ZC INSTALL; destroyed by ZC DELETE.  
 See DFHZCQ00.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	64	DFHTCTSK	
(0)	CHARACTER	4	TCTSKID	Terminal identifier (local).
(4)	CHARACTER	1	TCTSKTT	Fits under TCTTETT, and contains TCTTESKE.
(5)	CHARACTER	1	*	
	1... ....		TCTSKSIF	System Entry is inflight
	.1.. ....		TCTSKAIP	Aids in progress
	..1. ....		TCTSKNDL	Don't delete me
	...1 ....		TCTSKSHI	Definition shipped in
	.... 1...		TCTSKSAN	TCTSKSYS holds a name
	.... ..1.		TCTSKINF	Skeleton is inflight
	.... ...1		TCTSKPSH	Definition is shippable
	.... ...1		TCTSKSHO	Definition shipped out
(6)	CHARACTER	1	*	
	1... ....		TCTSKDDP	Delete started
	.1.. ....		TCTSK_VIRTUAL_TERMINAL	
	..1. ....		TCTSK_VT_BITMAP_USED	CICS Client skel
	...1 ....		TCTSK_RT_BITMAP_USED	CICS assigned name
	.... 1...		TCTSKNDF	CICS assigned RT name TCTSKNET was defaulted

Offset Hex	Type	Len	Name (Dim)	Description
	.... .1..		TCTSK_VT_ SO_CAPABLE	signon support for this virtual terminal
	.... ..11		*	Reserved
(7)	UNSIGNED	1	*	Reserved.
(8)	ADDRESS	4	TCTSKSYS	Owning system's TCTSE. or name
(C)	CHARACTER	4	TCTSKHID	Terminal ID in own reition.
(10)	ADDRESS	4	TCTSKMDE	Address of model TCTTE
(14)	ADDRESS	4	TCTSKSRE	Address of surrogate TCTTE
(18)	CHARACTER	8	TCTSKNET	Netname of TOR
(20)	CHARACTER	8	TCTSK_TITOKEN	token for remote delete
(28)	CHARACTER	8	TCTSK_TASK_ DETACH_TIME	
				timestamp
(30)	CHARACTER	8	TCTSK_TERMINAL_ NETNAME	
				NETNAME of terminal
(38)	CHARACTER	8	TCTSK_TOR_GRNAME	GR name of TOR

DESCRIPTIVE NAME = Terminal Control Table Transaction  
Restart Extension

If a transaction is defined to be eligible for restart, copies of the TCTUA and the first TIOA have to be kept in case the transaction is restarted.

When a transaction is defined as restartable, a transaction restart extension is getmained and hung off the TCTTE (TCTTERST) Copies of the TCTUA and the initial TIOA are taken. The extension consists of addresses of the copies, followed by the copied data itself. If no TCTUA or TIOA exists the relevant address is zero. If neither the TCTUA nor TIOA exists, no extension is getmained.

LIFETIME = Created by DFHZSUP at transaction start, deleted by DFHZISP when a transaction ends and is not restarting.

Any change to this structure must be reflected in DFHTCTZE A

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	24	DFHTCTRS	
(0)	CHARACTER	24	TCTRSFIX	Fixed part of extrn
(0)	CHARACTER	8	TCTRSEYE	Eyecatcher
(8)	FULLWORD	4	TCTRSLen	Length of restart data
(C)	ADDRESS	4	TCTRSTUA	Address of TCTUA copy
(10)	ADDRESS	4	TCTRSMFH	Address of FMH5 copy
(14)	ADDRESS	4	TCTRSTIO	Address of TIOA copy
(18)	CHARACTER		TCTRSCOP	Start of copy area

=====  
CCIN data which is hung from the TCTSE  
pointed to by TCSE\_CCINDATA\_PTR  
=====

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	68	TCSE_CCINDATA	
(0)	FULLWORD	4	TCSE_DATA_LENGTH	
(4)	CHARACTER	12	TCSE_HEADER_BLOCK	
(4)	FULLWORD	4	TCSE_HEADER_LENGTH	
(8)	UNSIGNED	1	TCSE_GROUP	
(9)	UNSIGNED	1	TCSE_FUNCTION	
(A)	UNSIGNED	1	TCSE_VERSION	
(B)	UNSIGNED	1	TCSE_RESPONSE	
(C)	UNSIGNED	2	TCSE_REASON	
(E)	UNSIGNED	2	TCSE_NUM_PARMS	
(10)	CHARACTER	13	TCSE_APPLID_PARM	
(10)	FULLWORD	4	TCSE_APPLID_LENGTH	
(14)	UNSIGNED	1	TCSE_APPLID_PARM_TYPE	
(15)	CHARACTER	8	TCSE_APPLID	
(1D)	CHARACTER	3	*	
(20)	CHARACTER	15	TCSE_CODEPAGE_PARM	
(20)	FULLWORD	4	TCSE_CODEPAGE_LENGTH	
(24)	UNSIGNED	1	TCSE_CODEPAGE_PARM_TYPE	

Offset Hex	Type	Len	Name (Dim)	Description	
(25)	CHARACTER	10	TCSE_CODEPAGE		
(2F)	CHARACTER	1	*		
(30)	CHARACTER	8	TCSE_CAPABILITIES_		
			PARM		
(30)	FULLWORD	4	TCSE_CAPABILITIES_		
			LENGTH		
(34)	UNSIGNED	1	TCSE_CAPABILITIES_		
			PARM_TYPE		
(35)	BITSTRING	1	TCSE_ENVIRON		
			*		
			TCSE_EBCDIC		
			TCSE_BIGENDIAN		
(36)	BITSTRING	2	TCSE_CLIENT_		
			CAPABILITIES		
(36)	BITSTRING	1	*		
			TCSE_EXIT_		
			PROCESSING		
			TCSE_TRANSLATE_		
			CAPABLE		
			TCSE_DELETE_		
			ENTRIES		
			TCSE_TCTUA_		
			COMMAREA		
			*		
			TCSE_EXIT_		
			PROCESSING		
			TCSE_TRANSLATE_		
			CAPABLE		
			TCSE_DELETE_		
			ENTRIES		
			TCSE_TCTUA_		
			COMMAREA		
			*		
(37)	BITSTRING	1	*		
(38)	CHARACTER	9	TCSE_SECURITY_ PARM		
(38)	FULLWORD	4	TCSE_SECURITY_		
			LENGTH		
(3C)	UNSIGNED	1	TCSE_SECURITY_		
			PARM_TYPE		
(3D)	UNSIGNED	1	TCSE_ECIATTACH_		
			USERID		
(3E)	UNSIGNED	1	TCSE_ECIATTACH_		
			PASSWORD		
(3F)	UNSIGNED	1	TCSE_EPIATTACH_		
			USERID		
(40)	UNSIGNED	1	TCSE_EPIATTACH_		
			PASSWORD		
#					
#					
#	(41)	UNSIGNED	1	TCSE_CTINATTACH_ REQS	
	(42)	HALFWORD	2	TCSE_CTIN_	
			INSTALL_COUNT		

**APAR PQ30168**  
 added TCSE\_CTINATTACH\_REQS

=====  
 CTIN data which is hung from the virtual terminal surrogate TCTTE  
 pointed to by TCTE\_CTINDATA\_PTR.  
 =====

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	18	TCTE_CTINDATA	
(0)	CHARACTER	8	TCTE_CODEPAGE_ TOKEN	
(8)	CHARACTER	10	TCTE_CODEPAGE	

## Constants

Len	Type	Value	Name	Description
1	HEX	01	TCTTET77	7770
1	HEX	02	TCTTES7	System 7
1	HEX	08	TCTTECON	Console
1	HEX	12	TCTTETS D	SEQUENTIAL DISK
1	HEX	14	TCTTETMT	MAGNETIC TAPE
1	HEX	18	TCTTETCR	CARD READER/LINE printer
1	HEX	19	TCTTETS Y	SPOOLING system printer
1	HEX	1A	TCTTETIN	SPOOLING INTERNAL READER
1	HEX	20	TCTTETHC	HARD COPY TERMINALS
1	HEX	21	TCTTETWX	Model 33/35 TWX
1	HEX	22	TCTTETLX	TELETYPEWRITER
1	HEX	24	TCTTET50	1050
1	HEX	28	TCTTET40	2740
1	HEX	2A	TCTTET4C	2741 CORRESPONDENCE
1	HEX	2B	TCTTET4E	2741 EBCDIC
1	HEX	40	TCTTETVO	VIDEO TERMINALS
1	HEX	41	TCTTET6L	2260 local
1	HEX	48	TCTTET6R	2260 remote
1	HEX	4A	TCTTET53	1053
1	HEX	4C	TCTTET65	2265
1	HEX	50	TCTTETAM	TCAM
1	HEX	80	TCTTETBI	BI-SYNCHRONOUS
1	HEX	82	TCTTET70	2770
1	HEX	84	TCTTET80	2780
1	HEX	85	TCTTE378	3780
1	HEX	86	TCTTE298	2980
1	HEX	88	TCTTET35	3735
1	HEX	89	TCTTET74	3740
1	HEX	8A	TCTTET36	3600 BISYNCH
1	HEX	91	TCTTET37	3277 remote BTAM and REMOTE/LOCAL VTAM
1	HEX	92	TCTTET75	3275 remote
1	HEX	93	TCTTET84	BTAM 3284 remote AND VTAM 3270P all
1	HEX	94	TCTTET86	BTAM 3286 remote
1	HEX	99	TCTTETL7	3277 local BTAM
1	HEX	9B	TCTTETL4	BTAM 3284 local
1	HEX	9C	TCTTETL6	BTAM 3286 local
1	HEX	A0	TCTTETPD	BISYNCH - PROGRAMMABLE
1	HEX	A1	TCTTES3	System/3
1	HEX	A4	TCTTE370	System/370
1	HEX	A6	TCTTES7B	System/7 with BSCA
1	HEX	A6	TCTTEPUB	PROGRAMMABLE device
1	HEX	A5	TCTTE113	Reserved-PROGRAMMABLE DEVICE
1	HEX	B0	TCTESDLC	SDLC device class
1	HEX	B1	TCTE3601	3601
1	HEX	B2	TCTE3614	3614
1	HEX	B4	TCTE3790	3790
1	HEX	B5	TCTE90UP	3790 USERPROGRAM
1	HEX	B6	TCTE90PR	3790 SCS printer
1	HEX	B8	TCTE50PL	3650 PIPELINE
1	HEX	B9	TCTE53HC	3653 HOST CONVERSATIONAL
1	HEX	BA	TCTE70HC	3650 ATTACHED 3270 H.C.
1	HEX	BB	TCTE50UP	3650 USERPROGRAM
1	HEX	BD	TCTETCLU	CONTENTION logical unit
1	HEX	BE	TCTETILU	INTERACTIVE logical unit
1	HEX	BF	TCTETBLU	Batch logical unit
1	HEX	C0	TCTELU6	LUTYPE 6
1	HEX	C1	TCTELU4	LUTYPE 4
1	HEX	D0	TCTTEISL	System entry
1	HEX	D1	TCTTEISC	MRO Conversation
1	HEX	D2	TCTTEMG P	LUC mode group entry
1	HEX	D3	TCTTELUS	LUC session
1	HEX	DF	TCTT3750	1750/3750 switching system
1	HEX	E2	TCTTESKE	Skeleton entry
1	HEX	E3	TCTTECWE	Evanescent console
1	HEX	E4	TCTTEAWE	Evanescent terms *
ACCESS METHOD FLAGS				
1	HEX	00	TCTELCL	local TERMINATOR-TCSE only
1	HEX	80	TCTEVTAM	Access Method - VTAM
1	HEX	40	TCTEBTAM	Access Method - BTAM
1	HEX	20	TCTEBSAM	Access Method - BSAM
1	HEX	10	TCTETCAM	Access Method - TCAM
1	HEX	08	TCTEGAM	Access Method - GAM
1	HEX	02	TCTEISMM	Access Method - ISMM
1	HEX	01	TCTETMSN	Access Method - TCAM SNA (bit testing only)
1	HEX	11	TCTETCSN	Access Method - TCAM SNA (byte testing only)
VTAM BUILD AREA CONSTANTS				
1	HEX	10	TCTENMA	No MSG avail and no LDC *
1	HEX	20	TCTEALM	ALARM
1	HEX	40	TCTEFOD	Formatted data
1	HEX	80	TCTESYM	System message generic MSK *
1	HEX	90	TCTEABI	Abnormal initiation
1	HEX	A0	TCTEABT	Abnormal termination

Len	Type	Value	Name	Description
1	HEX	C0	TCTEIFM	Information message
1	HEX	D0	TCTERPM	Retry PROTOCOL MSG
--				
1	DECIMAL	0	CR_PEND_RECOVERY_IGNORE	
1	DECIMAL	1	CR_PEND_RECOVERY_NECESSARY	
1	DECIMAL	2	CR_PEND_RECOVERY_UNNECESSARY	
0	BIT	00	CR_UOW_COLD	
0	BIT	01	CR_UOW_COMMITTED	
0	BIT	10	CR_UOW_BACKED_OUT	
0	BIT	11	CR_UOW_INDOUBT	
0	BIT	11	CR_UOW_DISPOSITION_MASK	
0	BIT	0	PRESUMED_ABORT	
0	BIT	1	PRESUMED_NOthing	
0	BIT	00	CR_RESYNC_UNKNOWN	we cold started
0	BIT	01	CR_RESYNC_OLD	partner pre-5.1
0	BIT	10	CR_RESYNC_NEW	partner 5.1+
0	BIT	11	CR_RESYNC_MASK	field mask
0	BIT	000	CR_1ST_LEG	
0	BIT	001	CR_2ND_LEG	
0	BIT	010	CR_3RD_LEG	
0	BIT	0	UNRELIABLE	
0	BIT	1	RELIABLE	
?DFHZCHM TYPE(DECLARE) Values of TCTECHSS				
1	DECIMAL	1	TCTE_BETWEEN_CHAINS_SEND	
1	DECIMAL	2	TCTE_IN_CHAIN_SEND	
1	DECIMAL	3	TCTE_AWAITING_RESPONSE_SEND	
1	DECIMAL	4	TCTE_PENDING_RESPONSE_SEND	
1	DECIMAL	5	TCTE_NEGATIVE_RESPONSE_RECEIVED	
1	DECIMAL	6	TCTE_BETWEEN_CHAINS_RECEIVE	
1	DECIMAL	7	TCTE_IN_CHAIN_RECEIVE	
1	DECIMAL	8	TCTE_PENDING_RESPONSE_RECEIVE	
1	DECIMAL	9	TCTE_AWAITING_RESPONSE_RECEIVE	
1	DECIMAL	10	TCTE_NEGATIVE_RESPONSE_SEND	
?DFHZBSM TYPE(DECLARE) Values of TCTEBKTS				
1	DECIMAL	1	TCTE_BETWEEN_BRACKETS	
1	DECIMAL	2	TCTE_IN_BRACKET	
1	DECIMAL	3	TCTE_IN_BRACKET_TERM_SEND	
1	DECIMAL	4	TCTE_IN_BRACKET_TERM_RECEIVE	
?DFHZCNM TYPE(DECLARE) Values of TCTECNTS				
1	DECIMAL	1	TCTE_NOT_BOUND	
1	DECIMAL	2	TCTE_NOT_BOUND_CON_WIN	
1	DECIMAL	3	TCTE_NOT_BOUND_CON_LOSE	
1	DECIMAL	4	TCTE_BOUND_CON_WIN	
1	DECIMAL	5	TCTE_BOUND_CON_LOSE	
1	DECIMAL	6	TCTE_BOUND_CON_WIN_ALLOCATED	
1	DECIMAL	7	TCTE_BOUND_CON_LOSE_ALLOCATED	
1	DECIMAL	8	TCTE_BOUND_CON_WIN_RTR_SENT	
1	DECIMAL	9	TCTE_BOUND_CON_LOSE_RTR_SENT	
1	DECIMAL	10	TCTE_BOUND_CON_WIN_RTR_PEND	
1	DECIMAL	11	TCTE_BOUND_CON_LOSE_RTR_PEND	
1	DECIMAL	12	TCTE_BOUND_CON_LOSE_ALLOCATED	
1	DECIMAL	13	TCTE_BOUND_CON_LOSE_BIDDING	
1	DECIMAL	14	TCTE_BOUND_CON_LOSE_BB_CROSSING	
1	DECIMAL	15	TCTE_BOUND_CON_LOSE_RTR_PEND	
1	DECIMAL	16	TCTE_BOUND_CON_LOSE_REBID_PEND	
1	DECIMAL	17	TCTE_BOUND_CON_LOSE_AWAITING_ACTIVITY	
1	DECIMAL	18	TCTE_BOUND_CON_WIN_BID_ACCEPTED	

Len	Type	Value	Name	Description
?DFHZCRM TYPE(DECLARE) Values of TCTERPBS				
1	DECIMAL	1	TCTE_INACTIVE	
1	DECIMAL	2	TCTE_INCOMP_REC_WAIT	
1	DECIMAL	3	TCTE_COMP_REC_WAIT	
1	DECIMAL	4	TCTE_INCOMP_REC_IMM	
1	DECIMAL	5	TCTE_COMP_REC_IMM	
1	DECIMAL	6	TCTE_PROCESSED	
1	DECIMAL	7	TCTE_READ_AHEAD	
1	DECIMAL	8	TCTE_RESETSR	
?DFHZUSRM TYPE(DECLARE) Values of TCTEUSRS				
1	DECIMAL	1	TCTE_NOT_ALLOCATED	
1	DECIMAL	2	TCTE_ALLOCATE_ IN_PROGRESS	
1	DECIMAL	3	TCTE_ALLOCATED_SEND	
1	DECIMAL	4	TCTE_ALLOCATED_ RECEIVE_PENDING	
1	DECIMAL	5	TCTE_ALLOCATED_ RECEIVE	
1	DECIMAL	6	TCTE_FREE_ PENDING_SEND	
1	DECIMAL	7	TCTE_FREE_REQUIRED	
1	DECIMAL	8	TCTE_IN_SYNCPT_ SENDER_ONE_PHASE	
1	DECIMAL	9	TCTE_IN_SYNCPT_ RCVER_ONE_PHASE	
1	DECIMAL	10	TCTE_IN_SYNCPT_ SENDER_TWO_PHASE	
1	DECIMAL	11	TCTE_IN_SYNCPT_ RCVER_TWO_PHASE	
1	DECIMAL	12	TCTE_IN_SYNCPT_ BACKOUT_SENDER	
1	DECIMAL	13	TCTE_IN_SYNCPT_ BACKOUT_RECEIVER	
1	DECIMAL	14	TCTE_ALLOCATED_ CONFIRM_SENDER	
1	DECIMAL	15	TCTE_ALLOCATED_ CONFIRM_RECEIVER	
Persistent Sessions State Constants for TCTE_PRSS				
1	HEX	00	TCTE_NO_PRSS_ RECOVERY	
1	HEX	01	TCTE_NIB_MATCHED	
1	HEX	02	TCTE_OPNDST_ RESTORE_COMPLETED	
1	HEX	20	TCTE_ZXRC_CLEANUP	
1	HEX	21	TCTE_ZXRC_ ISSUE_RECOVERY_MSG	
1	HEX	30	TCTE_ZXPS_CLEANUP	
1	HEX	31	TCTE_ZXPS_ DEALLOCATE_ABEND	
1	HEX	32	TCTE_ZXPS_ SEND_IN_PROGRESS	
1	HEX	33	TCTE_ZXPS_ ISSUE_RECOVERY_MSG	
1	HEX	34	TCTE_ZXPS_ RECEIVE_IN_PROGRESS	
1	HEX	41	TCTE_ZGDA_FMH7_SEND	
1	HEX	42	TCTE_ZGDA_FMH7_COMP	
1	HEX	43	TCTE_ZGDA_FMH7_REC	
1	HEX	44	TCTE_ZGDA_ FMH7_REC_EOC	
1	HEX	45	TCTE_ZGDA_RESP	
1	HEX	FF	TCTE_PRSS_ CLSDST_SCHEDULED	
1	HEX	FF	TCTE_CLSDST_ SCHEDULED	
Used in 3735 Mode Control byte TCTTEMCI				
1	HEX	00	TCTTEMCO	Initialization image
Used in 3740 Mode Control byte TCTTENCI				
1	HEX	00	TCTTENC0	Initialization image
Used in IRC bracket status byte TCTESBRS				
1	HEX	00	TCTESOB	OUT OF BRACKET
1	HEX	80	TCTESIB	IN BRACKET
1	HEX	40	TCTESBBR	BEGIN BRACKET received
1	HEX	10	TCTESBBS	BEGIN BRACKET sent
1	HEX	08	TCTESEBS	END BRACKET sent
1	HEX	04	TCTESEBR	END BRACKET received
SYSTEM TABLE ENTRY DEFINITIONS				
Used in TCSETYPE				
1	CHARACTER	S	TCSETSYS	Full system entry

Len	Type	Value	Name	Description
1	CHARACTER	L	TCSETLOC	Local region, no links
1	CHARACTER	I	TCSETIND	INDIRECT System Entry
Used in TCSEDSP (DATA-STREAM)				
1	HEX	40	TCSEDSLM	LMS
1	HEX	30	TCSEDSST	Structured field
1	HEX	20	TCSEDS32	3270
1	HEX	10	TCSEDS3C	SCS
1	HEX	00	TCSEDSUS	User
Used in TCSEDBA (DE-blocking algorithm)				
1	HEX	04	TCSEDBUS	User defined
1	HEX	01	TCSEDBVB	Variable length blocked
VTAM INTERNAL REQUESTS for ZSDS ROUTINE Used in TCTERCMO :-				
1	HEX	40	TCTERCSM	CONTINUE SPECIFIC mode
1	HEX	C0	TCTERCA	CONTINUE ANY mode
Used in TCTERMOD :-				
1	HEX	00	TCTERSYN	Reset RTYPE DFSYN
1	HEX	01	TCTERRSP	Reset RTYPE RESP
1	HEX	03	TCTERASY	Reset RTYPE DFASY
LUC Constants TCTE_BID_STATUS constants used in DFHZXPS :-				
1	HEX	01	TCTE_SEND_	POSITIVE_RESPONSE
1	HEX	02	TCTE_SEND_	NEGATIVE_RESPONSE
1	HEX	03	TCTE_SEND_RTR	
1	HEX	04	TCTE_SENT_RTR	
1	HEX	05	TCTE_SEND_LUSTAT_EB	
1	HEX	06	TCTE_AWAITING_	BB_RESPONSE
1	HEX	07	TCTE_SENT_	POSITIVE_RESPONSE
1	HEX	08	TCTE_0814_RECEIVED	
1	HEX	09	TCTE_0813_RECEIVED	
1	HEX	0A	TCTE_SEND_	RECOVERY_MESSAGE
1	HEX	0D	TCTE_SEND_	LUSTAT_BB_EB
TCTE_RESP_STATUS constants used in DFHZXPS				
1	HEX	01	TCTE_DR1_OUTSTANDING	
1	HEX	02	TCTE_DR1_EXPECTED	
NIB Descriptor Constants Used in TCTESTAC :-				
1	HEX	00	TCTEACIG	STSN ACTION - IGNORE
1	HEX	01	TCTEACSE	STSN ACTION - SET
1	HEX	02	TCTEACIV	STSN ACTION - INVALID
1	HEX	03	TCTEACST	STSN ACTION - STSN
1	DECIMAL	0	TCTESPL0	--- NONE
1	DECIMAL	1	TCTESPL1	--- COMMIT
1	DECIMAL	2	TCTESPL2	--- all
1	HEX	00	TCTEUNMP	"UNMAPPED"
1	HEX	FF	TCTECV0	CONV. type not set
Used in TCTESTRP :-				
1	HEX	20	TCTERPRR	STSN response - RESET *
1	HEX	08	TCTERPTP	STSN response +ve RPLOPOS *
1	HEX	04	TCTERPTN	STSN response -ve RPLONEG *
1	HEX	02	TCTERPIV	STSN response inv RPLOINV *
Length of a Skeleton Entry				
4	DECIMAL	64	TCTSKDSP	
Length of a fixed part of restart extension				
4	DECIMAL	24	TCTRSFLN	

**TCTWA TCT transaction work area**

MODULE NAME = DFHTCTWA  
 DESCRIPTIVE NAME = CICS TCT Transaction Work Area  
 FUNCTION = This DSECT defines the Transaction Work Area for the  
 Terminal Control Transaction itself. This transaction  
 responds to requests for terminal services.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHTCTWA	TWA address is in TCATWAAD
(0)	DBL WORD	8	TCTWA (0)	Start of TC TWA
(0)	ADDRESS	4	TCSPTA	Read terminal entry address
(4)	CHARACTER	1	TCPIND	Polling indicator
(5)	CHARACTER	3	TCERRSA	Terminal error code save area
(8)	ADDRESS	4	TCTXTPA	Terminal pool address
(C)	BITSTRING	1	TCTXLPAF (0)	Line in pool avail flag byte
			TCTXLPAV	"X'80" Line in pool avail (3170L)
(C)	ADDRESS	4	TCTXLP	1st line in pool pointer save
(10)	ADDRESS	4	TCTRNTA	Translate table address
(14)	ADDRESS	4	TCL3PTSV	Local 3270 poll terminal save
(18)	ADDRESS	4	TCTSPRA	Specific poll return address
(1C)	ADDRESS	4	TCTWLA	Active wait list address
(20)	BITSTRING	1	TWASDCF	Single drop control flag
(21)	BITSTRING	1	(3)	Reserved
(24)	FULLWORD	4	TWATDRSV	TCP dispatcher return save
(28)	FULLWORD	4	TWACTIOE	2260 TIOA end save area
(2C)	FULLWORD	4	TWACFWD1	Full word work area
(30)	FULLWORD	4	TWACFWD2	Full word work area
(34)	FULLWORD	4	TWACFWD3	Full word work area
(38)	FULLWORD	4	TWACFWD4	Full word work area
(3C)	BITSTRING	1	TWATEPF	Timer completion
			.1.. ....	TWATEPI
			.1. ....	TWALSEI
(3D)	BITSTRING	1	TWACFLAG	Compatibility control flags
			.... ...1	TWACDSCI
			.... ..1.	TWACWSI
			.... ..1.	TWACSLI
			.... 1...	TWACSSFI
			.... 1....	TWACWSIT
(3E)	HALFWORD	2	TWAC2260	Number of chars/line for 2260
(40)	HALFWORD	2	TWAC3270	Number of chars/line for 3270
(42)	HALFWORD	2	TWAFDLBA	First display LN begin address
(44)	HALFWORD	2	TWALDLBA	Last display line begin address
(46)	HALFWORD	2	TWAIBDL	Increment between display lines
(48)	HALFWORD	2	TWACNBEO	Number if bytes for erase
			.... 11..	TWACAL
(4A)	HALFWORD	2	TWACBAP	Current buffer address position
(4C)	HALFWORD	2	TWACLSA	Current line start address
(4E)	CHARACTER	256	TCTTT	Input data length T & T table
(50)	DBL WORD	8	RCLOCK	Time of day clock
(58)	FULLWORD	4	OCLOCK	Word to save internal clock
(5C)	FULLWORD	4	MSGNTNM (0)	
(5C)	ADDRESS	1		
(5D)	ADDRESS	1		GENERATE LENGTH
(5E)	BITSTRING	1		OPTION BYTE
(5F)	BITSTRING	1		RESERVED
(60)	CHARACTER	10		
(6A)	CHARACTER	8	NETNAME2	
(72)	CHARACTER	3		
(75)	CHARACTER	35	JOBNAME2	
			1..1 1...	***
			1..1 1...	***
(150)	FULLWORD	4	TWAXRPL (0)	
(150)	BITSTRING	1		V*1 request byte
(151)	BITSTRING	1		V*2 request byte modifier
(152)	BITSTRING	1		V*3 MVS System indicator
(153)	BITSTRING	1		V*4 response byte
(154)	BITSTRING	1		V*5 XRF
(155)	BITSTRING	1		V*6 TAKEOVR
(156)	CHARACTER	1		V*7 SURVEILLANCE
(157)	CHARACTER	1		V*8 signon status
(158)	CHARACTER	8	(0)	generic applid
(158)	CHARACTER	8	(0)	'time' xx ECB posted
(158)	CHARACTER	8	(0)	program name
(158)	CHARACTER	4		- domain id
(15C)	CHARACTER	4		- reserved
(160)	CHARACTER	8	(0)	specific applid
(160)	CHARACTER	4		- error id
(164)	FULLWORD	4		- global data address
(168)	FULLWORD	4	(0)	ADI



Offset Hex	Type	Len	Name (Dim)	Description
(168)	CHARACTER	4		- MVS id.
(16C)	FULLWORD	4	(0)	JESDI
(16C)	CHARACTER	4		- JES subsystem id.
(170)	FULLWORD	4	(0)	PDI
(170)	FULLWORD	4		Lower clock difference
(174)	FULLWORD	4		Upper clock difference
(178)	CHARACTER	8		XCF Sysplex name
(180)	CHARACTER	8		MVS System name
(188)	CHARACTER	4		MVS instance token
(188)			TCTWALEN	"-TCTWA" TCP'S TWA Length
(0)	FULLWORD	4	TCRAFDA	First data record address
	.... ..1.		TCRAAREC	"X'02" Re-entered ind. constant

---

## TCTWE VTAM autoinstall work element

```

Bilingual Control block
=====

CONTROL BLOCK NAME = DFHTCTWE

DESCRIPTIVE NAME = CICS (VTAM) AUTOINSTALL WORK EMENT

FUNCTION = Provide mapping for autoinstall work element components.

The DSECT is used solely within the ZCP DOMAIN.

There are as many WE's as there are autoinstall requests
in progress.

The WE is used to store the CINIT_RU or BIND so that the
logon may be attempted by DFHZATA.

If the WE contains a TCTTE address then this is a
Postponed autoinstall work element (PWE), created by
DFHZLGX when there is a LOGON for a TCTTE which is
currently being deleted.

If the WE has TCTTECWE set then it is a Autoin-
stall Work Element used to autoinstall a
console and to sign-off or sign-on a known
console automatically.

LIFETIME = The WE is created by a GETMAIN issued by DFHZLGX
(LOGON-EXIT) or DFHZSCX (SCIP exit) or DFHZCNA
(Console Input) when an unknown terminal or
console or APPC device attempts to LOGON or BIND
or an unknown console issues an MVS MODIFY. It
is also created if a known console needs to be
signed-off or signed-on automatically.
It is also created for a known terminal subject to
certain restrictions. The WE is freed by DFHZNCA
after DFHZNEP is driven for the OPNDST contition
TWAEC=TCSOPSIN or prior to DFHZNEP being driven for
a CLSDST contition TWAEC=TCACLSIN.

The WE is freed by DFHZATA when the request has been
processed.

STORAGE CLASS = USER(OS - SUBPOOL 1)

LOCATION = For unknown terminals, each WE is chained off the
previous one and the first one is anchored from
TCTVANWE in the TCT prefix. After the TCTTE is
built by DFHZATA for autoinstall-eligible devices,
the WE address is saved in TCTEAWEA. For known
terminals, DFHZLGX updates TCTEAWEA.

INNER CONTROL BLOCKS = NONE

NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = NONE
MODULE TYPE = DSECT

EXTERNAL REFERENCES = NONE

DATA AREAS = NONE

CONTROL BLOCKS = NONE

GLOBAL VARIABLES (MACRO PASS) = NONE

=====
=====
AUTOINSTALL WORK - ELEMENT DSECT
=====
    
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	DFHTCTWE	Autoinstall work element
(0)	ADDRESS	4	TCTWECHN	- AWE chain field
(4)	ADDRESS	4	TCTWE_VTAM_BIND	- address of VTAM read only bind
(8)	UNSIGNED	1	TCTWETYP	- Data type ID

Offset Hex	Type	Len	Name (Dim)	Description
(9)	UNSIGNED	3	TCTWELEN	- Length of this block
(C)	ADDRESS	4	TCTWETEA	- TCTTE ptr if PWE.
(10)	CHARACTER	8	TCTWE_TEMPLATE_	
			NETNAME	
				- NETNAME of GR template
# (18)	CHARACTER	8	TCTWE_NETID	- Network ID
# (18)	CHARACTER	8	TCTWE_NETNAME	- NETNAME if CINIT
(20)	CHARACTER	4	TCTWECID	- VTAM CID
(24)	UNSIGNED	2	TCTWE_RPLSEQNO	- for opnsec
(26)	UNSIGNED	1	*	- flag byte 1
	1... ..		TCTWE_BIND_ CLONING	
				- On if APPC bind input
#	.1.. ..		TCTWE_GR	- On if both sides are GR registered
#	..1. ..		TCTWE_GRNAME_ CONN	- On if this GR conn is known by its GR name.
#				- Off if this is a GR conn known by its member name.
	...1 ..		TCTWE_USE_	
			OUR_MEMBER_NAME	
#				- On if partner knows us by our member name (NRINNAMS)
#				- Off if partner knows us by our GR name ~(NRINNAMS)
(27)	UNSIGNED	1	*	- flag byte 1
(28)	HALFWORD	2	TCTWECLN	- length of CINIT_RU or
(28)	HALFWORD	2	TCTWE_BIND_ LENGTH	- length of APPC BIND
(2A)	CHARACTER	*	TCTWECRU	- CINIT_RU or
(2A)	CHARACTER	*	TCTWE_BIND	- APPC BIND

```

=====
Autoinstall Work Element - Console Overlay
=====
    
```

Offset Hex	Type	Len	Name (Dim)	Description
# (20)	STRUCTURE	*	TCTCWE	Console work element
# (20)	HALFWORD	2	TCTCWE_DATA	- Length of input
# (22)	UNSIGNED	1	TCTCWE_FLG	- Flag byte
#	1... ..		TCTCWE_EXT	- Ext cons support
#	.1.. ..		TCTCWE_SEC	- Userid present
#	..1. ..		TCTCWE_SGN	- Sign-Off/Sign-On
#	...1 1111		*	Reserved
# (23)	CHARACTER	1	*	Reserved
# (24)	CHARACTER	8	TCTCWE_CART	- Saved CIBXCART
# (2C)	CHARACTER	4	TCTCWE_CNID	- CIBXCNID/CIBXCOCID
# (30)	CHARACTER	8	TCTCWE_CNMM	- Saved CIBXCNNM
# (30)	CHARACTER	1	TCTCWE_CONID	- Saved CIBCONID
# (31)	CHARACTER	7	*	Reserved
# (38)	CHARACTER	10	TCTCWE_USERID	- Userid signed on
# (42)	HALFWORD	2	TCTCWE_USERID_LEN	- length of userid
# (44)	CHARACTER	4	TCTCWE_TERMID	- Termid for signon
#				<b>APAR PQ29805</b>
#				added TCTCWE_CHAIN and changed the offset for TCTCWE_DATA
# (48)	ADDRESS	*	TCTCWE_CHAIN	- Active WE chain
# (4C)	CHARACTER	*	TCTCWE_DATA	- Input from console

---

**TCV29 XRF mapping session state vector '29'**

CONTROL BLOCK NAME = DFHTCV29  
DESCRIPTIVE NAME = CICS (XRF) Mapping Session State Vector '29'  
FUNCTION =  
For XRF:-  
Defines the data returned in response to the XRF Switch command. When the XRF backup system issues the Switch command to take over a session, the response data received is described by Session State Data Control Vector X'29'.  
This data is used by CICS to determine state of the session at takeover so that the appropriate Cleanup action can be taken.  
For Persistent Sessions:-  
The data is returned following the OPNDST OPTCD=RESTORE issued by DFHZGRP after a Persistent Sessions restart.  
LIFETIME =  
For a Persistent sessions restart, a TIOA is acquired to hold this data when the OPNDST OPTCD=RESTORE command is issued.  
For XRF, this data is held in the RPL after the Switch command is issued.  
The area is freemained when the data has been examined.  
STORAGE CLASS = Terminal  
LOCATION = Normal TIOA addressing  
INNER CONTROL BLOCKS = None  
NOTES :  
DEPENDENCIES = S/370  
RESTRICTIONS = NONE  
MODULE TYPE = DSECT

```

    PLS declaration of the session state CV29 DSECT
    declare
    1 dfhtcv29 based,
    2 tc29ikey char(1), Vector key
    2 tc29len bin(8), Length of vector
    2 bit(8), Switch definition byte
    2 tc29dfw bit(8), Data flow indicators
    3 tc29stp bit(1), Last req/resp was slu-to-plu
    3 tc29exp bit(1), Last req/resp was expedited
    3 tc29rsp bit(1), Last PIU was a response
    3 tc29prx bit(1), Exp. resp. not sent to plu
    3 tc29srx bit(1), Exp. resp. not sent to slu
    3 tc29pac bit(1), Pacing resp. sent to slu
    3 bit(2), Reserved
    2 char(1), Reserved
    PLU-to-SLU data - Normal Flow information
    2 char(5), Last FIC or LIC sent plu-to-slu
    3 tc29pfnu char(2), Sequence number
    3 tc29pfrh char(3), Request Header
    2 char(10), Last Request sent plu-to-slu
    3 tc29pqnu char(2), Sequence number
    3 tc29pqrh char(3), Request Header
    3 tc29pqr char(5), First 5 bytes of Request RU
    2 char(9), Last Response sent plu-to-slu
    3 tc29ppnu char(2), Sequence number
    3 tc29pprh char(2), First 2 bytes of Request Header
    3 tc29ppru char(5), First 5 bytes of response RU
    PLU-to-SLU data - Expedited Flow information
    2 char(10), Last Expedited request sent
    3 tc29pxqn char(2), Sequence number
    3 tc29pxqh char(3), Request Header
    3 tc29pxqu char(5), First 5 bytes of Request RU
    2 char(9), Last Expedited Response sent
    3 tc29pxpn char(2), Sequence number
    3 tc29pxph char(2), First 2 bytes of Request Header
    3 tc29pxpu char(5), First 5 bytes of Response RU
    SLU-to-PLU data - Normal Flow information
    2 char(5), Last FIC or LIC sent slu-to-plu
    3 tc29sfnu char(2), Sequence number
    3 tc29sfrh char(3), Request Header
    2 char(10), Last Request sent slu-to-plu
    3 tc29sqnu char(2), Sequence number
    3 tc29sqrh char(3), Request Header
    3 tc29sqru char(5), First 5 bytes of Request RU
    2 char(9), Last Response sent slu-to-plu
    3 tc29spnu char(2), Sequence number
    3 tc29sprh char(2), First 2 bytes of Request Header
    3 tc29spru char(5), First 5 bytes of response RU
    SLU-to-PLU data - Expedited Flow information
    2 char(10), Last Expedited request sent
    3 tc29sxqn char(2), Sequence number
    3 tc29sxqh char(3), Request Header
    3 tc29sxqu char(5), First 5 bytes of Request RU
    2 char(9), Last Expedited Response sent
    3 tc29sxp char(2), Sequence number
    3 tc29sxph char(2), First 2 bytes of Request Header
    3 tc29sxpu char(5), First 5 bytes of Response RU
    dcl tc29key bit(8) constant('29X'); Vector key
    ASM declaration of the session state CV29 DSECT
    Start of assembler
    
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHTCV29	
(0)	BITSTRING	1	TC29IKEY	"X'29" Vector key
	..1. 1..1		TC29KEY	
(1)	BITSTRING	1	TC29LEN	Length of Vector
(2)	BITSTRING	1	(0)	Switch type definition byte
(2)	BITSTRING	1	TC29REQ (0)	Switch Request
	...1 ....		TC29CON	"X'10" Switch is conditional
	..1. ....		TC29FOR	"X'20" Switch is Forced
	..11 ....		TC29ERR	"X'30" Primary Session error
(2)	BITSTRING	1	TC29STAT (0)	Switch State
	.... ...1		TC29BAK	"X'01" Primary ready to be backup
	.... ..1.		TC29PRI	"X'02" Backup ready to be primary
(2)	BITSTRING	1		
(3)	BITSTRING	1	TC29DFW (0)	Data flow indicators
	1... ....		TC29STP	"X'80" Last Req/Resp was slu-to-plu
	.1.. ....		TC29EXP	"X'40" Last Req/Resp was Expedited
	..1. ....		TC29RSP	"X'20" Last PIU was a response
	...1 ....		TC29PRX	"X'10" Exped. resp not sent to plu
	.... 1...		TC29SRX	"X'08" Exped. resp not sent to slu
	.... .1..		TC29PAC	"X'04" Pacing resp sent to slu
(3)	BITSTRING	1		

Offset Hex	Type	Len	Name (Dim)	Description
(4)	BITSTRING	1		Reserved
PLU-to-SLU data - Normal Flow information				
(5)	BITSTRING	24	(0)	plu-to-slu Normal Flow info
(5)	BITSTRING	5	(0)	Last FIC or LIC sent plu-to-slu
(5)	BITSTRING	2	TC29PFNU	Sequence number
(7)	BITSTRING	3	TC29PFRH	Request Header
(A)	BITSTRING	10	(0)	Last Request sent plu-to-slu
(A)	BITSTRING	2	TC29PQNU	Sequence number
(C)	BITSTRING	3	TC29PQRH	Request Header
(F)	BITSTRING	5	TC29PQRU	First 5 bytes of Request RU
(14)	BITSTRING	9	(0)	Last Response sent plu-to-slu
(14)	BITSTRING	2	TC29PPNU	Sequence number
(16)	BITSTRING	2	TC29PPRH	First 2 bytes of Request Header
(18)	BITSTRING	5	TC29PPRU	First 5 bytes of response RU
PLU-to-SLU data - Expedited Flow information				
(1D)	BITSTRING	19	(0)	plu-to-slu Expedited Flow info
(1D)	BITSTRING	10	(0)	Last Expedited request sent
(1D)	BITSTRING	2	TC29PXQN	Sequence number
(1F)	BITSTRING	3	TC29PXQH	Request Header
(22)	BITSTRING	5	TC29PXQU	First 5 bytes of Request RU
(27)	BITSTRING	9	(0)	Last Expedited Response sent
(27)	BITSTRING	2	TC29XPXN	Sequence number
(29)	BITSTRING	2	TC29XPXH	First 2 bytes of Request Header
(2B)	BITSTRING	5	TC29XPXU	First 5 bytes of Response RU
SLU-to-PLU data - Normal Flow information				
(30)	BITSTRING	24	(0)	slu-to-plu Normal Flow info
(30)	BITSTRING	5	(0)	Last FIC or LIC sent slu-to-plu
(30)	BITSTRING	2	TC29SFNU	Sequence number
(32)	BITSTRING	3	TC29SFRH	Request Header
(35)	BITSTRING	10	(0)	Last Request sent slu-to-plu
(35)	BITSTRING	2	TC29SQNU	Sequence number
(37)	BITSTRING	3	TC29SQRH	Request Header
(3A)	BITSTRING	5	TC29SQRU	First 5 bytes of Request RU
(3F)	BITSTRING	9	(0)	Last Response sent slu-to-plu
(3F)	BITSTRING	2	TC29SPNU	Sequence Number
(41)	BITSTRING	2	TC29SPRH	First 2 bytes of Request Header
(43)	BITSTRING	5	TC29SPRU	First 5 bytes of Response RU
SLU-to-PLU data - Expedited Flow information				
(48)	BITSTRING	19	(0)	slu-to-plu Expedited Flow info
(48)	BITSTRING	10	(0)	Last Expedited request sent
(48)	BITSTRING	2	TC29SXQN	Sequence number
(4A)	BITSTRING	3	TC29SXQH	request Header
(4D)	BITSTRING	5	TC29SXQU	First 5 bytes of request RU
(52)	BITSTRING	9	(0)	Last expedited response sent
(52)	BITSTRING	2	TC29SXPN	Sequence number
(54)	BITSTRING	2	TC29SXPH	First 2 bytes of Request Header
(56)	BITSTRING	5	TC29SXPU	First 5 bytes of Response RU
	.1.1 1.11		TC29OLEN	""-DFHTCV29" Overall length of Vector
End of assembler section				

## TCX TCA extension for LU6.2

CONTROL BLOCK NAME = DFHTCXDS  
 DESCRIPTIVE NAME = CICS TCA Extension For LU6.2  
 FUNCTION =  
 This DSECT defines the Process Initialization Parameters (PIP)  
 and Transaction Program Name (TPN) used by EXEC CICS  
 CONNECT PROCESS and EXTRACT PROCESS for passing additional data  
 on LU6.2 attaches.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHTCXDS	'
(0)	FULLWORD	4		STGE ACNTG CONTROL DATA
(4)	ADDRESS	4		STGE ACNTG CHAIN ADDRESS
(8)	HALFWORD	2	TCAXPIPL	PIP LENGTH
(A)	CHARACTER	1	TCAXTPNL	TPN LENGTH
(B)	CHARACTER	64	TCAXTPN (0)	TPN
(0)	FULLWORD	4	TCAXPIP (0)	PIP DATA
(0)	CHARACTER	8	TCAXMODN (0)	MODENAME
.... ..11			TCAXGETL	"TCAXTPN-TCAXPIPL" PREFIX LENGTH FOR GETMAIN

## TDCI Transient data control intervals

MODULE NAME = DFHTDCI  
 DESCRIPTIVE NAME = Transient Data Control Intervals  
 CICS/ESA AP Domain  
 FUNCTION =  
 Copybook DFHTDCI provides dsect DFHTDCI which describes  
 1. the TD control record for Control Interval 0  
 2. the queue control record for Control Interval m where m > 0  
 3. the record definition field; i.e. the VSAM RDF  
 4. the control interval definition field; i.e. the VSAM CIDF  
 Each control interval on the intrapartition data set is managed according to VSAM rules; i.e. the format is  
 1. n records where n >= 1; the first record is either the TD control record or a queue control record  
 2. free space  
 3. n record definition fields  
 4. the control interval definition field  
 LIFETIME =  
 The lifetime of the control blocks is essentially that of the intrapartition data set.  
 STORAGE CLASS =  
 Not applicable.  
 LOCATION =  
 Not applicable.  
 INNER CONTROL BLOCKS =  
 There are no inner control blocks.  
 NOTES :  
 DEPENDENCIES =  
 S/370  
 RESTRICTIONS =  
 There are no restrictions.  
 MODULE TYPE =  
 Control block definition.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHTDCI	TD-VSAM CONTROL INT'VAL MAP
	.... ..		TDFSTCI	"" MAP OF FIRST CI OF DATA SET
(0)	CHARACTER	10	TDID	ID TO BE CHECKED WHEN RESTARTING.
(A)	HALFWORD	2	TDNUMCI	NUMBER OF CIS USED TO SIZE CI BIT MAP.
(C)		4	TDDATED	DATE INFO FROM CSAJYDP
(10)	FULLWORD	4	TDRESRV (3)	RESERVED
	.... ..		TDCHREC	""
(0)	CHARACTER	4	TDCHDI	CHAIN RECORD DESTID

Offset Hex	Type	Len	Name (Dim)	Description
(4)	FULLWORD	4	TDCHFC	CHAIN RECORD FORWARD CHAIN
(8)	CHARACTER	8	TDCHCLK	CHAIN RECORD CONTROL INTERVAL GENERATION ID
	...1 ....		TDCHL	""-TDCHREC" CHAIN RECORD LENGTH
DATA RECORDS AND FREE SPACE				
(10)	CHARACTER	3	TDRDF (0)	RECORD DEFINITION FIELD
(10)	BITSTRING	1	TDCF	CONTROL FIELD (FLAG BYTE)
FLAG BYTE VALUES:				
	.... ....		TDRSINGL	"X'00" RDF GIVES LENGTH OF SINGLE RECORD.
(11)	CHARACTER	2	TDLNREC	LENGTH OF RECORD
	.... ..11		TDRDFLN	""-TDRDF" LENGTH OF RDF
(13)	CHARACTER	4	TDCIDF (0)	CI DEFINITION FIELD
(13)	CHARACTER	2	TDOUS	OFFSET OF UNUSED SPACE
(15)	CHARACTER	2	TDLUS	LENGTH OF UNUSED SPACE (L'CI-L'(CIDF+RDFS)-TDOUS))
	.... .1..		TDCIDFLN	""-TDCIDF" LENGTH OF CIDF
	...1 .111		TDCIEND	"" END OF CI

## TDIA Transient data input area

MODULE NAME = DFHTDIPS  
 DESCRIPTIVE NAME = Transient Data Input Area  
 CICS/ESA AP Domain

FUNCTION =  
 Copybook DFHTDIPS provides structure DFHTDIA.  
 DFHTDIA describes the format of Transient Data Input Areas (TDIAs) as used by CICS, each TDIA consists of a header, the description of which follows, and application defined data.

LIFETIME =  
 TDIA's are allocated to hold data passed from Transient Data for  
 EXEC CICS READQ TD QUEUE(...) SET(...)  
 TDIA's (if allocated) are freed, at latest, at task termination.  
 No more than one TDIA is allocated to a task.

STORAGE CLASS =  
 TDIA's are allocated from either the USER24 or the USER31 task subpool.

LOCATION =  
 The TDIA is addressed from TCAIDAA in the TCA.

INNER CONTROL BLOCKS =  
 There are no inner control blocks.

NOTES :  
 DEPENDENCIES =  
 S/370

RESTRICTIONS =  
 There are no restrictions.

MODULE TYPE =  
 Control block definition.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	DFHTDIA	Transient Data Input Area
(0)	CHARACTER	16	TDIA_PREFIX	- prefix
(0)	HALFWORD	2	TDIA_LENGTH	- length
(2)	CHARACTER	1	TDIA_ARROW	- value - '>'
(3)	CHARACTER	3	TDIA_DFH	- value - 'DFH'
(6)	CHARACTER	2	TDIA_DOMID	- value - 'TD'
(8)	CHARACTER	8	TDIA_BLOCK	- value - 'TDIA '
(10)	CHARACTER	*	TDIA_DATA	- application data



## TDOA      Transient data output area

MODULE NAME = DFHTDOPS  
 DESCRIPTIVE NAME = CICS/MVS AP Domain  
                   Transient Data Output Area

FUNCTION =  
 Copybook DFHTDOPS provides structure DFHTDOA.  
 DFHTDOA describes the format of Transient Data  
 Output Areas (TDOAs) as used by CICS. Each TDOA  
 consists of a header, the description of which  
 follows, and application defined data.

LIFETIME =  
 TDOAs may be allocated to hold data passed to  
 Transient Data for  
   DFHTD TYPE=PUT,DESTID=...  
 however this is not essential.  
 TDOAs (if allocated) are freed, at latest, at  
 task termination.

STORAGE CLASS =  
 TDOAs are allocated from CLASS=TRANSDATA storage,  
 i.e. from task local AMODE(24) storage.

LOCATION =  
 Application defined.

INNER CONTROL BLOCKS =  
 There are no inner control blocks.

NOTES :

DEPENDENCIES =  
 S/370

RESTRICTIONS =  
 There are no restrictions.

MODULE TYPE =  
 Control block definition.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	DFHTDOA	Transient Data Output Area
(0)	CHARACTER	8	TDOAPFX1	- storage accounting prefix
(0)	BITSTRING	1	TDOASCI	- class
(1)	BITSTRING	1	TDOASFI	- format
(2)	HALFWORD	2	TDOASAL	- length
(4)	ADDRESS	4	TDOASCA	- chain
(8)	CHARACTER	4	TDOAPFX2	- variable record prefix
(8)	HALFWORD	2	TDOAVRL	- LL
(A)	HALFWORD	2	TDOAVBB	- BB
(C)	CHARACTER	*	TDOADBA	- data, length in TDOAVRL

## TDST Transient data static storage

MODULE NAME = DFHTDSPS  
 DESCRIPTIVE NAME = Transient Data Static Storage.  
 CICS/ESA AP Domain

FUNCTION =  
 Copybook DFHTDSPS provides structure DFHTDST.  
 DFHTDST describes Transient Data Static Storage (TDST), only one TDST is allocated.

LIFETIME =  
 The lifetime of the control block is essentially that of CICS.

STORAGE CLASS =  
 The control block is located in storage allocated from the DFHTDG31 subpool.

LOCATION =  
 The TDST is located from the CSA.

INNER CONTROL BLOCKS =  
 There are no inner control blocks.

NOTES :  
 DEPENDENCIES =  
 S/370

RESTRICTIONS =  
 There are no restrictions.

MODULE TYPE =  
 Control block definition.  
 TRANSIENT DATA STATIC STORAGE

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	216	DFHTDST	
(0)	CHARACTER	16	TDST_PREFIX	prefix
(0)	HALFWORD	2	TDST_LENGTH	- length
(2)	CHARACTER	1	TDST_ARROW	- value - '>'
(3)	CHARACTER	3	TDST_DFH	- value - 'DFH'
(6)	CHARACTER	2	TDST_DOMID	- value - 'TD'
(8)	CHARACTER	8	TDST_BLOCK	- value - 'TDST '
(10)	CHARACTER	12	TDST_ENTRIES	entry points
(10)	ADDRESS	4	TDST_TDANA	- TDA - extrapartition ...
(14)	ADDRESS	4	TDST_TDBNA	- TDB - intrapartition
(18)	ADDRESS	4	TDST_TDRM	- TD recovery manager
(1C)	CHARACTER	72	TDST_ETOKENS	subpool tokens
(1C)	CHARACTER	8	TDST_G24	- general use - AMODE 24
(24)	CHARACTER	8	TDST_G31	- general use - AMODE 31
(2C)	CHARACTER	8	TDST_SDS	- real SDSCI - AMODE 24 - 4 DCTE types - AMODE 31
(34)	CHARACTER	8	TDST_EXTRA_ DCTE_STG_SUBPOOL	
(3C)	CHARACTER	8	TDST_INTRA_ DCTE_STG_SUBPOOL	
(44)	CHARACTER	8	TDST_INDIR_ DCTE_STG_SUBPOOL	
(4C)	CHARACTER	8	TDST_REMOTE_ DCTE_STG_SUBPOOL	
(54)	CHARACTER	8	TDST_IOB	- specific use - I/O buffers
(5C)	CHARACTER	8	TDST_WCB	- specific use - MWCB pool
(64)	CHARACTER	16	TDST_GENBLKS	general control blocks
(64)	ADDRESS	4	TDST_MBCA_P	- A(buffer common area)
(68)	ADDRESS	4	TDST_MRCA_P	- A(string common area)
(6C)	ADDRESS	4	*	- reserved
(70)	ADDRESS	4	*	- reserved
(74)	CHARACTER	16	TDST_SPEBLKS	specific control blocks
(74)	ADDRESS	4	TDST_DCT1_P	- A(first DCTE)
(78)	ADDRESS	4	TDST_SDS1_P	- A(first SDSCI)
(7C)	ADDRESS	4	TDST_CXRF_P	- A(DCTE for CXRF)
(80)	ADDRESS	4	*	- reserved
(84)	CHARACTER	4	TDST_STATUS	TD status
(84)	CHARACTER	1	TDSTFLG0	- DCT contains ...
			TDSTNTRA	- intrapartition
			TDSTLREC	- logical recovery
			TDSTPREC	- physical recovery
			*	- reserved
			TDSTXTRA	- extrapartition
			TDSTOPIN	- OPEN=INITIAL
			TDSTNDIR	- indirect
			TDSTUSER	- entries that need Add_User *
(85)	CHARACTER	1	TDSTFLG1	- TD start up is ...
			TDSTCOLD	- cold
			TDSTWARM	- warm
			TDSTEMER	- emergency
			TDSTINOP	- DFHINTRA opened
			TDST_CLOSED_ FOR_REC	

Offset Hex	Type	Len	Name (Dim)	Description
	.... .1..		TDST_COLD_ IN_PROGRESS	TD closed, warm keypointing
	.... ..1.		TDST_CLEAR_ INTRA_QUEUES	cold start in progress
	.... ...1		TDFULLMSG	DCT=EMPTY reqd - TD0245 issued ?
(86)	CHARACTER	1	TDSTFLG2	- reserved
(86)	BITSTRING	1	*	- reserved
(87)	CHARACTER	1	TDSTFLG3	- reserved
(87)	BITSTRING	1	*	- reserved
(88)	CHARACTER	16	TDST_TD_INIT	TD initialization
(88)	CHARACTER	4	TDST_ECB	- ECB
	1... ....		TDST_DCT_INST	- All DCTs installed
	.1.. ....		TDST_POST	- (CICS) wait/post bit
(88)	BITSTRING	2	*	
(8B)	CHARACTER	1	TDST_RESP	- return code
	1... ....		TDST_RESP_ DISASTER	- disaster
	.1.. ....		TDST_RESP_ INVALID	- invalid
	..1. ....		TDST_RESP_ EXCEPTION	- exception
	...1 1111		*	- reserved
(8C)	CHARACTER	12	TDST_SRC	- suspended request chain
(8C)	ADDRESS	4	TDST_TCA_P	- A(owning TCA) or 0
(90)	ADDRESS	4	TDST_MWCB_P	- A(first MWCB) or 0
(94)	CHARACTER	4	*	- remove info PLX msg
(98)	CHARACTER	48	TDST_RECOVERY_ DATA	Data associated with RM
(98)	CHARACTER	8	TDST_TDUA_ STG_SUBPOOL	Stg subpool token
(A0)	CHARACTER	8	TDST_TDQUB_ STG_SUBPOOL	Stg subpool token
(A8)	CHARACTER	8	TDST_TDCUB_ STG_SUBPOOL	Stg subpool token
(B0)	CHARACTER	8	*	TDUA chain head
(B0)	ADDRESS	4	TDST_TDUA_ FIRST	First TDUA
(B4)	ADDRESS	4	TDST_TDUA_ LAST	Last TDUA
(B8)	ADDRESS	4	TDST_NQ_ POOL_TOKEN	NQ pool token
(BC)	CHARACTER	8	TDST_LAST_ CLEAR_TIME	Last time DCT=xx,EMPTY was specified
(C4)	CHARACTER	4	*	Reserved
(C8)	CHARACTER	4	TDST_DIRECTORY_ TOKEN	Dir Manager token
(CC)	FULLWORD	4	TDST_DCTE_ INDIRECTS	Indirect DCTEs count
(D0)	ADDRESS	4	TDST_QR_ TCB	Address QR TCB
(D8)	CHARACTER		*	

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**TDUE      Transient data EXEC parameter list**

CONTROL BLOCK NAME = DFHTDUEC  
DESCRIPTIVE NAME = CICS EXEC argument list for Transient  
Data user exits.

Although provided in a general library, DFHTDUEC is not  
to be used as a general programming interface. Refer to  
product documentation to determine intended usage.

The following fields are part of the Product-sensitive  
Programming Interface.

TD\_ADDR0  
TD\_ADDR1  
TD\_ADDR2  
TD\_ADDR3  
TD\_ADDR4  
TD\_ADDR5  
TD\_ADDR6  
TD\_ADDR7  
TD\_GROUP  
TD\_FUNCT  
TD\_BITS1  
TD\_EIDOPT5  
TD\_EIDOPT6  
TD\_EIDOPT7  
TD\_QUEUE  
TD\_WRITEQ\_QUEUE  
TD\_READQ\_QUEUE  
TD\_DELETEQ\_QUEUE  
TD\_READQ\_SET  
TD\_READQ\_INT0  
TD\_WRITEQ\_FROM  
TD\_LENGTH  
TD\_WRITEQ\_LENGTH  
TD\_READQ\_LENGTH  
TD\_SYSID  
TD\_WRITEQ\_SYSID  
TD\_READQ\_SYSID  
TD\_DELETEQ\_SYSID

All equates for values of EIBRCODE, EIBRESP and EIBRESP2  
form part of the General-purpose Programming Interface.

All remaining fields used in defining the Exec Parameter  
List are product sensitive and may vary between CICS  
releases.

FUNCTION =

To define the EXEC parameter list for Transient Data  
requests, for use by global user exit programs at exit  
points XTDEREQ and XTDEREQC.

On entry to the XTDEREQ and XTDEREQC User Exits, the EXEC  
parameter list is pointed to by UEPCPLPS.

The EXEC parameter list for Transient Data consists of  
eight addresses.

The eight addresses are defined by TD\_ADDR0 to TD\_ADDR7.

This DSECT defines these addresses and the areas that  
they point to.

On entry to the XTDEREQ and XTDEREQC User Exits, the copy  
of EIBRCODE is pointed to by UEPRCODE, the copy of EIBRESP  
is pointed to by UEPRESP and the copy of EIBRESP2 is  
pointed to by UEPRESP2.

This DSECT also contains equates for values of EIBRCODE,  
EIBRESP and EIBRESP2 used by Transient Data.

LIFETIME = Lifetime of the TD command request

STORAGE CLASS = As the storage being mapped is the translated  
source in the user's application program, the  
storage may be either above or below the line.

LOCATION = (1) EXEC Parameter List is addressed by UEPCPLPS.

(2) Fields copied from the EIB are addressed by  
UEPRCODE, UEPRESP and UEPRESP2.

(3) The token for use in communicating between  
XTDEREQ and XTDEREQC is addressed by UEPTDOK.

INNER CONTROL BLOCKS =

TD\_ADDR\_LIST declares the EXEC addresses.

TD\_EID defines the EID pointed to by TD\_ADDR0.

NOTES :

DEPENDENCIES = S/370 ESA

RESTRICTIONS = None

MODULE TYPE = Control Block definition

EXTERNAL REFERENCES =

None.

DATA AREAS =

None.

CONTROL BLOCKS =

None.

GLOBAL VARIABLES (Macro pass) =

None.

The command parameter list is a list of addresses which reference the argument values for this EXEC CICS command. The addresses are only valid if the argument is applicable to this command.

For example, address 1 is of the TD QUEUE name for all TD commands, whereas the address 2 is of the FROM data area on WRITEQ commands, the SET address or INTO data area for READQ commands, and is not valid for DELETEQ commands.

The existence bits in the EID component (TD\_BITS1) specify those addresses that are valid, and the flagword bits (TD\_EIDOPT5 - TD\_EIDOPT7) specify the keywords that were given in the EXEC CICS TD command.

Therefore, you can deduce the useage of each address by testing these bits in conjunction with the command function(TD\_FUNCT).

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	32	TD_ADDR_LIST	TD_ADDR_LIST consists of the EID
(0)	ADDRESS	4	TD_ADDR0	QUEUE name
(4)	ADDRESS	4	TD_ADDR1	FROM data area (WRITEQ)
(8)	ADDRESS	4	TD_ADDR2	
INTO data area (READQ) SET address (READQ)				
(C)	ADDRESS	4	TD_ADDR3	LENGTH value
(10)	ADDRESS	4	TD_ADDR4	Reserved
(14)	ADDRESS	4	TD_ADDR5	Reserved
(18)	ADDRESS	4	TD_ADDR6	Reserved
(1C)	ADDRESS	4	TD_ADDR7	SYSID

TD\_EID (addressed by TD\_ADDR0) gives the command function, and contains the existence and flagword bits.  
Note: Equates for TD\_GROUP, TD\_FUNCT, EIBRCODE, EIBRESP and EIBRESP2 values are defined at the end of this data structure.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	TD_EID	
(0)	CHARACTER	1	TD_GROUP	'08'X for TD
(1)	CHARACTER	1	TD_FUNCT	'02'X for WRITEQ
'04'X for READQ '06'X for DELETEQ				
The existence bits (TD_BITS1) specify the parameters that are valid for this command.				
For example, TD_EXIST7 set on indicates that TD_ADDR7 is valid, meaning that it addresses a SYSID value.				
TD_ADDR0 is always valid and has no existence bit.				
TD_EXIST3 may be modified by a user exit program invoked for a READQ command with the SET option.				
TD_EXIST7 may be modified by a user exit program invoked for any TD request.				
None of the other bits may be modified.				
(2)	BITSTRING	1	TD_BITS1	
			TD_EXIST1	
			TD_QUEUE_V	
			TD_WRITEQ_QUEUE_V	
			TD_READQ_QUEUE_V	
			TD_DELETEQ_QUEUE_V	
			TD_EXIST2	
			TD_WRITEQ_FROM_V	
			TD_READQ_SET_INT0_V	
			TD_EXIST3	
			TD_LENGTH_V	
			TD_WRITEQ_LENGTH_V	
			TD_READQ_LENGTH_V	
			*	Reserved
			TD_EXIST7	
			TD_SYSID_V	
			TD_WRITEQ_SYSID_V	
			TD_READQ_SYSID_V	
			TD_DELETEQ_SYSID_V	
			*	Reserved

Offset Hex	Type	Len	Name (Dim)	Description
(3)	BITSTRING	2	*	Reserved
The next 3 bytes (TD_EIDOPT5 - TD_EIDOPT7) are the flagword bits. A user exit program at XTDEREQ can set the TD_READQ_NOSUSPEND_X bit for all READQ requests, and may test (but may NOT modify) the TD_READQ_SET_X bit for all READQ requests. These bits have no meaning for WRITEQ or DELETEQ commands.				
(5)	BITSTRING	1	TD_EIDOPT5	Reserved
	1111 111.		*	Reserved
	.... ...1		TD_READQ_SET_X	SET specified.
(6)	BITSTRING	1	TD_EIDOPT6	Reserved
(6)	BITSTRING	1	*	Reserved
(7)	BITSTRING	1	TD_EIDOPT7	Reserved
	11.. ....		*	Reserved
	..1. ....		TD_READQ_NOSUSPEND_X	NOSUSPEND specified.
	...1 1111		*	Reserved

The following definitions are for the rest of the arguments in the EXEC parameter list, addressed by TD\_ADDR1 - TD\_ADDR7 in TD\_ADDR\_LIST.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	TD_DATA1	
(0)	CHARACTER	8	TD_QUEUE	the QUEUE name
(0)	CHARACTER	8	TD_WRITEQ_QUEUE	
(0)	CHARACTER	8	TD_READQ_QUEUE	
(0)	CHARACTER	8	TD_DELETEQ_QUEUE	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	TD_DATA2	
(0)	ADDRESS	4	TD_READQ_SET	the SET address
(0)	CHARACTER	*	TD_READQ_INT0	the INTO area
(0)	CHARACTER	*	TD_WRITEQ_FROM	the FROM area

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	2	TD_DATA3	
(0)	HALFWORD	2	TD_LENGTH	the data LENGTH
(0)	HALFWORD	2	TD_WRITEQ_LENGTH	
(0)	HALFWORD	2	TD_READQ_LENGTH	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	TD_DATA7	
(0)	CHARACTER	4	TD_SYSID	the SYSID name
(0)	CHARACTER	4	TD_WRITEQ_SYSID	
(0)	CHARACTER	4	TD_READQ_SYSID	
(0)	CHARACTER	4	TD_DELETEQ_SYSID	

### Constants

Len	Type	Value	Name	Description
1	HEX	08	TD_TRANDATA_GROUP	
Equates for TD_ FUNCT values.				
1	HEX	02	TD_WRITEQ	Writeq
1	HEX	04	TD_READQ	Readq
1	HEX	06	TD_DELETEQ	Deleteq
Start of General Use Programming Interface. Equates for EIBRCODE values used by Transient Data.				
1	HEX	00	TD_OK_EIBRCODE	
1	HEX	01	TD_QZERO_EIBRCODE	
1	HEX	02	TD_QIDERR_EIBRCODE	
1	HEX	04	TD_IOERR_EIBRCODE	
1	HEX	08	TD_NOTOPEN_EIBRCODE	
1	HEX	10	TD_NOSPACE_EIBRCODE	
1	HEX	C0	TD_QBUSY_EIBRCODE	
1	HEX	D0	TD_SYSIDERR_EIBRCODE	
1	HEX	D1	TD_ISCINVREQ_EIBRCODE	
1	HEX	D6	TD_NOTAUTH_EIBRCODE	
1	HEX	D7	TD_DISABLED_EIBRCODE	
1	HEX	E0	TD_INVREQ_EIBRCODE	
1	HEX	E1	TD LENGERR_EIBRCODE	
Equates for EIBRESP values used by Transient Data.				
1	DECIMAL	0	TD_OK_EIBRESP	
1	DECIMAL	23	TD_QZERO_EIBRESP	
1	DECIMAL	44	TD_QIDERR_EIBRESP	
1	DECIMAL	17	TD_IOERR_EIBRESP	
1	DECIMAL	19	TD_NOTOPEN_EIBRESP	
1	DECIMAL	18	TD_NOSPACE_EIBRESP	
1	DECIMAL	25	TD_QBUSY_EIBRESP	
1	DECIMAL	53	TD_SYSIDERR_EIBRESP	
1	DECIMAL	54	TD_ISCINVREQ_EIBRESP	
1	DECIMAL	70	TD_NOTAUTH_EIBRESP	
1	DECIMAL	84	TD_DISABLED_EIBRESP	
1	DECIMAL	16	TD_INVREQ_EIBRESP	
1	DECIMAL	22	TD LENGERR_EIBRESP	
Equates for EIBRESP2 values used by Transient Data.				
1	DECIMAL	0	TD_OK_EIBRESP2	OK
1	DECIMAL	101	TD_NOTAUTH_EIBRESP2	NOTAUTH *-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-*-* End of General Use *-*-*-*-* Programming Interface *-* *-*-*-*-*-*-*-*-*-*-*-*



## TEPCA TEP commarea mapper and descriptor

MACRO NAME = DFHTEPCA  
 DESCRIPTIVE NAME = CICS TEP commarea mapper and descriptor  
 FUNCTION =  
     This macro provides a DSECT description and a storage  
     mapper for the terminal error program (TEP) commarea.  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
     See OPERANDS sections.  
 MODULE TYPE = Executable macro  
 Meaning of permissible TYPE operands:  
 DSECT  
     Build a DSECT named DFHTEPCA  
 STORAGE  
     If a DSECT has already been built, then define  
     a storage area to hold DFHTEPCA;  
     otherwise, build a storage area using the  
     named DSECT fields.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHTEPCA	
Invocation descriptor. - COMMAREA for the TEP user replaceable module				
(0)	BITSTRING	1	TEPCALDS	Local descriptor
(1)	BITSTRING	2	TEPCAGDS	Global descriptor
(3)	BITSTRING	1		Reserved
Address of control blocks required by the TEP				
(4)	ADDRESS	4	TEPCATCA	Address of the TACLE
(8)	ADDRESS	4	TEPCECIA	Address of the TCTUA
(C)	HALFWORD	2	TEPCECIL	Length of the TCTUA
Action byte. Initially set to the default actions. User can change these default actions.				
(E)	BITSTRING	1	TEPCAACT	User actions
	1... ..		LINEOS	"X'80" Line out of service
	.1. ....		NONPRGT	"X'40" Non purgable task
	..1. ....		TERMOS	"X'20" Terminal out of service
	...1 ....		ABENDT	"X'10" Abend transaction
	.... 1...		ABORTWR	"X'08" Abort write
	.... .1..		RELTTIOA	"X'04" Release TIOA
	.... ..1.		SIGNOFF	"X'02" Sign off terminal
Useful information. The fields below may be of use to the TEP or TET. All of the following fields are read only.				
(F)	CHARACTER	4	TEPCATID	Terminal ID
(14)	FULLWORD	4	TEPCATDB	Current time of day binary
	...1 1...		TEPCADLN	"*-TEPCALDS" Length of this DSECT

## TIE Task interface element

CONTROL BLOCK NAME = DFHTIEPS  
 DESCRIPTIVE NAME = CICS Task Interface Element  
 FUNCTION =  
 PLX Structure of the TIE, which represents the intersection of a CICS task (TCA) with a named External Resource Manager represented by a Task Related User Exit (TRUE). An enabled TRUE is represented by an User Exit Program Block (EPB). The TIE holds all the task lifetime information which is passed between a CICS task and a named External Resource Manager.  
 The TIE belongs to the external resource manager module DFHERM. There can be many TIEs per CICS task. TIEs are chained off the TCA.  
 LIFETIME =  
 A TIE is acquired the first time a TRUE is invoked by a CICS task. There is one TIE for each TRUE a task invokes. All TIEs for a task are freed by DFHERM at end of task.  
 STORAGE CLASS =  
 TIEs are getmained from a dedicated subpool for each TRUE. Appended to the end of the TIE, is the Task Local Work Area for the TRUE, whose size is specified when the TRUE is enabled. Hence TIEs for different TRUEs are different sizes. A TIE subpool is located above the line only if the TRUE TRUE is ENABLED specifying LINKEDITMODE, and the TRUE has been linkedited amode(31), meaning that the TRUE is always invoked in amode(31).  
 LOCATION =  
 The head of the TIE chain is TCATIEBA in the system TCA. Within a TIE is TIECHNA which points to the next TIE on the chain for the task.  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/390  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = None  
 CONTROL BLOCKS = None  
 GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	128	DFHTIEDS	
(0)	CHARACTER	16	TIE_PREFIX	Standard Prefix
(0)	HALFWORD	2	TIE_LEN	Length (inc. work area)
(2)	CHARACTER	14	TIE_EYE	Eyecatcher
(2)	CHARACTER	6	TIE_EYE1	'>TIE--'
(8)	CHARACTER	8	TIE_EYE2	Resource Manager name
(10)	ADDRESS	4	TIECHNA	Addr next TIE on TCA chain
(14)	ADDRESS	4	TIEUTCA	Addr of our TCA (user TCA)
(18)	ADDRESS	4	TIETRUPE	Addr of current UEPAR plist for TRUE - for dump's use
(1C)	ADDRESS	4	TIESECBLK	Addr user security block
(20)	BITSTRING	1	TIESECFLG	Security flags
			1... ..	TIENOSEC
			.1. . . .	*
			..1. . . .	TIESEC
			...1 1111	*
(21)	BITSTRING	1	TIEEISFG	EIS settings for the TRUE
			1... ..	TIEVALID
			.1. . . .	TIEDAT31
			..1. . . .	TIECEDFY
			...1 1111	*
(22)	BITSTRING	1	TIETRACE	Trace flags for TRUE
			1... ..	TIETRLV1
			.1. . . .	TIETRLV2
			..11 1111	*
(23)	BITSTRING	1	*	Reserved
(24)	UNSIGNED	4	TIEPBTK	WLM PB token
(28)	FULLWORD	4	TIERCNT	TRUE recursion count
(2C)	ADDRESS	4	TIEEPAD	Addr of EIP transfer vector

Recovery Section of TIE. These fields are shared between DFHERM and DFHERMSP which is the RMI syncpoint processor called by Recovery Manager Domain

(30)	CHARACTER	68	TIERECOV	Recovery section of TIE
(30)	CHARACTER	8	TIERTKN	Current UOW id
(38)	CHARACTER	27	TIE62UOW	Network wide (LU 6.2) UOWID
(53)	CHARACTER	1	*	filler to word align
(54)	CHARACTER	8	TIEEPN	Resource Manager name
(5C)	CHARACTER	8	TIERMQUA	Resource manager qualifier

Offset Hex	Type	Len	Name (Dim)	Description
(64)	BITSTRING	4	TIELTOK	Link token returned by RM
(68)	ADDRESS	4	TIEEPBA	Addr of EPB for this TRUE
(6C)	BITSTRING	1	TIEFOOTP	Footprints for RM Dom calls
	1... ..		TIEADDLK	RMLN ADD_LINK issued
	.1.. ..		TIERNEC	Recovery(necessary) set
	..1. ....		TIESINGU	Single_updater(yes) set
	...1 .....		TIESETTK	Set work token issued
	.... 1...		TIESETHR	Set heurism(yes) issued
	.... .1..		TIESETLI	SET_LINK LINK_ID issued
	.... ..1.		TIETRABD	True has abended
	.... ...1		*	Reserved
(6D)	BITSTRING	1	TIESYNCP	TRUE's syncpoint parms
	1... ..		TIESUPDR	TRUE understands single.. updater protocol
	.1.. ....		TIEREADO	TRUE understands read-only protocol
	..11 1111		*	Reserved
(6E)	BITSTRING	2	*	Reserved

TIEFLAGS is the target of UEPFLAGS during RMI execution. It is initialised from the TRUE's interest profile in the EPB (EPBFLAGS). The first byte of TIEFLAGS is reserved for CICS/VS 1.5 compatibility.

(70)	BITSTRING	4	TIEFLAGS	TRUE interest profile
(70)	BITSTRING	1	TIEFLAG0	Byte 0
(71)	BITSTRING	1	TIEFLAG1	Byte 1
(72)	BITSTRING	1	TIEFLAG2	Byte 2
	111. ....		*	
	...1 .....		TIEMFEDF	Interest in EDF
	.... 1...		*	
	.... .1..		TIEMCTER	Interest in shutdown
	.... ..1.		*	
	.... ...1		TIEMTASK	Interest in task start/end
(73)	BITSTRING	1	TIEFLAG3	Byte 3
	111. ....		*	
	...1 .....		TIEMSYNC	Interest in Syncpoint
	.... 1...		*	
	.... .1..		TIEMAPPL	Interest in API calls
	.... ..1.		TIEMSPI	Interest in SPI calls
	.... ...1		*	

End of Recovery Section

(74)	HALFWORD	2	TIEGAL	Global work area length
(76)	HALFWORD	2	TIETAL	Task Local work area length
(78)	ADDRESS	4	TIEFREE	Free TIE forward chain

NOTE: The offset of TIELWAA must not be changed.

(7C)	ADDRESS	4	TIELWAA	Address of LWA
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End of the task Interface Element

(80)	CHARACTER		TIEENDA	End of TIE
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Start of TRUE's Task Local Work Area (if one exists)

(80)	CHARACTER		TIELWA	Start of TRUE's work area - must be doubleword aligned.
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## Constants

Len	Type	Value	Name	Description
2	HEX	2500	ERMSP_ENTRY	ERMSP entry
2	HEX	2501	ERMSP_EXIT	ERMSP exit
2	HEX	2502	ERMSP_INV_FORMAT	Invalid format
2	HEX	2503	ERMSP_INV_	Invalid rmro function
			RMRO_FUNCTION	
2	HEX	2504	ERMSP_INV_	Invalid rmlk function
			RMLK_FUNCTION	
2	HEX	2505	ERMSP_RECOVERY	Recovery routine entered
2	HEX	2506	ERMSP_RMWTL_SET_FAIL	SET WORK_TOKEN from ERMSP has failed
2	HEX	2507	ERMSP_RMUWM_	INQ UOW from ERMSP has failed
			INQ_UOW_FAIL	
2	HEX	2508	ERMSP_XMAT_	attach from ERMSP has failed
			ATTACH_FAIL	
2	HEX	2509	ERMSP_RMI_BEFORE	ERMSP is about to call the RMI
2	HEX	2510	ERMSP_RMI_AFTER	Control has returned to ERMSP from the RMI
DFHERM				
2	HEX	2520	ERM_ENTRY	entry trace
2	HEX	2521	ERM_EXIT	exit trace
2	HEX	2522	ERM_ABOUT_	Passing control to the true
			TO_CALL_TRUE	
2	HEX	2523	ERM_RETURN_FROM_TRUE	Receiving control back from the TRUE
2	HEX	2524	ERM_RM_NOT_AVAILABLE	TRUE disabled
2	HEX	2525	ERM_ADD_LINK_FAIL	ADD LINK from ERM has failed
2	HEX	2526	ERM_SET_LINK_FAIL	SET LINK from ERM has failed
2	HEX	2527	ERM_RMWTL_SET_FAIL	SET WORK_TOKEN from ERM has failed
2	HEX	2528	ERM_RMUWI_INQ_FAIL	INQ UOW ID from ERM has failed

Len	Type	Value	Name	Description
2	HEX	2529	ERM_SET_UOW_FAIL	SET UOW from from ERM has failed
2	HEX	2530	ERM_PGEX_ ERROR_BEFORE	PGEX error before calling TRUE
2	HEX	2531	ERM_PGEX_ERROR_AFTER	PGEX error after calling TRUE
2	HEX	2532	ERM_PGEX_ ERROR_RECOV	PGEX error during recovery processing
2	HEX	2533	ERM_RECOVERY_ENTERED	ERM's recovery routine invoked
2	HEX	2534	ERM_CHAIR_MODIFIED	XPCHAIR exit in DFHERM modified handle address
<hr/>				
DFHRMSY				
2	HEX	2540	RMSY_ENTRY	RMSY entry
2	HEX	2541	RMSY_EXIT	RMSY exit
2	HEX	2542	RMSY_XMIQM_ INQ_TRAN_FAIL	XMIQM from RMSY failed
2	HEX	2543	RMSY_RMUWM_ INQ_UOW_FAIL	RMUWM inq uow from RMSY has failed
2	HEX	2544	RMSY_RMDMM_ INQ_STARTUP_FAIL	RMDM call from RMSY has failed
2	HEX	2545	RMSY_UNEXPECTED_ RMLN_REASON	RMSY received an unexpected reason for an exception response from rmln initiate_rec.
2	HEX	2546	RMSY_BAD_ RMLN_RESPONSE	RMSY received serious error from rmln call
2	HEX	2547	RMSY_RMLN_ TERMINATE_FAIL	Terminate recovery issued by RMSY has failed
2	HEX	2548	RMSY_RMI_BEFORE	RMSY is about to call the RMI
2	HEX	2549	RMSY_RMI_AFTER	Control has returned to RMSY from the RMI
<hr/>				
DFHERMRS				
2	HEX	2560	ERMRS_ENTRY	ERMRS entry
2	HEX	2561	ERMRS_EXIT	ERMRS exit
2	HEX	2562	ERMRS_INV_EIP_FUNCTION	ERMRS called for wrong EIP function
2	HEX	2563	ERMRS_INV_FUNCTION	Invalid eiei function
2	HEX	2564	ERMRS_RMLN_ START_LINK_FAIL	RMLN start link browse from ERMRS failed
2	HEX	2565	ERMRS_RMLN_ GET_NEXT_LINK_FAIL	RMLN getnext_link from ERMRS failed
2	HEX	2566	ERMRS_RMLN_ END_LINK_BROWSE_FAIL	RMLN end link browse from ERMRS failed
2	HEX	2567	ERMRS_RECOVERY	Recovery routine entered
2	HEX	2568	ERMRS_RMUWM_ INQ_UOW_FAIL	INQ UOW from ERMRS has failed
2	HEX	2569	ERMRS_UNEXPECTED_ RMLN_REASON	ERMRS received an unexpected reason for an exception response from rmln initiate_rec.
2	HEX	2570	ERMRS_BAD_ RMLN_RESPONSE	ERMRS received serious error from rmln initiate rec.
2	HEX	2571	ERMRS_RMLN_ TERMINATE_FAIL	RMLN terminate recovery from ERMRS failed
2	HEX	2572	ERMRS_RMLN_ SET_MARK_FAIL	RMLN set mark from ERMRS failed
2	HEX	2573	ERMRS_XMAT_ ATTACH_FAIL	attach from ERMRS has failed

## TIOA Terminal input/output area

```

MODULE NAME = DFHTIOA
DESCRIPTIVE NAME = CICS TERMINAL INPUT/OUTPUT AREA
    DUAL LANGUAGE DSECT
FUNCTION = DEFINES THE TERMINAL INPUT/OUTPUT AREA
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = NONE
REGISTER CONVENTIONS = NOT APPLICABLE
PATCH LABEL = NOT APPLICABLE
MODULE TYPE = DSECT
MODULE SIZE = NOT APPLICABLE
ATTRIBUTES = NOT APPLICABLE
ENTRY POINT = NOT APPLICABLE
PURPOSE = DEFINE THE TERMINAL INPUT/OUTPUT AREA
LINKAGE = NOT APPLICABLE
INPUT = NOT APPLICABLE
OUTPUT = NOT APPLICABLE
EXIT-NORMAL = NOT APPLICABLE
EXIT-ERROR = NOT APPLICABLE
EXTERNAL REFERENCES = NOT APPLICABLE
CONTROL BLOCKS = NOT APPLICABLE
TABLES = NOT APPLICABLE
MACROS = NONE
The following fields are for customer use:-
    TIOATDL TIOAWCI TIOACLRC
    TIOALAC TIOADBA
    
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	DFHTIOA	DUMMY SECTION - TERMINAL I/O AREA
(0)	CHARACTER	8	TIOASAA	STORAGE ACCOUNTING AREA
(0)	CHARACTER	2	*	STORAGE CLASS - TERMINAL
(2)	UNSIGNED	2	TIOASAL	STORAGE ACCOUNTING AREA LENGTH
(4)	ADDRESS	4	TIOASCA	CHAIN ADDRESS OF NEXT TERMINAL STORAGE ENTRY FOR THIS TASK
(8)	HALFWORD	2	TIOATDL	TERMINAL DATA LENGTH
(A)	BITSTRING	1	TIOAWCI	WRITE CONTROL INDICATOR
(B)	CHARACTER	1	TIOACLRC	WCC OR CCC CHARACTER
(B)	BITSTRING	1	TIOALAC	LINE ADDRESS CONTROL
(C)	CHARACTER		TIOADBA	TERMINAL DATA BEGIN ADDRESS

## TMDEL Table manager directory element

CONTROL BLOCK NAME = DFHTMDEL  
 DESCRIPTIVE NAME = CICS Table Manager Directory Element  
 FUNCTION =  
 The table management directory element is a set of pointers that address members of chains of directory elements and a pointer to the corresponding directory segment. SKTFDEA in the table points to the first directory element and DIRGNCHN in each directory element points to its successor. DIRGPCHN points back to the predecessor and is 0 if at the front of the chain  
 LIFETIME =  
 Since directory elements are grouped into directory segments, see the prolog for DFHTMDSG (directory segment) for details about storage allocation.  
 Storage for a directory element will last for the duration of a CICS run though, if a table entry is deleted then its corresponding directory element will be marked as reusable and placed on a chain of free directory elements.  
 STORAGE CLASS =  
 Shared storage above the 16M line.  
 LOCATION =  
 SKTFDEA in the scatter table points to the first directory element, and DIRGNCHN in each directory element points to its successor.  
 DIRELEMA in a directory segment points to the start of a group of directory elements.  
 SKTFRDE in the scatter table points to the first free directory element. Subsequent free directory elements are chained together by the DIROWCHN field in the directory element.  
 INNER CONTROL BLOCKS = None.  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None.  
 EXTERNAL REFERENCES = None.  
 CONTROL BLOCKS = None.  
 GLOBAL VARIABLES (Macro pass) = None.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	DIRELEM	Directory element
Directory element information				
(0)	CHARACTER	28	DIREINFO	Directory element info.
(0)	ADDRESS	4	DIRTEA	Table entry address
(4)	ADDRESS	4	DIRHSCHN	Hash chain
(8)	ADDRESS	4	DIROWCHN	Ownership chain
(C)	ADDRESS	4	DIRPRIME	Ptr. to primary DE.
(10)	ADDRESS	4	DIRGNCHN	Get next chain pointer
(14)	ADDRESS	4	DIRGPCHN	Get previous chain ptr
(18)	UNSIGNED	1	DIRETTC	Table type code
(19)	BITSTRING	1	DIRSTATS	Status of directory entry
	1... ..		DIRBFREE	Directory entry is free
	.1. ....		DIRBTEAQ	DE is quiesced
	..1. ....		DIRBFIXD	Table entry free forbidden
	...1 ....		*	Reserved
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		DIRBADD	Uncommitted ADD request
	.... ...1		DIRBDEL	Uncommitted DELETE request
(1A)	BITSTRING	1	DIRTYPE	Type of entry
	1... ..		DIRBPRIM	Primary entry
	.1. ....		DIRBALI	Alias entry
	..1. ....		DIRBINDX	Index entry
	...1 1111		*	Reserved
(1B)	BITSTRING	1	*	Reserved
Directory entry key				
(1C)	CHARACTER	*	DIRKEY	Key of this entry

## TMDSG Table manager directory segment

CONTROL BLOCK NAME = DFHTMDSG  
 DESCRIPTIVE NAME = CICS Table Manager Directory Segment.  
 FUNCTION =  
 The table management directory segment holds a group of directory elements (for each table entry there is a directory element. For a table entry which has aliases, there will be a directory element for each alias).  
 Directory elements are grouped together in this way in order to reduce the number of requests for storage allocation. The number of directory elements per directory segment is controlled by TMNDESG in the table manager static storage.

LIFETIME =  
 Storage for a directory segment is acquired when adding a table entry, adding an alias name to an existing table entry, or when adding an entry to a secondary table (ie. a table which contains entries for remote objects). On subsequent additions to the table, storage for a new directory segment is acquired only when there are no free directory elements in the existing segment.  
 Once created, directory segments last for the duration of the CICS run. Note that if a table entry is deleted then its directory element is marked as reusable.

STORAGE CLASS =  
 Shared storage above the 16M line.

LOCATION =  
 The first segment is located by SKTDIRSA in the scatter table. Subsequent segments are chained by DIRSGCHN in the directory segments themselves.

INNER CONTROL BLOCKS = DFHTMDEL (directory element).  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None.  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None.  
 DATA AREAS = None.  
 CONTROL BLOCKS = None.  
 GLOBAL VARIABLES (Macro pass) = None.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	DIRSEG	Directory segment
Standard header				
(0)	CHARACTER	16	DIRHDR	Standard header
(0)	HALFWORD	2	DIRLNTH	Total length of table
(2)	CHARACTER	1	DIRARRW	Eye-catcher part 1: >
(3)	CHARACTER	3	DIRDFH	Eye-catcher part 2: DFH
(6)	CHARACTER	2	DIRTM	Eye-catcher part 3: TM
(8)	CHARACTER	8	DIREYEC	Block id: 'DIRSEG '
Directory segment information				
(10)	CHARACTER	8	DIRINFO	Directory segment info.
(10)	ADDRESS	4	DIRSGCHN	Next directory segment ptr.
(14)	HALFWORD	2	*	Reserved
(16)	HALFWORD	2	*	Reserved
(18)	CHARACTER	256	DIRELEMA (*)	Directory elements

## TMELD Table manager read lock block

CONTROL BLOCK NAME = DFHTMELD  
 DESCRIPTIVE NAME = CICS - Table Management Read Lock Block.  
 FUNCTION =  
 The table management read lock block consists of a set of read locks and a count of locks assigned, on primary directory entries. Each time a task uses a locate function, a read lock on the primary directory entry, corresponding to the table entry found, is created by the locate function. A directory entry which has a read lock(s) can not be modified until the lock(s) is(are) released. Read locks are released at task termination or on specific request.  
 LIFETIME =  
 The initial read lock block is allocated at AP domain transaction initialization, and release in AP domain transaction termination and so a lock block is part of the AP transaction environemnt. TMP will acquire storage for a lock block when a task issues a function that requires a lock on a primary table entry (eg. a locate function). Note, when all locks within a lock block are released, the storage for the lock block is not released but re-initialised, thus making it reusable. If a task should require re-starting, then storage for any lock blocks which are not being used is released. Otherwise, storage for all read lock blocks is released at task termination.  
 STORAGE CLASS = CICS storage (CSATCA31/24) above/below the 16M line.  
 LOCATION =  
 In the TCA, TCARLB is the address of the first read lock block. Further read lock blocks are chained by TMELPTR, which is in the read lock block itself.  
 INNER CONTROL BLOCKS = None.  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None.  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None.  
 DATA AREAS = None.  
 CONTROL BLOCKS = None.  
 GLOBAL VARIABLES (Macro pass) = None.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHTMELD	.
(0)	ADDRESS	4	TMELPTR	POINTER TO NEXT BLOCK
(4)	ADDRESS	4	TMENUMRL	NUMBER OF LOCK SLOTS IN BLOCK
.... 1...			TMELKSTR	*** START OF LOCK SLOTS
(8)	ADDRESS	4	TMELOCKG (2)	TABLE MANAGER LOCK
(10)	ADDRESS	4	TMELOCKF (2)	TABLE MANAGER LOCK
(18)	ADDRESS	4	TMELOCKE (2)	TABLE MANAGER LOCK
(20)	ADDRESS	4	TMELOCKD (2)	TABLE MANAGER LOCK
(28)	ADDRESS	4	TMELOCKC (2)	TABLE MANAGER LOCK
(30)	ADDRESS	4	TMELOCKB (2)	TABLE MANAGER LOCK
(38)	ADDRESS	4	TMELOCKA (2)	TABLE MANAGER LOCK
(40)	ADDRESS	4	TMELOCK9 (2)	TABLE MANAGER LOCK
(48)	ADDRESS	4	TMELOCK8 (2)	TABLE MANAGER LOCK
(50)	ADDRESS	4	TMELOCK7 (2)	TABLE MANAGER LOCK
(58)	ADDRESS	4	TMELOCK6 (2)	TABLE MANAGER LOCK
(60)	ADDRESS	4	TMELOCK5 (2)	TABLE MANAGER LOCK
(68)	ADDRESS	4	TMELOCK4 (2)	TABLE MANAGER LOCK
(70)	ADDRESS	4	TMELOCK3 (2)	TABLE MANAGER LOCK
(78)	ADDRESS	4	TMELOCK2 (2)	TABLE MANAGER LOCK
(80)	ADDRESS	4	TMELOCK1 (2)	TABLE MANAGER LOCK
1... 1...			TMELKEND	*** END OF LOCK SLOTS
.... 1...			TMELKSIZ	"TMELOCK1-TMELOCK2" SIZE OF ONE LOCK SLOT
...1 ....			TMENUMSL	"(TMELKEND-TMELKSTR)/TMELKSIZ" NUMBER OF SLOTS ACCORDING TO DSECT
1... 1...			TMELSIZE	**"-DFHTMELD" SIZE OF READ LOCK BLOCK



## TMRQ Table manager parameter list

CONTROL BLOCK NAME = DFHTMRQ  
 DESCRIPTIVE NAME = CICS Table Manager Parameter List  
 FUNCTION =  
 The table management parameter list holds information passed from a calling routine to DFHTMP. It also holds the response code and working storage for DFHTMP.  
 LIFETIME =  
 STORAGE CLASS =  
 LOCATION =  
 INNER CONTROL BLOCKS =  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
 DATA AREAS =  
 CONTROL BLOCKS =  
 GLOBAL VARIABLES (Macro pass) =

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	20	TMRQLIST	
(0)	UNSIGNED	4	TMRQTW1	Trace data
(0)	UNSIGNED	1	TMRQTR	Request type
(1)	BITSTRING	1	TMRQRM	Request modifier
	1... ..		TMRQRMCM	Commit immediately
	.1. ....		TMRQRMMLL	Local lock operation
	..1. ....		TMRQRMNC	Do not copy table entry
	...1 ....		TMRQRMNF	Entry storage fixed
	.... 1...		TMRQNOLK	Do not lock entry
	.... .1..		TMRQRMCN	Conditional request
	.... .1..		TMRQRNXB	Get Next Best
	.... ..1.		TMRQRMUL	Getnext unlock
	.... ...1		TMRQRMNU	Non-unique entries allowed
	.... ...1		TMRQRBTE	Browse token exists
(2)	UNSIGNED	1	TMRQTTTC	Table type code
(3)	UNSIGNED	1	TMRQRC	Response code
(4)	ADDRESS	4	TMRQKEYP	Address of key
(4)	HALFWORD	2	TMRQHASH	Initial hash table size
(8)	ADDRESS	4	TMRQATE	Address of table entry
(8)	ADDRESS	4	TMRQRLDA	Address of lock data list
(8)	HALFWORD	2	TMRQKEYL	Key length
(A)	HALFWORD	2	TMRQMLLN	Max average locate length
(C)	ADDRESS	4	TMRQALIP	Address of alias name
(C)	HALFWORD	2	*	Reserved
(E)	UNSIGNED	1	TMRQTTCP	Primary table type
(10)	ADDRESS	4	TMRQBRTK	Address of browse tok
(10)	HALFWORD	2	TMRQTEL	Table entry length
(10)	UNSIGNED	1	TMRULRC	Reason code (Unlock)

### Constants

Len	Type	Value	Name	Description
1	DECIMAL	1	TMRQPCT	PCT entries
1	DECIMAL	2	TMRQPCTR	PCT remote entries
1	DECIMAL	3	TMRQPPT	PPT entries
1	DECIMAL	4	TMRQPFT	PFT entries
1	DECIMAL	5	TMRQFCT	FCT entries
1	DECIMAL	6	TMRQDCT	DCT entries
1	DECIMAL	7	TMRQTCTE	TCT terminal entries
1	DECIMAL	8	TMRQTCTN	TCT skeleton entries
1	DECIMAL	9	TMRQTCTS	TCT system entries
1	DECIMAL	10	TMRQAFCT	AFCT entries
1	DECIMAL	11	TMRQDSN	DSNAME blocks
1	DECIMAL	12	TMRQDSNA	DSNAME alternate index
1	DECIMAL	13	TMRQPRT	PRT entries
1	DECIMAL	14	TMRQTPNT	TPNT entries
1	DECIMAL	15	TMRQTCNT	TCNT entries
1	DECIMAL	16	TMRQAITM	AITM entries
1	DECIMAL	17	TMRQSNT	SNT entries
1	DECIMAL	18	TMRQTCSE	TCSE entries
1	DECIMAL	19	TMRQTCSR	TCSR entries
1	DECIMAL	20	TMRQTCSI	TCSI entries
1	DECIMAL	21	TMRQTCSN	TCSN entries
1	DECIMAL	22	TMRQTCTR	TCTR entries
1	DECIMAL	23	TMRQTCSM	TCSM entries

Len	Type	Value	Name	Description
1	DECIMAL	24	TMRQTCNR	TCNR entries
Request Byte Values				
1	DECIMAL	1	TMRQLOC	Locate
1	DECIMAL	2	TMRQGTN	Get Next
1	DECIMAL	3	TMRQGNA	Get Next Alias
1	DECIMAL	4	TMRQADD	Add
1	DECIMAL	5	TMRQDEL	Delete
1	DECIMAL	6	TMRQALI	Alias
1	DECIMAL	7	TMRQLOK	Lock
1	DECIMAL	8	TMRQULK	Unlock
1	DECIMAL	9	TMRQCRI	Create index
1	DECIMAL	10	TMRQNDX	Index
1	DECIMAL	11	TMRQQUI	Quiesce
1	DECIMAL	13	TMRQDWE	DWE
1	DECIMAL	14	TMRQRST	Reset
1	DECIMAL	15	TMRQUNQ	Unquiesce
1	DECIMAL	16	TMRQGSK	Get secondary key
Response Code Values				
1	DECIMAL	0	NORMRESP	Normal response
1	DECIMAL	4	NOTFND	Not found
1	DECIMAL	8	DUPFND	Duplicate found
1	DECIMAL	12	INVREQ	Invalid request
1	DECIMAL	16	TEBUSY	Table entry busy
1	DECIMAL	20	PROTECT	Protected entry
1	DECIMAL	24	RLHELD	Read lock held
1	DECIMAL	28	RLNOTED	Read lock noted
1	DECIMAL	32	NORLHELD	No read lock now

## TMS Table manager static storage area

CONTROL BLOCK NAME = DFHTMSSA  
 DESCRIPTIVE NAME = CICS Table Manager Static Storage Area.  
 FUNCTION =  
 The table management static storage area holds global data for the Table Manager Program. SSATMP in the CSA's static storage area list holds the address of this area.  
 LIFETIME =  
 It is allocated and initialised to hex zeroes at initialisation time. It has the lifetime of the CICS System.  
 STORAGE CLASS =  
 CICS Static Storage.  
 LOCATION =  
 Addressed by SSATMP in the Static Storage Address List.  
 INNER CONTROL BLOCKS = None.  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None.  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None.  
 DATA AREAS = None.  
 CONTROL BLOCKS = None.  
 GLOBAL VARIABLES (Macro pass) = None.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	1124	TMSTATIC	Static storage for TMP
(0)	BITSTRING	1	*	Reserved
(1)	BITSTRING	2	*	Reserved
(3)	UNSIGNED	1	*	Reserved
(4)	FULLWORD	4	*	Reserved

Offset Hex	Type	Len	Name (Dim)	Description
Table types and position in TMATTV array				
1-	Reserved			
2-	Reserved			
3-	Reserved			
4-	PFT			
5-	FCT			
6-	Reserved			
7-	TCTE			
8-	TCTN			
9-	TCTS			
10-	AFCT			
11-	DSN			
12-	DSNA			
13-	PRT			
14-	Reserved			
15-	TCNT			
16-	AITM			
17-	SNT			
18-	TCSE			
19-	TCSR			
20-	TCSI			
21-	TCSN			
22-	TCTR			
23-	TCSM			
24-	TCNR			
<hr/>				
(8)	CHARACTER	32	TMATTV (24)	Array of table info
(8)	ADDRESS	4	TMASKT	Address of scatter table
(C)	HALFWORD	2	TMNDESG	# elements per segment
(E)	HALFWORD	2	*	Reserved
(10)	FULLWORD	4	TMHSIZE	HASH table size
(14)	FULLWORD	4	TMCOUNT	Num. of entries
(18)	FULLWORD	4	TMTRIGR	Trigger value to rehash
(1C)	BITSTRING	2	TMBITS	Miscellaneous flags
	1... ....		TMREHASH	Re-hash of table required
(1C)	BITSTRING	1	*	Reserved
(1E)	BITSTRING	2	*	Reserved
(20)	ADDRESS	4	TMABORD	Alphabetical ordering position
(24)	FULLWORD	4	TMRNGPOS	Range index
(308)	ADDRESS	4	TMENQHLD	TCA address of enqueueer
(30C)	ADDRESS	4	TMQEQHLD	Quiesce enqueue chain ptr.
(310)	ADDRESS	4	*	Reserved
(314)	ADDRESS	4	TMCLHLD	Change list head of chain
(318)	ADDRESS	4	TMCLLAST	Change list latest element
<hr/>				
Global lock block				
(31C)	CHARACTER	132	TMGRLSEG	First segment global locks
(31C)	ADDRESS	4	TMGLCHPT	Pointer to next block
(320)	CHARACTER	8	TMGLLOCK (16)	First segment global locks
(320)	ADDRESS	4	TMGLVALU	Value of lock
(324)	UNSIGNED	4	TMGLCNT	Count of locks
<hr/>				
Last rehash time for each table				
(3A0)	BITSTRING	8	TMRHTIME (24)	
(460)	ADDRESS	4	TMLOCK_TOKEN	Lock token for TM
(464)	CHARACTER		TMSTATLN	Define end of block

**TMSKT Table manager scatter table**

CONTROL BLOCK NAME = DFHTMSKT  
 DESCRIPTIVE NAME = CICS Table Manager Scatter Table.  
 FUNCTION =  
 The table management scatter table holds pointers to directory elements for use by the Table Manager Program. TMSKTx in the table management static storage area holds the address of this area.  
 LIFETIME =  
 It exists for the duration of the CICS System.  
 Storage for the scatter table (for each CICS table supported by the table manager) is allocated at CICS initialisation. However, the table manager reserves the right to dynamically rehash a scatter table when TMCOUNT (the number of table entries) is greater than or equal to TMTRIGR (trigger value for rehash). During rehash, storage (above the 16M line) is acquired for the new hash table, and storage used by the old hash table is released.  
 STORAGE CLASS =  
 Shared storage above the 16M line.  
 LOCATION =  
 Pointed to by TMSKTx in the table manager static storage.  
 INNER CONTROL BLOCKS = None.  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None.  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None.  
 DATA AREAS = None.  
 CONTROL BLOCKS = None.  
 GLOBAL VARIABLES (Macro pass) = None.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	SKTTBLE	Scatter table
Standard header				
(0)	CHARACTER	20	SKTHDR	Standard header
(0)	FULLWORD	4	SKTLNTH	Total length of table
(4)	CHARACTER	1	SKTARRW	Eye-catcher part 1: >
(5)	CHARACTER	3	SKTDFH	Eye-catcher part 2: DFH
(8)	CHARACTER	2	SKTTM	Eye-catcher part 3: TM
(A)	CHARACTER	8	SKTEYEC	Block id: 'SCATTER '
(12)	HALFWORD	2	*	Reserved
Scatter table information				
(14)	CHARACTER	28	SKTINFO	Scatter table information
(14)	BITSTRING	1	SKTFLAG1	Flag byte 1
			SKTNUEA	Non-unique entries allowed
			*	Reserved
(15)	BITSTRING	1	SKTFLAG2	Flag byte 2
(15)	BITSTRING	1	*	Reserved
(16)	UNSIGNED	1	SKTTTC	Table type code
(17)	UNSIGNED	1	SKTTTCP	Table type code for primary
(18)	HALFWORD	2	SKTDELN	Directory entry length
(1A)	HALFWORD	2	SKTKEYLN	Length of key
(1C)	FULLWORD	4	SKTMAXN	Maximum number of entries
(20)	ADDRESS	4	SKTDIRSA	First directory segment ptr
(24)	ADDRESS	4	SKTFDEA	First directory element ptr
(28)	ADDRESS	4	SKTFRDE	First free dir element ptr
(2C)	FULLWORD	4	SKTNUMDS	# directory segments
(30)	CHARACTER	16	SKTRANGE	GetNext Range-Table
(30)	FULLWORD	4	SKTRNG_NUM	Number of ranges
(34)	ADDRESS	4	SKTRNG_ADDR	Address of Range Table
(38)	FULLWORD	4	SKTRNG_SIZE	optimal size of rngs
(3C)	FULLWORD	4	SKTRNG_USED	Num of slots in use
Scatter table pointers				
(40)	ADDRESS	4	SKTDIREA (*)	Hash table ptr to dir elems
Range table pointers				

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	SKTRANGES	Range Table
(0)	CHARACTER	8	SKTRNG_HEAD	Buffer to spot errors

Offset Hex	Type	Len	Name (Dim)	Description
(8)	CHARACTER	8	SKTRNGE (*)	Get Next Range Table
(8)	FULLWORD	4	SKTRNG_COUNT	Num of elems in rng-1
(C)	ADDRESS	4	SKTRNG_PTR	Pointer to rng start

## TPE Terminal partition extension

MODULE NAME = DFHTPE  
 DESCRIPTIVE NAME = CICS TERMINAL PARTITION EXTENSION  
 DUAL LANGUAGE DSECT  
 FUNCTION = DEFINES THE TCTTE PARTITION EXTENSION. CHAINED OFF  
 THE TCTTE BMS EXTENSION IF THE TERMINAL SUPPORTS  
 PARTITIONS. BUILT BY THE DFHTCTPR MACRO.

NOTES :

DEPENDENCIES = S/370  
 RESTRICTIONS = NONE  
 REGISTER CONVENTIONS = NOT APPLICABLE  
 PATCH LABEL = NOT APPLICABLE  
 MODULE TYPE = DSECT  
 MODULE SIZE = NOT APPLICABLE  
 ATTRIBUTES = DSECT  
 ENTRY POINT = NOT APPLICABLE  
 PURPOSE = DEFINE THE TCTTE PARTITION EXTENSION  
 LINKAGE = NOT APPLICABLE  
 INPUT = NOT APPLICABLE  
 OUTPUT = NOT APPLICABLE  
 EXIT-NORMAL = NOT APPLICABLE  
 EXIT-ERROR = NOT APPLICABLE  
 EXTERNAL REFERENCES = NONE  
 CONTROL BLOCKS = NOT APPLICABLE  
 TABLES = NOT APPLICABLE  
 MACROS = NONE  
 PLSSTART

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	20	DFHTPE	DUMMY SECTION - TCT PARTITION EXTENSION
(0)	CHARACTER		TPESTART	START OF DEFINITION
(0)	HALFWORD	2	TPELL	LENGTH OF EXTENSION SET BY DFHTCT MACRO
(2)	BITSTRING	1	TPEFLG1	FLAG BYTE - SET BY DFHTCT. DEFAULT IS OFF FOR ALL FLAGS
	1... ..		*	
	.1... ..		*	
	..1... ..		*	
	...1... ..		*	
	.... 1...		TPEVCHAR	Reserved
(3)	CHARACTER	17	TPEPSETS	CHARACTER CELL SIZE ON A PARTITION BASIS
(3)	CHARACTER	8	TPECPSET	NAME FOR TERMINAL SHARING CODE TO SHIP PSET NAMES
(3)	CHARACTER	6	TPECPST6	UNSUFFIXED NAME OF THE CURRENT (OR APPLICATION) PARTITION SET
(9)	CHARACTER	2	*	APPL PSET NAME FOR DFHEE1
(B)	CHARACTER	9	TPETPSET	RESERVED
(B)	CHARACTER	8	TPELPSET	TERMINAL PARTITION SET
(13)	BITSTRING	1	TPEFLG2	UNSUFFIXED NAME OF THE LOADED (OR TERMINAL) PARTITION SET ZERO IF
	1... ..		TPELPER	TERMINAL IN BASE STATE. BLANK IF TERMINAL STATE IS IN DOUBT
				DYNAMIC FLAG BYTE
				TERMINAL PSET HAS AN ERROR MESSAGE PARTITION

**TQG Transient data global statistics**

CONTROL BLOCK NAME = DFHTQGDS  
 DESCRIPTIVE NAME = CICS Global statistics for Transient data.  
 FUNCTION = This data block describes the global transient data Statistics.  
 The data described here is placed in storage by DFHAPST.  
 This DSECT is also used by DFHSTUP and user programs to map the statistics block.  
 LIFETIME = The storage area is created when a request for AP domain Transient data statistics is received. It is released when the caller has acknowledged receipt of the data.  
 LOCATION = The caller is passed a pointer to the head of the block.  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = None  
 CONTROL BLOCKS = DFHMBBCDS MBCANBFA  
 DFHMBBCDS MBCACNIU  
 DFHMBBCDS MBCAMXIU  
 DFHMBBCDS MBCATNAL  
 DFHMBBCDS MBCACNAL  
 DFHMBBCDS MBCAMXAL  
 DFHMBBCDS MBCATNWT  
 DFHMBBCDS MBCACNWT  
 DFHMBBCDS MBCAMXWT  
 DFHMRCDS MBCACISZ  
 DFHMRCDS MBCANCIS  
 DFHMRCDS MBCACTCI  
 DFHMRCDS MBCAMXCI  
 DFHMRCDS MBCANOSP  
 DFHMRCDS MBCACTPT  
 DFHMRCDS MBCACTFT  
 DFHMRCDS MBCACTGT  
 DFHMRCDS MBCACTIO  
 DFHMRCDS MBCANSTA  
 DFHMRCDS MBCATNAL  
 DFHMRCDS MBCACNAL  
 DFHMRCDS MBCAMXAL  
 DFHMRCDS MBCATNWT  
 DFHMRCDS MBCACNWT  
 DFHMRCDS MBCAMXWT  
 GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHTQGDS	Transient data statistics (GLOBAL)
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	TQGLEN	Length of data area
	..1. 11.1		TQGIDE	"45" Transient data stats id mask
(2)	ADDRESS	2	TQGID	Transient data id
	.... ...1		TQGVERS	"X'01" DSECT version number mask
(4)	CHARACTER	1	TQGDVERS	Statistics version number
(5)	CHARACTER	3		Reserved
Intrapartition Buffer Stats				
(8)	FULLWORD	4	TQGANBFA	Number of Buffers
(C)	FULLWORD	4	TQGAMXIU	Peak containing valid data
(10)	FULLWORD	4	TQGATNAL	Times buffer accessed
(14)	FULLWORD	4	TQGAMXAL	Peak concurrent access
(18)	FULLWORD	4	TQGATNWT	Times buffer wait occurred
(1C)	FULLWORD	4	TQGAMXWT	Peak buffer waits
Intrapartition dataset stats				
(20)	FULLWORD	4	TQGACISZ	Control interval size
(24)	FULLWORD	4	TQGANCIS	No. of control intervals
(28)	FULLWORD	4	TQGAMXCI	Peak No. Control intervals used
(2C)	FULLWORD	4	TQGANOSP	Times NOSPACE occurred
(30)	FULLWORD	4	TQGACTPT	No. of writes to dataset
(34)	FULLWORD	4	TQGACTGT	No. of reads from dataset
(38)	FULLWORD	4	TQGACTFT	No. formatting writes
(3C)	FULLWORD	4	TQGACTIO	No. of I/O errors
Stats for Multiple strings				
(40)	FULLWORD	4	TQGSNSTA	Number of strings
(44)	FULLWORD	4	TQGSTNAL	Times string accessed
(48)	FULLWORD	4	TQGSXAL	Peak concurrent accesses
(4C)	FULLWORD	4	TQGSTNWT	Times string wait occurred

Offset Hex	Type	Len	Name (Dim)	Description
(50)	FULLWORD	4	TQGSMXWT	Peak string waits
Current Transient Data statistics				
(54)	FULLWORD	4	TQGACNAL	Current concurrent buffer access
(58)	FULLWORD	4	TQGACNWT	Current buffer waits
(5C)	FULLWORD	4	TQGACNIU	Current buffers containing valid data
(60)	FULLWORD	4	TQGSCNAL	Current concurrent string access
(64)	FULLWORD	4	TQGSCNWT	Current string waits
(68)	FULLWORD	4	TQGACTCI	No. of Control intervals in use
	.11. 11..		TQGEND	""
	.11. 11..		TQGLEN	""-TQLEN" Length of DSECT

## TQR Transient data statistics

CONTROL BLOCK NAME = DFHTQRDS  
 DESCRIPTIVE NAME = CICS Transient Data Queue Statistics  
 CICS level at which this module was last updated

FUNCTION =  
 This data area contains TD Queue statistics provided by the Transient Data functional area.  
 It is provided for use in users monitoring applications to map the statistics returned via the API, the statistics exit, or offline formatting products.  
 There is a single instance of this data block.

LIFETIME =  
 This data block is created by the Transient Data functional area to store statistics to be passed to the user in response to a request for statistics. The storage is released when the user task is detached.

STORAGE CLASS =  
 LOCATION =  
 The user is passed a pointer to the head of the storage block.

INNER CONTROL BLOCKS = none

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Domain call buffer

EXTERNAL REFERENCES = none

DATA AREAS = none

CONTROL BLOCKS = from Transient Data

GLOBAL VARIABLES (Macro pass) = none

ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHTQRDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHTQRDS	Transient Data Queue statistics
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	TQRLEN	Length of data area
	.1. 1.1.		TQRIDE	"0042" TD Queue resid statistics id mask
(2)	ADDRESS	2	TQRID	TD Queue resid statistics id
	.... 1.1		TQRVERS	"X'01" Stats version number id mask
(4)	CHARACTER	1	TQRDVERS	Stats version number
(5)	CHARACTER	3		Filler
(8)	CHARACTER	4	TQRQID	TD Queue identifier
(C)	BITSTRING	1	TQRQTYPE	TD Queue destination type
(D)	CHARACTER	3		Reserved
(10)	FULLWORD	4	TQRWRITE	Total writes to queue
(14)	FULLWORD	4	TQRREAD	Total reads from queue
(18)	FULLWORD	4	TQRDELET	Total deletes of queue
Intrapartition specific fields.				
(1C)	HALFWORD	2	TQRTRIGL	ATI tranid trigger level
(1E)	BITSTRING	1	TQRRTYPE	Recovery type
(1F)	BITSTRING	1	TQRFTYPE	ATI facility type
(20)	CHARACTER	4	TQRFNNAME	ATI facility name
(24)	BITSTRING	1	TQRWAIT	Indoubt waiting supported
(25)	BITSTRING	1	TQRWAITA	Indoubt action (reject/queue)
(26)	CHARACTER	2		Reserved
(28)	CHARACTER	4	TQRATRAN	ATI tranid
(2C)	FULLWORD	4	TQRTRIGN	Number of triglev triggers
(30)	FULLWORD	4	TQRCCIUS	Current CI's in use by this queue
(34)	FULLWORD	4	TQRPCIOUS	Peak CI's in use by this queue
(38)	FULLWORD	4	TQRCNITM	Current number of items in queue

Offset Hex	Type	Len	Name (Dim)	Description
Remote specific fields.				
(3C)	CHARACTER	4	TQRRSYS	Remote sysid
(40)	CHARACTER	4	TQRRQID	Remote Queue identifier
Indirect specific fields.				
(44)	CHARACTER	4	TQRIQID	Indirect Queue identifier
Extrapartition specific fields.				
(48)	BITSTRING	1	TQRIOTYP	I/O Type (input/output/readback)
(49)	CHARACTER	3		Reserved
(4C)	CHARACTER	8	TQRDDNM	DD name of Extrapartition queue
(54)	CHARACTER	44	TQRDSNNM	Dataset name of Extrapartition Queue
(80)	CHARACTER	8	TQRPDSMN	PDS member name
	1... 1...		TQREND	""
	1... 1...		TQRCLEN	""-TQRLEN" Length of dsect
Equates to test TD Queue type (TQRQTYPE).				
	.... ..1		TQRQTEXT	"1" Extrapartition Queue
	.... ..1		TQRQTINT	"2" Intrapartition Queue
	.... ..11		TQRQTIND	"3" Indirect Queue
	.... ..1..		TQRQTREM	"4" Remote Queue
Equates to test TD Facility type for ATI (TQRFTYPE).				
	.... ....		TQRFTNA	"0" Not Applicable
	.... ..1		TQRFTTRM	"1" Terminal
	.... ..1.		TQRFTSYS	"2" System
	.... ..11		TQRFTNTE	"3" No terminal
Equates to test Extrapartition I/O type (TQRIOTYP).				
	.... ....		TQRIONA	"0" Not Applicable
	.... ..1		TQRIOIN	"1" Input
	.... ..1.		TQRIOOUT	"2" Output
	.... ..11		TQRIORDB	"3" Readback
Equates to test Recovery type of queue (TQRRTYPE).				
	.... ....		TQRRTNA	"0" Not Applicable
	.... ..1		TQRRTPH	"1" Physical recoverable
	.... ..1.		TQRRTLGL	"2" Logical recoverable
	.... ..11		TQRRTNR	"3" Non-recoverable
Equates to test indoubt wait option for queue (TQRWAIT).				
	.... ....		TQRWTNA	"0" Not Applicable
	.... ..1		TQRWTYES	"1" Queue supports indoubt waiting
	.... ..1.		TQRWTNO	"2" Does not support indoubt waiting
Equates to test indoubt wait action for queue (TQRWAITA).				
	.... ....		TQRWANA	"0" Not Applicable
	.... ..1		TQRWAREJ	"1" Further requests will be rejected
	.... ..1.		TQRWAQUE	"2" Further requests will be queued



## TRA Trace domain - common structures

CONTROL BLOCK NAME = DFHTRA  
 DESCRIPTIVE NAME = CICS Trace Domain - Common structures  
 and constants  
 FUNCTION = Contains the structure for :-  
     DFHTRA - TR anchor block  
                   : from original within DFHTRDS  
 TR domain Anchor Block storage definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	208	DFHTRA	
(0)	CHARACTER	16	TRA_PREFIX	Standard control block prefix
(0)	HALFWORD	2	TRA_LENGTH	Length of anchor block
(2)	CHARACTER	1	TRA_ARROW	'>'
(3)	CHARACTER	3	TRA_DFH	'DFH'
(6)	CHARACTER	2	TRA_DOMID	'TR'
(8)	CHARACTER	8	TRA_BLOCK_NAME	'ANCHOR'
(10)	CHARACTER	8	TRA_LOCK_BLOCK	Trace lock block for DFHKERN Doubleword align for CDS
(18)	CHARACTER	8	TRA_NAB_INFO	Doubleword used for space allocation by CDS in int
(18)	ADDRESS	4	TRA_NAB	Next byte in internal tab
(1C)	UNSIGNED	4	TRA_AVLEN	Available in current blk
(20)	UNSIGNED	4	TRA_INTTABSIZE	Size of internal trace table
(24)	ADDRESS	4	TRA_INTTAB_PTR	Address of start of table
(28)	ADDRESS	4	TRA_ENDTAB_PTR	1st byte after table
(2C)	ADDRESS	4	TRA_DFHTRAO_PTR	Addr of aux output routines
(30)	ADDRESS	4	TRA_AUX_BUF_PTR	Address of aux trace buffer
(34)	ADDRESS	4	TRA_AUX_DCB_PTR	Address of aux trace DCB
(38)	UNSIGNED	4	TRA_AUX_DCB_LEN	Length of aux trace DCB
(3C)	ADDRESS	4	TRA_AUX_DECB_PTR	Address of aux trace DECB
(40)	UNSIGNED	4	TRA_AUX_DECB_LEN	Length of aux trace DECB
(44)	CHARACTER	8	TRA_TIME_BASE	STCK at last local midnight
(4C)	CHARACTER	8	TRA_AUX_EXTENT	Current aux trace extent
(54)	UNSIGNED	1	TRA_AUTOSW_STATUS	Autoswitch status
(55)	UNSIGNED	1	TRA_AUX_STATUS	Auxiliary trace status
(56)	UNSIGNED	1	TRA_AUX_INIT_STAT	Auxiliary trace initial status
(57)	UNSIGNED	1	*	Reserved
(58)	BITSTRING	4	TRA_STATUS_FLAGS	
			1... ..	TRA_MASTER
			.1. ....	TRA_INT_STATUS
			..1. ....	TRA_GTF_STATUS
			...1 ....	TRA_LOCK_TABLE
			.... 1...	TRA_TRAP_ACTIVE
			.... .1..	TRA_AUX_FIF
			.... ..1.	TRA_AUX_EOF
			.... ...1	TRA_AVAILABLE
(59)			1... ..	TRA_TERMINATING
			.1. ....	TRA_AUX_IO_PENDING
			..1. ....	TRA_AUX_DCB_DECB_OK
			...1 ....	TRA_TRAO_RLSE_REQD
			.... 1...	TRA_PA_IN_CONTROL
			.... .1..	TRA_TRAP_UNUSABLE
			.... ..1.	TRA_TRAP_DISABLED
			.... ...1	TRA_TRAP_INIT_STAT
(5A)			1... ..	TRA_INITIALISING
			.1. ....	TRA_AUX_STARTING
			..1. ....	TRA_RETAIN_AUX_DCB
			...1 ....	TRA_FT_ERR_BEFORE
(5A)	BITSTRING	1	*	Reserved
(5C)	ADDRESS	4	TRA_DFHTRAP_PTR	DFHTRAP entry point
(60)	ADDRESS	4	TRA_TRAP_WA_PTR	DFHTRAP work area pointer
(64)	ADDRESS	4	TRA_GTF_BUF_PTR	Address of GTF buffer
(68)	UNSIGNED	4	TRA_ATS_ECB	For aux subtask to wait on
(6C)	UNSIGNED	4	TRA_MAIN_ECB	For CICS TCBS to wait on
(70)	CHARACTER	72	TRA_ATS_REGSAVE	Aux subtask register save
(B8)	UNSIGNED	1	TRA_TRAO_REQ	DFHTRAO request byte
(B9)	UNSIGNED	1	TRA_TRAO_RC	DFHTRAO return code
(BA)	CHARACTER	2	*	Reserved
(BC)	ADDRESS	4	TRA_TRAO_BPTR	TR block to be written
(C0)	ADDRESS	4	TRA_TRAO_PARAMS	TRAO parameter list
(C4)	UNSIGNED	4	TRA_AUX_TERMINATE_ECB	
			1... ..	TRA_AUX_TERM_ECB_WAIT
				WAIT BIT

Offset Hex	Type	Len	Name (Dim)	Description
.1.. ....			TRA_AUX_ TERM_ECB_POST	POST BIT
..11 1111			*	Reserved
(C5)	CHARACTER	3	*	Reserved
(C8)	ADDRESS	4	TRA_ATS_TCB	Aux subtask TCB address
(CC)	ADDRESS	4	TRA_SM_ ISOLATION_TOKEN	Isolation token

### Constants

Len	Type	Value	Name	Description
1	DECIMAL	1	TRA_TRAO_TERM	
1	DECIMAL	2	TRA_TRAO_OPEN	
1	DECIMAL	3	TRA_TRAO_CLOSE	
1	DECIMAL	4	TRA_TRAO_WRITE	
1	DECIMAL	5	TRA_TRAO_CHECK	
Values for TRA_TRAO_RC				
1	DECIMAL	1	TRA_TRAO_OK	
1	DECIMAL	2	TRA_TRAO_INVALID	
1	DECIMAL	3	TRA_TRAO_OPEN_FAILED	
1	DECIMAL	4	TRA_TRAO_ END_OF_EXTENT	
1	DECIMAL	5	TRA_TRAO_AUX_ABEND	
1	DECIMAL	6	TRA_TRAO_AUX_IO_ERROR	
1	DECIMAL	7	TRA_TRAO_ DCB_NOT_FOUND	
Values for TRA_INT_STATUS				
0	BIT	1	TRA_INT_STARTED	
0	BIT	0	TRA_INT_STOPPED	
Values for TRA_AUX_STATUS				
1	DECIMAL	1	TRA_AUX_STARTED	
1	DECIMAL	2	TRA_AUX_STOPPED	
1	DECIMAL	3	TRA_AUX_PAUSED	
Values for TRA_GTF_STATUS				
0	BIT	1	TRA_GTF_STARTED	
0	BIT	0	TRA_GTF_STOPPED	
Values for TRA_AUTOSW_STATUS				
1	DECIMAL	1	TRA_AUTOSW_OFF	
1	DECIMAL	2	TRA_AUTOSW_ONCE	
1	DECIMAL	3	TRA_AUTOSW_ CONTINUOUS	

## TRAP Trace parameter list

CONTROL BLOCK NAME = DFHTRADS
DESCRIPTIVE NAME = CICS Parameter List to DFHTRAP
FUNCTION = Defines the parameter list passed from DFHTRPT to the F.E. Global Trap/Trace Exit Program DFHTRAP.
LIFETIME = The parameter list is created by DFHTRPT immediately prior to invoking DFHTRAP. Its contents are valid for the duration of the call to DFHTRAP.
STORAGE CLASS = The parameter list to DFHTRAP is in storage MVS GETMAIN'd above the 16M line by DFHTRSR.
LOCATION = The parameter list is in the Global Trap Work Area whose format is described by DFHTRGTW. This work area is addressed from TRA_TRAP_WA_PTR in the TR domain anchor block.
INNER CONTROL BLOCKS = None
NOTES : DEPENDENCIES = S/370 RESTRICTIONS = None MODULE TYPE = Control block definition
EXTERNAL REFERENCES = DATA AREAS = This control block references no operating system data areas. CONTROL BLOCKS = This control block references no other control blocks. GLOBAL VARIABLES (Macro pass) = This control block definition references no global variables.
PERSONNEL adding a PL/AS version

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	48	DFHTRADS	DUMMY SECTION - PLIST TO TRAP
<p>TRAF LGSA - Address of return actions flag word                      Return actions flag settings are in the byte addressed from field TRAF LGSA in the parameter list to DFHTRAP.                      The individual flag settings are as follows :                      TRAPFTRE EQU X'80' .. Make further trace entry on behalf of trap exit                      TRAPDUMP EQU X'40' .. Take a system dump                      TRAPCABD EQU X'10' .. Abend CICS (with a dump)                      TRAPDISA EQU X'08' .. Disable trap so that it cannot be used until reactivated                      Any combination of these flags may be set and wherever possible all requested actions will be honoured upon return to the trace domain.                      Note also that the trap will be disabled when requests to abend CICS are returned.</p>				
(0)	ADDRESS	4	TRAF LGSA	A(Return actions flag word)
<p>TRACURTA - Address of current entry in internal trace table                      This field points to the trace entry constructed by DFHTRPT on the same invocation for which it is calling DFHTRAP. This entry should not be modified by DFHTRAP. Its structure is mapped by the DSECT DFHTREN.</p>				
(4)	ADDRESS	4	TRACURTA	A(Current entry)
<p>TRAWORKA - Address of 80-byte work area for DFHTRAP.                      This work area is acquired when DFHTRAP is activated and is not changed by CICS until DFHTRAP is de-activated, so it may be used for saving information between invocations of DFHTRAP</p>				
(8)	ADDRESS	4	TRAWORKA	A(80-byte work area)
<p>TRAD1A/L, TRAD2A/L and TRAD3A/L                      These six fields are used in conjunction with the setting of TRAPFTRE in the return actions flag byte. This flag indicates that DFHTRPT should make a further trace entry. TRADnA/L are address and length pairs for the data fields to be included in this entry. If TRAPFTRE is set, DFHTRPT examines the length fields in turn. All fields up to the first with a zero length will be included in the extra trace entry.</p>				
(C)	CHARACTER	24	TRATRDAT	Total length of data fields
(C)	ADDRESS	4	TRAD1A	Address of DATA1 information
(10)	UNSIGNED	4	TRAD1L	Length of DATA1 information

Offset Hex	Type	Len	Name (Dim)	Description
(14)	ADDRESS	4	TRAD2A	Address of DATA2 information
(18)	UNSIGNED	4	TRAD2L	Length of DATA2 information
(1C)	ADDRESS	4	TRAD3A	Address of DATA3 information
(20)	UNSIGNED	4	TRAD3L	Length of DATA3 information
TRACSAAD - CSA address The address of the CSA or zero. This will only be zero for invocations of DFHTRAP early in initialisation (before the CSA has been set up).				
(24)	ADDRESS	4	TRACSAAD	CSA address
TRATCAAD - TCA address The address of the current TCA or zero. This will be zero when running under other than the quasi-reentrant TCB, or when running under a non-transaction manager type task.				
(28)	ADDRESS	4	TRATCAAD	TCA address
TRARSAAD - Register save area address The address of the register save area that R13 will point to during the invocation of DFHTRAP.				
(2C)	ADDRESS	4	TRARSAAD	RSA address
(30)	CHARACTER		TRAEND	Ending address

## TRBL Trace domain - common structures

CONTROL BLOCK NAME = DFHTRBL  
 DESCRIPTIVE NAME = CICS Trace Domain - Common structures and constants  
 from original within DFHTRDS  
 FUNCTION = Contains the structure for :-  
 DFHTRBL - TR internal table block  
 The internal trace table consists of blocks of this format chained in a loop. The auxiliary trace dataset blocks are also of this format, except that the first twelve bytes contain the date and the date format.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4096	DFHTRBL	Trace block
(0)	CHARACTER	24	TRBL_HEADER	Block header
(0)	ADDRESS	4	TRBL_FWD	Forward chain
(4)	ADDRESS	4	TRBL_BWD	Backward chain
(8)	ADDRESS	4	*	Reserved
(C)	CHARACTER	4	TRBL_FLAGS	Flags - always zero in table
	1... ..		TRBL_EOF	End-of-file block for aux
	.1... ..		TRBL_FIF	First-in-file block for aux
(C)	BITSTRING	3	*	Reserved
(10)	CHARACTER	8	TRBL_TIME_BASE	STCK at last local midnight
(18)	CHARACTER	4072	TRBL_DATA	Rest of block is data

## Constants

Len	Type	Value	Name	Description
2	DECIMAL	4096	TRBLOCK_SIZE	Size of trace blocks
2	DECIMAL	4072	TRBLOCK_DATALIM	Maximum data in one block
2	DECIMAL	16384	MIN_TABLE_SIZE	Minimum size for internal...trace table
2	DECIMAL	256	GTF_MAX	Maximum length of GTF entries
0	BIT	1	ON	
0	BIT	0	OFF	
0	BIT	1	YES	
0	BIT	0	NO	

## TREN Trace entry

```

=====
CONTROL BLOCK NAME = DFHTREN
DESCRIPTIVE NAME = CICS trace entry
FUNCTION = Description of header of CICS trace entry.
LIFETIME = Created by DFHTRPT in the internal trace table for
            each TRACE_PUT. Destroyed when overwritten after
            the next trace table wrap. Trace entries are also
            held on auxiliary trace datasets and GTF datasets.
STORAGE CLASS = Held in the internal trace table in MVS storage.
LOCATION = Each trace table block contains a block header
          followed by as many entries contiguously as will
          fit in the rest of the block.
INNER CONTROL BLOCKS = None
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Control block definition
EXTERNAL REFERENCES = None
DATA AREAS = None
CONTROL BLOCKS = None
GLOBAL VARIABLES (Macro pass) = None
=====
    
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	DFHTREN	Trace entry
(0)	CHARACTER	40	TREN_HEADER	Standard header
(0)	CHARACTER	2	TREN_MARKER	Eyecatcher '<>'
(2)	UNSIGNED	2	TREN_LEN	Length of entry inc. header
(4)	UNSIGNED	2	TREN_CALLER	Domain id of trace caller
(6)	UNSIGNED	2	TREN_POINTID	ID of trace point in domain
(8)	UNSIGNED	1	TREN_TYPE	Entry type
	1... ..		*	The Top bits are used
	.1.. ..		*	for the release of the
	..1. ..		*	trace.
	...1 ..		*	
	.... 1..		*	The Bot Bits are used for
	.... .1..		*	the type. The types are
	.... ..1.		*	listed below.
	.... ...1		*	
(9)	BITSTRING	3	TREN_TASK	Transaction manager task num
(C)	UNSIGNED	2	TREN_KE_NUM	Kernel task number
(E)	UNSIGNED	2	TREN_OWNING_DOM	Owning domain for system task
(10)	UNSIGNED	2	TREN_HEADER_LENGTH	Length of this header Offset of TREN_HEADER_LENGTH must not change. Add new header fields after this field
(12)	CHARACTER	5	TREN_TCB_ID	TCB ID
(17)	UNSIGNED	1	*	filler to word align
(18)	ADDRESS	4	TREN_TCBADDR	TCB address
(1C)	ADDRESS	4	TREN_RETADDR	Addr of call to trace caller
(20)	CHARACTER	8	TREN_TIME	Time of entry - 8 byte STCK
(28)	CHARACTER	*	TREN_DATA	Trace data
(28)	UNSIGNED	2	TREN_FIELD_LEN	Length of data field
(2A)	CHARACTER	*	TREN_FIELD_DATA	Data field

## Constants

Len	Type	Value	Name	Description
1	HEX	40	TREN_TYPE_NORMAL	
1	HEX	4D	TREN_TYPE_RRS_CALL	
1	HEX	4C	TREN_TYPE_RRMS_EXIT	
1	HEX	4B	TREN_TYPE_DB2_SUBTASK	
1	HEX	4A	TREN_TYPE_	
1	HEX	49	DBCTL_RESUME_EXIT	
1	HEX	48	TREN_TYPE_	
1	HEX	47	RLS QUIESCE_EXIT	
1	HEX	46	TREN_TYPE_	
1	HEX	45	LERADSYNAD_HPO	
1	HEX	44	TREN_TYPE_	
1	HEX	43	VTAM_EXIT_HPO	
1	HEX	42	TREN_TYPE_TP_END	
1	HEX	41	TREN_TYPE_LERAD_SYNAD	
1	HEX	40	TREN_TYPE_VTAM_EXIT	
1	HEX	30	TREN_TYPE_MONITORING	
1	HEX	20	TREN_TYPE_SDUMP_EXIT	
1	HEX	10	TREN_TYPE_R530	
1	HEX	00	TREN_TYPE_R520	
1	HEX		TREN_TYPE_R510	
1	HEX		TREN_TYPE_R410	
1	HEX		TREN_TYPE_R330	

## TRFCA Trace formatting control area

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	2426	DFHTRFCA	Trace formatting control area
Common data				
(0)	ADDRESS	4	TRFCA_PL_PTR	TRF_PRINT_LINE routine addr
(4)	ADDRESS	4	TRFCA_PBUF_PTR	132 character print buffer
(8)	UNSIGNED	4	TRFCA_ENTRY_COUNT	Count of entries processed
(C)	UNSIGNED	4	TRFCA_PRINT_COUNT	Count of entries printed
Parameters for DFHTRFPP				
(10)	ADDRESS	4	TRFCA_PARM_PTR	-> selective print parms
(14)	UNSIGNED	4	TRFCA_PARM_LEN	Length of print parms
(18)	ADDRESS	4	TRFCA_BUFF_PTR	-> TRFPP (4096n)byte buffer
The encoded form of the selective print parameters passed to DFHTUxxx or AMDUSREF.				
(1C)	CHARACTER	4	TRFCA_SEL_PRINT_FLAGS	Selective print flags
	1... ..		TRFCA_SEL_ACTIVE	Selection active ?
	.1. ....		TRFCA_TRFPP_INIT	DFHTRFPP initialisation flag
	..1. ....		TRFCA_PARM_ERR	Error in parameters
#				<b>APAR PQ29805</b>
#				added TRFCA_NOT_SELECTED
#	...1 ....		TRFCA_NOT_SELECTED	Trace not selected
#	.... 1111		*	Reserved
#	(1D) BITSTRING	3	*	Available
	(20) ADDRESS	4	TRFCA_TERMLIST_PTR	Encoded TERMLIST list
	(24) ADDRESS	4	TRFCA_TERMTASK_PTR	Tasks at selected TERMLISTs
	(28) ADDRESS	4	TRFCA_TRANLIST_PTR	Encoded TRANID list
	(2C) ADDRESS	4	TRFCA_TRANTASK_PTR	Tasks with selected TRANIDs
	(30) ADDRESS	4	TRFCA_TIMELIST_PTR	Encoded time ranges
	(34) ADDRESS	4	TRFCA_TASKLIST_PTR	Encoded TASKID list
	(38) ADDRESS	4	TRFCA_KENUM_PTR	Encoded KE_NUM list
	(3C) ADDRESS	4	TRFCA_ENTRYNUM_PTR	Encoded ENTRY_NUM list
	(40) ADDRESS	4	TRFCA_TYPETR_PTR	Dom ptrs and lens for TYPETR
Parameters for DFHTRFPB				
(44)	ADDRESS	4	TRFCA_CURRBL_PTR	Current block for DFHTRFPB
(48)	UNSIGNED	4	TRFCA_BLOCK_AVLEN	Space left in last block
Parameters for DFHTRFFE				
(4C)	ADDRESS	4	TRFCA_CURREN_PTR	Current entry for DFHTRFFE
(50)	CHARACTER	8	TRFCA_TIME_BASE	STCK at last local midnight
(58)	CHARACTER	8	TRFCA_LAST_TIME	STCK of last entry
Parameters for DFHTRFFD				
(60)	UNSIGNED	2	TRFCA_TRACE_CALLER	Domain id of trc caller
(62)	CHARACTER	1	*	
	1... ..		TRFCA_TT510_LOAD_FAILED	

Offset Hex	Type	Len	Name (Dim)	Description
	.1.. ....		TRFCA_TT520_LOAD_FAILED	DFHTT510 not found
	..1. ....		TRFCA_TT530_LOAD_FAILED	DFHTT520 not found
	...1 1111		*	DFHTT530 not found
(63)	CHARACTER	1	*	Reserved unused
(64)	ADDRESS	4	*	PTR to CDURUN
(68)	ADDRESS	4	TRFCA_TT530_PTR	PTR to CDURUN 5.2
<hr/>				
#Unused# area				
(6C)	CHARACTER	56	*	Available
(A4)	ADDRESS	4	TRFCA_TCBIDLST_PTR	Encoded TCBID list
(A8)	ADDRESS	4	TRFCA_TCBADLST_PTR	Encoded TCBADDR list
<hr/>				
Storage used by TRFPRL - the print line routine				
(AC)	CHARACTER	4	*	Flag word
	1... ....		TRFCA_SPACE	Space after print
(AC)	BITSTRING	3	*	Reserved
(B0)	ADDRESS	4	TRFCA_DUFSTG_PTR	DUF_STG ptr for DFHTRDUF
(B0)	ADDRESS	4	TRFCA_ABDPL_PTR	ABDPL ptr for AMDUSREF
(B4)	ADDRESS	4	TRFCA_PRDCB_PTR	Print DCB
(B8)	FULLWORD	4	TRFCA_PAGE_COUNT	Page count
(BC)	FULLWORD	4	TRFCA_LINE_COUNT	Line count
(C0)	FULLWORD	4	TRFCA_PAGE_SIZE	Number of lines/page
<hr/>				
Interpretation area and control fields				
(C4)	ADDRESS	4	TRFCA_CDED_TOKEN	Translation routine token
(C8)	ADDRESS	4	TRFCA_IA_NAB	Next byte in interp area
(CC)	UNSIGNED	4	TRFCA_IA_LEN_LEFT	Length left in interp area
(D0)	CHARACTER	1024	TRFCA_IA	Interpretation area
<hr/>				
Warning the offset of the DFHTRIP must not change compatability with releases 3.3 and above this is for GTF multiple release. PARAMETERS FOR DFHXXTRI, MAPPED BY DFHTRIP. THE DATA FIELD ADDRESSES AND LENGTHS USED BY DFHTRFFD.				
(4D0)	CHARACTER	300	TRFCA_TRIP	MUST MATCH DFHTRIP
(4D0)	CHARACTER	140	TRIP_CICS_WORKAREA	
(4D0)	ADDRESS	4	TRIP_FCA_PTR	
(4D4)	UNSIGNED	2	TRIP_POINTID	
(4D4)	UNSIGNED	1	TRIP_POINTID_BYTE1	
(4D5)	UNSIGNED	1	TRIP_POINTID_BYTE2	
(4D6)	UNSIGNED	1	*	
(4D7)	BITSTRING	1	TRIP_FIELD_T	
(4D8)	ADDRESS	4	TRIP_FIELD_P (8)	
(4F8)	CHARACTER	28	*	
(514)	FULLWORD	4	TRIP_FIELD_N (8)	
(534)	CHARACTER	28	*	
(550)	CHARACTER	12	TRIP_TRIB_PLIST	
(550)	ADDRESS	4	TRIP_DATA_P	
(554)	UNSIGNED	2	TRIP_DATA_N	
(556)	UNSIGNED	1	TRIP_DATA_TYPE	
(557)	UNSIGNED	1	TRIP_PLIST_TYPE	
(558)	UNSIGNED	1	TRIP_SPACE	
(559)	UNSIGNED	1	TRIP_FT_TYPE	
(55A)	CHARACTER	2	*	
(55C)	CHARACTER	20	*	
(570)	CHARACTER	108	TRIP_FT_WORKAREA	
(570)	CHARACTER	108	TRIP_FT_WORK	
(570)	ADDRESS	4	TRFTW_FORMATTING_ADDRESS (6)	
(588)	CHARACTER	8	TRFTW_FORMATTING_NAME (6)	
(5B8)	CHARACTER	4	*	
(5BC)	CHARACTER	32	TRFTW_WIPE_AREA	
(5BC)	UNSIGNED	1	TRFTW_TRACE_TYPE	
(5BD)	BITSTRING	1	TRFTW_FLAGS	
	1... ....		TRFTW_INTERPRETATION	
	.1.. ....		TRFTW_LOAD_FAILED	
	..1. ....		TRFTW_NO_NAME	
	...1 ....		TRFTW_FEATURE_ABEND	
	.... 1..		TRFTW_INT_OVERFLOW	
	.... .111		*	
(5BE)	UNSIGNED	2	TRFTW_LEN_LEFT	
(5C0)	ADDRESS	4	TRFTW_NAB	
(5C4)	ADDRESS	4	TRFTW_DFHTTRIB_ADDRESS	
(5C8)	ADDRESS	4	TRFTW_CDPFTAB_ADDRESS	

Offset Hex	Type	Len	Name (Dim)	Description
(5CC)	CHARACTER	8	TRFTW_MODULE_NAME	
(5D4)	CHARACTER	8	*	
(5DC)	CHARACTER	32	*	
(5FC)	CHARACTER	188	*	UNUSED
(6B8)	CHARACTER	24	*	Unused
Various flags				
(6D0)	CHARACTER	4	*	
	1... ..		TRFCA_INT_OVERFLOW	Interpretation overflow
	.1.. ..		TRFCA_EXTRA_LINE	Extra jobname line
	.1. ....		TRFCA_FULL_ABBREV	For compability
	...1 ....		TRFCA_LAST_BLOCK	Last trace blk indicator
	.... 1... ..		TRFCA_GTF_TRACE	Doing a GTF trace
	.... .1.. ..		TRFCA_SELECT_ALL	Have requested ALL parms
	.... ..1. ..		TRFCA_UPPERCASE_REQ	Output in uppercase
(6D1)	.... ..1		TRFCA_EXCEPTION	Only print exception tr
	1... ..		TRFCA_PDX_TRACE	Doing a system dump tr
	.1. ....		TRFCA_AUX_TRACE	Doing a AUX trace
	.1. ....		TRFCA_FULL_TRACE	Full request
	...1 ....		TRFCA_ABBREV_TRACE	Abbreviated request
	.... 1... ..		TRFCA_SHORT_TRACE	Short request
	.... .1.. ..		TRFCA_FULL_DO	Full completed
	.... .1. ....		TRFCA_ABBREV_DO	Abbreviated complete
	.... ..1		TRFCA_SHORT_DO	Short complete
(6D2)	1... ..		TRFCA_TRACE_DONE_ALREADY	Trace already printed
(6D2)	BITSTRING	1	*	Available
(6D4)	ADDRESS	4	TRFCA_JOB_LINE_PTR	Ptr to jobname line buff
(6D8)	ADDRESS	4	TRFCA_INTERVAL_PTR	Time interval parameter.
All new fields that are not Multi-release depended can be added after this point otherwise see reserved space above.				
Note: fields to be used by Vendors must be added above this point.				
Fields below do NOT need their offsets guaranteed.				
Pointers to the different release formatters				
(6DC)	CHARACTER	28	*	
(6DC)	ADDRESS	4	TRFCA_FORMATTER_R530	Release 5 version 3
(6E0)	ADDRESS	4	TRFCA_FORMATTER_R520	Release 5 version 2
(6E4)	ADDRESS	4	TRFCA_FORMATTER_R510	Release 5 version 1
(6E8)	ADDRESS	4	TRFCA_FORMATTER_R410	Release 4 version 1
(6EC)	ADDRESS	4	TRFCA_FORMATTER_R330	Release 3 version 3
(6F0)	CHARACTER	8	*	Space for new release
(6F8)	UNSIGNED	1	TRFCA_FREE_BUFFER (12)	Subscript value of first free buffer for each type
(704)	CHARACTER	4	*	Reserved
(708)	ADDRESS	4	TRFCA_RECORD_BUFFER (12,5)	Pointers to segmented entry reconstruction areas - one per type AND region/ system
(7F8)	ADDRESS	4	TRFCA_NEXT_BYTE (12,5)	Ptrs to next free byte in reconstruction area
(8E8)	UNSIGNED	2	TRFCA_LEN_REM (12,5)	Length still to come continuation records
(960)	CHARACTER	8	TRFCA_DATE	Date
(968)	CHARACTER	8	TRFCA_APPLID	Applid
(970)	CHARACTER	1	*	
	1... ..		TRFCA_R520_LOAD_FAIL	DFHTR520 not found
	.1.. ..		TRFCA_R510_LOAD_FAIL	DFHTR510 not found
	.1. ....		TRFCA_R410_LOAD_FAIL	DFHTR410 not found
	...1 ....		TRFCA_R330_LOAD_FAIL	DFHTR330 not found
	.... 111.		*	Reserved
For compatibility with Vendor products we will keep the length of the TRFCA fixed. If new fields are added then change the length of the used area below.				
(971)	CHARACTER	9	*	Used area
(97A)	CHARACTER		*	End of FCA



Structure of the core block containing record selection data

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	TRFPPWA	
(0)	FULLWORD	4	WA_LEN	size of block
(4)	FULLWORD	4	WA_CNT	count of entries used
(8)	FULLWORD	4	WA_IT_LEN	length of each entry
(C)	CHARACTER	*	WA_DATA	This area is considered to be an array, with WA_IT_LEN being the length of each element, and WA_CNT the dimension of the array.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	300	DFHTRIP	This must match TRFCA_TRIP
(0)	CHARACTER	140	TRIP_CICS_WORKAREA	
(0)	ADDRESS	4	TRIP_FCA_PTR	Format control area addr
(4)	UNSIGNED	2	TRIP_POINTID	Point id of entry
(4)	UNSIGNED	1	TRIP_POINTID_BYTE1	1st half of pointid
(5)	UNSIGNED	1	TRIP_POINTID_BYTE2	2nd half of pointid
(6)	UNSIGNED	1	*	Reserved
(7)	BITSTRING	1	TRIP_FIELD_T	Bitmap of TRIP_FIELD types '0'B=EBCDIC '1'B=ASCII
(8)	ADDRESS	4	TRIP_FIELD_P (8)	Data field addresses Data 1 to 7 & the Feature trace hdr
(28)	CHARACTER	28	*	Reserved for DATA field expansion.
(44)	FULLWORD	4	TRIP_FIELD_N (8)	Data field lengths Data 1 to 7 & the Feature trace hdr
(64)	CHARACTER	28	*	Reserved for DATA field expansion.
(80)	CHARACTER	12	TRIP_TRIB_PLIST	Parameters for DFHTRIB
(80)	ADDRESS	4	TRIP_DATA_P	Data ptr for DFHTRIB
(84)	UNSIGNED	2	TRIP_DATA_N	Data length for DFHTRIB
(86)	UNSIGNED	1	TRIP_DATA_TYPE	Data type for DFHTRIB See constant defs below
(87)	UNSIGNED	1	TRIP_PLIST_TYPE	For data type CDPLIST only See constant defs below
(88)	UNSIGNED	1	TRIP_SPACE	Space before adding data
(89)	UNSIGNED	1	TRIP_FT_TYPE	Feature type trace
(8A)	CHARACTER	2	*	Reserved
(8C)	CHARACTER	20	*	Reserved
(A0)	CHARACTER	108	TRIP_FT_WORKAREA	
(A0)	CHARACTER	108	TRIP_FT_WORK	
(A0)	ADDRESS	4	TRFTW_FORMATTING_ADDRESS (6)	
(B8)	CHARACTER	8	TRFTW_FORMATTING_NAME (6)	
(E8)	CHARACTER	4	*	
(EC)	CHARACTER	32	TRFTW_WIPE_AREA	
(EC)	UNSIGNED	1	TRFTW_TRACE_TYPE	
(ED)	BITSTRING	1	TRFTW_FLAGS	
			TRFTW_INTERPRETATION	
	.1.. ....		TRFTW_LOAD_FAILED	
	..1. ....		TRFTW_NO_NAME	
	...1 ....		TRFTW_FEATURE_ABEND	
	.... 1...		TRFTW_INT_OVERFLOW	
	.... .111		*	
(EE)	UNSIGNED	2	TRFTW_LEN_LEFT	
(F0)	ADDRESS	4	TRFTW_NAB	
(F4)	ADDRESS	4	TRFTW_DFHTRIB_ADDRESS	
(F8)	ADDRESS	4	TRFTW_CDPFTAB_ADDRESS	
(FC)	CHARACTER	8	TRFTW_MODULE_NAME	
(104)	CHARACTER	8	*	
(10C)	CHARACTER	32	*	Reserved

CONTROL BLOCK NAME = DFHTRFTC  
 DESCRIPTIVE NAME = CICS/ESA (TR) Feature Trace Entry Header  
 FUNCTION = This is the header for a trace entry made by a Feature when the DFHTRFTM TRACE\_PUT interface is used.  
 It appears immediately after the TREN\_HEADER for a Feature trace entry, as the first part of the TREN\_DATA. The remaining trace entry data, supplied by the Feature as TRFT\_DATAn (where n is between 1 and 7) on the TRFT TRACE\_PUT call, follows immediately after the TRFTE\_HEADER.  
 LIFETIME = Created by DFHTRFT in the internal trace table for each TRACE\_PUT. Destroyed when overwritten after the next trace table wrap. Trace entries are also held on auxiliary trace datasets and GTF datasets.  
 STORAGE CLASS = Held in the internal trace table in MVS storage.  
 LOCATION = Each trace table block contains a block header followed by as many entries contiguously as will fit in the rest of the block.  
 INNER CONTROL BLOCKS =  
 This is an inner control block to the DFHTREN. DFHTRFTE has no inner control blocks itself.  
 NOTES :  
 DEPENDENCIES = S/390  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = None  
 CONTROL BLOCKS = None  
 GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	94	TRFTE	Feature trace entry
(0)	UNSIGNED	2	TRFTE_HEADER_LEN	Feature trace header length - excludes the length of this field itself
(2)	CHARACTER	92	TRFTE_HEADER	Feature trace header
(2)	UNSIGNED	1	TRFTE_VERSION	Feature trace header version
(3)	UNSIGNED	1	*	SPARE
(4)	CHARACTER	30	TRFTE_COMPANY_NAME	Feature company name
(22)	CHARACTER	30	TRFTE_FEATURE_NAME	Feature name
(40)	CHARACTER	10	TRFTE_FEATURE_LEVEL	Feature release level
(4A)	CHARACTER	8	TRFTE_FORMATTING_ROUTINE	Feature trace formatting routine
(52)	CHARACTER	9	TRFTE_ABBREV_NAME	Name for formatted trace
(5B)	BITSTRING	1	TRFTE_FLAGS	Feature trace entry flags
	1... ..		TRFTE_EXCEPTION_TRACE	Exception trace flag
	.111 1111		*	Spare
(5C)	CHARACTER	2	*	Spare

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	108	TRFTW	FEATURE TRACE ENTRY
(0)	ADDRESS	4	TRFTW_FORMATTING_ADDRESS (6)	STORED ADDR
(18)	CHARACTER	8	TRFTW_FORMATTING_NAME (6)	STORED NAMES
(48)	CHARACTER	4	*	SPARE
(4C)	CHARACTER	32	TRFTW_WIPE_AREA	WIPED EACH CAL@BA70223
(4C)	UNSIGNED	1	TRFTW_TRACE_TYPE	TYPES BELOW
(4D)	BITSTRING	1	TRFTW_FLAGS	
	1... ..		TRFTW_INTERPRETATION	FOREIGN CODE
	.1.. ....		TRFTW_LOAD_FAILED	MVS LOAD
	..1. ....		TRFTW_NO_NAME	NO FORMAT
	...1 ....		TRFTW_FEATURE_ABEND	NO FORMAT
	.... 1...		TRFTW_INT_OVERFLOW	
	.... .111		*	SPARE
(4E)	UNSIGNED	2	TRFTW_LEN_LEFT	WORK AREA
(50)	ADDRESS	4	TRFTW_NAB	PTR WORK AREA

Offset Hex	Type	Len	Name (Dim)	Description
(54)	ADDRESS	4	TRFTW_DFHTTRIB_ADDRESS	TRIB ADDRESS
(58)	ADDRESS	4	TRFTW_CDPFTAB_ADDRESS	CDURUN TABLE
(5C)	CHARACTER	8	TRFTW_MODULE_NAME	FT MOD NAME
(64)	CHARACTER	8	*	SPARE

## Constants

Len	Type	Value	Name	Description
2	DECIMAL	7	TRF_NUM_FIELDS	Maximum number of DATA.. ..fields on TRACE_PUT
2	DECIMAL	32	TRF_BPL	Number of bytes of data.. ..formatted on each line
1	DECIMAL	12	GTF_TYPE_NUM	number of TREN_TYPES
1	DECIMAL	0	TRFTW_ENTRY	ENTRY
1	DECIMAL	1	TRFTW_EXIT	EXIT
1	DECIMAL	2	TRFTW_EXCEPTION	EXCEPTION@BA70223
1	DECIMAL	3	TRFTW_DATA	DATA
1	DECIMAL	4	TRFTW_EVENT	EVENT
1	DECIMAL	9	TRFTW_RUB	
1	DECIMAL	0	TRFTW_RC_OK	OK
1	DECIMAL	1	TRFTW_RC_OVERFLOW	Overflow
Values for TRIP_DATA_TYPE				
1	DECIMAL	0	TRI_CHAR	CHAR on DFHTRIBM
1	DECIMAL	1	TRI_HEX	HEX on DFHTRIBM
1	DECIMAL	2	TRI_DEC	DEC on DFHTRIBM
1	DECIMAL	3	TRI_BIN	BIN on DFHTRIBM
1	DECIMAL	4	TRI_CDPLIST	CDPLIST on DFHTRIBM
1	DECIMAL	5	TRI_ASCII	ASCII on DFHTRIBM
Values for TRIP_PLIST_TYPE				
1	DECIMAL	0	TRI_IN	IN on DFHTRIBM
1	DECIMAL	1	TRI_OUT	OUT on DFHTRIBM
Values for TRIP_SPACE				
1	DECIMAL	0	TRI_NO	NO on DFHTRIBM
1	DECIMAL	1	TRI_YES	YES on DFHTRIBM
2	DECIMAL	40960	TR_BLOCK_SIZE_TRAN_DU	BLOCK SIZE USE BY TRXDF

**TRFTE Feature trace entry header**

CONTROL BLOCK NAME = DFHTRFTC  
 DESCRIPTIVE NAME = CICS/ESA (TR) Feature Trace Entry Header  
 FUNCTION = This is the header for a trace entry made by  
   a Feature when the DFHTRFTM TRACE\_PUT interface is  
   used.  
 It appears immediately after the TREN\_HEADER for  
 a Feature trace entry, as the first part of the  
 TREN\_DATA. The remaining trace entry data,  
 supplied by the Feature as TRFT\_DATAn (where n is  
 between 1 and 7) on the TRFT TRACE\_PUT call,  
 follows immediately after the TRFTE\_HEADER.  
 LIFETIME = Created by DFHTRFT in the internal trace table for  
 each TRACE\_PUT. Destroyed when overwritten after  
 the next trace table wrap. Trace entries are also  
 held on auxiliary trace datasets and GTF datasets.  
 STORAGE CLASS = Held in the internal trace table in MVS storage.  
 LOCATION = Each trace table block contains a block header  
 followed by as many entries contiguously as will  
 fit in the rest of the block.  
 INNER CONTROL BLOCKS =  
   This is an inner control block to the DFHTREN.  
   DFHTRFTE has no inner control blocks itself.  
 NOTES :  
 DEPENDENCIES = S/390  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = None  
 CONTROL BLOCKS = None  
 GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	94	TRFTE	Feature trace entry
(0)	UNSIGNED	2	TRFTE_HEADER_LEN	Feature trace header length - excludes the length of this field itself
(2)	CHARACTER	92	TRFTE_HEADER	Feature trace header
(2)	UNSIGNED	1	TRFTE_VERSION	Feature trace header version
(3)	UNSIGNED	1	*	SPARE
(4)	CHARACTER	30	TRFTE_COMPANY_NAME	Feature company name
(22)	CHARACTER	30	TRFTE_FEATURE_NAME	Feature name
(40)	CHARACTER	10	TRFTE_FEATURE_LEVEL	Feature release level
(4A)	CHARACTER	8	TRFTE_FORMATTING_ROUTINE	Feature trace formatting routine
(52)	CHARACTER	9	TRFTE_ABBREV_NAME	Name for formatted trace
(5B)	BITSTRING	1	TRFTE_FLAGS	Feature trace entry flags
	1... ..		TRFTE_EXCEPTION_TRACE	Exception trace flag
	.111 1111		*	Spare
(5C)	CHARACTER	2	*	Spare

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	108	TRFTW	FEATURE TRACE ENTRY
(0)	ADDRESS	4	TRFTW_FORMATTING_ADDRESS (6)	STORED ADDR
(18)	CHARACTER	8	TRFTW_FORMATTING_NAME (6)	STORED NAMES
(48)	CHARACTER	4	*	SPARE
(4C)	CHARACTER	32	TRFTW_WIPE_AREA	WIPED EACH CAL@BA70223
(4C)	UNSIGNED	1	TRFTW_TRACE_TYPE	TYPES BELOW
(4D)	BITSTRING	1	TRFTW_FLAGS	
	1... ..		TRFTW_INTERPRETATION	FOREIGN CODE
	.1.. ..		TRFTW_LOAD_FAILED	MVS LOAD
	..1. ....		TRFTW_NO_NAME	NO FORMAT
	...1 .....		TRFTW_FEATURE_ABEND	NO FORMAT
	.... 1...		TRFTW_INT_OVERFLOW	

Offset Hex	Type	Len	Name (Dim)	Description
	.... .111		*	SPARE
(4E)	UNSIGNED	2	TRFTW_LEN_LEFT	WORK AREA
(50)	ADDRESS	4	TRFTW_NAB	PTR WORK AREA
(54)	ADDRESS	4	TRFTW_DFHTRIB_ ADDRESS	TRIB ADDRESS
(58)	ADDRESS	4	TRFTW_CDPFTAB_ ADDRESS	CDURUN TABLE
(5C)	CHARACTER	8	TRFTW_MODULE_ NAME	FT MOD NAME
(64)	CHARACTER	8	*	SPARE

### Constants

Len	Type	Value	Name	Description
1	DECIMAL	0	TRFTW_ENTRY	ENTRY
1	DECIMAL	1	TRFTW_EXIT	EXIT
1	DECIMAL	2	TRFTW_EXCEPTION	EXCEPTION@BA70223
1	DECIMAL	3	TRFTW_DATA	DATA
1	DECIMAL	4	TRFTW_EVENT	EVENT
1	DECIMAL	9	TRFTW_RUB	
1	DECIMAL	0	TRFTW_RC_OK	OK
1	DECIMAL	1	TRFTW_RC_OVERFLOW	Overflow

## TRGTW Global trap working storage

CONTROL BLOCK NAME = DFHTRGTW  
 DESCRIPTIVE NAME = CICS Global Trap (DFHTRAP) Working Storage  
 FUNCTION = All of the working storage and register save areas etc. associated with the Global Trap (DFHTRAP).  
 LIFETIME = Created by DFHTRSR when a TRAP=ON command is issued via the SIT or CSFE. Freed by DFHTRSR during CSFE TRAP=OFF processing.  
 STORAGE CLASS = In MVS GETMAIN'd storage above 16M.  
 LOCATION = The address is held in TRA\_TRAP\_WA\_PTR in the TR domain anchor block (TRA).  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = None  
 CONTROL BLOCKS = None  
 GLOBAL VARIABLES (Macro pass) = None

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	328	DFHTRGTW	Global trap (DFHTRAP).. ..working storage
(0)	CHARACTER	72	TRAP_REGSAVE	RSA for DFHTRAP
(48)	CHARACTER	48	TRAP_PLIST	DFHTRADS storage
(78)	BITSTRING	4	TRAP_FLAGS	Trap return action flags
	1... ....		TRAP_TRACE	Further trace entry required
	.1.. ....		TRAP_DUMP	System dump required
	..1. ....		*	Not used
	...1 ....		TRAP_ABCICS	Abend CICS
	.... 1...		TRAP_DISABLE	Disable the trap
(78)	BITSTRING	3	*	Reserved
(7C)	CHARACTER	104	TRAP_TRPLIST	TRPT format parameter for requested entry
(E8)	CHARACTER	96	TRAP_WORK	Force D-word alignment for..
(E8)	CHARACTER	16	TRAP_WORK_EYEC	'DFHTRAP_WORKAREA' eyecatcher
(F8)	CHARACTER	80	TRAP_WORKAREA	Work area for DFHTRAP

## TSG Temporary storage domain statistics

CONTROL BLOCK NAME = DFHTSGDS  
 DESCRIPTIVE NAME = CICS Temporary Storage statistics record.  
 FUNCTION = Temporary Storage statistics record.  
 LIFETIME = Record is constructed by DFHSTTS, then passed to the  
 statistics domain.  
 STORAGE CLASS =  
 LOCATION =  
 INNER CONTROL BLOCKS = none  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
 DATA AREAS =  
 CONTROL BLOCKS =  
 GLOBAL VARIABLES (Macro pass) =

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHTSGDS	Temp storage statistics
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	TSGLEN	Length of data area
	..11 ....		TSGIDE	"0048" TS stats mask
(2)	ADDRESS	2	TSGID	TS stats id
	.... ..1		TSGVERS	"X'01" DSECT version number mask
(4)	CHARACTER	1	TSGDVERS	TS stats version number
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	TSGSTA5F	PUT/PUTQ main storage requests
(C)	FULLWORD	4	TSGNMG	GET/GETQ main storage requests
(10)	FULLWORD	4	TSGSTA6F	Peak storage for TS
(14)	FULLWORD	4	TSGSTA7F	PUT/PUTQ aux storage requests
(18)	FULLWORD	4	TSGNAG	GET/GETQ aux storage requests
(1C)	FULLWORD	4	TSGQNUMH	Peak TS names in use
(20)	FULLWORD	4	TSGQINH	Entries in longest Queue
(24)	HALFWORD	2		Reserved
(26)	HALFWORD	2		Reserved
(28)	FULLWORD	4	TSGSTA3F	Times queue created
(2C)	FULLWORD	4		Reserved
(30)	FULLWORD	4	TSGCSA	Control interval size
(34)	FULLWORD	4	TSGSTABF	Writes more than control interval
(38)	FULLWORD	4	TSGNCI	CIs in TS dataset
(3C)	FULLWORD	4	TSGNCIAH	Peak CIs used
(40)	FULLWORD	4	TSGSTA8F	Times aux store exhausted
(44)	HALFWORD	2	TSGNBCA	No. TS Buffers
(46)	HALFWORD	2		Reserved
(48)	FULLWORD	4	TSGBWTN	No. Buffer waits
(4C)	FULLWORD	4	TSGBUWTH	Peak users waiting on buffer
(50)	FULLWORD	4	TSGTWTN	Buffer writes
(54)	FULLWORD	4	TSGTWTNR	Writes force for recovery
(58)	FULLWORD	4	TSGTRDN	Buffer reads
(5C)	FULLWORD	4	TSGTWTNF	Format writes
(60)	HALFWORD	2	TSGNVCA	No. TS strings
(62)	HALFWORD	2		Reserved
(64)	FULLWORD	4	TSGNVCAH	Peak strings in use
(68)	FULLWORD	4	TSGVWTN	Times string wait occurred
(6C)	FULLWORD	4	TSGVUWTH	Peak users waiting on string
(70)	FULLWORD	4	TSGSTAAF	I/O errors on TS dataset
(74)	FULLWORD	4	TSGSTA6A	Current storage for TS
(78)	FULLWORD	4	TSGSTA9F	No. TS compressions
(7C)	FULLWORD	4	TSGNCIA	Current CIs in use
(80)	FULLWORD	4	TSGVUWT	Users waiting on string
(84)	FULLWORD	4	TSGBUWT	Users waiting on buffer
(88)	FULLWORD	4	TSGQNUM	TS names in use
(8C)	FULLWORD	4	TSQLAR	Longest Auxiliary record length
(90)	FULLWORD	4	TSGNAVB	No. available bytes per CI
(94)	FULLWORD	4	TSGSPCI	Segments per CI
(98)	FULLWORD	4	TSGBPSEG	Bytes per segment
(9C)	FULLWORD	4	TSGSHPDF	Shared pools defined
(A0)	FULLWORD	4	TSGSHPCN	Shared pools connected to
(A4)	FULLWORD	4	TSGSHRDS	Shared read requests
(A8)	FULLWORD	4	TSGSHWTS	Shared write requests
	1.1. 11..		TSGEND	""
	1.1. 11..		TSGCLEN	""-TSGLEN" Length of DSECT

## TSIOA Temporary storage input/output area

CONTROL BLOCK NAME = DFHTSIOA  
 DESCRIPTIVE NAME = CICS Temporary Storage Input/Output Area.  
 TEMPORARY STORAGE INPUT/OUTPUT AREA (TSIOA)  
 The TSIOA is a class of user storage and is chained off the TCA (TCASCCA). It can be acquired by the user or, in response to a GET or GETQ request, it is acquired by the temporary storage program when no TSDADDR is specified. TSIOAs acquired by, or on behalf of, a user task are normally released by the task. If not, the area is freed by the task control program when the task is terminated.  
 If necessary, an extension header is inserted in the TSIOA preceding the user data. This extension carries information specified on an EXEC CICS START command (for example, PROTECT FMH RTRANSID).

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHTSIOA	DUMMY SECTION - TEMPORARY STORAGE I/O AREA USING STORAGE ACCOUNTING (CLASS=TEMPORARY STORAGE)
(0)	HALFWORD	2		STORAGE ACCOUNTING - AREA LENGTH
(2)	HALFWORD	2	TSIOASAL	TRANSACTION STORAGE CHAIN ADDRESS
(4)	ADDRESS	4	TSIOASCA	VARIABLE RECORD LENGTH
(8)	HALFWORD	2	TSIOAVRL	RESERVED
(A)	HALFWORD	2		"*-DFHTSIOA" CONTROL AREA DISPLACEMENT
.... 11..			TSIOACAD	"*" DATA BEGINNING ADDRESS
.... 11..			TSIOADBA	

## TST Temporary storage table

CONTROL BLOCK NAME = DFHTSTDS  
 DESCRIPTIVE NAME = CICS Temporary Storage Table  
 TEMPORARY STORAGE TABLE (TST)  
 The temporary storage table (TST) is a list of generic mnemonics used:  
 1. To identify temporary storage DATAIDs for which CICS is to provide recoverability in the event of abnormal termination of CICS and subsequent emergency restart.  
 2. To identify DATAIDs for which security checking is to be performed.  
 3. To identify DATAIDs on a remote system.  
 4. To map selected remote system SYSIDs to shared queue pools.  
 Each recovery entry in the table specifies the leading characters of user-defined DATAIDs for which CICS will provide protection (enqueueing) during a logical unit of work by an application program and automatic logging of the status of the data at task termination (or sync point). CSATSTBA in the CSA optional features list (CSAOPFL) points to the temporary storage table (TST).

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHTSTDS	
(0)	DBL WORD	8	TSTSTART (0)	
PREFIX				
(0)	FULLWORD	4	TSTDTAGE	DATA AGE LIMIT IN 1.048576 SEC UNITS
(4)	ADDRESS	4	TSTADDRE	A(1ST RECOVERY ENTRY) OR 0 IF NONE PRESENT
(8)	ADDRESS	4	TSTADDRM	A(1ST REMOTE ENTRY) OR 0 IF NONE PRESENT
(C)	ADDRESS	4	TSTADDSE	A(1ST SECURITY ENTRY) OR 0 IF NONE PRESENT
(10)	BITSTRING	8	TSTHDX (0)	OPTIONAL HEADER EXTENSION ENTRY
(10)	HALFWORD	2	TSTHDXLN	HEADER EXTENSION ENTRY LENGTH
(12)	BITSTRING	1	TSTHDXFL	FLAG BYTE IN SAME FORM AS TSTFL
HEADER EXTENSION IS PRESENT IF TSTHDXBM IS SET IN THIS FLAG BYTE				
(13)	BITSTRING	1		RESERVED
(14)	ADDRESS	4	TSTADDSH	A(1ST SHARED POOL ENTRY) OR 0 IF NONE PRESENT
COMMON PART				
(0)	HALFWORD	2	TSTLL	LENGTH OF ENTRY
(2)	BITSTRING	1	TSTFL	FLAG DESCRIBING ENTRY
1... ....			TSTRCVBM	"X'80" RECOVERABLE
.1... ....			TSTRMTBM	"X'40" REMOTE

Offset Hex	Type	Len	Name (Dim)	Description
	..1. ....		TSTRNMBM	"X'20" REMOTE PREFIX GIVEN
	...1 ....		TSTRSLBM	"X'10" RESOURCE SECURITY LEVEL CHK
	.... 1...		TSTSHRBM	"X'08" SHARED POOL ENTRY
	.... .1..		TSTMIGBM	"X'04" MIGRATE FLAG (1 IF MIGRATE=YES)
	.... .1.		TSTHDXBM	"X'02" HEADER EXTENSION ENTRY
	.... ...1		TSTLSTBM	"X'01" =1 FOR LAST ENTRY
(3)	SIGNED	1		RESERVED
(4)	BITSTRING	1		RESERVED
(5)	BITSTRING	1	TSTPL	PREFIX LENGTH-1
(6)	CHARACTER	8	TSTPRFX (0)	PREFIX
(6)	CHARACTER	8	TSTPOOL (0)	POOL NAME IN SHARED POOL ENTRY
(6)	CHARACTER	4		FIRST FOUR BYTES
(A)	CHARACTER	4		LAST FOUR - INCLUDED ONLY WHEN PREFIX GREATER THAN FOUR BYTES, OR REMOTE
REMOTE ONLY				
(E)	CHARACTER	4	TSTSYS	REMOTE SYSTEM ID
REMOTE AND TSTRNMBM=1 ONLY				
(12)	CHARACTER	8	TSTRPFX	REMOTE PREFIX (TSTPL GIVES ACTUAL LENGTH-1)

**TSUE Temporary storage EXEC parameter list**



CONTROL BLOCK NAME = DFHTSUEC  
DESCRIPTIVE NAME = CICS EXEC parameter list for Temporary  
Storage user exits.

Although provided in a general library, DFHTSUED is not  
to be used as a general programming interface. Refer to  
product documentation to determine intended usage.

The following fields are part of the Product-sensitive  
Programming Interface.

TS\_ADDR0  
TS\_ADDR1  
TS\_ADDR2  
TS\_ADDR3  
TS\_ADDR4  
TS\_ADDR5  
TS\_ADDR7  
TS\_GROUP  
TS\_FUNCT  
TS\_BITS1  
TS\_EIDOPT5  
TS\_EIDOPT6  
TS\_EIDOPT7  
TS\_EIDOPT8  
TS\_QUEUE  
TS\_WRITEQ\_QUEUE  
TS\_READQ\_QUEUE  
TS\_DELETEQ\_QUEUE  
TS\_QNAME  
TS\_WRITEQ\_QNAME  
TS\_READQ\_QNAME  
TS\_DELETEQ\_QNAME  
TS\_READQ\_SET  
TS\_READQ\_INT0  
TS\_WRITEQ\_FROM  
TS\_LENGTH  
TS\_WRITEQ\_LENGTH  
TS\_READQ\_LENGTH  
TS\_READQ\_NUMITEMS  
TS\_WRITEQ\_NUMITEMS  
TS\_ITEM  
TS\_WRITEQ\_ITEM  
TS\_READQ\_ITEM  
TS\_SYSID  
TS\_WRITEQ\_SYSID  
TS\_READQ\_SYSID  
TS\_DELETEQ\_SYSID

All equates for values of EIBRCODE, EIBRESP and EIBRESP2  
form part of the General-purpose Programming Interface.

All remaining fields used in defining the Exec Parameter  
List are product sensitive and may vary between CICS  
releases.

FUNCTION =

To define the EXEC parameter list for Temporary Storage  
requests, for use by global user exit programs at exit  
points XTSEREQ and XTSEREQC.

On entry to the XTSEREQ and XTSEREQC User Exits, the EXEC  
parameter list is pointed to by UEPCLPS.

The EXEC parameter list for Temporary Storage consists of  
eight addresses.

The eight addresses are defined by TS\_ADDR0 to TS\_ADDR7.

This DSECT defines these addresses and the areas that  
they point to.

On entry to the XTSEREQ and XTSEREQC User Exits, the copy  
of EIBRCODE is pointed to by UEPRCODE, the copy of EIBRESP  
is pointed to by UEPRESP and the copy of EIBRESP2 is  
pointed to by UEPRESP2.

This DSECT also contains equates for values of EIBRCODE,  
EIBRESP and EIBRESP2 used by Temporary Storage.

LIFETIME = Lifetime of the TS command request

STORAGE CLASS = As the storage being mapped is the translated  
source in the user's application program, the  
storage may be either above or below the line.

LOCATION = (1) EXEC Parameter List is addressed by UEPCLPS.

(2) Fields copied from the EIB are addressed by  
UEPRCODE, UEPRESP and UEPRESP2.

(3) The token for use in communicating between  
XTSEREQ and XTSEREQC is addressed by UEPTQTOK.

INNER CONTROL BLOCKS =

TS\_ADDR\_LIST declares the EXEC addresses.

TS\_EID defines the EID pointed to by TS\_ADDR0.

NOTES :  
 DEPENDENCIES = S/370 ESA  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = None  
 CONTROL BLOCKS = None  
 GLOBAL VARIABLES (Macro pass) = None  
 The command parameter list is a list of addresses which reference the argument values for this EXEC CICS command. The addresses are only valid if the argument is applicable to this command.  
 For example, address 1 is of the TS QUEUE (if used) for all TS commands, whereas the address 2 is of the FROM data area on WRITEQ commands, the SET address or INTO data area for READQ commands, and is not valid for DELETEQ commands.  
 The existence bits in the EID component (TS\_BITS1) specify those addresses that are valid, and the flagword bits (TS\_EIDOPT5 - TS\_EIDOPT8) specify the keywords that were given in the EXEC CICS TS command.  
 Therefore, you can deduce the usage of each address by testing these bits in conjunction with the command function(TS\_FUNCT).

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	32	TS_ADDR_LIST	Addresses of... the EID
(0)	ADDRESS	4	TS_ADDR0	QUEUE/QNAME
(4)	ADDRESS	4	TS_ADDR1	FROM data area (WRITEQ)
(8)	ADDRESS	4	TS_ADDR2	
INTO data area (READQ) SET address (READQ)				
(C)	ADDRESS	4	TS_ADDR3	LENGTH value
(10)	ADDRESS	4	TS_ADDR4	NUMITEMS value (READQ)
(14)	ADDRESS	4	TS_ADDR5	ITEM value
NUMITEMS value (WRITEQ)				
(18)	ADDRESS	4	*	Reserved
(1C)	ADDRESS	4	TS_ADDR7	SYSID

TS\_EID (addressed by TS\_ADDR0) gives the command function, and contains the existence and flagword bits.  
 Note: Equates for TS\_GROUP, TS\_FUNCT, EIBRCODE, EIBRESP and EIBRESP2 values are defined at the end of this data structure.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	9	TS_EID	
(0)	CHARACTER	1	TS_GROUP	'0A'X for TS
(1)	CHARACTER	1	TS_FUNCT	'02'X for WRITEQ
'04'X for READQ '06'X for DELETEQ				
The existence bits (TS_BITS1) specify the parameters that are valid for this command. For example, TS_EXIST7 set on indicates that TS_ADDR7 is valid, meaning that it addresses a SYSID value. TS_ADDR0 is always valid and has no existence bit. A user exit program at XTSEREQ can set the TS_EXIST7 bit on or off for all TS commands. All other changes will be ignored.				
(2)	BITSTRING	1	TS_BITS1	
			1... .. TS_EXIST1	QUEUE/QNAME - ALWAYS SET
			1... .. TS_QUEUE_V	
			1... .. TS_WRITEQ_QUEUE_V	
			1... .. TS_READQ_QUEUE_V	
			1... .. TS_DELETEQ_QUEUE_V	
			.1.. .. TS_EXIST2	
			.1.. .. TS_WRITEQ_FROM_V	
			.1.. .. TS_READQ_SET_INT0_V	
			..1. .... TS_EXIST3	
			..1. .... TS_LENGTH_V	
			..1. .... TS_WRITEQ_LENGTH_V	
			..1. .... TS_READQ_LENGTH_V	
			...1 .... TS_EXIST4	

Offset Hex	Type	Len	Name (Dim)	Description
.... 1...			TS_READQ_NUMITEMS_V	
.... 1...			TS_EXIST5	
.... 1...			TS_WRITEQ_ITEM_NUMITEMS_V	
.... 1...			TS_READQ_ITEM_V	
.... .1..			*	
.... .1..			TS_EXIST7	
.... .1..			TS_SYSID_V	
.... .1..			TS_WRITEQ_SYSID_V	
.... .1..			TS_READQ_SYSID_V	
.... .1..			TS_DELETEQ_SYSID_V	
.... .1..			*	Reserved
(3) BITSTRING		2	*	Reserved

The next 4 bytes (TS\_EIDOPT5 - TS\_EIDOPT8) are the flagword bits. Some bits have more than one meaning, depending on the command function, and these are named accordingly. A user exit program at XTSEREQ can set the TS\_WRITEQ\_MAIN\_X and TS\_WRITEQ\_NOSUSPEND\_X bits on or off for all WRITEQ commands. All other changes will be ignored.

(5) BITSTRING		1	TS_EIDOPT5	
1... ..			TS_QNAME_X	QNAME, otherwise QUEUE@L3C
.111 111.			*	Reserved
.... .1..			TS_READQ_SET_X	SET, otherwise INTO
(6) BITSTRING		1	TS_EIDOPT6	
(6) BITSTRING		1	*	Reserved
(7) BITSTRING		1	TS_EIDOPT7	
111. ....			*	Reserved
...1 ....			TS_WRITEQ_NOSUSPEND_X	
			*	NOSUSPEND
.... 1...			TS_WRITEQ_MAIN_X	MAIN, otherwise AUXILIARY
.... 1...			TS_READQ_ITEM_X	ITEM
.... .1..			*	
.... .1..			TS_WRITEQ_REWRITE_X	
				REWRITE
.... .1..			TS_READQ_NUMITEMS_X	
			*	NUMITEMS
(8) BITSTRING		1	TS_EIDOPT8	
1... ..			*	
1... ..			TS_WRITEQ_ITEM_X	ITEM, otherwise NUMITEMS
.111 1111			*	

The following definitions are for the rest of the arguments in the EXEC parameter list, addressed by TS\_ADDR1 - TS\_ADDR7 in TS\_ADDR\_LIST.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	TS_DATA1	
(0)	CHARACTER	8	TS_QUEUE	the QUEUE name
(0)	CHARACTER	8	TS_WRITEQ_QUEUE	
(0)	CHARACTER	8	TS_READQ_QUEUE	
(0)	CHARACTER	8	TS_DELETEQ_QUEUE	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	TS_DATA1X	
(0)	CHARACTER	16	TS_QNAME	the QNAME, if specified
(0)	CHARACTER	16	TS_WRITEQ_QNAME	
(0)	CHARACTER	16	TS_READQ_QNAME	
(0)	CHARACTER	16	TS_DELETEQ_QNAME	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	TS_DATA2	
(0)	CHARACTER	*	TS_READQ_INT0	the INTO area
(0)	CHARACTER	*	TS_WRITEQ_FROM	the FROM area
(0)	ADDRESS	4	TS_READQ_SET	SET address

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	2	TS_DATA3	
(0)	HALFWORD	2	TS_LENGTH	the record LENGTH
(0)	HALFWORD	2	TS_WRITEQ_LENGTH	
(0)	HALFWORD	2	TS_READQ_LENGTH	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	2	TS_DATA4	
(0)	HALFWORD	2	TS_READQ_NUMITEMS	NUMITEMS value for READQ

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	2	TS_DATA5	
(0)	HALFWORD	2	TS_WRITEQ_NUMITEMS	NUMITEMS value for WRITEQ
(0)	HALFWORD	2	TS_ITEM	the ITEM value
(0)	HALFWORD	2	TS_WRITEQ_ITEM	
(0)	HALFWORD	2	TS_READQ_ITEM	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	TS_DATA7	
(0)	CHARACTER	4	TS_SYSID	the SYSID name
(0)	CHARACTER	4	TS_WRITEQ_SYSID	
(0)	CHARACTER	4	TS_READQ_SYSID	
(0)	CHARACTER	4	TS_DELETEQ_SYSID	

### Constants

Len	Type	Value	Name	Description
1	HEX	0A	TS_TEMPSTOR_GROUP	
Equates for TS_ FUNCT values.				
1	HEX	02	TS_WRITEQ	WRITEQ
1	HEX	04	TS_READQ	READQ
1	HEX	06	TS_DELETEQ	DELETEQ
Start of General Use Programming Interface. Equates for EIBRCODE values used by Temporary Storage.				
1	HEX	00	TS_OK_EIBRCODE	
1	HEX	20	TS_INVREQ_EIBRCODE	
1	HEX	04	TS_IOERR_EIBRCODE	
1	HEX	D1	TS_ISCINVREQ_EIBRCODE	
1	HEX	01	TS_ITEMERR_EIBRCODE	
1	HEX	E1	TS LENGERR_EIBRCODE	
1	HEX	08	TS_NOSPACE_EIBRCODE	
1	HEX	D6	TS_NOTAUTH_EIBRCODE	
1	HEX	02	TS_QIDERR_EIBRCODE	
1	HEX	D0	TS_SYSIDERR_EIBRCODE	
1	HEX	03	TS_LOCKED_EIBRCODE	
Equates for EIBRESP values used by Temporary Storage.				
1	DECIMAL	0	TS_OK_EIBRESP	
1	DECIMAL	16	TS_INVREQ_EIBRESP	
1	DECIMAL	17	TS_IOERR_EIBRESP	
1	DECIMAL	54	TS_ISCINVREQ_EIBRESP	
1	DECIMAL	26	TS_ITEMERR_EIBRESP	
1	DECIMAL	22	TS LENGERR_EIBRESP	
1	DECIMAL	18	TS_NOSPACE_EIBRESP	
1	DECIMAL	70	TS_NOTAUTH_EIBRESP	
1	DECIMAL	44	TS_QIDERR_EIBRESP	
1	DECIMAL	53	TS_SYSIDERR_EIBRESP	
1	DECIMAL	100	TS_LOCKED_EIBRESP	
Equates for EIBRESP2 values used by Temporary Storage.				
1	DECIMAL	0	TS_OK_EIBRESP2	OK
1	DECIMAL	101	TS_NOTAUTH_EIBRESP2	NOTAUTH
1	DECIMAL	0	TS_LOCKED_EIBRESP2	LOCKED *.....*.....*.....*.....*.....*.....*.....*.....*.....* End of General Use *** * Programming Interface *- *.....*.....*.....*

## TTP Terminal type parameter

MODULE NAME = DFHTTPDS  
 DESCRIPTIVE NAME = CICS Terminal Type Parameter  
 FUNCTION = Defines the terminal type parameter. This control block contains terminal type or partition or LDC specific data. The OSPWA addresses a chain of direct TTPS (one per partition or LDC) and if routing is in effect the OSPWA addresses a chain of routed TTPS, one per target terminal type. Note that routing and LDCS or partitions are mutually exclusive. TTPS are built by DFHRLR, and freed by DFHMCP on SEND PAGE.

NOTES :

DEPENDENCIES = S/370  
 RESTRICTIONS = NONE  
 REGISTER CONVENTIONS = NOT APPLICABLE  
 PATCH LABEL = NONE  
 MODULE TYPE = DSECT  
 MODULE SIZE = xxxx (dddd DECIMAL) BYTES  
 ATTRIBUTES = DSECT  
 ENTRY POINT = NOT APPLICABLE  
 PURPOSE = SEE FUNCTION  
 LINKAGE = NOT APPLICABLE  
 INPUT = NOT APPLICABLE  
 OUTPUT = NOT APPLICABLE  
 EXIT-NORMAL = NOT APPLICABLE  
 EXIT-ERROR = NOT APPLICABLE  
 EXTERNAL REFERENCES = NOT APPLICABLE  
 CONTROL BLOCKS = NOT APPLICABLE  
 TABLES = NONE  
 MACROS = NONE

TERMINAL TYPE PARAMETERS  
 COMMON CONTROL AREA

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHTTPPCM	DUMMY SECTION PART 1 - TTP
(0)	DBL WORD	8		STORAGE ACCOUNTING INFORMATION; STORAGE CLASS=USER
	... 1...		TTPSTRT	""
(8)	CHARACTER	8	TTPCBID	TTP SELF IDENTIFICATION. SET TO 'DFHTTPDS' WHEN TTP CREATED
	...1 ....		TTPSTRT1	"" START OF REAL TTP DATA
(10)	BITSTRING	2	TTPTTID (0)	TERMINAL TYPE PARAMETER ID
'TTPDDES' & 'TTPMSUFEX' EQUATES CAN BE FOUND AT END OF DSECT				
(10)	BITSTRING	1	TTPDDES	DEVICE DEPENDENCE SUFFIX
(11)	BITSTRING	1	TTPMSUFEX	MAP SUFFIX
(12)	CHARACTER	2	TTPLDCMN	LOGICAL DEVICE CODE MNEMONIC OR OUTPARTN VALUE I.E. NAME OF O/P PARTITION
(14)	BITSTRING	1	TTPLDCTT	LDC TERMINAL TYPE
(15)	BITSTRING	1	TTPDSP	DATA STREAM PROFILE
(16)	BITSTRING	2	TTPTF5 (0)	ALL TERMINAL FEATURES BYTES
(16)	BITSTRING	1	TTPTF	FLAGS FROM 'TCTTETF'
(17)	BITSTRING	1	TTPTF2 (0)	TERMINAL FEATURES (CONTD)
EQUATES FOR 'TTPTF5' ARE THE SAME AS FOR 'TCTTETF'				
(17)	BITSTRING	1	TTPDVC	BMS DEVICE FROM 'TCTTEDVC'
(18)	HALFWORD	2	TTPCNT	COUNT OF TERMINAL IDENTIFICATION IN THIS TTP
(1A)	BITSTRING	4	TTPPOF (0)	PAGEBLD OVERFLOW INFORMATION
(1A)	HALFWORD	2	TTPPGNO	CURRENT PAGE NUMBER
(1C)	HALFWORD	2	TTPOCN	PAGEBLD OVERFLOW CONTROL NUMBER
(20)	ADDRESS	4	TTPCHAIN	ADDRESS OF NEXT TTP
(24)	ADDRESS	4	TTPGBUF	ADDRESS OF PAGE BUILD BUFFER
(28)	ADDRESS	4	TTPDCCAD	A(DEVICE CONTROL CHARACTER SET)
(2C)	ADDRESS	4	TTPMLA	A(ALREADY LOADED MAP(SET))
(30)	ADDRESS	4	TTPMAPA	MAP ADDRESS WITHIN MAPSET
(34)	ADDRESS	4	TTPMMFCP	LAST MODIFIED MAP (FORWARD CHAIN POINTER) OR CURRENT MCA ADDRESS *
(38)	ADDRESS	4	TTPTFMA	TAB FORMAT MAP ADDRESS
(3C)	CHARACTER	2	TTPAVAF (0)	VALID DEST ATTRIBUTES
(3C)	BITSTRING	1	TTPAVAL	VALID ATTRS FOR DEST--BYTE1
(3D)	BITSTRING	1	TTPAVA2	VALID ATTRS FOR DEST--BYTE2
(3E)	BITSTRING	1	TTPAVA3	RESERVED
(3F)	CHARACTER	2	TTPAUSF (0)	DATASTREAM ATTRIBUTES
(3F)	BITSTRING	1	TTPAUSE	ATTRS USED IN DATASTREAM--BYTE1
(40)	BITSTRING	1	TTPAUS2	ATTRS USED IN DATASTREAM--BYTE2
(41)	BITSTRING	1	TTPAUS3	RESERVED
EQUATES FOR TTPAVAL AND TTPAUSE				
	1... ....		TTPEXTDS	"X'80" IN TTPAVAL: EXTENDED DATASTREAM SUPPORTED BY DESTINATION IN TTPAUSE: EXTENDED ATTRS PRESENT FOR SOME MAP IN CURRENT PAGE
	.1.. ....		TTPACOL	"X'40" COLOUR ATTR SUPPORTED/USED
	..1. ....		TTPAPSS	"X'20" PSS ATTR SUPPORTED/USED
	...1 ....		TTPAHLT	"X'10" HIGHLIGHT ATTR SUPPORTED/USED

Offset Hex	Type	Len	Name (Dim)	Description
	.... 1...		TTPEAVLD	"X'08" VALIDATION ATTRIBUTES SUPPORT / USED
	.... .1..		TTPEAPRT	"X'04" PARTITIONS SUPPORTED
	.... .1.		TTPEAMSR	"X'02" MSR SUPPORTED/USED
	.... ...1		TTPEAPR	"X'01" ACTIVATE PARTITION USED
EQUATES FOR TTPEAVA2 AND TTPEAUS2				
	1... ....		TTPEAFRL	"X'80" OUTLINE ATTR SUPPORTED/USED
	.1.. ....		TTPEAMIX	"X'40" SOSI ATTR SUPPORTED/USED
	.1. ....		TTPEABTR	"X'20" BACKGROUND TRANSP SUPP/USED
	.... ...1		TTPEASA	"X'01" SA SUPPORTED/USED
(42)	CHARACTER	1	TTPASUFIX	ALTERNATE SUFFIX FROM TCTTE
(43)	CHARACTER	1	TTPTSQUL	TEMPORARY STORAGE QUALIFICATION
CONTROL RECORD (MCR)				
(44)	CHARACTER	1	TTPMSZL	MAP HEIGHT IN LINES
(45)	CHARACTER	1	TTPMSZC	MAP WIDTH IN COLUMNS
(46)	CHARACTER	1	TTPMSL	RELOCATED MAP LINE POSITION
(47)	CHARACTER	1	TTPMSC	RELOCATED MAP COLUMN POSN
(48)	CHARACTER	8	TTPMLN	NAME BY WHICH MAP GOT LOADED
(50)	HALFWORD	2	TTPTXPTR	TEXTBLD TIOA POINTER, SAVE AREA
(52)	HALFWORD	2	TTPDATO	OFFSET FROM PBDDSADR TO DATA
(54)	HALFWORD	2	TTPCURSR	CURSOR POSITION
(58)	ADDRESS	4	TTP32SFP	ADDRESS OF 3270E OUTBOUND STRUCTURED FIELD
(5C)	BITSTRING	2	TTPDSPSZ (0)	MOST RESTRICTIVE DISPLAY SIZE
(5C)	BITSTRING	1	TTPLINES	MOST RESTRICTIVE DISPLAY LENGTH
(5D)	BITSTRING	1	TTPCOLS	MOST RESTRICTIVE DISPLAY WIDTH
(5E)	BITSTRING	1	TTPPFTS	TRAILER SIZE (NUMBER OF LINES)
(5F)	BITSTRING	1	TTPTFMI	TAB FORMAT MAP INDICATOR
	.1. ....		TTPTFMH	"X'20" HORIZONTAL TABS
	.1. ....		TTPTFMV	"X'40" VERTICAL TABS
(60)	BITSTRING	1	TTPIND01 (0)	TTP INDICATOR ONE
(60)	BITSTRING	1	TTPREQ	PAGE BUILD REQUEST CONTROL BYTE
	1... ....		TTPTXTO	"X'80" TEXTBLD PAGE OVERFLOW
	.1. ....		TTP3270	"X'40" 3270 INDICATOR
	.1. ....		TTPSM	"X'20" TTPMLN CONTAINS A SUFFIXED NAME
	...1 ....		TTPTXTB	"X'10" TEXTBLD DATA IN BUFFER
	.... 1...		TTPERAS	"X'08" ERASE WITH WRITE
	.... .1..		TTPML1	"X'04" ML1 TO BE CALLED
	.... .1.		TTPJL	"X'02" JUSTIFY = LAST
	.... ...1		TTPJF	"X'01" JUSTIFY = FIRST
(61)	BITSTRING	1	TTPIND02	TTP INDICATOR TWO
	1... ....		TTPOFIP	"X'80" TEXTBLD OVERFLOW IN PROCESS
	.1. ....		TTPMAPIP	"X'40" MAPPING IN PROCESS
	.1. ....		TTPHDRJP	"X'20" HEADER JUST PROCESSED
	...1 ....		TTPALARM	"X'10" USER SAID CTRL=ALARM -- SO DSB SETS ALARM IN 3601 FMH
	.... 1...		TTPWWW	"X'08" WAIT WHEN WRITING THIS PAGE
	.... .1..		TTPPFODO	"X'04" A PAGE WAS FORCED OUT DURING PAGEBLD OVERFLOW
	.... .1.		TTPLDCDF	"X'02" DEFAULT TTP FOR LOGICAL DEVICE CODE PROCESSING
	.... ...1		TTPNXDC	"X'01" NO INITIAL DDC ON PAGE 1
(62)	BITSTRING	1	TTPIND03	TTP INDICATOR THREE
	1... ....		TTPMLDC	"X'80" TTP HAS MULTIPLE LDC'S OR PARTITIONS
	.1. ....		TTDIRCT	"X'40" THIS IS A DIRECT TTP
	.1. ....		TTPTRAN	"X'20" 3270 TRANSPARENCY NEEDED
	...1 ....		TTPTRAND	"X'10" 3270 TRANSPARENCY ALLOWED FOR IN TIOA
	.... 1...		TTPWSFYS	"X'08" WSF NEEDED FOR THIS PAGE
	.... .1..		TTPDOOBF	"X'04" DOING OUTBOARD FORMATTING
	.... .1.		TTPEAU	"X'02" ERASE ALL UNPROTECTED
	.... ...1		TTPFMHYS	"X'01" FMH PRESENT IN THIS PAGE
(63)	BITSTRING	4	TTPPFWRK (0)	PAGE FORMATTING WORK AREA
TTPPFWRK'S FIELDS ARE SEQUENCE SENSITIVE TO THE FIELDS IN OSPPFWRK				
(63)	BITSTRING	1	TTPPFCL	CURRENT LINE POINTER
(64)	BITSTRING	1	TTPPFNFL	NEXT AVAILABLE FULL LINE POINTER
(65)	BITSTRING	1	TTPPFNCL	NEXT AVAILABLE COLUMN FROM LEFT
(66)	BITSTRING	1	TTPPFNCR	NEXT AVAILABLE COLUMN FROM RIGHT
(67)	BITSTRING	1	TTPPFLRC	LAST REQUESTED COLUMN FROM LEFT
(68)	BITSTRING	1	TTPPFRRC	LAST REQUESTED COLUMN FROM RIGHT
(69)	BITSTRING	1	TTPPFCNT	NUMBER OF FMH PARAMETERS ON THIS PAGE
	...1 111.		TTPMXFMP	"30" MAXIMUM NUMBER OF FMH PARAMETERS PER PAGE IS 30
(6A)	BITSTRING	1	TTPIND06	TTP INDICATOR SIX
	1... ....		TTPASCSA	"X'80" TTP FOR ALTERNATE SCREEN SIZE
(6B)	BITSTRING	1	TTPIND04	TTP INDICATOR FOUR
	1... ....		TTP36OBF	"X'80" 3650 OBF NEEDED FOR THIS PAGE
	.1. ....		TTPWSOBF	"X'40" WSF OBF NEEDED FOR THIS PAGE
	.1. ....		TTPNUSED	"X'20" DIRECT TTP IS NOT USED
	...1 ....		TTPPRTN	"X'10" THIS TTP IS FOR A PARTITION
	.... 1...		TTPTPRT	"X'08" TERM SUPPORTS PARTITIONS M32 BUILDS 3270E OUTBOUND
	.... .1..		TTPMODOR	"X'04" OBF MAP HAS BEEN RELOCATED
	.... .1.		TTPMAP1	"X'02" THE FIRST MAP IN A CHAIN OF MAP COPIES IS BEING HANDLED
	.... ...1		TTPMHCRT	"X'01" A MAP HEADER EXTENSION AREA MUST BE CREATED
(6C)	HALFWORD	2	TTPSCSA (0)	SCREEN SIZE (MINIMUM)
(6C)	CHARACTER	1	TTPSCSL	SCREEN SIZE LINES
(6D)	CHARACTER	1	TTPSCSC	SCREEN SIZE COLUMNS
(6E)	CHARACTER	13	TTPATTR (0)	ATTRIBUTE WORK AREA
(6E)	CHARACTER	1	TTTFA	3270 ATTRIBUTE
(6F)	CHARACTER	12	TTPXATTR (0)	EXTENDED ATTRIBUTE WORK AREA

Offset Hex	Type	Len	Name (Dim)	Description
(6F)	CHARACTER	1	TTPCOL	COLOUR ATTRIBUTE
(70)	CHARACTER	1	TTPPSS	PSS ATTRIBUTE
(71)	CHARACTER	1	TTPHL	HIGHLIGHT ATTRIBUTE
(72)	CHARACTER	1	TTPVAL	VALIDATION ATTRIBUTE
(73)	CHARACTER	1	TTPOUTLN	OUTLINE ATTRIBUTE
(74)	CHARACTER	1	TTPSOSI	SOSI ATTRIBUTE
(75)	CHARACTER	1	TTPBKTRN	BACKGROUND TRANSPARENCY ATTR
(76)	CHARACTER	5		RESERVED
(7B)	CHARACTER	12	TTPTXAT (0)	EXTENDED ATTRIBUTE WORK AREA FOR TEXT BUILD
(7B)	CHARACTER	1	TTPTCOL	COLOUR ATTRIBUTE (TEXT BUILD)
(7C)	CHARACTER	1	TTPTPSS	PSS ATTRIBUTE (TEXT BUILD)
(7D)	CHARACTER	1	TTPTHL	HIGHLIGHT ATTRIBUTE(TEXT BUILD)
(7E)	CHARACTER	1	TTPTOUTL	OUTLINE ATTRIBUTE (TEXT BUILD)
(7F)	CHARACTER	1	TTPTBKTR	BACKGROUND TRANSPARENCY ATTRIBUTE (TEXT BUILD)
(80)	CHARACTER	7		RESERVED
(87)	BITSTRING	1	TTPIND05	TTP INDICATOR FIVE
	1... ..		TTPPGPGB	"X'80" PAGE BUILD ON THIS LDC/PARTN
	.1.. ..		TTPPGTXB	"X'40" TEXT BUILD ON THIS LDC/PARTN
	..1. ....		TTPPGNSC	"X'20" SEND COMMAND OTHER THAN SEND CONTROL ON THIS PAGE
	...1 ....		TTP16BIT	"X'10" PAGE HAS 14- OR 16-BIT SBAS
	.... 1...		TTPFF	"X'08" FORM FEED REQUESTED
	.... .1..		TTPATSKP	"X'04" NO ATTR FOR TEXT PRINTER
	.... ..1.		TTPNOSC	"X'02" REMOVE SO / SI CHARS IN DATA
	.... ...1		TTPKA	"X'01" KATAKANA TERMINAL
(88)	CHARACTER	1	TTPOPPID	PID OF OUTPUT PARTITION
(89)	CHARACTER	2	TTPAPNM	NAME OF ACTIVE PARTITION
(8B)	CHARACTER	1	TTPAPID	PID OF ACTIVE PARTITION
(8C)	CHARACTER	4	TTPMGMSR	MAGNETICS MSR VALUE
(90)	CHARACTER	8	TTPSFGNM	NAME OF SELECTED FORMAT GROUP FOR THIS PARTITION
(98)	CHARACTER	12	TTPSAVXR	TEMPORARY WORK AREA FOR DFHM32
(A4)	CHARACTER	12	TTPSAVX2	TEMPORARY WORK AREA FOR DFHM32
(B0)	DBL WORD	8	TTPCMEND (0)	END COMMON CONTROL AREA

THE REMAINING SECTION OF THE TTP REPEATS ITSELF WHENEVER ADDITIONAL ADDRESS SPACE IS ACQUIRED TO CONTINUE THE ROUTE LIST FOR THAT TERMINAL TYPE  
 REPEATED ROUTE LIST AREA

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHTTPRE	DUMMY SECTION PART 2 - TTP
(0)	CHARACTER	8	TTPRCBID	TTP SELF IDENTIFICATION. SET TO 'DFHTTPDS' WHEN TTPRE CREATED
(8)	ADDRESS	4	TTPLCHA	ADDRESS OF NEXT ROUTE LIST SEGMENT
	.... 11..		TTPL	"" START OF ROUTE LIST
	.... 1... ..		RLENTY	"8" NUMBER OF TCTTE ADDRESSES IN 1 SEGMENT OF ROUTE LIST
	.... 11..		TTPLRES	"" ROUTE LIST ENTRY START
(C)	ADDRESS	4	TTPTCTTE	TCTTE ADDRESS IF NOT REMOTE TERMINAL A(SKELETON TCTTE) OTHERWISE
(10)	BITSTRING	1	TTPLDCCD	LOGICAL DEVICE CODE (LDC)
(11)	CHARACTER	2	TTPLDMNM	LDC MNEMONIC
(13)	BITSTRING	1	TTPRETYP	ROUTE ENTRY TYPE
	1... ..		TTPREREM	"X'80" REMOTE TERMINAL
(14)	CHARACTER	3	TTPOPID	OPERATOR IDENTIFICATION
(17)	BITSTRING	1	TTPSF	PAGING STATUS FLAG ONLY
	1... ..		TTPSFPG	"TCTTEPG" PAGING STATUS

REMAINING BIT VALUES IN 'TTPSF' UNAVAILABLE

(18)	CHARACTER	8	TTPDSN	DESTINATION NAME
	..1. ....		TTPLRES	"" ROUTE LIST ENTRY END
	...1 .1..		TTPLREL	"TTPLRES-TTPLRES" ROUTE LIST ENTRY LENGTH
(20)	BITSTRING	4	TTPSEEND	SINGLE ENTRY STOPPER
(C)	CHARACTER	(0)		ROUTE LIST
(AC)	BITSTRING	4	TTPLREND	ROUTE LIST STOPPER
	11.. 11..		TTPLENSE	"(TTPCMEND-TTPSTRT)+(TTPLRES-DFHTTPRE)+L'TTPSEEND" LENGTH OF SINGLE ENTRY TTP
(AC)			TTPLEN	"(TTPCMEND-TTPSTRT)+('DFHTTPRE)" LENGTH OF TTP

DEVICE DEPENDENCE SUFFIX (DDS)/MAP SET SUFFIX (MSS) EQUATES

11.. ...1	DSCRLP	"C'A" CRLP - DEVICE DEPEND SUFFIX
11.. ...1	MSCRLP	"C'A" MAP SET SUFFIX
11.. ..1.	DSTAPE	"C'B" TAPE - DEVICE DEPEND SUFFIX
11.. ..1.	MSTAPE	"C'B" MAP SET SUFFIX
11.. ..11	DSDISK	"C'C" DISK - DEVICE DEPEND SUFFIX
11.. ..11	MSDISK	"C'C" MAP SET SUFFIX
11.. ..1..	DSTWX	"C'D" TWX - DEVICE DEPEND SUFFIX
11.. ..1..	MSTWX	"C'D" MAP SET SUFFIX
11.. ..1.1	DS1050	"C'E" 1050 - DEVICE DEPEND SUFFIX
11.. ..1.1	MS1050	"C'E" MAP SET SUFFIX
111. ..1.	DSF22601	"C'S" RESERVED
111. ..1.	MSF22601	"C'S" RESERVED
111. ..11	DSF22602	"C'T" RESERVED
111. ..11	MSF22602	"C'T" RESERVED

Offset Hex	Type	Len	Name (Dim)	Description
11..	.11.		DS2740	"CF" 2740 WO/BUFFRECV-DEVICE DEPEND SUFFIX
11..	.11.		MS2740	"CF" 2740 WO/BUFFRECV-MAP SET SUFFIX
11..	1...		DS2740BR	"CH" 2740 W/BUFFRECV-DEVICE DEPEND SUFFIX
11..	.11.		MS2740BR	"CF" MAP SET SUFFIX
11..	.111		DS2741	"CG" 2741 - DEVICE DEPEND SUFFIX
11..	.111		MS2741	"CG" MAP SET SUFFIX
11..	1..1		DS2770	"CI" 2770 - DEVICE DEPEND SUFFIX
11..	1..1		MS2770	"CI" MAP SET SUFFIX
11.1	...1		DS2780	"CJ" 2780 - DEVICE DEPEND SUFFIX
11.1	...1		MS2780	"CJ" MAP SET SUFFIX
11.1	1...		DS2980M4	"CQ" 2980 MOD 4 - DEVICE DEPEND SUFFIX
11.1	1..1		MS2980M4	"CR" MAP SET SUFFIX
11.1	1...		DS2980	"CQ" 2980 - DEVICE DEPEND SUFFIX
11.1	1...		MS2980	"CQ" MAP SET SUFFIX
11.1	.1.1		DS327PM1	"CN" 3270-1 PRINTER - DEVICE DEPEND SUFFIX
11.1	.1.1		MS327PM1	"CN" DEVICE DEPEND SUFFIX
11.1	.11.		DS327PM2	"CO" 3270-2 PRINTER - DEVICE DEPEND SUFFIX
11.1	.11.		MS327PM2	"CO" MAP SET SUFFIX
11.1	..11		DS3270M1	"CL" 3270 MOD 1 - DEV DEP SUFFIX
11.1	..11		MS3270M1	"CL" MAP SET SUFFIX
11.1	.1..		DS3270M2	"CM" 3270 MOD 2 - DEV DEP SUFFIX
11.1	.1..		MS3270M2	"CM" MAP SET SUFFIX
111.	.1..		DS3601	"CU" 3601 - DEVICE DEPEND SUFFIX
111.	.1..		MS3601	"CU" MAP SET SUFFIX
111.	1..1		DS327PHC	"CZ" 3650/3275HC PRINTER - DEVICE DEPEND SUFFIX
111.	1..1		MS327PHC	"CZ" MAP SET SUFFIX
111.	.111		DS3270HC	"CX" 3650/3270HC - DEVICE DEPEND SUFFIX
111.	.111		MS3270HC	"CX" MAP SET SUFFIX
111.	.11.		DS3650UP	"CW" 3650UP - DEVICE DEPEND SUFFIX
111.	.11.		MS3650UP	"CW" MAP SET SUFFIX
111.	.1.1		DS3653	"CV" 3653 - DEVICE DEPEND SUFFIX
111.	.1.1		MS3653	"CV" MAP SET SUFFIX
11.1	..1.		DS3780	"CK" 3780 - DEVICE DEPEND SUFFIX
11.1	..1.		MS3780	"CK" MAP SET SUFFIX
11.1	.111		DSINTLU	"CP" INT LU DEVICE DEPEND SUFFIX
11.1	.111		MSINTLU	"CP" MAP SET SUFFIX
111.	1...		DSBCHLU	"CY" BCH LU DEVICE DEPEND SUFFIX
111.	1...		MSBCHLU	"CY" MAP SET SUFFIX



## UEFD User exit file and dataset information

CONTROL BLOCK NAME = DFHUEFDS  
 DESCRIPTIVE NAME = CICS User Exit File and Dataset Information  
 FUNCTION =  
 This DSECT maps the information provided by File Control to the FCFS User Exits :  
 XFCSREQ - Global User Exit called before the File Control request.  
 XFCSREQC - Global User Exit called after the File Control request has been processed.  
 LIFETIME =  
 DFHFCFS supplies the information for this DSECT before the global User Exits around File Open, Close, Enable and Disable are called.  
 The information provided is valid for a single invocation of the exit only.  
 LOCATION =  
 The content of parameter UEFPINFO passed from DFHFCFS on the Exit calls, is the address of this control block.  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None.  
 User Exit File Information Control Block

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHUEFDS	
(0)	CHARACTER	8	UEFLNAME	File Name
(8)	CHARACTER	44	UEDSNAME	Data Set Name
This byte contains the servreq settings for the File				
(34)	BITSTRING	1	UEFSERV	Servreqs Indicator
	..11 .1..		UEFDSRI	"UEFSERV" Read Indicator
	1... ....		UEFRDIM	"X'80" Read Valid
	..11 .1..		UEFDSUPD	"UEFSERV" Read Update Indicator
	..1. ....		UEFUPDIM	"X'20" Update Valid
	..11 .1..		UEFDSADD	"UEFSERV" Write New Record Indicator
	...1 ....		UEFADDIM	"X'10" Add Valid
	..11 .1..		UEFSDSI	"UEFSERV" Deletion Validity Indicator
	... 1...		UEFDELIM	"X'08" Delete Valid
	..11 .1..		UEFBRWSE	"UEFSERV" Browse Validity Indicator
	.... ..1.		UEFBRZIM	"X'02" Browse Valid
Flags indicating Automatic Journaling and Logging Options				
(35)	BITSTRING	1	UEFDSJL	Journaling and Logging Indicator
	..11 .1.1		UEFDSJRO	"UEFDSJL" Journal Read Only Indicator
	1... ....		UEFJRO	"X'80" Journal Read Only
	..11 .1.1		UEFDSJRU	"UEFDSJL" Journal Read for Update Ind
	..1. ....		UEFJRU	"X'40" Journal Reads for Update
	..11 .1.1		UEFDSJWU	"UEFDSJL" Journal Write Updates Ind
	..1. ....		UEFJWU	"X'20" Journal Write Updates
	..11 .1.1		UEFDSJWA	"UEFDSJL" Journal Write Adds Indicator
	...1 ....		UEFJWA	"X'10" Journal Write Adds
	..11 .1.1		UEFDSJDS	"UEFDSJL" Dsname has been Journalled Ind
	.... 1...		UEFJDSN	"X'08" Dsname has been Journalled
	..11 .1.1		UEFDSJSY	"UEFDSJL" Synchronous Reads Journal Ind
	.... ..1.		UEFJSYN	"X'04" Synchronous Reads Journal
	..11 .1.1		UEFDSJAS	"UEFDSJL" Asynchronous Writes Jnl Ind
	.... ..1.		UEFJASY	"X'02" Asynchronous Writes Journal
A further automatic Journaling Option (VSAM only)				
(36)	BITSTRING	1	UEFDSVJL	VSAM Journaling Indicator
	..1. ....		UEFJWAC	"X'40" Write Add Complete
Journal to be used for Automatic Journaling				
(37)	BITSTRING	1	UEFDSJID	User Journal Id
Access Method Indicator				
(38)	BITSTRING	1	UEFDSACC	Access Method
	1... ....		UEFVSAM	"X'80" Vsam
	..1. ....		UEFBDAM	"X'40" Bdam
Recovery Attributes of Base Cluster				
(39)	BITSTRING	1	UEFBCRV	Recovery Attrs of Base Cluster
	..1. ....		UEFBCFR	"X'20" Forward Recovery
	...1 ....		UEFBCLOG	"X'10" Logging
	.... 1...		UEFBCVAL	"X'08" Valid Flag for Recovery Attrs

Offset Hex	Type	Len	Name (Dim)	Description
The following two fields identify the Forward Recovery Log The Forward Recovery Log may be specified on the CICS File definition (FCTE) or on the IDCAMS dataset definition for the associated sphere(VSAM Catalog). Where both are specified, the VSAM Catalog takes precedence and only the 26 character Logstream name from the catalog is passed to the User Exit. Where the Forward Recovery Log is only specified on the CICS File definition the 2 character log id is passed to the exit. Number of the Journal to be used for Forward Recovery (if any) This is the Forward Recovery Log Id from the FCTE if the FCTE is being used to set the FR Log. Zero will be passed in the following cases : (1) Forward Recovery not specified (2) The VSAM Catalog has been used to specify the log name				
(3A)	BITSTRING	1	UEFFRLOG	Forward Recovery Log Id
(3B)	BITSTRING	1		Reserved
Name of the Log to be used for Forward Recovery (if any) This is the Forward Recovery Log name from the VSAM Catalog Blanks will be passed in the following cases : (1) Forward Recovery not specified (2) The VSAM Catalog hasn't been used to specify the log name				
(3C)	CHARACTER	26	UEFFRCLG	FR Log from VSAM Catalog
(56)	CHARACTER	2		Reserved
Date and Time when last File against the VSAM Sphere Closed The date and time are in packed decimal format where s is the sign for the decimal number				
(58)	FULLWORD	4	UEFCDATE	Date of Last Closure(yyyymmdd)
(5C)	FULLWORD	4	UEFCTIME	Time of Last Closure(hhmmss)
Availability Status				
(60)	ADDRESS	1	UEFBCAS	Availability State
	..1. ....		UEFBCUNA	"X'20" Data set marked unavailable
(61)	CHARACTER	3		Reserved
Address of read only copy of ACB This address is only set up when calling the XFCSREQC user exit after the completion of a successful OPEN request. This field contains zero in all other cases.				
(64)	ADDRESS	4	UEFACBCP	Address of copy of ACB

## UEPAR Task related user exit plist

MODULE NAME = DFHUEXIT  
 DESCRIPTIVE NAME = CICS USER EXIT MACRO

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHUEPAR	
(0)	ADDRESS	4	UEPEXN	ADDRESS OF EXIT NUMBER
(4)	ADDRESS	4	UEPGAA	ADDRESS OF GLOBAL AREA ( (ZERO=NO WORK AREA)
(8)	ADDRESS	4	UEPGAL	ADDRESS OF GLOBAL AREA LENGTH
(C)	ADDRESS	4	UEPCRCA	ADDRESS OF CURRENT RETURN-CODE
(10)	ADDRESS	4	UEPTCA	(reserved)
(14)	ADDRESS	4	UEPCSA	(reserved)
(18)	ADDRESS	4	UEPEPSA	ADDRESS OF REGISTER SAVE AREA FOR USE BY EXIT PROGRAM
(1C)	ADDRESS	4	UEPHMSA	ADDRESS OF SAVE AREA USED FOR HOST MODULE'S REGISTERS
END OF RETURN CODE EQUATES				
			UERTPREP	"X'80" PREPARE
	.1..	....	UERTCOMM	"X'40" COMMIT UNCONDITIONALLY
	..1.	....	UERTBACK	"X'20" BACKOUT
	...1	....	UERTDGCS	"X'10" LOST TO CICS INITIAL START
	....	1..	UERTDGNK	"X'08" RM SHOULD NOT BE IN-DOUBT
	....	.1..	UERTWAIT	"X'04" RM WILL HAVE TO WAIT FOR OUTCOME
	....	.1.	UERTRSYN	"X'02" RESYNC
	....	..1	UERTLAST	"X'01" LAST COMMIT/ABORT IN THREAD
	1..	....	UERTONLY	"X'80" RM IS ONLY UPDATER - TRUE CAN PERFORM SINGLE PHASE COMMIT
	.1..	....	UERTELUW	"X'40" RM IS READ ONLY - TRUE CAN INVOKE RM WITH END LUW CALL.
	....	.1..	UERFPREP	"4" VOTE-YES
	....	1..	UERFBACK	"8" VOTE-NO
	....	11..	UERFNLOG	"12" VOTE-YES-BUT-DO-NOT-LOG
	....	.1..	UERFDONE	"4" COMMIT/ABORT COMPLETE
	....	1..	UERFHOLD	"8" REMEMBER COMMIT/ABORT
	....	.1..	UERFOK	"4" SINGLE PHASE (UERTONLY); COMMITTED OK
	....	1..	UERFBOUT	"8" SINGLE PHASE (UERTONLY); BACKED OUT
	1..	....	UERTEOTR	"X'80" END OF THREAD
	.1.	....	UERTSOTR	"X'40" START OF TASK
	1..	..1.	UERTRTTR	"X'82" no longer used
	.1.	..1.	UERTRTST	"X'42" no longer used
	....	.1..	UERFEOTR	"4" CALL UNDERSTOOD
	1..	....	UERTCONN	"X'80" EXTERNAL RESOURCE MANAGER IS
	.1.	....	UERTNCON	"X'40" EXTERNAL RESOURCE MANAGER IS NOT
	1..	....	UERTCORD	"X'80" CICS Orderly Termination
	.1..	....	UERTCIMM	"X'40" CICS Immediate Termination
	.1.	....	UERTCABY	"X'20" CICS ABEND (Retry possible - TCBs Dispatchable)
	...1	....	UERTCABN	"X'10" CICS ABEND (Retry NOT possible - TCBs Dispatchable)
	....	...1	UERTOPCA	"X'01" Operator Cancel (Retry NOT possible - TCBs NOT dispatchable)
(20)	ADDRESS	4	UEPURID	ADDRESS OF LUW-ID
(24)	ADDRESS	4	UEPTAA	ADDRESS OF TASK AREA
(28)	ADDRESS	4	UEPTAL	ADDRESS OF TASK AREA LENGTH
(2C)	ADDRESS	4	UEPEIB	ADDRESS OF CURRENT EIB
(30)	ADDRESS	4	UEPFLAGS	ADDRESS OF FLAGWORD
(34)	ADDRESS	4	UEPRMSTK	ADDRESS OF KERNEL STACK ENTRY
(38)	ADDRESS	4	UEPUOWDS	ADDRESS OF LU6.2 UNIT OF WORK ID
(3C)	ADDRESS	4	UEPSECFLG	ADDRESS OF USER SECURITY BLOCK FLAG
	1..	....	UEPNOSEC	"X'80" SECURITY INACTIVE FOR THIS SYSTEM
	..1.	....	UEPSEC	"X'20" SECURITY ACTIVE FOR THIS SYSTEM
(40)	ADDRESS	4	UEPSECBLK	ADDRESS OF ADDRESS OF USER SECURITY BLOCK
(44)	ADDRESS	4	UEPRMQUA	ADDRESS OF RM QUALIFIER
(48)	FULLWORD	4	UEPCALAM	ADDRESS OF CALLER AMODE INDICATION BYTE
	1..	....	UEPCAM31	"X'80" INDICATES ORIGINAL CALLER WAS AMODE 31
(4C)	ADDRESS	4	UEPSYNCA	ADDRESS OF PARMS PASSED TO SYNC PT.
	1..	....	UEPSUPDR	"X'80" RM UNDERSTANDS SINGLE UPDATER PROTOCOL
	.1.	....	UEPREADO	"X'40" RM IS READ ONLY FOR THIS LUW
(50)	ADDRESS	4	UEPTIND	ADDRESS OF CALLER'S TASK INDICATORS
	1..	....	UEPTANY	"X'80" DATA LOCATION ANY
	.1.	....	UEPTCICS	"X'40" TASKDATAKEY = CICS

The following indicator is set after a failure to switch to the TCB expected by the TRUE. This is used only when the caller is Sync-Point or End\_of\_Task. All other callers are Abended.

	..1.	....	UEPTUTCB	"X'20" UNEXPECTED TCB
(50)	CHARACTER		UEPTQR	"C'QR',2" QUASI-REENTRANT (QR) TCB
(50)	CHARACTER		UEPTCO	"C'CO',2" CONCURRENT (CO) TCB
(50)	CHARACTER		UEPTRO	"C'RO',2" RESOURCE_OWNING (RO) TCB
(50)	CHARACTER		UEPTFO	"C'FO',2" FILE_OWNING (FO) TCB
(50)	CHARACTER		UEPTSZ	"C'SZ',2" FEPI (SZ) TCB
(50)	CHARACTER		UEPTRP	"C'RP',2" RP MODE TCB
(50)	CHARACTER		UEPTL8	"C'L8',2" AN OPEN TCB
(50)	CHARACTER		UEPTSO	"C'SO',2" SOCKETS TCB
(50)	CHARACTER		UEPTSL	"C'SL',2" SOCKETS LISTENER TCB
(50)	CHARACTER		UEPTS8	"C'S8',2" SSL TCB

Offset Hex	Type	Len	Name (Dim)	Description
(50)	CHARACTER		UEPTJ8	"C'J8',2" A JAVA TCB
(50)	CHARACTER		UEPTJS	"C'JS',2" JOBSTEP TCB
(54)	ADDRESS	4	UEPPBTOK	ADDRESS OF CALLER'S PB TOKEN
(58)	ADDRESS	4	UEPTRCE	Address of trace flag byte
	1... ..		UEPTRLV1	"X'80" RMI Level 1 trace active
	.1.. ..		UEPTRLV2	"X'40" RMI Level 2 trace active
(5C)	FULLWORD	4	UEPRMEND (0)	END of TYPE=RM Plist
	.1.1 11..		UEPRMLEN	"UEPRMEND-UEPEXN"Length of TYPE=RM Plist

THE FOLLOWING EQU DEFINITIONS RELATE TO THE OBJECT THAT IS ADDRESSED BY UEPFLAGS, NOT TO UEPFLAGS ITSELF.

Offset Hex	Type	Len	Name (Dim)	Description
.... ..			UEF0OFFS	"0" FIRST BYTE ...
FIRST BYTE IS RESERVED FOR CICS/VS 1.5 COMPATIBILITY				
.... ..1			UEF1OFFS	"1" SECOND BYTE
.... ..1			UEF2OFFS	"2" THIRD BYTE
.... ..1			UEFDTASK	"UEF2OFFS" BYTE-DISPL = 2
.... .111			UEFPTASK	"7" BIT-POSITN = 7
.... ..1			UEFMTASK	"X'01" BIT-MASK
.... ..1			UEFDCTER	"UEF2OFFS" BYTE-DISPL = 2
.... .1.1			UEFPCTER	"5" BIT-POSITION = 5
.... .1..			UEFMCTER	"X'04" BIT-MASK
.... ..1			UEFDFEDF	"UEF2OFFS" BYTE-DISPL = 2
.... ..11			UEFPFEDF	"3" BIT-POSITION = 3
.... ..1			UEFMFEDF	"X'10" BIT-MASK
.... ..11			UEF3OFFS	"3" FOURTH BYTE
.... ..11			UEFDSP1	"UEF3OFFS" BYTE-DISPL = 3
.... ..11			UEFPSP1	"6" BIT-POSITN = 6
.... ..1			UEFMSP1	"X'02" BIT-MASK
.... ..11			UEFDAPPL	"UEF3OFFS" BYTE-DISPL = 3
.... .1.1			UEFPAPPL	"5" BIT-POSITN = 5
.... .1..			UEFMAPPL	"X'04" BIT-MASK
.... ..11			UEFDSP1	"UEF3OFFS" BYTE-DISPL = 3
.... ..11			UEFPSP1	"3" BIT-POSITN = 3
.... ..1			UEFMSP1	"X'10" BIT-MASK

DUMMY SECTION FOR ROUTING FLAGS

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHUEFLG	
(0)	BITSTRING	4		

DUMMY SECTION FOR ROUTING ARGUMENT

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHUERTR	
(0)	BITSTRING	1	UERTFGP	FUNCTION GROUP
(1)	BITSTRING	1	UERTFID	ORIGIN-IDENTIFIER
	.... ..1		UERTAPPL	"31-(UEFDAPPL*8+UEFPAPPL)" FROM API
	.... ..1		UERTFAP1	"UERTAPPL" FROM API
	.... ..1		UERTAPI	"UERTAPPL" FROM API
	.... ..1		UERTSPI	"31-(UEFDSP1*8+UEFPSP1)" FROM SPI
	.... .1..		UERTSYN1	"31-(UEFDSYNC*8+UEFPSP1)" FROM SP-MGR
	.... 1...		UERTTASK	"31-(UEFDTASK*8+UEFPPTASK)" FROM TASK-MGR
	.... 1.1		UERTCTER	"31-(UEFDCTER*8+UEFPCTER)" FROM CICS-TERMINATION
	.... 11..		UERTFEDF	"31-(UEFDFEDF*8+UEFPFEDF)" FROM CEDF
	.... .1. ....		UERTRMSY	"32" FROM RMSY (NOT FOR RM)
(2)	BITSTRING	1	UERTOPT2	EIDOPT2.COPY
(3)	BITSTRING	1		RESERVED
(4)	ADDRESS	4	UERTREND (0)	END OF RECURSIVE SECTION
	.... .1..		UERTRLEN	"UERTREND-UERTFGP" Length of recursive section

EXITID EQU-LIST - Global User Exit Number

Offset Hex	Type	Len	Name (Dim)	Description
.... ..1			XTCIN	"1"
.... ..1			XTCOUT	"2"
.... ..11			XCATT	"3"
.... .1..			XTCTIN	"4"
.... .1.1			XTCTOUT	"5"
.... .11			XDSBWT	"6"
.... .111			XDSAWT	"7"
.... 1...			XLGSTRM	"8"
.... 1.1			XDUREQ	"9"
.... 1.1			XDUCLSE	"10"
.... 1.11			XDUOUT	"11"

Offset Hex	Type	Len	Name (Dim)	Description
....	11..		XMEOUT	"12"
....	11.1		XFCREQ	"13"
....	111.		XFCREQC	"14"
....	1111		XTSPTOUT	"15"
...1	....		XGMTEXT	"16"
...1	...1		XMNOUT	"17"
...1	..1.		XRCINIT	"18"
...1	..11		XRCINPT	"19"
...1	..1.		XICREQ	"20"
...1	..1.1		XICEXP	"21"
...1	..11.		XISLCLQ	"22"
...1	..111		XPCFTCH	"23"
...1	1....		XPCHAIR	"24"
...1	1..1		XPCTA	"25"
...1	1.1.		XPCABND	"26"
...1	1.11		XPCREQ	"27"
...1	11..		XPCREQC	"28"
...1	11.1		XTDREQ	"29"
...1	111.		XTDIN	"30"
...1	1111		XTDOUT	"31"
..1.	....		XTSQRIN	"32"
..1.	...1		XTSQROUT	"33"
..1.	..1.		XTSPTIN	"34"
..1.	..11		XZCIN	"35"
..1.	..1.		XZCOUT	"36"
..1.	..1.1		XZCATT	"37"
..1.	..11.		XZCOUT1	"38"
..1.	..111		XXRSTAT	"39"
..1.	1....		XXDFA	"40"
..1.	1..1		XXDFB	"41"
..1.	1.1.		XXDTO	"42"
..1.	1.11		XSTOUT	"43"
..1.	11..		XDLPRE	"44"
..1.	11.1		XDLPOST	"45"
..1.	111.		XFCSREQ	"46"
..1.	1111		XEIIIN	"47"
..11	....		XEIOUT	"48"
..11	...1		XALTENF	"49"
..11	..1.		XICTENF	"50"
..11	..11		XDTAD	"51"
..11	..1.		XDTRD	"52"
..11	..1.1		XDTLC	"53"
..11	..11.		XSTERM	"54"
..11	..111		XSRAB	"55"
..11	1....		XFCSREQC	"56"
..11	1..1		XSZBRQ	"57"
..11	1.1.		XSZARQ	"58"
..11	1.11		XISCONA	"59"
..11	11..		XRSINDI	"60"
..11	11.1		XXMATT	"61"
..11	111.		XZIQUE	"62"
..11	1111		XTSREQ	"63"
..1.	....		XTSREQC	"64"
..1.	...1		XTDEREQ	"65"
..1.	..1.		XTDEREQC	"66"
..1.	..11		XICEREQ	"67"
..1.	..1.		XICEREQC	"68"
..1.	..1.1		XALCAID	"69"
..1.	..11.		XSNON	"70"
..1.	..111		XSNOFF	"71"
..1.	1....		XRMIIIN	"72"
..1.	1..1		XRMIOUT	"73"
..1.	1.1.		XAKUSER	"74"
..1.	1.11		XFCNREC	"75"
..1.	11..		XFCBFAIL	"76"
..1.	11.1		XFCLDEL	"77"
..1.	111.		XFCBOVER	"78"
..1.	1111		XFCBOUT	"79"
..1.1	....		XFCVSDS	"80"
..1.1	...1		XFCQUIS	"81"
..1.1	..1.		XDUREQC	"82"
..1.1	..11		XFCAREQ	"83"
..1.1	..1.		XFCAREQC	"84"
..1.1	..1.1		XEISPIN	"85"
..1.1	..11.		XEISPOUT	"86"
..1.1	..111		XNQEREQ	"87"
..1.1	1....		XNQEREQC	"88"
..1.1	1..1		XFAINTU	"89"
..1.1	1.1.		XBMIN	"90"
..1.1	1.11		XBMOUT	"91"
..1.1	11..		XBADEACT	"92"
..1.1	11.1		XLDLOAD	"93"
..1.1	111.		XLDELETE	"94"
..1.1	1111		XINDT1	"95"
..11.	....		XINDT2	"96"
..11.	...1		XLGWBC	"97"

## UEPAR Global user exit plist

MODULE NAME = DFHUEXIT  
DESCRIPTIVE NAME = CICS USER EXIT MACRO

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHUEPAR	
(0)	ADDRESS	4	UEPEXN	ADDRESS OF EXIT NUMBER
(4)	ADDRESS	4	UEPGAA	ADDRESS OF GLOBAL AREA ( (ZERO=NO WORK AREA)
(8)	ADDRESS	4	UEPGAL	ADDRESS OF GLOBAL AREA LENGTH
(C)	ADDRESS	4	UEPCRA	ADDRESS OF CURRENT RETURN-CODE
(10)	ADDRESS	4	UEPTCA	(reserved)
(14)	ADDRESS	4	UEPCSA	(reserved)
(18)	ADDRESS	4	UEPEPSA	ADDRESS OF REGISTER SAVE AREA FOR USE BY EXIT PROGRAM
(1C)	ADDRESS	4	UEPHMSA	ADDRESS OF SAVE AREA USED FOR HOST MODULE'S REGISTERS
(20)	ADDRESS	4	UEPGIND	ADDRESS OF CALLER'S TASK INDICATORS
			1... ....	UEPGANY
			.1.. ....	UEPGCICS
(20)	CHARACTER		UEPTQR	"C'QR',2" QUASI-REENTRANT (QR) TCB
(20)	CHARACTER		UEPTCO	"C'CO',2" CONCURRENT (CO) TCB
(20)	CHARACTER		UEPTRO	"C'RO',2" RESOURCE_OWNING (RO) TCB
(20)	CHARACTER		UEPTFO	"C'FO',2" FILE_OWNING (FO) TCB
(20)	CHARACTER		UEPTSZ	"C'SZ',2" FEPI (SZ) TCB
(20)	CHARACTER		UEPTRP	"C'RP',2" RP MODE TCB
(20)	CHARACTER		UEPTL8	"C'L8',2" AN OPEN TCB
(20)	CHARACTER		UEPTSO	"C'SO',2" SOCKETS TCB
(20)	CHARACTER		UEPTSL	"C'SL',2" SOCKETS LISTENER TCB
(20)	CHARACTER		UEPTS8	"C'S8',2" SSL TCB
(20)	CHARACTER		UEPTJ8	"C'J8',2" A JAVA TCB
(20)	CHARACTER		UEPTJS	"C'JS',2" JOBSTEP TCB
(24)	ADDRESS	4	UEPSTACK	ADDRESS OF KERNEL STACK ENTRY
(28)	ADDRESS	4	UEPXSTOR	ADDRESS OF STORAGE FOR XPI PARAMETERS
(2C)	ADDRESS	4	UEPTRACE	ADDRESS OF TRACE FLAG
			1... ....	UEPTRON
			.... ....	UEPURNORM
(30)	HALFWORD	2	UEPPARMS (0)	"X'00" CONTINUE NORMAL PROCESSING START OF PARAMETERS UNIQUE TO EACH EXIT ID

XFCNREC PARAMETERS  
Exit specific parameters are:  
UEFILE - Address of 8 byte field containing the file name  
UEDSETN - Address pointing to a 44 character DSDNAME  
UEPFRCV - Address of file status flag byte  
Valid values for UEPFRCV are:  
UEPFLOG EQU X'01' file log attribute  
Valid return codes for XFCNREC are:  
UEPURNORM EQU X'00' normal(default) - reject mismatch  
- open will fail as normal  
UEPURNORM EQU X'04' bypass request - accept mismatch  
- open will continue.  
Message DFHFC0998 will be issued.

(30)	ADDRESS	4	UEFILE	address of 8 character filename
(34)	ADDRESS	4	UEDSETN	address of 44 character DSDNAME
(38)	ADDRESS	4	UEPFRCV	address of file status flag byte

valid values for UEPFRCV are:

.... ...1	UEPFLOG	"X'01" file log attribute
-----------	---------	---------------------------

XFCAREQ PARAMETERS  
VALID RETURN CODES FOR XFCAREQ ARE:  
UEPURNORM EQU X'00' NORMAL(DEFAULT)  
UEPURNORM EQU X'04' BYPASS REQUEST  
UEPURNORM EQU X'20' PURGED

(30)	ADDRESS	4	UEPCLPS	ADDRESS OF COMMAND LEVEL PLIST
(34)	ADDRESS	4	UEPFATOK	ADDR OF TOKEN TO PASS TO REQ EXIT
(38)	ADDRESS	4	UEPRCODE	ADDRESS OF COPY OF EIBRCODE
(3C)	ADDRESS	4	UEPRESP	ADDRESS OF COPY OF EIBRESP
(40)	ADDRESS	4	UEPRESP2	ADDRESS OF COPY OF EIBRESP2
(44)	ADDRESS	4	UEPTSTOK	ADDRESS OF TASK TOKEN
(48)	ADDRESS	4	UEPRECUR	ADDRESS OF HALFWORD DEPTH COUNTER

XFCAREQC PARAMETERS  
VALID RETURN CODES FOR XFCAREQC ARE:  
UEPURNORM EQU X'00' NORMAL(DEFAULT)  
UEPURNORM EQU X'20' PURGED

(30)	ADDRESS	4	UEPCLPS	UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4	UEPFATOK	UEPFATOK - AS DEFINED ABOVE
(38)	ADDRESS	4	UEPRCODE	UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4	UEPRESP	UEPRESP - AS DEFINED ABOVE
(40)	ADDRESS	4	UEPRESP2	UEPRESP2 - AS DEFINED ABOVE
(44)	ADDRESS	4	UEPTSTOK	UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4	UEPRECUR	UEPRECUR - AS DEFINED ABOVE

Offset Hex	Type	Len	Name (Dim)	Description
XFCREQ PARAMETERS				
VALID RETURN CODES FOR XFCREQ ARE:				
UERCNORM EQU X'00' NORMAL(DEFAULT)				
UERCBYP EQU X'04' BYPASS REQUEST				
UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4	UEPFCTOK	ADDRESS OF TOKEN TO PASS TO XFCREQC
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRES P - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRES P2 - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
(4C)	ADDRESS	4	UEPRSRCE	ADDRESS OF COPY OF EIBRSRCE
(50)	ADDRESS	4	UEPFSHIP	ADDRESS OF FUNCTION SHIP AREA
XFCREQC PARAMETERS				
VALID RETURN CODES FOR XFCREQC ARE:				
UERCNORM EQU X'00' NORMAL(DEFAULT)				
UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPFCTOK - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRES P - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRES P2 - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
(4C)	ADDRESS	4		UEPRSRCE - AS DEFINED ABOVE
XFCSREQ PARAMETERS				
Exit specific parameters are:				
UEPFSREQ - Address of 2 byte field containing the request type.				
UEPFILE - Address of 8 byte field containing the file name				
UEPFINFO - Address pointing to a block containing the file info.				
UEPRECUR - Address of halfword recursion level				
VALID VALUES FOR UEPFSREQ ARE:				
First byte				
UEPFSOPN EQU X'01' Open File Request				
UEPFSCLS EQU X'02' Close File Request				
UEPFSENB EQU X'03' Enable File Request				
UEPFSDIS EQU X'04' Disable File Request				
UEPFS CAN EQU X'05' Cancel Close File Request				
Second byte - meaning depends on type of request				
Values for open				
UEPFSNOP EQU X'00' Normal Open				
UEPFSOFB EQU X'02' Open for backout				
Values for close				
UEPFSNC EQU X'00' Normal Close				
UEPFS CP EQU X'01' Close Pending				
UEPFS ELM EQU X'02' End of Load Mode Close				
UEPFSIMM EQU X'06' Immediate Close				
UEPFSICP EQU X'07' Immediate Close Pending				
UEPFSQU EQU X'08' RLS Quiesce Close				
VALID RETURN CODES FOR XFCSREQ ARE:				
UERCNORM EQU X'00' NORMAL(DEFAULT)				
UERCBYP EQU X'04' BYPASS THE FILE CONTROL REQUEST				
UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPFSREQ	ADDRESS OF FILE STATE REQUEST BYTE
VALID VALUES FOR UEPFSREQ ARE:				
First byte				
	....	...1	UEPFSOPN	"X'01'" Open File Request
	....	..1.	UEPFSCLS	"X'02'" Close File Request
	....	..11	UEPFSENB	"X'03'" Enable File Request
	....	.1..	UEPFSDIS	"X'04'" Disable File Request
	....	.1.1	UEPFS CAN	"X'05'" Cancel Close File Request
Second byte - meaning depends on type of request				
Values for open				
	....	....	UEPFSNOP	"X'00'" Normal Open
	....	..1.	UEPFSOFB	"X'02'" Open for backout
Values for close				
	....	....	UEPFSNC	"X'00'" Normal Close
	....	...1	UEPFS CP	"X'01'" Close Pending
	....	..1.	UEPFS ELM	"X'02'" End of Load Mode Close
	....	.11.	UEPFSIMM	"X'06'" Immediate Close
	....	.111	UEPFSICP	"X'07'" Immediate Close Pending
	....	1...	UEPFSQU	"X'08'" RLS Quiesce Close
(34)	ADDRESS	4	UEPFILE	ADDRESS OF FILE NAME
(38)	ADDRESS	4	UEPFINFO	ADDRESS OF FILE INFORMATION
(3C)	ADDRESS	4		RESERVED
(40)	ADDRESS	4		RESERVED
(44)	ADDRESS	4		RESERVED
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE

Offset Hex	Type	Len	Name (Dim)	Description
XFCRSREQC PARAMETERS				
Exit specific parameters are:				
UEPFSREQ - Address of 2 byte field containing the request type.				
UEPFILE - Address of 8 byte field containing the file name				
UEPFINFO - Address pointing to a block containing the file info.				
UEPFSRSP - Address of 1 byte field containing the response.				
UEPRECUR - Address of halfword recursion level				
VALID RETURN CODES FOR XFCRSREQC ARE:				
UERCNORM EQU X'00' NORMAL(DEFAULT)				
UERCPURG EQU X'20' PURGED				
VALID VALUES FOR UEPFSREQ ARE:				
First byte				
UEPFSOPN EQU X'01' Open Request				
UEPFSCLS EQU X'02' Close Request				
UEPFSENB EQU X'03' Enable Request				
UEPFSDIS EQU X'04' Disable Request				
UEPFSKAN EQU X'05' Cancel Close File Request				
Second byte - meaning depends on type of request				
Values for open				
UEPFSNOP EQU X'00' Normal Open				
UEPFSOFB EQU X'02' Open for backout				
Values for close				
UEPFSNC EQU X'00' Normal Close				
UEPFSOPN EQU X'01' Close Pending				
UEPFSCLM EQU X'02' End of Load Mode Close				
UEPFSIMM EQU X'06' Immediate Close				
UEPFSICP EQU X'07' Immediate Close Pending				
UEPFSQU EQU X'08' RLS Quiesce Close				
VALID VALUES FOR UEPFSRSP ARE:				
UEFSNORM EQU X'00' NORMAL				
UEFSWARN EQU X'04' WARNING				
UEFSFAIL EQU X'08' FAILED				
UEFSPEND EQU X'10' PENDING				
(30)	ADDRESS	4		UEPFSREQ - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPFILE - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPFINFO - AS DEFINED ABOVE
(3C)	ADDRESS	4	UEPFSRSP	ADDRESS OF RESPONSE TO REQUEST
VALID VALUES FOR UEPFSRSP ARE:				
	.... ....		UEFSNORM	"X'00" NORMAL
	.... .1..		UEFSWARN	"X'04" WARNING
	.... 1...		UEFSFAIL	"X'08" FAILED
	...1 ....		UEFSPEND	"X'10" PENDING
(40)	ADDRESS	4		RESERVED
(44)	ADDRESS	4		RESERVED
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
XRCINIT PARAMETERS				
VALID RETURN CODES FOR XRCINIT ARE:				
UERCNORM EQU X'00' NORMAL(DEFAULT)				
FIRST PARAMETER DEPENDS ON VALUE IN TYPE OF REQUEST				
(30)	ADDRESS	4	UEPRSTR	ADDRESS OF RESTART TYPE BYTE
(34)	ADDRESS	4	UEPTREQ	ADDRESS OF TYPE OF REQUEST
EQUATES FOR TYPE OF REQUEST, ADDRESSED BY UEPTREQ				
	.... ....		UEUSINIT	"X'00" INITIALIZATION OF USER RECOVERY
	1... ....		UEUSTERM	"X'80" TERMINATION OF USER RECOVERY
EQUATES FOR TYPE OF RESTART, ADDRESSED BY UEPRSTR				
	.... ....		UEPRWARM	"X'00" WARM START
	.... ...1		UEPREMER	"X'01" EMERGENCY RESTART
XRCINPT PARAMETERS				
VALID RETURN CODES FOR XRCINPT ARE:				
UERCNORM EQU X'00' NORMAL(DEFAULT)				
UERCBYP EQU X'04' BYPASS(NO ACTION)				
(30)	ADDRESS	4	UEPUOWST	ADDRESS OF UNIT OF WORK STATUS BYTE
(34)	ADDRESS	4	UEPLGREC	ADDRESS OF LOG RECORD
(38)	ADDRESS	4	UEPLGLEN	ADDRESS OF FULLWORD CONTAINING LENGTH OF LOG RECORD
(3C)	ADDRESS	4	UEPTAID	ADDRESS OF FOUR BYTE TASK ID
(40)	ADDRESS	4	UEPTRID	ADDRESS OF FOUR BYTE TRANSACTION ID
(44)	ADDRESS	4	UEPTEID	ADDRESS OF FOUR BYTE TERMINAL ID
EQUATES FOR UNIT OF WORK STATUS INDICATOR, ADDRESSED BY UEPUOWST				
NOTE: UEPTAID, UEPTRID AND UEPTEID ARE NOT VALID IF THE STATUS INDICATOR VALUE IS UEPUOWAK.				
	.... ....		UEPUOWAK	"X'00" ACTIVITY KEYPOINT RECORD
	.... ...1		UEPUOWCM	"X'01" UNIT OF WORK COMMITTED
	.... ..1.		UEPUOWBO	"X'02" UNIT OF WORK BACKED OUT
	.... ..11		UEPUOWIF	"X'03" UNIT OF WORK WAS STILL IN FLIGHT
	.... .1..		UEPUOWID	"X'04" UNIT OF WORK IS IN DOUBT



Offset Hex	Type	Len	Name (Dim)	Description
XICREQ PARAMETERS VALID RETURN CODES FOR XICREQ ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPICQID	ADDRESS OF 8 BYTE FIELD CONTAINING REQUEST ID ON REQUEST
(34)	ADDRESS	4	UEPICTID	ADDRESS OF 4 BYTE FIELD CONTAINING TERMINAL ID ON REQUEST
(38)	ADDRESS	4	UEPICI	ADDRESS OF 4 BYTE FIELD CONTAINING TRANSACTION ID ON REQUEST
(3C)	ADDRESS	4	UEPICRQ1	ADDRESS OF COPY OF FIRST REQUEST TYPE BYTE
(40)	ADDRESS	4	UEPICRQ2	ADDRESS OF COPY OF SECOND REQUEST TYPE BYTE
(44)	ADDRESS	4	UEPICRT	ADDRESS OF 4 BYTE FIELD CONTAINING EXPIRY TIME OR INTERVAL ON REQUEST
XICEXP PARAMETERS VALID RETURN CODES FOR XICEXP ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPIECE	ADDRESS OF ICE JUST EXPIRED
XICEREQ PARAMETERS VALID RETURN CODES FOR XICEREQ ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCBYP EQU X'04' BYPASS(IGNORE THIS REQUEST) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4	UEPICTOK	ADDRESS OF TOKEN TO PASS TO XICEREQC
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRES - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRES2 - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
(4C)	ADDRESS	4		UEPRSRCE - AS DEFINED ABOVE
#				<b>APAR PQ26514</b>
#				added the next two parameters
(50)	ADDRESS	4		UEPDATE - AS DEFINED ABOVE
(54)	ADDRESS	4		UEPTIME - AS DEFINED ABOVE
XICEREQC PARAMETERS VALID RETURN CODES FOR XICEREQC ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPICTOK - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRES - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRES2 - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
(4C)	ADDRESS	4		UEPRSRCE - AS DEFINED ABOVE
#				<b>APAR PQ26514</b>
#				added the next two parameters
(50)	ADDRESS	4		UEPDATE - AS DEFINED ABOVE
(54)	ADDRESS	4		UEPTIME - AS DEFINED ABOVE
XICTENF PARAMETERS VALID RETURN CODES FOR XICTENF ARE: UERCTEUN EQU X'00' TERMINAL UNKNOWN UERCNETN EQU X'04' TERMINAL KNOWN, NETNAME RETURNED UERCSYSI EQU X'08' TERMINAL KNOWN, SYSID RETURNED UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPICEVT	ADDRESS OF 2 BYTE FIELD CONTAINING REASON FOR EXIT BEING DRIVEN
(30)	CHARACTER		UEPICES	"C'S " 'C'S' = START COMMAND WITHOUT DATA
(30)	CHARACTER		UEPICESD	"C'SD" 'C'SD' = START COMMAND WITH DATA
(34)	ADDRESS	4	UEPICTR	ADDRESS OF 1 BYTE FIELD CONTAINING TRANSACTION ROUTING INDICATOR.
	111. 1...		UEPICTY	"C'Y" 'C'Y' IF START ISSUED BY TRANSACTION ROUTED TASK.
	11.1 .1.1		UEPICTN	"C'N" OTHERWISE 'N'.
(38)	ADDRESS	4	UEPICFS	ADDRESS OF 1 BYTE FIELD CONTAINING FUNCTION SHIPPING INDICATOR.
	111. 1...		UEPICFY	"C'Y" 'C'Y' IF START REQUEST WAS FUNCTION SHIPPED.
	11.1 .1.1		UEPICFN	"C'N" OTHERWISE 'N'.
(3C)	ADDRESS	4	UEPICTR	ADDRESS OF 4 BYTE FIELD CONTAINING TRANSACTION ID ON REQUEST
(40)	ADDRESS	4	UEPICRTR	ADDRESS OF 4 BYTE FIELD CONTAINING TERMINAL ID ON REQUEST
(44)	ADDRESS	4	UEPICCTR	ADDRESS OF 4 BYTE FIELD CONTAINING ID OF TERMINAL RUNNING THE TASK IF THE COMMAND WAS TRANSACTION ROUTED. ID OF THE SESSION IF THE COMMAND WAS FUNCTION SHIPPED. OTHERWISE BLANKS.
(48)	ADDRESS	4	UEPICNTI	ADDRESS OF 8 BYTE FIELD CONTAINING NETNAME OF SYSID, IF THERE IS A SYSID, OR BLANKS
(4C)	ADDRESS	4	UEPICSYI	ADDRESS OF 4 BYTE FIELD CONTAINING SYSID, IF ANY, PASSED TO EXIT OR BLANKS
(50)	ADDRESS	4	UEPICNTO	ADDRESS OF 8 BYTE FIELD CONTAINING NETNAME RETURNED BY EXIT FOR RETURN CODE UERCNETN
(54)	ADDRESS	4	UEPICSYO	ADDRESS OF 4 BYTE FIELD CONTAINING SYSID RETURNED BY THE EXIT FOR RETURN CODE UERCSYSI
(58)	ADDRESS	4	UEPICNNI	ADDRESS OF 8 BYTE FIELD CONTAINING TERMINAL NETNAME, IF ANY, PASSED TO EXIT, OR BLANKS
(5C)	ADDRESS	4	UEPICNNO	ADDRESS OF 8 BYTE FIELD CONTAINING TERMINAL NETNAME, IF ANY, RETURNED BY EXIT, OR BLANKS

Offset Hex	Type	Len	Name (Dim)	Description
XALTENF PARAMETERS VALID RETURN CODES FOR XALTENF ARE: UERCTEUN EQU X'00' TERMINAL UNKNOWN UERCNETN EQU X'04' TERMINAL KNOWN, NETNAME RETURNED UERCSYSI EQU X'08' TERMINAL KNOWN, SYSID RETURNED				
(30)	ADDRESS	4	UEPALEVT	ADDRESS OF 2 BYTE FIELD CONTAINING REASON FOR EXIT BEING DRIVEN
(30)	CHARACTER		UEPALETD	"C'QD" C'QD= TRANSIENT DATA TRIGGER LEVEL
(30)	CHARACTER		UEPALES	"C'S " C'S ' = START COMMAND WITHOUT DATA
(30)	CHARACTER		UEPALES D	"C'SD" C'SD' = START COMMAND WITH DATA
(34)	ADDRESS	4	UEPALTR	ADDRESS OF 1 BYTE FIELD CONTAINING TRANSACTION ROUTING INDICATOR (START COMMANDS ONLY)
	111. 1...		UEPALTY	"C'Y" C'Y' IF START ISSUED BY TRANSACTION ROUTED TASK.
	11.1 .1.1		UEPALTN	"C'N" OTHERWISE 'N.' 'N' FOR TD
(38)	ADDRESS	4	UEPALFS	ADDRESS OF 1 BYTE FIELD CONTAINING FUNCTION SHIPPING INDICATOR, (START COMMANDS ONLY)
	111. 1...		UEPALFY	"C'Y" C'Y' IF START REQUEST WAS FUNCTION SHIPPED.
	11.1 .1.1		UEPALFN	"C'N" OTHERWISE 'N.' 'N' FOR TD.
(3C)	ADDRESS	4	UEPALTRN	ADDRESS OF 4 BYTE FIELD CONTAINING TRANSACTION ID ON REQUEST
(40)	ADDRESS	4	UEPALRTR	ADDRESS OF 4 BYTE FIELD CONTAINING TERMINAL ID ON REQUEST
(44)	ADDRESS	4	UEPALCTR	ADDRESS OF 4 BYTE FIELD CONTAINING ID OF TERMINAL RUNNING THE TASK IF THE COMMAND WAS TRANSACTION ROUTED. ID OF THE SESSION IF THE COMMAND WAS FUNCTION SHIPPED. OTHERWISE BLANKS.
(48)	ADDRESS	4	UEPALNTI	ADDRESS OF 8 BYTE FIELD CONTAINING NETNAME OF SYSID, IF THERE IS A SYSID, OR BLANKS
(4C)	ADDRESS	4	UEPALS YI	ADDRESS OF 4 BYTE FIELD CONTAINING SYSID, IF ANY, PASSED TO EXIT OR BLANKS
(50)	ADDRESS	4	UEPALNTO	ADDRESS OF 8 BYTE FIELD CONTAINING NETNAME RETURNED BY EXIT FOR RETURN CODE UERCNETN
(54)	ADDRESS	4	UEPALS YO	ADDRESS OF 4 BYTE FIELD CONTAINING SYSID RETURNED BY THE EXIT FOR RETURN CODE UERCSYSI
(58)	ADDRESS	4	UEPALNNI	ADDRESS OF 8 BYTE FIELD CONTAINING TERMINAL NETNAME, IF ANY, PASSED TO EXIT, OR BLANKS
(5C)	ADDRESS	4	UEPALNNO	ADDRESS OF 8 BYTE FIELD CONTAINING TERMINAL NETNAME, IF ANY, RETURNED BY EXIT, OR BLANKS
XALCAID PARAMETERS VALID RETURN CODES FOR XALCAID ARE: UERCNORM EQU X'00' NORMAL(DEFAULT)				
(30)	ADDRESS	4	UEPAL TSD	A four-byte field containing the symbolic identifier of the transaction which was to be started by this request.
(34)	ADDRESS	4	UEPAL TRM	A four-byte field containing the identifier of the terminal or connection to which this request was directed.
(38)	ADDRESS	4	UEPAL DAT	Either the address of an area of storage containing the data specified in the FROM option of the START command which led to the creation of this request; or zero if the FROM option was not specified.
(3C)	ADDRESS	4	UEPAL LEN	A fullword binary value containing the length of the FROM data; or zero if the FROM option was not specified.
(40)	ADDRESS	4	UEPAL RQD	An eight-byte field containing the value of the REQID associated with the FROM data. The data was stored in a temporary storage queue with this name. This value was either specified explicitly using the REQID option on the START command, or created internally by CICS.
(44)	ADDRESS	4	UEPAL QUE	An eight-byte field containing the value specified in the QUEUE option on the START command, or hex zeros if QUEUE was not specified.
(48)	ADDRESS	4	UEPAL RTE	A four-byte field containing the value specified in the RTERMID option on the START command, or hex zeros if RTERMID was not specified.
(4C)	ADDRESS	4	UEPAL RTA	A four-byte field containing the value specified in the RTRANSID option on the START command, or hex zeros if RTRANSID was not specified.
(50)	ADDRESS	4	UEPAL FMH	A one-byte field containing the value X'FF' if the data contains FMHs, as specified by the FM option on the associated START command, and X'00' otherwise.
(54)	ADDRESS	4	UEPAL STC	A two-byte field containing the start code. This will be C'SZ' for FEPI starts; otherwise C'SD'.
XAKUSER PARAMETERS VALID RETURN CODES FOR XAKUSER ARE: UERCNORM EQU X'00' NORMAL(DEFAULT)				
(30)	ADDRESS	4	UEPAKTYP	ADDRESS OF KEYPOINT TYPE BYTE
EQUATES FOR TYPE OF KEYPOINT, ADDRESSED BY UEPAKTYP				
	.... ....		UEPAKPER	"X'00" NORMAL PERIODIC KEYPOINT
	.... ...1		UEPAKWSD	"X'01" WARM SHUTDOWN KEYPOINT
XTCATT PARAMETERS VALID RETURN CODES FOR XTCATT ARE: UERCNORM EQU X'00' NORMAL				
(30)	ADDRESS	4	UEPTCTTE	ADDRESS OF TCTTE
(34)	ADDRESS	4	UEPTIOA	ADDRESS OF TIOA
(38)	ADDRESS	4	UEPTCTLE	ADDRESS OF TCT LINE ENTRY
(3C)	ADDRESS	4		reserved
(40)	ADDRESS	4	UEPTRAN	ADDRESS OF TRANSID
XTCTIN PARAMETERS VALID RETURN CODES FOR XTCTIN ARE: UERCNORM EQU X'00' NORMAL(FORMAT TCAM HEADER) UERC BYP EQU X'04' BYPASS FORMATTING OF TCAM HEADER				
(30)	ADDRESS	4		UEPTCTTE - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTIOA - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPTCTLE - AS DEFINED ABOVE

Offset Hex	Type	Len	Name (Dim)	Description
XTCTOUT PARAMETERS VALID RETURN CODES FOR XTCTOUT ARE: UERCNORM EQU X'00' NORMAL(FORMAT TCAM HEADER) UERCBYE EQU X'04' BYPASS FORMATTING OF TCAM HEADER				
(30)	ADDRESS	4		UEPTCTTE - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTIOA - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPTCTLE - AS DEFINED ABOVE
XTCIN PARAMETERS VALID RETURN CODES FOR XTCIN ARE: UERCNORM EQU X'00' NORMAL				
(30)	ADDRESS	4		UEPTCTTE - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTIOA - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPTCTLE - AS DEFINED ABOVE
XTCOUT PARAMETERS VALID RETURN CODES FOR XTCOUT ARE: UERCNORM EQU X'00' NORMAL				
(30)	ADDRESS	4		UEPTCTTE - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTIOA - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPTCTLE - AS DEFINED ABOVE
XZCIN PARAMETERS VALID RETURN CODES FOR XZCIN ARE: UERCNORM EQU X'00' NORMAL				
(30)	ADDRESS	4		UEPTCTTE - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTIOA - AS DEFINED ABOVE
XZCOUT PARAMETERS VALID RETURN CODES FOR XZCOUT ARE: UERCNORM EQU X'00' NORMAL				
(30)	ADDRESS	4		UEPTCTTE - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTIOA - AS DEFINED ABOVE
XZCOUT1 PARAMETERS VALID RETURN CODES FOR XZCOUT1 ARE: UERCNORM EQU X'00' NORMAL				
(30)	ADDRESS	4		UEPTCTTE - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTIOA - AS DEFINED ABOVE
XZCATT PARAMETERS VALID RETURN CODES FOR XZCATT ARE: UERCNORM EQU X'00' NORMAL				
(30)	ADDRESS	4		UEPTCTTE - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTIOA - AS DEFINED ABOVE
(38)	ADDRESS	4	UEPTPN	ADDRESS OF TPN
(3C)	ADDRESS	4	UEPTPNL	ADDRESS OF TPN LENGTH
(40)	ADDRESS	4		UEPTRAN - AS DEFINED ABOVE
XGMTEXT PARAMETERS VALID RETURN CODES FOR XGMTEXT ARE: UERCNORM EQU X'00' NORMAL UERCPCUR EQU X'20' PURGED				
(30)	ADDRESS	4		UEPTCTTE - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTIOA - AS DEFINED ABOVE
XPCREQ PARAMETERS VALID RETURN CODES FOR XPCREQ ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCBYE EQU X'04' BYPASS(IGNORE THIS REQUEST) UERCPCUR EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4	UEPPCTOK	ADDRESS OF TOKEN TO PASS TO XPCREQC
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRES - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRES2 - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
(4C)	ADDRESS	4		UEPRSRCE - AS DEFINED ABOVE
XPCREQC PARAMETERS VALID RETURN CODES FOR XPCREQC ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCPCUR EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPPCTOK - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRES - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRES2 - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
(4C)	ADDRESS	4		UEPRSRCE - AS DEFINED ABOVE

Offset Hex	Type	Len	Name (Dim)	Description
XPCABND PARAMETERS VALID RETURN CODES FOR XPCABND ARE: UERCNORM EQU X'00' NORMAL(TAKE DUMP) UERCBYP EQU X'04' BYPASS(SUPPRESS DUMP) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPPCDS	ADDR OF PROGRAM CONTROL EXITS DSECT
(34)	ADDRESS	4	UEPTACB	ADDRESS OF TACB
XPCFTCH PARAMETERS VALID RETURN CODES FOR XPCFTCH ARE: UERCNORM EQU X'00' NORMAL UERCM EA EQU X'04' ENTRY POINT HAS BEEN MODIFIED UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPPCDS	UEPPCDS - AS DEFINED ABOVE
XTSQRIN PARAMETERS VALID RETURN CODES FOR XTSQRIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
MODIFICATIONS TO THE ARGUMENTS UEPTRANID THRU UEPPROG ARE NOT ALLOWED				
(30)	ADDRESS	4	UEPTRANID	ADDRESS OF TRANSACTION ID
(34)	ADDRESS	4	UEPUSER	ADDRESS OF USERID
(38)	ADDRESS	4	UEPTERM	ADDRESS OF TERMINAL ID
(3C)	ADDRESS	4	UEPPROG	ADDRESS OF APPLICATION PROGRAM NAME
(40)	HALFWORD	2	UEPPARM D (0)	END OF COMMON DOMAIN PARAMETERS
(40)	ADDRESS	4	UEP_TS_FUNCTION	address of a 1-byte function
....	...1		UEP_TS_FUN_WRITE	"X'01" write function
....	..1.		UEP_TS_FUN_REWRITE	"X'02" rewrite function
....	...11		UEP_TS_FUN_READ_INT O	"X'03" read_into function
....	..1..		UEP_TS_FUN_READ_SET	"X'04" read_set function
....	..1.1		UEP_TS_FUN_READ_NEXT_INT O	"X'05" read_next_into function
....	..11.		UEP_TS_FUN_READ_NEXT_SET	"X'06" read_next_into function
....	..111		UEP_TS_FUN_DELETE	"X'07" delete function
(44)	ADDRESS	4	UEP_TS_QUEUE_NAME	address of 8-character queue name
(48)	ADDRESS	4	UEP_TS_DATA_P	address of fullword data address
(4C)	ADDRESS	4	UEP_TS_DATA_L	address of fullword data length
(50)	ADDRESS	4	UEP_TS_ITEM_NUMBER	address of fullword item number
(54)	ADDRESS	4	UEP_TS_STORAGE_TYPE	address of 1-byte storage type
....	...1		UEP_TS_STORAGE_TYPE_MAIN	"X'01"main
....	..1.		UEP_TS_STORAGE_TYPE_AUX_TST	"X'02"aux (recoverability from TST)
....	...11		UEP_TS_STORAGE_TYPE_AUX_RECOV_YES	"X'03"aux recoverable
....	..1..		UEP_TS_STORAGE_TYPE_AUX_RECOV_NO	"X'04"aux non-recoverable
(58)	ADDRESS	4		
(5C)	ADDRESS	4		
XTSQR OUT PARAMETERS VALID RETURN CODES FOR XTSQR OUT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(40)	ADDRESS	4		
(44)	ADDRESS	4		
(48)	ADDRESS	4		
(4C)	ADDRESS	4		
(50)	ADDRESS	4		
(54)	ADDRESS	4		
(58)	ADDRESS	4	UEP_TS_TOTAL_ITEMS	address of fullword total items
(5C)	ADDRESS	4	UEP_TS_RESPONSE	address of 1-byte response
....	...1		UEP_TS_RESPONSE_OK	"X'01"ok response
....	..1.		UEP_TS_RESPONSE_EXCEPTION	"X'02"exception response
....	...11		UEP_TS_RESPONSE_DISASTER	"X'03"disaster response
....	..1..		UEP_TS_RESPONSE_INVALID	"X'04"invalid response
....	..11.		UEP_TS_RESPONSE_PURGED	

Offset Hex	Type	Len	Name (Dim)	Description
"X'06" purged response				
XTSP TIN PARAMETERS VALID RETURN CODES FOR XTSP TIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(40)	ADDRESS	4		
	.... ..1		UEP_TS_FUN_PUT	"X'01" write function
	.... ..1.		UEP_TS_	
			FUN_PUT_REPLACE	
	.... ..11		UEP_TS_FUN_GET	"X'02" rewrite function
	.... ..1..		UEP_TS_FUN_GET_SET	"X'03" read_into function
	.... ..1.1		UEP_TS_	"X'04" read_set function
			FUN_GET_RELEASE	
	.... ..11.		UEP_TS_FUN_GET_	"X'05" read_next_into function
			RELEASE_SET	
	.... ..111		UEP_TS_FUN_RELEASE	"X'06" read_next_into function
(44)	ADDRESS	4		"X'07" delete function
(48)	ADDRESS	4		
(4C)	ADDRESS	4		
(50)	ADDRESS	4		
(54)	ADDRESS	4		
(58)	ADDRESS	4		
(5C)	ADDRESS	4		
XTSP TOUT PARAMETERS VALID RETURN CODES FOR XTSP TOUT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(40)	ADDRESS	4		
(44)	ADDRESS	4		
(48)	ADDRESS	4		
(4C)	ADDRESS	4		
(50)	ADDRESS	4		
(54)	ADDRESS	4		
(58)	ADDRESS	4		
(5C)	ADDRESS	4		
XTSP REQ PARAMETERS VALID RETURN CODES FOR XTSP REQ ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCBYP EQU X'04' BYPASS(IGNORE THIS REQUEST) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4	UEPTQ TOK	ADDRESS OF TOKEN TO PASS TO XTSP REQ
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRES P - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRES P2 - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
(4C)	ADDRESS	4		UEPRSRCE - AS DEFINED ABOVE
XTSP REQ C PARAMETERS VALID RETURN CODES FOR XTSP REQ C ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTQ TOK - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRES P - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRES P2 - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
(4C)	ADDRESS	4		UEPRSRCE - AS DEFINED ABOVE
XTDR EQ PARAMETERS VALID RETURN CODES FOR XTDR EQ ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCTDOK EQU X'04' Quit TD processing - return "normal" to caller UERCTDNA EQU X'08' Quit TD processing - return "notauth" to caller UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPTDQUE	Address of TD queue name
(34)	ADDRESS	4	UEPTDTYP	Address of TD request type
equates for TD request byte				
	.... ..1		UEPTDP UT	"1" PUT request
	.... ..1.		UEPTDGET	"2" GET request
	.... ..11		UEPTDP UR	"3" PURGE request

Offset Hex	Type	Len	Name (Dim)	Description
XTDIN PARAMETERS VALID RETURN CODES FOR XTDIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPTDQUE - as defined above XTDOUT / XTDIN parameters
(34)	ADDRESS	4	UEPTDAUD	Address of unmodified data
(38)	ADDRESS	4	UEPTDLUD	Address of length of unmodified data
(3C)	ADDRESS	4	UEPTDAMD	Address of modified data
(40)	ADDRESS	4	UEPTDLMD	Address of length of modified data XTDOUT specific parameters
(44)	ADDRESS	4	UEPTDNUM	Address of #(records)
(48)	ADDRESS	4	UEPTDCUR	Address of #(current record)
XTDOUT PARAMETERS VALID RETURN CODES FOR XTDOUT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCTDOK EQU X'04' Quit TD processing - return "normal" to caller UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPTDQUE - as defined above
(34)	ADDRESS	4		UEPTDAUD - as defined above
(38)	ADDRESS	4		UEPTDLUD - as defined above
(3C)	ADDRESS	4		UEPTDAMD - as defined above
(40)	ADDRESS	4		UEPTDLMD - as defined above
(44)	ADDRESS	4		UEPTDNUM - as defined above
(48)	ADDRESS	4		UEPTDCUR - as defined above
XTDEREQ PARAMETERS VALID RETURN CODES FOR XTDEREQ ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCBYP EQU X'04' BYPASS(IGNORE THIS REQUEST) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4	UEPTDTOK	ADDRESS OF TOKEN TO PASS TO XTDEREQC
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRESP - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRESP2 - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
(4C)	ADDRESS	4		UEPRSRCE - AS DEFINED ABOVE
XTDEREQC PARAMETERS VALID RETURN CODES FOR XTDEREQC ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTDTOK - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRESP - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRESP2 - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
(4C)	ADDRESS	4		UEPRSRCE - AS DEFINED ABOVE
XLDLOAD PARAMETERS VALID RETURN CODES FOR XLDLOAD ARE: UERCNORM EQU X'00' NORMAL(DEFAULT)				
(40)	ADDRESS	4	UEPPROGN	ADDRESS OF NAME OF LOADED PROGRAM
(44)	ADDRESS	4	UEPPROGL	ADDRESS OF UEPPROGN LENGTH
(48)	ADDRESS	4		RESERVED FOR UEPRECUR
(4C)	ADDRESS	4	UEPLDPT	ADDRESS OF PROGRAM LOAD POINT
(50)	ADDRESS	4	UEPENTRY	ADDRESS OF PROGRAM ENTRY POINT
(54)	ADDRESS	4		RESERVED
(58)	ADDRESS	4		RESERVED - XLD7
(5C)	ADDRESS	4		RESERVED - XLD8
XLDELETE PARAMETERS VALID RETURN CODES FOR XLDELETE ARE: UERCNORM EQU X'00' NORMAL(DEFAULT)				
XNQREQ PARAMETERS VALID RETURN CODES FOR XNQREQ ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCBYP EQU X'04' BYPASS(IGNORE THIS REQUEST) UERCSCPE EQU X'08' SCOPE provided UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4	UEPNQTOK	ADDRESS OF TOKEN TO PASS TO XNQREQC
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRESP - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRESP2 - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
(4C)	ADDRESS	4	UEPSCOPE	ADDRESS OF SCOPE NAME

Offset Hex	Type	Len	Name (Dim)	Description
XNQEREQC PARAMETERS VALID RETURN CODES FOR XNQEREQC ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPNQTOK - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPRCODE - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPRES - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPRES2 - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTSTOK - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
XXRSTAT PARAMETERS VALID RETURN CODES FOR XXRSTAT ARE: UERCNORM EQU X'00' NORMAL(TAKE SYSTEM ACTION) UERCCOIG EQU X'04' IGNORE UERCABNO EQU X'08' ABEND CICS WITHOUT DUMP UERCABDU EQU X'0C' ABEND CICS WITH DUMP UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPERRA	ADDRESS OF ERROR DATA
XXDFA PARAMETERS VALID RETURN CODES FOR XXDFA ARE: UERCNOAC EQU X'00' NO ACTION UERCSWCH EQU X'04' SWITCH TO ALTERNATE UERCABNO EQU X'08' ABEND CICS WITHOUT DUMP UERCABDU EQU X'0C' ABEND CICS WITH DUMP				
(30)	ADDRESS	4	UEPDBXR	ADDRESS OF DBCTL XRF INFO
XXDFB PARAMETERS VALID RETURN CODES FOR XXDFB ARE: UERCNOAC EQU X'00' NO ACTION UERCSWCH EQU X'04' SWITCH TO ALTERNATE UERCABNO EQU X'08' ABEND CICS WITHOUT DUMP UERCABDU EQU X'0C' ABEND CICS WITH DUMP				
(30)	ADDRESS	4		UEPDBXR - AS DEFINED ABOVE
XXDTP PARAMETERS VALID RETURN CODES FOR XXDTP ARE: UERCNOAC EQU X'00' NO ACTION UERCSWCH EQU X'04' SWITCH TO ALTERNATE UERCABNO EQU X'08' ABEND CICS WITHOUT DUMP UERCABDU EQU X'0C' ABEND CICS WITH DUMP				
(30)	ADDRESS	4		UEPDBXR - AS DEFINED ABOVE
XDTRD PARAMETERS VALID RETURN CODES FOR XDTRD ARE: UERCDTAC EQU X'00' Accept record UERCDTRJ EQU X'04' Reject record UERCDTOP EQU X'08' Optimise data table add (SDT only) UERCDTEX EQU X'0C' Extension for data tables (SDT only)				
(30)	ADDRESS	4	UEPDTP	ADDRESS OF DATA TABLE parameter list
XDTPD PARAMETERS VALID RETURN CODES FOR XDTPD ARE: UERCDTAC EQU X'00' Accept record UERCDTRJ EQU X'04' Reject record UERCDTOP EQU X'08' Optimise data table add (SDT only) UERCDTEX EQU X'0C' Extension for data tables (SDT only)				
(30)	ADDRESS	4		UEPDTP - AS DEFINED ABOVE
XDTLT PARAMETERS VALID RETURN CODES FOR XDTLT ARE: UERCDTOK EQU X'00' OPEN OK UERCDTCL EQU X'04' CLOSE THE DATA TABLE/FILE UERCDTSH EQU X'08' Shared data table load (SDT only) UERCDTEX EQU X'0C' Extension for data tables (SDT only)				
(30)	ADDRESS	4		UEPDTP - AS DEFINED ABOVE
XZIQUE PARAMETERS VALID RETURN CODES FOR XZIQUE ARE: UERCAQUE EQU X'00' Queue allocate request UERCAPUR EQU X'04' Purge allocate request-sysiderr UERCAKLL EQU X'08' Kill queued tasks & issue MSG UERCAKLM EQU X'0C' Kill queued tasks for modegrp & issue MSG UERCPURG EQU X'20' Task purged during XPI call				
(30)	ADDRESS	4	UEPZDATA	ADDRESS OF XZIQUE PARAMETERS
XISCONA PARAMETERS VALID RETURN CODES FOR XISCONA ARE: UERCAQUE EQU X'00' Queue allocate request UERCAPUR EQU X'04' Purge allocate request-sysiderr				
(30)	ADDRESS	4	UEPISPCA	ADDRESS OF XISCONA PARAMETERS

Offset Hex	Type	Len	Name (Dim)	Description
XISLCLQ PARAMETERS VALID RETURN CODES FOR XISLCLQ ARE: UERCYSYS EQU X'00' TAKE SYSTEM ACTION UERCQUE EQU X'04' QUEUE THE REQUEST UERCIGN EQU X'08' IGNORE, RETURN SYSTEM ACTION UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPISPP	ADDRESS OF XISLCLQ PARAMETERS
XMNOUT PARAMETERS VALID RETURN CODES FOR XMNOUT ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' SUPPRESS MONITOR RECORD OUTPUT UERCPURG EQU X'20' PURGED				
(40)	ADDRESS	4	UEPDICT	ADDRESS OF DICTIONARY
(44)	ADDRESS	4	UEPDICTE	ADDRESS OF DICTIONARY ENTRIES
(48)	ADDRESS	4	UEPFCL	ADDRESS OF FIELD CONNECTOR LIST
(4C)	ADDRESS	4	UEPFCLNO	ADDRESS OF NUMBER OF FIELD CONNECTORS
(50)	ADDRESS	4	UEPMRTYP	ADDRESS OF MONITORING RECORD TYPE
(54)	ADDRESS	4	UEPMRLN	ADDRESS OF MONITORING RECORD LENGTH
(58)	ADDRESS	4	UEPMREC	ADDRESS OF MONITORING RECORD
(5C)	ADDRESS	4	UEPSRCTK	ADDRESS OF WLM SERVICE REPORTING TOKEN
(60)	ADDRESS	4	UEPMPREC	ADDRESS OF MN PERFORMANCE RECORD
XSTOUT PARAMETERS VALID RETURN CODES FOR XSTOUT ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' SUPPRESS STATISTICS RECORD OUTPUT				
(40)	ADDRESS	4	UEPSTATS	ADDRESS OF STATISTICS RECORD
(44)	ADDRESS	4	UEPSRLEN	ADDRESS OF LENGTH OF STATS RECORD
(48)	ADDRESS	4	UEPSTYPE	ADDRESS OF STATISTICS TYPE
EQUATES FOR STATISTICS TYPE				
(48)	CHARACTER		UEPSINT	"C'INT" INTERVAL STATISTICS
(48)	CHARACTER		UEPSREQ	"C'REQ" REQUESTED STATISTICS
(48)	CHARACTER		UEPSEOD	"C'EOD" END OF DAY STATISTICS
(48)	CHARACTER		UEPSUSS	"C'USS" UNSOLICITED STATISTICS
(48)	CHARACTER		UEPSRRT	"C'RRT" REQUESTED RESET STATISTICS
(4C)	ADDRESS	4	UEPSDATE	ADDRESS OF COLLECTION DATE (MMDDYY)
(50)	ADDRESS	4	UEPSTIME	ADDRESS OF COLLECTION TIME (HHMMSS)
THE FOLLOWING TWO PARAMETERS ARE FOR INTERVAL STATISTICS ONLY				
(54)	ADDRESS	4	UEPSIVAL	ADDRESS OF INTERVAL TIME (HHMMSS)
(58)	ADDRESS	4	UEPSIVN	ADDRESS OF INTERVAL NUMBER
(5C)	ADDRESS	4	UEPSCLD	ADDRESS OF COLLECTION DATE (MMDDYYYY)
XDUREQ PARAMETERS VALID RETURN CODES FOR XDUREQ ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' SUPPRESS DUMP UERCPURG EQU X'20' PURGED check parm list hasn't already been generated by XDUREQ				
(40)	ADDRESS	4	UEPDUMPC	ADDRESS OF COPY OF DUMP CODE
(44)	ADDRESS	4	UEPDUMPT	ADDRESS OF DUMP TYPE IDENTIFIER
EQUATES FOR DUMP TYPE IDENTIFIER				
	111. ..11		UEPDTRAN	"C'T" TRANSACTION DUMP REQUEST
	111. ..1.		UEPDSYST	"C'S" SYSTEM DUMP REQUEST
(48)	ADDRESS	4	UEPABCDE	ADDRESS OF COPY OF ABEND CODE
(4C)	ADDRESS	4	UEPXDSCP	Address of dumpscope
	.... ...1		UEPXDLOC	"X'1" DUDT_LOCAL
	.... ..1.		UEPXDREL	"X'2" DUDT_RELATED
(50)	ADDRESS	4	UEPXDTXN	Address of DUDT_TRANSACTION_DUMP
	.... ...1		UEPXDYES	"X'1" DUDT_YES
	.... ..1.		UEPXDNO	"X'2" DUDT_NO
(54)	ADDRESS	4	UEPXDSYS	Address of DUDT_SYSTEM_DUMP
(58)	ADDRESS	4	UEPXDTRM	Address of DUDT_TERMINATE_CICS
(5C)	ADDRESS	4	UEPXDMAX	Address of DUDT_MAXIMUM_DUMPS
(60)	ADDRESS	4	UEPXCNT	Address of DUDT_COUNT
(64)	ADDRESS	4	UEPXDST	Address of DUDT_TRAN_DUMPS_TAKEN
UEPXDST addresses 4 consecutive fullwords which contain as binary integers the dump table statistics: TRAN_DUMPS_TAKEN, TRAN_DUMPS_SUPPRESSED, SYS_DUMPS_TAKEN SYS_DUMPS_SUPPRESSED. Comments in DFHDUDTR indicate that the corresponding DUDT fields must remain contiguous.				
(68)	ADDRESS	4	UEPXDDAE	Address of DUDT_DAEOPTION
(6C)	ADDRESS	4	UEPDMPID	Address of the dump ID string
(70)	ADDRESS	4	UEPDURQE (0)	End of parms shared with XDUREQC
(70)	ADDRESS	4	UEPFMOD	Address of name of failing module



Offset Hex	Type	Len	Name (Dim)	Description
XDUCLE PARAMETERS VALID RETURN CODES FOR XDUCLE ARE: UERCNORM EQU X'00' NORMAL UERC5WCH EQU X'04' DON'T SWITCH AUTOSWITCH OFF. UERCPURG EQU X'20' PURGED				
(40)	ADDRESS	4	UEPDMPDD	ADDRESS OF DUMP DATASET DDNAME
(44)	ADDRESS	4	UEPDMPDSN	ADDRESS OF DUMP DATASET DSNAME
XDUOUT PARAMETERS VALID RETURN CODES FOR XDUOUT ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' SUPPRESS DUMP BUFFER OUTPUT (APPLICABLE ONLY FOR UEDMPWR) UERCPURG EQU X'20' PURGED				
(40)	ADDRESS	4	UEPDMPFC	ADDRESS OF XDUOUT FUNCTION CODE
EQUATES FOR XDUOUT FUNCTION CODE				
....	....		UEPDMPWR	"X'00" BUFFER ABOUT TO BE WRITTEN
....	.1.		UEPDMPRE	"X'04" DUMP ABOUT TO RESTART AFTER AUTO-SWITCH
....	1...		UEPDMPAB	"X'08" ABNORMAL TERMINATION OF DUMP
....	11..		UEPDMPDY	"X'0C" BUFFER ABOUT TO BE WRITTEN TO DUMMY FILE
UEPDMPBF AND UEPDMPLEN ARE ZERO WHEN UEPDMPFC IS UEPDMPRE OR UEPDMPAB				
(44)	ADDRESS	4	UEPDMPBF	ADDRESS OF DUMP BUFFER
(48)	ADDRESS	4	UEPDMPLEN	ADDRESS OF DUMP BUFFER LENGTH
XDUREQC PARAMETERS ONLY VALID RETURN CODE FOR XDUREQ IS: UERCNORM EQU X'00' NORMAL check parm list hasn't already been generated by XDUREQ				
(70)	ADDRESS	4	UEPDRESP	Address of DUDU_RESPONSE
Equates for dump response code				
....	...1		UEPDRPOK	"X'01" DUDU_OK
....	.1.		UEPDRPEX	"X'02" DUDU_EXCEPTION
....	.11.		UEPDRPPR	"X'06" DUDU_PURGED
(74)	ADDRESS	4	UEPDREAS	Address of DUDU_REASON
Equates for dump reason code				
....	...1		UEPDRSOE	"X'01" DUDU_OPEN_ERROR
....	.1.		UEPDRSNO	"X'02" DUDU_NOT_OPEN
....	.11		UEPDRSID	"X'03" DUDU_INVALID_DUMP CODE
....	.1.		UEPDRSPT	"X'04" DUDU_PARTIAL_TRANSACTION_DUMP
....	.1.1		UEPDRSS1	"X'05" DUDU_SUPPRESSED_BY_DUMP OPTION
....	.11.		UEPDRSS2	"X'06" DUDU_SUPPRESSED_BY_DUMP TABLE
....	.111		UEPDRSS3	"X'07" DUDU_SUPPRESSED_BY_USEREXIT
....	1...		UEPDRSPS	"X'08" DUDU_PARTIAL_SYSTEM_DUMP
....	1.1.		UEPDRSSB	"X'0A" DUDU_SDUMP_BUSY
....	1.11		UEPDRSSA	"X'0B" DUDU_SDUMP_NOT_AUTHORIZED
....	11.1		UEPDRSND	"X'0D" DUDU_NO_DATASET
XDSBWT PARAMETERS VALID RETURN CODES FOR XDSBWT ARE: UERCNORM EQU X'00' NORMAL UERC5WAP EQU X'04' ISSUE SYSEVENT TO ALLOW ADDRESS-SPACE SWAPPING XDSBWT HAS NO UNIQUE PARAMETERS XDSAWT PARAMETERS VALID RETURN CODES FOR XDSAWT ARE: UERCNORM EQU X'00' NORMAL UERCNOSW EQU X'08' ISSUE SYSEVENT TO SUPPRESS ADDRESS-SPACE SWAPPING				
(30)	ADDRESS	4		RESERVED
(34)	ADDRESS	4		RESERVED
(38)	ADDRESS	4		RESERVED
(3C)	ADDRESS	4		RESERVED
(40)	ADDRESS	4	UEPSYSRC	ADDRESS OF SYSEVENT RETURN CODE
XRSINDI PARAMETERS VALID RETURN CODES FOR XRSINDI ARE: UERCNORM EQU X'00' NORMAL (default). UERCPURG EQU X'20' PURGED				
(40)	ADDRESS	4	UEPIDREQ	Address of INSTALL/DISCARD ident(byte) Possible values of the identifier:
....	...1		UEIDINS	"1" for INSTALL requests
....	.1.		UEIDDIS	"2" for DISCARD requests
(44)	ADDRESS	4	UEPIDNAM	Address of resource name
(48)	ADDRESS	4	UEPIDLEN	Address of resource name length (word)
(4C)	ADDRESS	4	UEPIDNUM	Address of resource name number (word)
(50)	ADDRESS	4	UEPIDTYP	Address of resource type (byte) Possible values of the type:
....	...1		UEIDTRAN	"1" Transaction
....	.1.		UEIDPROF	"2" Profile
....	.11		UEIDPROG	"3" Program
....	.1.		UEIDMAP	"4" Mapset
....	.1.1		UEIDPSET	"5" Partitionset
....	.11.		UEIDTERM	"6" Terminal

Offset Hex	Type	Len	Name (Dim)	Description
	.... .111		UEIDCONN	"7" Connection
	.... 1... .111		UEIDMODE	"8" Modename
	.... 1..1 .111		UEIDSESS	"9" Session
	.... 1.1. .111		UEIDFILE	"10" File
	.... 1.11 .111		UEIDPART	"11" Partner
	.... 11.. .111		UEIDTCLS	"12" TCLASS
	.... 11.1 .111		UEIDAITM	"13" Autoinstall terminal model
	.... 111. .111		UEIDFECO	"14" FEPI Connection
	.... 1111 .111		UEIDFENO	"15" FEPI Node
	.... 1... .111		UEIDFEPO	"16" FEPI Pool
	.... 1..1 .111		UEIDFEPS	"17" FEPI Propertyset
	.... 1.1. .111		UEIDFETA	"18" FEPI Target
	.... 1.11 .111		UEIDTDQU	"19" TD queue
	.... 1.1. .111		UEIDJNMD	"20" Journalmodel
	.... 1.1. .111		UEIDJNNM	"21" Journalname
	.... 1.1. .111		UEIDSTRM	"22" Log Stream name
	.... 1.11 .111		UEIDDB2C	"23" DB2 Connection (DB2CONN)
	.... 1... .111		UEIDDB2E	"24" DB2 Entry (DB2ENTRY)
	.... 1..1 .111		UEIDDB2T	"25" DB2 Transaction (DB2TRAN)
	.... 1.11 .111		UEIDTSMD	"27" Tsmodel
	.... 11.. .111		UEIDPRTY	"28" Processtype
	.... 1.1. .111		UEIDNQRN	"26" NQR name
	.... 11.1 .111		UEIDRQMD	"29" Request model (IIOP)
	.... 111. .111		UEIDTCPS	"30" Tcpiptype
	.... 1111 .111		UEIDDOCT	"31" Doctemplate
(54)	ADDRESS	4	UEPIDREC	Recoverability This indicates that:
	.... .1. .111		UEIDKEEP	"1" the resource will be recovered
	.... .1. .111		UEIDLOSE	"2" the resource will not be recovered

XXMATT PARAMETERS

VALID RETURN CODES FOR XXMATT ARE:

UERCNORM EQU X'00' NORMAL (default).

(40)	ADDRESS	4	UEPATPTI	Address of primary transaction id.
(44)	ADDRESS	4	UEPATOTI	Address of attach transaction id. (A tran. id. of X'00000000' indicates that no tran. id. was supplied on the attach.)
(48)	ADDRESS	4	UEPATTPL	Address of attach tpname length (word) (A length of 0 indicates that a tpname was not supplied on the attach.)
(4C)	ADDRESS	4	UEPATTPA	Addr of addr of attach tpname (word)
(50)	ADDRESS	4	UEPATLOC	Address of locate result (byte) Possible values of the locate result:
	.... .1. .111		UEATFND	"1" Transaction was found
	.... .1. .111		UEATNFND	"2" Transaction was not found
(54)	ADDRESS	4	UEPATST	Address of trandef state (byte) Possible values of the trandef state:
	.... .1. .111		UEATENAB	"1" Transaction is enabled
	.... .1. .111		UEATDISA	"2" Transaction is disabled
(58)	ADDRESS	4	UEPATTTK	Address of transaction token

XFAINTU PARAMETERS

VALID RETURN CODES FOR XFAINTU ARE:

UERCNORM EQU X'00' NORMAL (default).

(30)	ADDRESS	4	UEPFAREQ	Address of request byte Possible values of the request byte:
	.... .1. .111		UEPFAIN	"1" Initialise request
	.... .1. .111		UEPFATU	"2" Tidy Up request
(34)	ADDRESS	4	UEPFATUT	Address of Tidy Up type byte Possible values of the type byte:
	.... .1. .111		UEPFANTU	"1" Normal tidy up
	.... .1. .111		UEPFAETU	"2" Expired tidy up
(38)	ADDRESS	4	UEPFANAM	Address of Facility name
(3C)	ADDRESS	4	UEPFATYP	Address of Facility type Possible values of the type byte:
	.... .1. .111		UEPFABR	"1" 3270 Bridge facility
(40)	ADDRESS	4	UEPFAUAA	Address of Facility User Area
(44)	ADDRESS	4	UEPFAUAL	Address of User Area length byte

XDLIPRE PARAMETERS

VALID RETURN CODES FOR XDLIPRE ARE:

UERCNORM EQU X'00' NORMAL

UERCBYP EQU X'04' BYPASS DL/1 REQUEST AND RETURN

UERCPURG EQU X'20' PURGED

(30)	ADDRESS	4	UEPCTYPE	ADDRESS OF TYPE OF REQUEST BYTE
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EQUATES FOR TYPE OF REQUEST BYTE

	11.. .1.1		UEPCEXEC	"C'E" EXEC REQUEST
	11.. ..11		UEPCCALL	"C'C" CALL REQUEST
	11.. .11.		UEPCSHIP	"C'F" FUNCTION SHIPPED REQUEST
(34)	ADDRESS	4	UEPAPLIST	ADDRESS OF APPLICATION'S PARM LIST
(38)	ADDRESS	4	UEPLANG	ADDRESS OF LANGUAGE CALL TYPE BYTE

EQUATES FOR LANGUAGE BYTE

	11.1 .111		UEPPLI	"C'P" PLI
	11.. ..11		UEPCBL	"C'C" COBOL
	11.. ...1		UEPASM	"C'A" ASSEMBLER
	11.. 1.1		UEPAIB	"C'I" AIB
(3C)	ADDRESS	4	UEPIOAX	ADDRESS OF IO AREA EXISTENCE FLAG

EQUATE FOR IO AREA EXISTENCE BYTE

	.... .1.1		UEPIOA1	"X'01" IO AREA EXISTS
(40)	ADDRESS	4	UEPIOA	ADDRESS OF IO AREA
(44)	ADDRESS	4	UEPPSBNX	ADDRESS OF PSB EXISTENCE FLAG

Offset Hex	Type	Len	Name (Dim)	Description
EQUATE FOR PSB EXISTENCE BYTE				
	.... ..1.		UEPPSB1	"X'02" PSB EXISTS
(48)	ADDRESS	4	UEPPSBNM	ADDRESS OF PSB
(4C)	ADDRESS	4	UEPSYSDX	ADDRESS OF SYSID EXISTENCE FLAG
EQUATE FOR SYSID EXISTENCE BIT				
	.... ..11		UEPSYS1	"X'03" SYSID EXISTS
(50)	ADDRESS	4	UEPSYSID	ADDRESS OF SYSID
XDLIPOST PARAMETERS VALID RETURN CODES FOR XDLIPOST ARE: UERCNORM EQU X'00' NORMAL UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCTYPE - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPAPLIST - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPLANG - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPIOAX - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPIOA - AS DEFINED ABOVE
(44)	ADDRESS	4	UEPUIBX	ADDRESS OF UIB EXISTENCE FLAG
EQUATE FOR UIB EXISTENCE BYTE				
	.... ..1..		UEPUIB1	"X'04" UIB EXISTS
(48)	ADDRESS	4	UEPUIB	ADDRESS OF UIB
XMEOUT PARAMETERS VALID RETURN CODES FOR XMEOUT ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' Suppress (bypass) the messages for all destinations.				
(40)	ADDRESS	4	UEPMNUM	Address of 4 byte message number
(44)	ADDRESS	4	UEPMDOM	Address of 2 byte dom id (or blank)
(48)	ADDRESS	4	UEPMROU	Address of array of up to 128 route codes
(4C)	ADDRESS	4	UEPMNRC	Address of h/word containing number of route codes in array.
(50)	ADDRESS	4	UEPMTDQ	Address of array of 4 char names of TD queues to send messages to
(54)	ADDRESS	4	UEPMNTD	Address of h/word containing number of TDQs in the TDQ array
(58)	ADDRESS	4	UEPINSN	Address of 2 byte number of inserts
(5C)	ADDRESS	4	UEPINS A	Address of message inserts
(60)	ADDRESS	4	UEPNRTE	Address of no re-route flag
XSTERM PARAMETERS VALID RETURN CODES FOR XSTERM ARE: UERCNORM EQU X'00' NORMAL There are no exit specific parameters for this exit.				
XSRAB PARAMETERS VALID RETURN CODES FOR XSRAB ARE: UERCNOCA EQU X'00' Abend task ASRB, don't cancel exits UERCANC EQU X'04' Abend task ASRB, cancel exits UERCCICS EQU X'08' Abend CICS				
(30)	ADDRESS	4	UEPERROR	ADDRESS OF SRP_ERROR_DATA
XSZBRQ PARAMETERS VALID RETURN CODES FOR XSZBRQ ARE: UERCNORM EQU X'00' NORMAL UERCBYP EQU X'04' NOOP THE CALL				
(30)	BITSTRING	2	UEPSZACT	FEPI Command Code
(32)	BITSTRING	2		Unused
(34)	CHARACTER	8	UEPSZCNV	CONVID
(3C)	CHARACTER	8	UEPSZALP	POOL
(44)	CHARACTER	8	UEPSZALT	TARGET
(4C)	FULLWORD	4	UEPSZTIM	TIMEOUT
(50)	ADDRESS	4	UEPSZSND	Addr of Outbound Data
(54)	FULLWORD	4	UEPSZSNL	Len of Outbound Data
(58)	CHARACTER	4	UEPSZSTT	TRANSID for START
(5C)	CHARACTER	4	UEPSZSTM	TERMID for START
(60)	BITSTRING	1	UEPSZSNK	KEYSTROKE Flag
	1... ..		UEPSZSNK_ON	"X'80" Active
	.... ..		UEPSZSNK_OFF	"X'00" InActive
(61)	BITSTRING	1	UEPSZSNE	ESCAPE Byte
XSZARQ PARAMETERS VALID RETURN CODES FOR XSZARQ ARE: UERCNORM EQU X'00' NORMAL				
(30)	BITSTRING	2	UEPSZACN	FEPI Command Code
(32)	BITSTRING	2		Unused
(34)	CHARACTER	8	UEPSZCON	CONVID
(3C)	FULLWORD	4	UEPSZRP2	Response Code
(40)	ADDRESS	4	UEPSZRVD	Addr of Inbound Data
(44)	FULLWORD	4	UEPSZRVL	Len of Inbound Data Command Codes
(44)	BITSTRING		UEPSZNOA	"X'820E" AP NOOP
(44)	BITSTRING		UEPSZOAL	"X'8210" ALLOCATE
(44)	BITSTRING		UEPSZOCF	"X'8212" CONVERSE FORMATTED
(44)	BITSTRING		UEPSZOCD	"X'8214" CONVERSE DATASTREAM
(44)	BITSTRING		UEPSZOXC	"X'8216" EXTRACT CONV
(44)	BITSTRING		UEPSZOXF	"X'8218" EXTRACT FIELD
(44)	BITSTRING		UEPSZOXS	"X'821A" EXTRACT STSN

Offset Hex	Type	Len	Name (Dim)	Description
(44)	BITSTRING		UEPSZOFR	"X'821C" FREE
(44)	BITSTRING		UEPSZOSU	"X'821E" ISSUE
(44)	BITSTRING		UEPSZORF	"X'8220" RECEIVE FORMATTED
(44)	BITSTRING		UEPSZORD	"X'8222" RECEIVE DATASTREAM
(44)	BITSTRING		UEPSZOSF	"X'8224" SEND FORMATTED
(44)	BITSTRING		UEPSZOSD	"X'8226" SEND DATASTREAM
(44)	BITSTRING		UEPSZOST	"X'8228" START
(44)	BITSTRING		UEPSZSDN	"X'8402" Normal Shutdown
(44)	BITSTRING		UEPSZSDI	"X'8404" Immediate Shutdown
(44)	BITSTRING		UEPSZSDF	"X'8406" Forced Shutdown
(44)	BITSTRING		UEPSZEOT	"X'8408" CICS End of Task
(44)	BITSTRING		UEPSZNOS	"X'840E" SP NOOP
(44)	BITSTRING		UEPSZOQY	"X'8422" INQUIRE PROPERTYSET
(44)	BITSTRING		UEPSZOIY	"X'8428" INSTALL PROPERTYSET
(44)	BITSTRING		UEPSZODY	"X'8430" DISCARD PROPERTYSET
(44)	BITSTRING		UEPSZOQN	"X'8442" INQUIRE NODE
(44)	BITSTRING		UEPSZOTN	"X'8444" SET NODE
(44)	BITSTRING		UEPSZOIN	"X'8448" INSTALL NODE
(44)	BITSTRING		UEPSZOAD	"X'844A" ADD POOL
(44)	BITSTRING		UEPSZODE	"X'844C" DELETE POOL
(44)	BITSTRING		UEPSZODN	"X'8450" DISCARD NODE
(44)	BITSTRING		UEPSZOQP	"X'8462" INQUIRE POOL
(44)	BITSTRING		UEPSZOTP	"X'8464" SET POOL
(44)	BITSTRING		UEPSZOIP	"X'8468" INSTALL POOL
(44)	BITSTRING		UEPSZODP	"X'8470" DISCARD POOL
(44)	BITSTRING		UEPSZOQT	"X'8482" INQUIRE TARGET
(44)	BITSTRING		UEPSZOTT	"X'8484" SET TARGET
(44)	BITSTRING		UEPSZOIT	"X'8488" INSTALL TARGET
(44)	BITSTRING		UEPSZODT	"X'8490" DISCARD TARGET
(44)	BITSTRING		UEPSZOQC	"X'84A2" INQUIRE CONNECTION
(44)	BITSTRING		UEPSZOTC	"X'84A4" SET CONNECTION

XPCHAIR PARAMETERS

VALID RETURN CODES FOR XPCHAIR ARE:  
 UERCNORM EQU X'00' NORMAL  
 UERCMEA EQU X'04' ENTRY POINT HAS BEEN MODIFIED  
 UERCPURG EQU X'20' PURGED

(30)	ADDRESS	4		UEPPCDS - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTACB - AS DEFINED ABOVE

XPCTA PARAMETERS

VALID RETURN CODES FOR XPCTA ARE:  
 UERCNORM EQU X'00' NORMAL  
 UERCMEA EQU X'04' ENTRY POINT HAS BEEN MODIFIED  
 UERCPURG EQU X'20' PURGED

(30)	ADDRESS	4		UEPPCDS - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTACB - AS DEFINED ABOVE

XEIIIN PARAMETERS

VALID RETURN CODES FOR XEIIIN ARE:  
 UERCNORM EQU X'00' NORMAL(DEFAULT)  
 UERCBYP EQU X'04' BYPASS REQUEST  
 UERCPURG EQU X'20' PURGED

(30)	ADDRESS	4	UEPARG	ADDRESS OF COMMAND LEVEL PLIST
(34)	ADDRESS	4	UEPEXECB	ADDRESS OF EXEC INTERFACE BLOCK
(38)	ADDRESS	4	UEPUSID	ADDRESS OF TASK USERID
(3C)	ADDRESS	4	UEPPGM	ADDRESS OF PROGRAM NAME
(40)	ADDRESS	4	UEPLOAD	PROGRAM LOAD ADDRESS
(44)	ADDRESS	4	UEPRSA	ADDRESS OF APPL REGISTER SAVE AREA

XEIOUT PARAMETERS

VALID RETURN CODES FOR XEIOUT ARE:  
 UERCNORM EQU X'00' NORMAL(DEFAULT)  
 UERCPURG EQU X'20' PURGED

(30)	ADDRESS	4		UEPARG - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPEXECB - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPUSID - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPPGM - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPLOAD - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPRSA - AS DEFINED ABOVE

XEISPIN PARAMETERS

VALID RETURN CODES FOR XEISPIN ARE:  
 UERCNORM EQU X'00' NORMAL(DEFAULT)  
 UERCBYP EQU X'04' BYPASS REQUEST  
 UERCPURG EQU X'20' PURGED

(30)	ADDRESS	4		UEPARG - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPEXECB - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPUSID - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPPGM - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPLOAD - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPRSA - AS DEFINED ABOVE

Offset Hex	Type	Len	Name (Dim)	Description
XEISPOUT PARAMETERS VALID RETURN CODES FOR XEISPOUT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPARG - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPEXECB - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPUSID - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPPGM - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPLOAD - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPRSA - AS DEFINED ABOVE
XSNON PARAMETERS VALID RETURN CODES FOR XSNON ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPUSRID	ADDRESS OF TERMINAL USERID
(34)	ADDRESS	4	UEPUSRLN	ADDRESS OF TERMINAL USERID LENGTH
(38)	ADDRESS	4	UEPGRPID	ADDRESS OF GROUP ID
(3C)	ADDRESS	4	UEPGRPLN	ADDRESS OF GROUP ID LENGTH
(40)	ADDRESS	4	UEPNETN	ADDRESS OF NETNAME
(44)	ADDRESS	4	UEPTRMID	ADDRESS OF TERMINAL ID
(48)	ADDRESS	4	UEPTCTUA	ADDRESS OF TCT USER AREA
(4C)	ADDRESS	4	UEPTCTUL	ADDRESS OF TCT USER AREA LENGTH
(50)	ADDRESS	4	UEPTRMTY	ADDRESS OF TERMINAL TYPE BYTE
Terminal Type is derived from the DEVICE attribute of the TERMTYPE RDO resource.				
(54)	ADDRESS	4	UEPSNFLG	ADDRESS OF SIGNON/OFF FLAG BYTES
equates for Signon/off flag byte1				
.... ....			UEPSNOK	"0" Sign-on/off successful
.... ...1			UEPSNFL	"1" Sign-on/off failed
equates for Signon/off flag byte2				
.... ....			UEPSNML	"0" Normal sign-on/off (not timeout)
.... ...1			UEPSNTIM	"1" Timeout sign-off
XSNOFF PARAMETERS VALID RETURN CODES FOR XSNOFF ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPUSRID - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPUSRLN - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPGRPID - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPGRPLN - AS DEFINED ABOVE
(40)	ADDRESS	4		UEPNETN - AS DEFINED ABOVE
(44)	ADDRESS	4		UEPTRMID - AS DEFINED ABOVE
(48)	ADDRESS	4		UEPTCTUA - AS DEFINED ABOVE
(4C)	ADDRESS	4		UEPTCTUL - AS DEFINED ABOVE
(50)	ADDRESS	4		UEPTRMTY - AS DEFINED ABOVE
(54)	ADDRESS	4		UEPSNFLG - AS DEFINED ABOVE
XRMIIN PARAMETERS VALID RETURN CODES FOR XRMIIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPTRUEN	ADDRESS OF NAME OF TRUE
(34)	ADDRESS	4	UEPTRUEP	ADDRESS OF TRUE's PARAMETER LIST
(38)	ADDRESS	4		RESERVED
(3C)	ADDRESS	4		RESERVED
(40)	ADDRESS	4		RESERVED
(44)	ADDRESS	4		RESERVED
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE
XRMIOUT PARAMETERS VALID RETURN CODES FOR XRMIOUT ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPTRUEN - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTRUEP - AS DEFINED ABOVE
(38)	ADDRESS	4		RESERVED
(3C)	ADDRESS	4		RESERVED
(40)	ADDRESS	4		RESERVED
(44)	ADDRESS	4		RESERVED
(48)	ADDRESS	4		UEPRECUR - AS DEFINED ABOVE

Offset Hex	Type	Len	Name (Dim)	Description
<p>XFCBFAIL PARAMETERS VALID RETURN CODES FOR XFCBFAIL ARE: UERCNORM EQU X'00' NORMAL (DEFAULT) UERCBYP EQU X'04' BYPASS (IGNORE ERROR) VALID VALUES FOR UEPFCRSP ARE: UEDUPREC EQU X'10' DUPLICATE KEY ON UNIQUE AIX UENOSPAC EQU X'20' NO SPACE AVAILABLE UEIOEROR EQU X'24' I/O ERROR UENOLDEL EQU X'40' LOGICAL DELETE BYPASSED UENWBWAK EQU X'41' NON-BWO BACKUP IN PROGRESS UEDLOCK EQU X'B0' DEADLOCK UERLSERR EQU X'C0' VSAM RLS FAILURE DETECTED UERLSDIS EQU X'C1' VSAM RLS ACCESS DISABLED UERLSCON EQU X'C2' CONTINUATION OF RLS REQUEST DISABLED UECACHE EQU X'C3' VSAM RLS CACHE FAILURE UELCKFUL EQU X'C4' VSAM LOCK STRUCTURE FULL UEAIXFUL EQU X'F0' NO SPACE IN NON_UNIQUE AIX UEOPENER EQU X'FB' FILE OPEN ERROR UEUNEXP EQU X'FE' UNEXPECTED ERROR VALID VALUES FOR UEPERR ARE: XBFENO EQU X'00' NO ERROR XBFERU EQU X'01' READ UPDATE ERROR XBFERE EQU X'04' REWRITE ERROR XBFEWR EQU X'08' WRITE ERROR XBFEDL EQU X'20' DELETE ERROR</p>				
(30)	ADDRESS	4	UEPBLOGR	ADDRESS OF LOG RECORD BEING BACKED OUT
(34)	ADDRESS	4	UEPTRANS	ADDRESS OF TRANSACTION ID
(38)	ADDRESS	4	UEPTRMNL	ADDRESS OF TERMINAL ID
(3C)	ADDRESS	4	UEPTASK	ADDRESS OF TASK NUMBER
(40)	ADDRESS	4	UEPFCRSP	ADDRESS OF FILE CONTROL RESPONSE BYTE
(44)	ADDRESS	4	UEPERR	ADDRESS OF ERROR-TYPE BYTE
<p>XFCLDEL PARAMETERS VALID RETURN CODES FOR XFCLDEL ARE: UERCFAIL EQU X'00' TREAT AS BACKOUT FAILURE UERCLDEL EQU X'04' LOGICALLY DELETE RECORD BY REAPPLYING</p>				
(30)	ADDRESS	4		UEPBLOGR - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTRANS - AS DEFINED ABOVE
(38)	ADDRESS	4		UEPTRMNL - AS DEFINED ABOVE
(3C)	ADDRESS	4		UEPTASK - AS DEFINED ABOVE
(40)	ADDRESS	4	UEPFDATA	ADDRESS OF DATA TO LOGICALLY DELETE
(44)	ADDRESS	4	UEPFLEN	ADDRESS OF FULLWORD LENGTH OF DATA
<p>XFCBOVER PARAMETERS VALID RETURN CODES FOR XFCBOVER ARE: UERCNORM EQU X'00' DO NOT BACKOUT LOG RECORD UERCBCKO EQU X'04' PERFORM THE BACKOUT OF THE LOG RECORD</p>				
(30)	ADDRESS	4	UEPOLOGR	ADDRESS OF OVERRIDEN LOG RECORD
(34)	ADDRESS	4	UEPODSN	ADDRESS OF OVERRIDEN DATA SET
<p>XFCBOUT PARAMETERS THE ONLY VALID RETURN CODE FOR XFCBOUT IS: UERCNORM EQU X'00' CONTINUE PROCESSING</p>				
(30)	ADDRESS	4	UEPFLOGR	ADDRESS OF FC LOG RECORD
<p>XLGSTRM PARAMETERS VALID RETURN CODES FOR XLGSTRM ARE: UERCNORM EQU X'00' NORMAL (DEFINE STREAM) UERCBYP EQU X'04' BYPASS (DO NOT DEFINE STREAM) VALID VALUES FOR UEPLGTYP ARE: UEPSYSLG EQU X'01' SYSTEM LOG UEPGENLG EQU X'02' GENERAL LOG</p>				
(40)	ADDRESS	4	UEPLSN	ADDRESS OF 26-BYTE LOG STREAM NAME
(44)	ADDRESS	4	UEPMLSN	ADDRESS OF 26-BYTE MODEL STREAM NAME
(48)	ADDRESS	4	UEPIXG	ADDRESS OF IXGINVNT MACRO LIST FORM
(4C)	ADDRESS	4	UEPLGTYP	ADDRESS OF 1-BYTE LOG TYPE
.... ..1			UEPSYSLG	"X'01" SYSTEM LOG
.... ..1.			UEPGENLG	"X'02" GENERAL LOG
<p>XLGWBC PARAMETERS VALID RETURN CODES FOR XLGWBC ARE: UERCNORM EQU X'00' NORMAL</p>				
(40)	ADDRESS	4	UEP_LG_FUNCTION	address of 1-byte function Note: This is a reserved GLUE, if it is enabled it will be ignored by the Log Manager
.... ..1			UEP_LG_FUN_OPEN	"X'01" open function, called when the log is connected to
.... ..1.			UEP_LG_FUN_WRITE	"X'02" write function, called following a successful write to the log
.... ..11			UEP_LG_FUN_TERM_	
			LOG_FAIL_GAP	
.... ..1..			UEP_LG_FUN_TERM_	"X'03" terminate function, called following a log failure and the possibility of a gap exists
			LOG_FAIL_NO_GAP	
.... ..1.1			UEP_LG_FUN_TERM_	"X'04" terminate function, called following a log failure and there is no gap
			LOG_OK_GAP	

Offset Hex	Type	Len	Name (Dim)	Description
	.... .11.		UEP_LG_FUN_TERM_LOG_OK_NO_GAP	"X'05" terminate function, called when the log is disconnected normally but there is a possibility that a gap exists
	.... .111		UEP_LG_FUN_GET_DELETE_POINT	"X'06" terminate function, called when the log is disconnected normally and there is no gap
				"X'07" get delete point function, called when a delete is about to be issued and returns a log delete point. This only applies to the system log.
Parameters applicable to ALL functions (and always present)				
(44)	ADDRESS	4	UEP_LG_LOG_STREAM_NAME	address of 26-byte log stream name
(48)	ADDRESS	4	UEP_LG_LOG_TYPE	address of 1-byte log stream type
	.... ...1		UEP_LG_SYSTEM_LOG	"X'01" system log
	.... .1.		UEP_LG_GENERAL_LOG	"X'02" general log
(4C)	ADDRESS	4	UEP_LG_CICS_START_GMT	address of an 8-byte field containing the CICS start time in STCK format
(50)	ADDRESS	4	UEP_LG_CICS_APPLID	address of an 8-byte field containing the CICS applid (or the generic applid for XRF)
Extra parameters applicable ONLY to the WRITE function				
(54)	ADDRESS	4	UEP_LG_BLOCK	address of a variable length block containing the data just written to the log
(58)	ADDRESS	4	UEP_LG_BLOCK_LENGTH	address of a 4-byte field containing the length of the block of data just written to the log
(5C)	ADDRESS	4	UEP_LG_BLOCK_ID	address of an 8-byte field containing the id of the block just written to the log
(60)	ADDRESS	4	UEP_LG_BLOCK_TIMESTAMP	address of an 8-byte field containing the timestamp of the block just written to the log
Extra parameters applicable ONLY to the GET DELETE POINT function				
(64)	ADDRESS	4	UEP_LG_DELETE_BLOCK_ID	address of an 8-byte field, on return containing the block id of the log delete point chosen by the exit program. A zero address on return implies keep all data on the log.
(68)	ADDRESS	4	UEP_LG_DELETE_TIMESTAMP	address of an 8-byte field, on return containing the timestamp of the log delete point chosen by the exit program
XFCVSDS PARAMETERS				
Valid return codes for XFCVSDS are:				
UERCNORM EQU X'00' Normal (process VSAM RLS action)				
UERCBYP EQU X'04' Bypass (suppress VSAM RLS action)				
(30)	ADDRESS	4	UEPDSNAM	Address of dataset name
(34)	ADDRESS	4	UEPVSACT	Address of VSAM RLS action (byte)
(38)	ADDRESS	4	UEPQUCLS	Address of close type (byte)
(3C)	ADDRESS	4	UEPCPTEC	Address of copy technique (byte)
Constants for byte addressed by UEPVSACT				
	.... ...1		UEQUIES	"1" Quiesce dataset
	.... .1.		UEUNQUIS	"2" Unquiesce dataset
	.... .11		UENBWST	"3" Non-BWO backup start
	.... .1..		UENBWCMP	"4" Non-BWO backup complete
	.... .1.1		UEBWOST	"5" BWO backup start
	.... .11.		UEBWOCMP	"6" BWO backup complete
Constants for byte addressed by UEPQUCLS				
	.... ...1		UEORDCLO	"1" Close files when syncpoint reached
	.... .1.		UEIMMCLO	"2" Close files immediately via purge
Constants for byte addressed by UEPCPTEC				
	.... ...1		UEORDCOP	"1" Concurrent copy will not be used
	.... .1.		UECONCOP	"2" Concurrent copy will be used
XFCQUIS PARAMETERS				
Valid return codes for XFCQUIS are:				
UERCNORM EQU X'00' Normal				
(30)	ADDRESS	4	UEPQDSNM	Addr of dataset name
(34)	ADDRESS	4	UEPQSTAT	Addr of desired quiesce state (byte)
(38)	ADDRESS	4	UEPQRCDE	Addr of quiesce result (byte)
(3C)	ADDRESS	4	UEPQCONF	Addr of any conflicting quiesce (byte)
Constants for byte addressed by UEPQSTAT				
	.... ...1		UEQSD	"1" Quiesced (normal close) requested
	.... .1.		UEIMQSD	"2" Quiesced (immediate close) requested
	.... .11		UEUNQSD	"3" Unquiesced requested
Constants for byte addressed by UEPQRCDE				
	.... ...1		UEQOK	"1" Successful
	.... .1.		UEQREJEC	"2" Rejected - see UEPQCONF for conflict
	.... .11		UEQCANCL	"3" Failed - quiesce cancelled by user
	.... .1..		UEQTIMED	"4" Failed - quiesce cancelled by timeout
	.... .1.1		UEQIOERR	"5" Failed - i/o error or server failure
	.... .11.		UEQUNKNO	"6" Failed - dataset not DFSMS VSAM

Offset Hex	Type	Len	Name (Dim)	Description
.... .111			UEQMIGRT	"7" Failed - dataset migrated
Constants for byte addressed by UEPQCONF				
.... ...1			UEQUIINP	"1" Conflicting quiesce in progress
.... ..1.			UEUNQINP	"2" Conflicting unquiesce in progress
.... ...11			UENBWINP	"3" Conflicting non-BWO backup in progress
.... ..1..			UEBWOINP	"4" Conflicting BWO backup in progress
.... ..1.1			UEUNKINP	"5" Unknown conflicting event
XBADEACT PARAMETERS VALID RETURN CODES FOR XBADEACT ARE: UERCNORM EQU X'00' NORMAL check parm list hasn't already been generated by XBADEACT				
(40)	ADDRESS	4	UEPACIN	ADDRESS OF ACTIVITY INDICATOR BYTE
EQUATES FOR ACTIVITY INDICATOR				
11.1	1..1		UEPROOT	"C'R" ROOT ACTIVITY
11..	..11		UEPCHILD	"C'C" CHILD ACTIVITY
(44)	ADDRESS	4	UEPACID	ADDRESS OF ACTIVITY ID
(48)	ADDRESS	4	UEPACNA	ADDRESS OF ACTIVITY NAME
(4C)	ADDRESS	4	UEPPRID	ADDRESS OF PROCESS ID
(50)	ADDRESS	4	UEPPRTY	ADDRESS OF PROCESS TYPE
(54)	ADDRESS	4	UEPPRNA	ADDRESS OF PROCESS NAME
(58)	ADDRESS	4	UEPARESP	ADDRESS OF COMPLETION CODE
(5C)	ADDRESS	4	UEPAABND	ADDRESS OF ABEND CODE
XBMIN PARAMETERS VALID RETURN CODES FOR XBMIN ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPBMTCT	ADDRESS OF TCTTE
(34)	ADDRESS	4	UEPEXECB	AS DEFINED ABOVE
(38)	ADDRESS	4	UEPBMCNT	ADDRESS OF FIELD COUNT
(3C)	ADDRESS	4	UEPBMTAB	ADDRESS OF FIELD INFO TABLE
XBMOU PARAMETERS VALID RETURN CODES FOR XBMOU ARE: UERCNORM EQU X'00' NORMAL(DEFAULT) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4	UEPBMTCT	AS DEFINED ABOVE
(34)	ADDRESS	4	UEPEXECB	AS DEFINED ABOVE
(38)	ADDRESS	4	UEPBMCNT	AS DEFINED ABOVE
(3C)	ADDRESS	4	UEPBMTAB	AS DEFINED ABOVE
XINDT1 PARAMETERS VALID RETURN CODES FOR XINDT1 ARE: UERCNORM EQU X'00' NORMAL				
(40)	ADDRESS	4	UEPREMK	ADDRESS OF 8-BYTE REMARK
(44)	ADDRESS	4	UEPRUEI	ADDRESS OF RUEI TO BE LOGGED
(78)	FULLWORD	4	UEPEPEND (0)	END OF TYPE = EP DSECT
..111	1...		UEPEPLEN	"UEPEPEND-UEPEXN"
RETURN CODE EQUATES All RC Equates except UERCNORM which is above				
....	....		UERCSSYS	"X'00" TAKE SYSTEM ACTION
....	....		UERCDTAC	"X'00" Accept record
....	..1.		UERCSTRJ	"X'04" Reject record
....	..1.		UERCSTCL	"X'04" Close file
....	....		UERCSTOK	"X'00" File open OK
....	1...		UERCSTOP	"X'08" Optimise data table add
....	11..		UERCSTEX	"X'0C" Extension for data tables
....	1...		UERCSTSH	"X'08" Shared data table load
....	....		UERCNOAC	"X'00" NO ACTION
....	..1.		UERCSDOK	"X'04" Quit TD processing - return "normal" to caller
....	..1.		UERCSSWCH	"X'04" SWITCH TO ALTERNATE OR DONT SWITCH AUTOSWITCH OFF.
....	..1.		UERCSTYP	"X'04" BYPASS (NO ACTION)
....	..1.		UERCSTOIG	"X'04" IGNORE
....	..1.		UERCSTQUE	"X'04" QUEUE THE REQUEST
....	..1.		UERCSTMEA	"X'04" PROGRAM CONTROL ADDRESS MODIFIED
....	..1.		UERCSTSWAP	"X'04" ISSUE SYSEVENT TO ALLOW ADDRESS-SPACE SWAP
....	1...		UERCSTDNA	"X'08" Quit TD processing - return "notauth" to caller
....	....		UERCSTFAIL	"X'00" TREAT AS BACKOUT FAILURE
....	..1.		UERCSTLDEL	"X'04" LOGICALLY DELETE RECORD BY REAPPLYING
....	..1.		UERCSTBCKO	"X'04" PERFORM THE BACKOUT OF THE LOG RECORD
....	1...		UERCSTIGN	"X'08" IGNORE, RETURN SYSIDERR
....	1...		UERCSTABNO	"X'08" ABEND CICS WITHOUT DUMP
....	1...		UERCSTNOSW	"X'08" SYSEVENT TO SUPPRESS ADDRESS-SPACE SWAP
....	11..		UERCSTABDU	"X'0C" ABEND CICS WITH DUMP
....	....		UERCSTTEUN	"X'00" TERMINAL UNKNOWN
....	..1.		UERCSTNETN	"X'04" TERMINAL KNOWN, NETNAME RETURNED
....	1...		UERCSTSYSI	"X'08" TERMINAL KNOWN, SYSID RETURNED
....	..1.		UERCSTPURG	"X'20" TASK BEING PURGED
....	....		UERCSTACQUE	"X'00" Queue allocate request
....	..1.		UERCSTCAPUR	"X'04" Purge allocate request
....	1...		UERCSTAKLL	"X'08" Kill queued tasks for connection
....	11..		UERCSTAKLM	"X'0C" Kill queued tasks for modegrp



Offset Hex	Type	Len	Name (Dim)	Description
....	1...		UERCSCOPE	"X'08" Scope returned
....	....		UERCNOCA	"X'00" Abend task ASRB, don't cancel exits
....	.1..		UERCCANC	"X'04" Abend task ASRB, cancel exits
....	1...		UERCCICS	"X'08" Abend CICS
END OF RETURN CODE EQUATES				
FILE CONTROL RETURN CODE EQUATES FOR UEPFCRSP				
...1	....		UEDUPREC	"X'10" DUPLICATE KEY ON UNIQUE AIX
.1..	....		UENOSPAC	"X'20" NO SPACE AVAILABLE
.1..	.1..		UEIOEROR	"X'24" I/O ERROR
.1..	....		UENOLDEL	"X'40" LOGICAL DELETE BYPASSED
.1..	...1		UENBWBK	"X'41" NON-BWO BACKUP IN PROGRESS
1.11	....		UEDLOCK	"X'B0" DEADLOCK
11..	....		UERLSERR	"X'C0" VSAM RLS FAILURE DETECTED
11..	...1		UERLSDIS	"X'C1" VSAM RLS ACCESS DISABLED
11..	.1..		UERLSCON	"X'C2" CONTINUATION OF RLS REQUEST DISABLED
11..	..11		UECACHE	"X'C3" VSAM RLS CACHE FAILURE
11..	.1..		UELCKFUL	"X'C4" VSAM LOCK STRUCTURE FULL
1111	....		UEAIXFUL	"X'F0" NO SPACE IN NON_UNIQUE AIX
1111	1.11		UEOPENER	"X'FB" FILE OPEN ERROR
1111	111.		UEUNEXP	"X'FE" UNEXPECTED ERROR
END OF FILE CONTROL RETURN CODE EQUATES				
FILE CONTROL ERROR TYPE BYTE EQUATES FOR UEPERR				
THE ERROR TYPE INDICATES THE STAGE DURING BACKOUT AT WHICH THE FAILURE OCCURRED				
....	....		XBFENO	"X'00" NO ERROR
....	...1		XBFERU	"X'01" READ UPDATE ERROR
....	.1..		XBFERE	"X'04" REWRITE ERROR
....	1...		XBFEWR	"X'08" WRITE ERROR
.1..	....		XBFEDL	"X'20" DELETE ERROR
END OF FILE CONTROL ERROR TYPE BYTE EQUATES				
1...	....		UERTPREP	"X'80" PREPARE
.1..	....		UERTCOMM	"X'40" COMMIT UNCONDITIONALLY
.1..	....		UERTBACK	"X'20" BACKOUT
...1	....		UERTDGCS	"X'10" LOST TO CICS INITIAL START
....	1...		UERTDGNK	"X'08" RM SHOULD NOT BE IN-DOUBT
....	.1..		UERTWAIT	"X'04" RM WILL HAVE TO WAIT FOR OUTCOME
....	.1..		UERTRSYN	"X'02" RESYNC
....	...1		UERTLAST	"X'01" LAST COMMIT/ABORT IN THREAD
1...	....		UERTONLY	"X'80" RM IS ONLY UPDATER - TRUE CAN PERFORM SINGLE PHASE COMMIT
.1..	....		UERTELUW	"X'40" RM IS READ ONLY - TRUE CAN INVOKE RM WITH END LUW CALL.
....	.1..		UERFPREP	"4" VOTE-YES
....	1...		UERFBACK	"8" VOTE-NO
....	11..		UERFNLOG	"12" VOTE-YES-BUT-DO-NOT-LOG
....	.1..		UERFDONE	"4" COMMIT/ABORT COMPLETE
....	1...		UERFHOLD	"8" REMEMBER COMMIT/ABORT
....	.1..		UERFOK	"4" SINGLE PHASE (UERTONLY): COMMITTED OK
....	1...		UERFBOUT	"8" SINGLE PHASE (UERTONLY): BACKED OUT
1...	....		UERTEOTR	"X'80" END OF THREAD
.1..	....		UERTSOTR	"X'40" START OF TASK
1...	..1.		UERTRTTR	"X'82" no longer used
.1..	.1..		UERTRTST	"X'42" no longer used
....	.1..		UERFEOTR	"4" CALL UNDERSTOOD
1...	....		UERTCONN	"X'80" EXTERNAL RESOURCE MANAGER IS
.1..	....		UERTNCON	"X'40" EXTERNAL RESOURCE MANAGER IS NOT
1...	....		UERTCORD	"X'80" CICS Orderly Termination
.1..	....		UERTCIMM	"X'40" CICS Immediate Termination
..1.	....		UERTCABY	"X'20" CICS ABEND (Retry possible - TCBs Dispatchable)
...1	....		UERTCABN	"X'10" CICS ABEND (Retry NOT possible - TCBs Dispatchable)
....	...1		UERTOPCA	"X'01" Operator Cancel (Retry NOT possible - TCBs NOT dispatchable)
EXITID EQU-LIST - Global User Exit Number				
....	...1		XTCIN	"1"
....	.1..		XTCOUT	"2"
....	..11		XTCATT	"3"
....	.1..		XTCTIN	"4"
....	.1.1		XTCTOUT	"5"
....	.11.		XDSBWT	"6"
....	..11		XDSAWT	"7"
....	1...		XLGSTRM	"8"
....	1..1		XDUREQ	"9"
....	1.1.		XDUCLSE	"10"
....	1.11		XDUOUT	"11"
....	11..		XMEOUT	"12"
....	11.1		XFCREQ	"13"
....	111.		XFCREQC	"14"
....	1111		XTSPTOUT	"15"
...1	....		XGMTEXT	"16"
...1	...1		XMNOUT	"17"
...1	.1..		XRCINIT	"18"
...1	..11		XRCINPT	"19"
...1	.1..		XICREQ	"20"
...1	.1.1		XICEXP	"21"
...1	.11.		XISLCLQ	"22"

Offset Hex	Type	Len	Name (Dim)	Description
...	.111		XPCFTCH	"23"
...	1...		XPCHAIR	"24"
...	1.1		XPCTA	"25"
...	1.1		XPCABND	"26"
...	1.11		XPCREQ	"27"
...	11..		XPCREQC	"28"
...	11.1		XTDREQ	"29"
...	111.		XTDIN	"30"
...	1111		XTDOUT	"31"
..1.	....		XTSQRIN	"32"
..1.	...1		XTSQROUT	"33"
..1.	..1.		XTSPTIN	"34"
..1.	..11		XZCIN	"35"
..1.	.1..		XZCOUT	"36"
..1.	.1.1		XZCATT	"37"
..1.	.11.		XZCOUT1	"38"
..1.	.111		XXRSTAT	"39"
..1.	1...		XXDFA	"40"
..1.	1.1		XXDFB	"41"
..1.	1.1		XXDTO	"42"
..1.	1.11		XSTOUT	"43"
..1.	11..		XDLIPRE	"44"
..1.	11.1		XDLIPOST	"45"
..1.	111.		XFCSREQ	"46"
..1.	1111		XEIIIN	"47"
..11	....		XEIOUT	"48"
..11	...1		XALTENF	"49"
..11	..1.		XICTENF	"50"
..11	..11		XDTAD	"51"
..11	.1..		XDTRD	"52"
..11	.1.1		XDTLC	"53"
..11	.11.		XSTERM	"54"
..11	.111		XSRAB	"55"
..11	1...		XFCSREQC	"56"
..11	1.1		XSZBRQ	"57"
..11	1.1		XSZARQ	"58"
..11	1.11		XISCONA	"59"
..11	11..		XRSINDI	"60"
..11	11.1		XXMATT	"61"
..11	111.		XZIQUE	"62"
..11	1111		XTSEREQ	"63"
..1.	....		XTSEREQC	"64"
..1.	...1		XTDEREQ	"65"
..1.	..1.		XTDEREQC	"66"
..1.	..11		XICEREQ	"67"
..1.	.1..		XICEREQC	"68"
..1.	.1.1		XALCAID	"69"
..1.	.11.		XSNON	"70"
..1.	.111		XSNOFF	"71"
..1.	1...		XRMIIN	"72"
..1.	1.1		XRMIOU	"73"
..1.	1.1		XAKUSER	"74"
..1.	1.11		XFCNREC	"75"
..1.	11..		XFCBFAIL	"76"
..1.	11.1		XFCLDEL	"77"
..1.	111.		XFCBOVER	"78"
..1.	1111		XFCBOUT	"79"
..1.1	....		XFCVSDS	"80"
..1.1	...1		XFCQUI	"81"
..1.1	..1.		XDUREQC	"82"
..1.1	..11		XFCAREQ	"83"
..1.1	.1..		XFCAREQC	"84"
..1.1	.1.1		XEISPIN	"85"
..1.1	.11.		XEISPOUT	"86"
..1.1	.111		XNQREQ	"87"
..1.1	1...		XNQREQC	"88"
..1.1	1.1		XFAINTU	"89"
..1.1	1.1		XBMIN	"90"
..1.1	1.11		XBMOUT	"91"
..1.1	11..		XBADEACT	"92"
..1.1	11.1		XLDLOAD	"93"
..1.1	111.		XLDELETE	"94"
..1.1	1111		XINDT1	"95"
..11	....		XINDT2	"96"
..11	...1		XLGWBC	"97"

## UEPB User exit program block

CONTROL BLOCK NAME = DFHUEPBC  
 (progeny of DFHUEPBC)  
 DESCRIPTIVE NAME = CICS (UE) User Exit Program Block DSECT  
 FUNCTION = Copybook for EPB DSECT.

The EPBs are used by User Exits to hold information about programs that have been enabled as User exit programs. The EPBs are shared by the exit points that have had the program enabled, so that there is only one EPB for a program even if it has been enabled at multiple exit points. They are chained off the UETHEPBC field in the User Exit Table Header (UETH).

For a particular exit, when the first program is enabled for the exit, an EPB is created (or reused if one already exists for another exit). The address of the first EPB for an exit point is stored in the User Exit Table Entry (UETE) for that exit point.

For every subsequent program enabled at the same exit point, an EPL will be created. This EPL chain is also chained off the UETE. The EPLs simply point to EPBs for all the programs enabled for an exit point.

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	104	DFHEPB	EPB CONTROL BLOCK
(0)	CHARACTER	4	EPBSAA	STORAGE ACCOUNTING AREA
(4)	ADDRESS	4	EPBCHAIN	ADDRESS OF NEXT EPB
(8)	CHARACTER	8	EPBEPN	NAME OF EXIT PROGRAM
(10)	ADDRESS	4	EPBEPA	ADDRESS OF EXIT PROGRAM
(14)	ADDRESS	4	EPBGAA	ADDRESS OF GLOBAL AREA
(18)	HALFWORD	2	EPBGAL	LENGTH OF GLOBAL AREA
(1A)	HALFWORD	2	EPBGCNT	GLOBAL AREA USE-COUNT
(1C)	FULLWORD	4	EPBTCNT	TIE-COUNT
(20)	CHARACTER	8	EPBTICHN_CDS	
(20)	ADDRESS	4	EPBTICHN	Anchor for unused TIEs
(24)	FULLWORD	4	EPBTICHN_CT	Security counter
(28)	CHARACTER	8	EPBCNTS_CDS	
(28)	FULLWORD	4	EPBINST	Instance count
(2C)	FULLWORD	4	EPBICNT	Invocation count & start bit Bit 0 on = started
(2C)	BITSTRING	1	*	
			1... .. UESTART	X'80'
			..111 1111	reserved
(2D)	UNSIGNED	3	*	reserved
(30)	HALFWORD	2	EPBACNT	ACTIVATION COUNT
(32)	HALFWORD	2	EPBTAL	LENGTH OF TASK AREA
(34)	BITSTRING	1	EPBFLAGS	FLAG-BYTE
			1... .. UENODEL	X'80' prog loaded by user - do not delete when disabling
			..1. .... *	X'40' reserved
			...1 .... UEDISABL	X'20' entryname is disabled
			.... 1... UERESYNC	X'10' exec resync issued
			.... ..1. UELINKAM	X'08' linkeditmode specified
			.... ..11 UEIDWAIT	X'04' indoubtwait specified
			.... ..11 *	reserved
(35)	CHARACTER	3	*	Reserved
(38)	FULLWORD	4	EPBBIND	INTEREST PROFILE
(3C)	CHARACTER	8	EPBEMN	LOAD-MODULE NAME
(44)	CHARACTER	8	EPBQUAL	Qualifier to TRUE's name
(4C)	CHARACTER	8	EPBTSPTK	TIE STORAGE SUBPOOL TOKEN
(54)	ADDRESS	4	EPBTIEA	Addr of TIE resvd for shutdwn
(58)	ADDRESS	4	EPBPGTKN	Program Token
(5C)	CHARACTER	8	EPBENTIM	Time EPB built
(64)	CHARACTER	2	EPBTPGMM	TRUE's program_mode
(66)	CHARACTER	2	EPBGPGMM	GLUE's program_mode
(68)	CHARACTER		EPBEND	End

### Constants

Len	Type	Value	Name	Description
2	DECIMAL	104	EPBLEN	EPB length

## UEPL User exit program link

CONTROL BLOCK NAME = DFHUEPLC  
 (progeny of DFHUEPLC)  
 DESCRIPTIVE NAME = CICS (UE) User Exit Program Link DSECT  
 FUNCTION = Copybook for EPL DSECT.

The EPLs are used by User Exits to link User Exit Blocks (EPBs) together. There is one EPB per enabled program, and the EPBs are shared by the exit points that have had the program enabled.

For a particular exit, when the first program is enabled for the exit, an EPB is created (or reused if one already exists for another exit). The address of the first EPB is stored in the User Exit Table Entry (UETE) for that exit point.

For every subsequent program enabled at the same exit point, an EPL will be created. This EPL chain is also chained off the UETE. The EPLs simply link to EPBs for all the programs enabled for an exit point.

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	24	DFHEPL	EXIT PROGRAM LINK
(0)	CHARACTER	4	EPLSAA	STORAGE ACCOUNTING AREA
(4)	ADDRESS	4	EPLNEPL	ADDRESS OF NEXT EPL
(8)	CHARACTER	8	EPLNTIM	TIME EPL BUILT
(10)	ADDRESS	4	EPLPBA	ADDRESS OF EPB
(14)	FULLWORD	4	EPLINST	INSTANCE NUMBER
(18)	CHARACTER		EPLEND	END

## UETE User exit table entry

CONTROL BLOCK NAME = DFHUETEC  
 (progeny of DFHUETEC)  
 DESCRIPTIVE NAME = CICS (UE) User Exit Table Entry DSECT  
 FUNCTION = Copybook for UETE DSECT.

The UETE contains information specific to a particular exit point. There is one entry per exit point in CICS and all the entries are GETMAINED and initialised by DFHSIC1 during CICS Initialisation.

When a program is enabled at an exit point, a pointer to the EPB for the program is set in the UETE.

For the first program enabled at the exit point, the EPB address is stored directly in the UETEEPBA field.

Subsequent programs enabled at the same exit point, will get an EPL created for them. (The EPL points to an EPB). The EPL chain is chained off the UETENEPL field.

When a CICS Exit is invoked, the UETE associated with the exit point is checked. If the UETEEBPA field is non zero, then control is passed to the program defined in the first EPB. On return from this program, the UETENEPL is chained down, and every program pointed to via the EPL is passed control (in the order the exits were enabled).

NOTES :

DEPENDENCIES = S/370  
 RESTRICTIONS = None  
 MODULE TYPE = Control block definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	40	DFHUETE	
(0)	UNSIGNED	1	UETEEXN	EXIT NUMBER
(1)	CHARACTER	1	*	RESERVED
(2)	HALFWORD	2	UETEDRC	DEFAULT RETURN-CODE
(4)	HALFWORD	2	UETEMRC	MAXIMUM RETURN-CODE
(6)	UNSIGNED	2	UETEFLGS	FLAG BYTES
(6)	UNSIGNED	1	UETEFLG1	FLAG1
(7)	BITSTRING	1	UETEFLG2	FLAG2
	1... ..		UETEXCAP	Exit is EXEC capable
	.1.. ..		UETERCSV	May be called recursively
	..11 1111		*	Reserved
(8)	ADDRESS	4	UETEFEP	First EPL
(C)	FULLWORD	4	UETECHNG	Change CTR for EPL chains
(10)	CHARACTER	24	UETEPL	EPL (EPLEND-DFHEPL)
(28)	CHARACTER		UETEEND	

### Constants

Len	Type	Value	Name	Description
1	DECIMAL	0	UETEAPE	EXIT IN AP DOMAIN
1	DECIMAL	255	UETEALL	EXIT IN ALL DOMAINS (POSSIBLY)

**UETH User exit table header**

CONTROL BLOCK NAME = DFHUETHC  
(progeny of DFHUETHC)  
DESCRIPTIVE NAME = CICS (UE) User Exit Table Header DSECT  
FUNCTION = Copybook for UETH DSECT.  
The UETH contains global information used by User Exits.  
The User Exit table consists of a header section, followed  
by a list of Table Entries (UETEs). There is one UETE per  
exit point in CICS.  
The User Exit Table is created in DFHSIC1 during CICS  
Initialisation.  
NOTES :  
DEPENDENCIES = S/370  
RESTRICTIONS = None  
MODULE TYPE = Control block definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	176	DFHUETH	
(0)	UNSIGNED	4	UETHWA (32)	USER EXIT HANDLER'S WORK AREA
(80)	ADDRESS	4	UETHEPBC	ANCHOR FOR EPB CHAIN
(84)	ADDRESS	4	UETHLEA	ADDRESS OF LAST UET ENTRY
(88)	HALFWORD	2	UETHLEN	LENGTH OF UET
(8A)	HALFWORD	2	UETHSCT	no. exits interested in TASKSTART
(8C)	BITSTRING	1	UETHFLAG	UET Flags
(8D)	UNSIGNED	3	*	RESERVED
(90)	CHARACTER	8	UETHTRUB	TRUE subpool token below
(98)	ADDRESS	4	UETHEPBL	Lock_Token for EPBCHAIN lock
(9C)	CHARACTER	4	*	Reserved
(A0)	CHARACTER	8	UETHEPBT	EPB subpool token above the line
(A8)	ADDRESS	4	UETHFEPL	Chain of free EPL's
(AC)	ADDRESS	4	UETHFEPB	Chain of free EPB's
(B0)	CHARACTER		UETHEND	

## URL User supplied route list entry

MODULE NAME = DFHURLDS  
 DESCRIPTIVE NAME = CICS USER-SUPPLIED ROUTE LIST ENTRY  
 COPYBOOK DFHURLDS.

All programs which issue DFHBSM TYPE=ROUTE macro instructions must contain a user-supplied route list, defining the terminals and/or operator to which the logical message is to be routed. The entries in the route list must be formatted as described by this DSECT.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHURLDS	DUMMY SECTION - USER'S ROUTE LIST
(0)	CHARACTER	4	URLTRMID	TERMINAL IDENTIFICATION
(4)	CHARACTER	2	URLDCMN	LOGICAL DEVICE MNEMONIC
(6)	CHARACTER	3	URLOPID	OPERATOR IDENTIFICATION
(9)	BITSTRING	1	URLTSF	STATUS FLAG
	1... ..		URLSKIP	"X'80" USER ROUTE LIST ENTRY SKIPPED
	.1.. ..		URLITI	"X'40" INVALID TERMINAL IDENTIFICATION
	..1. ....		URLNS	"X'20" TERMINAL NOT SUPPORTED UNDER BMS
	...1 .....		URLONSO	"X'10" OPERATOR NOT SIGNED ON
	.... 1...		URLSOUST	"X'08" OPERATOR SIGNED ON UNSUPPORTED TERMINAL
	.... .1..		URLINVMN	"X'04" INVALID LDC MNEMONIC
(A)	CHARACTER	6	URLRESV	RESERVED - MUST BE BLANKS
	...1 .....		URLNEXT	"*" START NEXT ENTRY
(0)	CHARACTER	2	URLCHIND	URL CHAIN INDICATOR

THE FOLLOWING ARE ACCEPTABLE VALUES FOR 'URLCHIND'

(0)	BITSTRING		URLEND	"X'FFFF" END OF URL
(0)	BITSTRING		URLCONT	"X'FFFE" URL CONTINUED IN NEXT SEGMENT
(2)	CHARACTER	2		RESERVED
(4)	CHARACTER	4	URLCHADR	URL CHAIN ADDRESS (NEEDED WHEN URLCHIND IS X'FFFE)
	...1 .....		URLCAD	"--DFHURLDS" LENGTH OF USER ROUTE LIST ENTRY

## VMID Module identifier

CONTROL BLOCK NAME = DFHVMSD  
 DESCRIPTIVE NAME = CICS Module Identifier.  
 FUNCTION =  
 All CICS modules begin with a DFHVM macro that expands to generate the name of the module, its entry point address, the version, modification level and the date and time of assembly. The expansion of the macro is described by DFHVMSD.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHVMSD	MODULE IDENTIFIER
(0)	CHARACTER	1	VMSTART	"*" EYECATCHER
(1)	CHARACTER	8	VMNAME	FULL NAME FIELD
(9)	ADDRESS	4	VMPEA31	Entry point
(D)	CHARACTER	4	VMVERS	VERSION AND MOD LEVEL
(11)	CHARACTER	1	VMASM	ASSEMBLED BY USER
(12)	CHARACTER	2	VMTIME	ASSEMBLY TIME
(14)	CHARACTER	2	VMDATE	ASSEMBLY DATE
(16)	CHARACTER	8	VMPTFNO	PTF NUMBER
(1E)	BITSTRING	1	VMFLAG1	FIRST FLAG FIELD
	.1.. ....		VMDLIGEN	"X'40" DL/I GENERATED
	...1 ....		VMMVSGEN	"X'10" FOR MVS
	.... 1...		VMSRBGEN	"X'08" SRB GENERATED
	.... .1..		VMMVS811	"X'04" FOR MVS/811
	...1 1111		VMLNGTH	**"-DFHVMSD" MEMBER-DEPENDENT LENGTH

## VSWA Fc VSAM work area

CONTROL BLOCK NAME = DFHVSAS  
 DESCRIPTIVE NAME = CICS/ESA (FC) VSAM WORK AREA  
 FUNCTION =  
 The VSWA is the File Control VSAM Work Area.  
 The VSAM Work Area is created by the File Control Program DFHFCVS at the start of processing of a VSAM request (GET, PUT) or series of requests (GET UPDATE - PUT UPDATE, STARTBR - READNEXT - END BROWSE, etc.) and contains information related to the request. The VSWA consists of a CICS part and a VSAM part. The VSAM part is the VSAM RPL that represents the request to VSAM. The VSWA is deleted when the request is terminated.  
 LIFETIME =  
 Created by DFHFCVS at the start of a request or series of requests. Destroyed by FCVS when the request/series ends.  
 STORAGE CLASS =  
 Above 16M line.  
 LOCATION =  
 VSWA is pointed to by the field FRT\_WORK\_AREA\_ADDRESS in the File Request Thread Element (FRTE).  
 INNER CONTROL BLOCKS =  
 The VSWA contains within it (at offset 8) the VSAM Request Parameter List (RPL).  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None.  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None  
 DATA AREAS = None.  
 CONTROL BLOCKS = None.  
 GLOBAL VARIABLES (Macro pass) = None.  
 VSAM WORK AREA

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	DFHVSAS	VSAM work area
(0)	CHARACTER	8	VSWA_SAA	This section replaces the old storage accounting area
(0)	CHARACTER	1	VSWACLS	Stg class
(1)	CHARACTER	1	*	Reserved
(2)	UNSIGNED	2	VSWALNTH	Length of VSWA
(4)	ADDRESS	4	VSWANXT	Next VSWA on free chain
(8)	CHARACTER	76	VSWARPL	VSAM Request Parameter List
(8)	FULLWORD	4	VSWAIDWD	RPL identification word



Offset Hex	Type	Len	Name (Dim)	Description
(8)	UNSIGNED	1	VSWAID	RPL identifier
(9)	UNSIGNED	1	VSWASTYP	RPL subtype
(A)	UNSIGNED	1	VSWAREQ	Request type
(B)	UNSIGNED	1	VSWARLEN	RPL length
(C)	ADDRESS	4	VSWAPLHP	PLH address
(10)	ADDRESS	4	VSWAECB	Event control block (ECB) or address of ECB if VSWAECBS = '1'B
(10)	CHARACTER	4	VSWAECBC	ECB as string
(14)	CHARACTER	4	VSWARESP	RPL response bytes
(14)	UNSIGNED	1	VSWASTAT	RPL status flags
(15)	CHARACTER	3	VSWAFDBK	RPL feedback area
(15)	UNSIGNED	1	VSWARTNC	RPL return code
(16)	CHARACTER	2	VSWACNDC	RPL condition code
(16)	UNSIGNED	1	VSWACMPN	Component issuing the code
(17)	UNSIGNED	1	VSWAERRC	Error Code
(18)	HALFWORD	2	VSWARKYL	RPL key length
(1A)	HALFWORD	2	VSWASTID	RPL string identifier
(1C)	ADDRESS	4	VSWACCHR	Control character address
(20)	ADDRESS	4	VSWAACB	ACB address
(24)	ADDRESS	4	VSWATCB	TCB address
(28)	ADDRESS	4	VSWAREA	Area Address
(2C)	ADDRESS	4	VSWAARG	Argument address
(30)	CHARACTER	4	VSWAOPTC	Option codes
(30)	UNSIGNED	1	VSWAOPT1	Option code byte 1
	1... ..		*	Reserved
	.1.. ..		VSWADIR	Direct search access
	..1. ..		VSWASEQ	Sequential access
	...1 ..		*	Reserved
	.... 1...		VSWAASY	Asynchronous request
	.... .1.		*	Reserved
	.... ...1		VSWAECBS	VSWAECB has ADDR(ECB)
(31)	UNSIGNED	1	VSWAOPT2	Option code byte 2
	1111 11..		*	Reserved
	.... ..1.		VSWAUPD	Update Processing
	.... ...1		*	Reserved
(32)	UNSIGNED	1	VSWAOPT3	Option code byte 3
(33)	UNSIGNED	1	VSWAOPT4	Option code byte 4
(34)	ADDRESS	4	VSWANRPL	Next RPL Address
(38)	FULLWORD	4	VSWALEN	Record length
(3C)	FULLWORD	4	VSWABUFL	Buffer length
(40)	FULLWORD	4	*	Reserved
(44)	CHARACTER	8	VSWARBAR	RBA return field
(44)	FULLWORD	4	*	Reserved
(48)	UNSIGNED	4	VSWALRBA	Record RBA
(4C)	UNSIGNED	1	*	Reserved
(4D)	UNSIGNED	1	VSWACTIV	Check not issued
(4E)	HALFWORD	2	VSWAEML	Error message length
(50)	ADDRESS	4	VSWAEMA	Error message area address END OF FIXED SECTION
VARIABLE SECTION				
(54)	CHARACTER	20	VSWAVRS0	Variable section 0
(54)	ADDRESS	4	VSWAFCT	File control table entry addr
(58)	ADDRESS	4	VSWA_RECORD_LOCK	Addr record lock area
(5C)	ADDRESS	4	VSWA_DELETE_LOCK	Addr delete lock area
(60)	HALFWORD	2	VSWAENQL	Length of ENQ argument
(62)	HALFWORD	2	VSWA_BKL	Base key/RBA/RRN length
(64)	ADDRESS	4	*	Reserved
(68)	CHARACTER	12	VSWAVRS2	Variable section 2
(68)	ADDRESS	4	VSWARIF	Record ID field address
(6C)	BITSTRING	2	VSWASTLR	STARTBR request codes
	1... ..		VSWABGEN	Generic browse
	.1.. ..		VSWABRBA	RBA browse
	..1. ....		VSWABIP	Browse in progress
	...1 ....		VSWA_SEQUENTIAL	Browse positioned for SEQ
	.... 1...		*	Reserved
	.... .1..		VSWA_DT_WAIT	Data table open is waiting for this request to complete
	.... ..1.		VSWA_0890_WAIT	This request is waiting for requests flagged 0890_POST to complete
	.... ...1		VSWA_INFLIGHT	VSAM request is in flight
(6D)	BITSTRING	1	*	Reserved
(6E)	HALFWORD	2	VSWAKEYL	Key length
(70)	ADDRESS	4	*	Reserved
(74)	CHARACTER	64	VSWAVRS3	Variable section 3
(74)	ADDRESS	4	*	Reserved
(78)	ADDRESS	4	VSWANEXT	Pointer to next VSWA in base cluster chain.
(7C)	ADDRESS	4	VSWAPREV	Pointer to previous VSWA in base cluster chain.
(80)	ADDRESS	4	VSWACHN	General VSWA chain field
(80)	ADDRESS	4	VSWAXCHN	Pointer to next VSWA waiting for my owner.
(84)	ADDRESS	4	VSWAOWND	Pointer to VSWA chain for me.
(88)	ADDRESS	4	VSWAOWNR	Pointer to VSWA for which I am waiting.
(8C)	UNSIGNED	1	VSWAEXW	ECB posted when exclusive control conflict has been resolved.
(8D)	CHARACTER	1	VSWAIND	VSAM work area indicators
	1... ..		VSWAEREQ	VSAM ENDREQ is required
	.1.. ..		VSWABRZI	This is a browse VSWA
	..1. ....		VSWAMASS	Mass insert VSWA
	...1 ....		VSWAFRST	First request in BROWSE or MASS INSERT sequence or single ADD.
	.... 1...		VSWASTRG	VSAM string acquired
	.... .1..		*	Reserved

Offset Hex	Type	Len	Name (Dim)	Description
	.... ..1.		VSWALSRP	Path browse request to LSR file.
	.... ..1		*	Reserved
(8E)	HALFWORD	2	VSWASTG	Number of strings allocated to access request for a file using LSR.
(90)	FULLWORD	4	VSWARQST	VSAM Request code
(94)	CHARACTER	4	VSWA_JECN	System log event number
(98)	CHARACTER	4	VSWA_SAVE_OPTC	Saved RPL option bytes
(9C)	ADDRESS	4	VSWASV12	TCA address
(A0)	ADDRESS	4	VSWA_FRTE	Address of related FRTE
(A4)	HALFWORD	2	VSWA_REQD_ STRINGS	Number of strings required for a request (LSR only)
(A6)	BITSTRING	1	*	
	1... ....		VSWA_REM	Need to release exclusive conflict resources.
	.1.. ....		VSWA_MASS_INSERT	Mass insert
	..1. ....		VSWA_ADD_DELETE	Single add or delete
	...1 ....		VSWALOCK	End of range id. is locked and must be released
	.... 1...		VSWA_ESDS_LOCK	ESDS WRITE lock held
	.... .1..		VSWA_UPDATE	Performing an update
	.... ..1.		VSWA_NONRECOV_ LOCK	
	.... ..1		*	Record lock held for duration of read update of non-recoverable file.
(A7)	BITSTRING	1	*	Reserved
	1... ....		VSWA_0890_POST	DFHFCVR is waiting for this request to complete. Set by DFHFCVR to indicate its interest in completion of request
	.1.. ....		VSWA_BACKWARDS	Backward browse
	..11 1111		*	Reserved
(A8)	ADDRESS	4	VSWA_DATA_BUFFER1	1st work-buffer address
(AC)	ADDRESS	4	VSWA_DATA_BUFFER2	2nd work-buffer address
(B0)	HALFWORD	2	VSWA_LAST_LEN	Last specified keylength
(B2)	HALFWORD	2	VSWA_LOG_LENGTH	Length for logging
(B4)	CHARACTER	*	VSWADBA	End of fixed part of VSWA

Reference key copy.

(B4)	CHARACTER	*	VSWAXKEY	Reference key
------	-----------	---	----------	---------------

Extension for base key copy.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	VSWAENID	Enqueue identifier
(0)	ADDRESS	4	VSWABCAD	Addr of base cluster block
(4)	CHARACTER	*	VSWABKEY	Primary key of record

## WBCDC Web interface converter parms

-

This copybook defines the parameter lists which are passed to the 2 functions (DECODE and ENCODE) of the user replaceable converter program.

-

The top level definition for dfhcommarea.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	DFHCOMMAREA	
(0)	CHARACTER	*	COMM_PARMLIST	

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The fields at the start of the converter commarea must be accessible independent of the converter function being called. These declarations provide a definition of the commarea in terms of these common fields.

< Variable >  
 Meaning

< converter\_ parms >  
 The high-level definition of the parameter area passed to the converter in the COMMAREA.

< converter\_ eyecatcher >  
 The eyecatcher used to determine that the converter COMMAREA is not corrupt. The value it takes varies depending on the converter function involved. The possible values are defined in the DFHWBUCx copybook.

< converter\_ function >  
 The value used to determine which converter function is involved on this call. Possible values are the constants DECODE, ENCODE.

< converter\_ response >  
 The fullword response value produced by a converter which has not been passed a valid converter\_ function value. The recommended response in this circumstance is URP\_INVALID.

< converter\_ reason >  
 The fullword reason value returned by a converter which has not been passed a valid converter\_ function value. No reason values are architected for this error situation in the CICS Web Browser Interface. Users may define their own values.

< converter\_ parmlist >  
 The rest of the parameters. The structure of this data varies depending on which converter function is involved.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	CONVERTER_PARMS	
(0)	CHARACTER	8	CONVERTER_ EYECATCHER	
(8)	CHARACTER	1	CONVERTER_ VERSION	
(9)	CHARACTER	1	CONVERTER_ VOLATILE	
(A)	HALFWORD	2	CONVERTER_ FUNCTION	
(C)	UNSIGNED	4	CONVERTER_ RESPONSE	
(10)	UNSIGNED	4	CONVERTER_ REASON	
(14)	CHARACTER	*	CONVERTER_ PARMLIST	

```
--
-
```

These declarations define the parameter list which is passed to the DECODE function of the user replaceable converter program. It is called by the server controller.

The variables in the decode parameter list are as follows:

< Variable >  
Meaning

< decode\_ eyecatcher > (input)

A character field to contain an eyecatcher to help with diagnostics and provide a sanity check for the Converter program if required. The Server Controller sets this to the value of constant DECODE\_ EYECATCHER\_ INIT before calling decode.

< decode\_ version > (input)

A single-character parameter-list version identifier. It will change whenever the layout of the parameter list changes. Possible values:  
Binary zero (X'00') -- pre-CICS/TS1.3 version parameter list  
Character zero (X'F0') -- CICS/TS1.3 version parameter list

< decode\_ volatile > (input)

A single-character code that indicates whether the data area pointed to by "decode\_ data\_ptr" can be replaced or not:  
'0' -- The area cannot be replaced: it is part of another commarea.  
'1' -- The storage pointed to by "decode\_ data\_ptr" can be freed and replaced by a different size workarea.

< decode\_ function > (input)

A halfword set to the constant value URP\_ DECODE . Set to indicate to the converter the function required.

< decode\_ response > (output)

The response value produced by decode. Possible values are:

- URP\_OK
- URP\_EXCEPTION
- URP\_INVALID
- URP\_DISASTER

< decode\_ reason > (output)

The reason for a response produced by decode. The architected values for EXCEPTION responses are:

- URP\_SECURITY\_FAILURE

Other values may be supplied and given user-defined meanings.

< decode\_ client\_ address > (input)

The IP address of the client.

< decode\_ client\_ address\_string > (input)

The IP address of the client in "ww.xx.yy.zz" format.

< decode\_ data\_ptr > (input / output)

On input a pointer to the HTTP request sent by the client. On loopback from the encode converter function, a pointer to the response data from encode\_data\_ptr.

```
#
#
#
```

< decode\_ method\_ptr > (input)

Pointer to the method specified on the HTTP request sent by the client.

< decode\_ http\_version\_ptr > (input)

Pointer to a string identifying the HTTP version supported by the client.

< decode\_ http\_resource\_ptr > (input)

Pointer to the CICS resource requested by the client. In HTTP terminology, this is the "absolute path" information in the HTTP request. Because CICS does not have any concept of "paths" or the hierarchical file systems on which paths rely, we have elected to use a term more appropriate to CICS in our documentation.

**APAR PQ29374**

changed parts (marked by revision bars) of this text.

```

< decode_ request_ header_ptr > (input)
    Pointer to the first HTTP header in the HTTP request. There are
    usually multiple HTTP headers for each HTTP request. Each header
    is delimited by a CR+LF. The end of the header information is
    delimited by a null header (that is, an additional CR+LF
    following
    final HTTP header).

< decode_ user_data_ptr > (input)
    A pointer to any user data for this HTTP request.

< decode_ method_ length > (input)
    Length of the method specified on the HTTP request sent by the
    client.

< decode_ http_version_ length > (input)
    Length of the string identifying the
    version of HTTP supported by the client.

< decode_ http_resource_ length > (input)
    Length of the string containing the
    HTTP header information for this HTTP request.
    This length includes the lengths of all the delimiting CR+LFs
    for all the headers, including the final CR+LF of the null header
    which signals the end of the headers.

< decode_ request_ header_length > (input)
    Length of the string identifying the
    CICS resource requested by supported by the client.

< decode_ user_data_ length > (input)
    Length of the user data.

# < decode_ input_data_ len > (input / output)
    The server input data length associated
    with the program processing the HTTP request. This is set to the
    default 32767, but can be overwritten in decode,
    possibly to reflect information contained in the client data.
    This length is used as INPUTDATALENGTH on the EXEC CICS LINK to
    the user program.

< decode_ output_data_len > (output)
    The server output data length associated
    with the program processing the HTTP request. This is set to the
    default 32767, but can be overwritten in decode,
    possibly to reflect information contained in the client data. It
    is the size of the output commarea.

< decode_ server_ program > (input / output)
    The CICS program invoked to process the incoming HTTP
    request. Initialised to the program name allocated by the ATTACH
    exit for the requested URL. The program name can be changed by
    the analyzer.

< decode_ user_token > (input / output)
    A token for use by users. Could for example identify
    any state data associated with this HTTP request.

# < decode_entry_count > (input only)
# A count of the number of times in the current Web request
# that the decode converter has been entered.
    
```

Offset	Type	Len	Name (Dim)	Description
#	Hex			
#				
#	(0)	STRUCTURE	104	DECODE_PARMS
	(0)	CHARACTER	8	DECODE_ EYECATCHER
	(8)	CHARACTER	1	DECODE_VERSION
	(9)	CHARACTER	1	DECODE_VOLATILE
	(A)	HALFWORD	2	DECODE_FUNCTION
	(C)	UNSIGNED	4	DECODE_RESPONSE
	(10)	UNSIGNED	4	DECODE_REASON
	(14)	UNSIGNED	4	DECODE_ CLIENT_ADDRESS

**Description**

**APAR PQ29374**

changed the length of the structure DECODE\_PARMS

Offset Hex	Type	Len	Name (Dim)	Description
(18)	CHARACTER	15	DECODE_CLIENT_ADDRESS_STRING	
(27)	CHARACTER	1	*	
(28)	ADDRESS	4	DECODE_DATA_PTR	
(2C)	ADDRESS	4	DECODE_METHOD_PTR	
(30)	ADDRESS	4	DECODE_HTTP_VERSION_PTR	
(34)	ADDRESS	4	DECODE_RESOURCE_PTR	
(38)	ADDRESS	4	DECODE_REQUEST_HEADER_PTR	
(3C)	ADDRESS	4	DECODE_USER_DATA_PTR	
(40)	HALFWORD	2	DECODE_METHOD_LENGTH	
(42)	HALFWORD	2	DECODE_HTTP_VERSION_LENGTH	
(44)	HALFWORD	2	DECODE_RESOURCE_LENGTH	
(46)	HALFWORD	2	DECODE_REQUEST_HEADER_LENGTH	
(48)	FULLWORD	4	DECODE_INPUT_DATA_LEN	
(4C)	HALFWORD	2	DECODE_USER_DATA_LENGTH	
(50)	FULLWORD	4	DECODE_OUTPUT_DATA_LEN	
(54)	CHARACTER	8	DECODE_SERVER_PROGRAM	
# (5C)	CHARACTER	8	DECODE_USER_TOKEN	
#				
#				
# (64)	FULLWORD	4	DECODE_ENTRY_COUNT	

**APAR PQ29374**  
 added DECODE\_ENTRY\_COUNT

```
--  
-  
  
These declarations define the parameter list which  
is passed to the ENCODE function of the user replaceable  
Converter program. It is called by the alias program  
if data mapping of the remote procedure's output is required.  
The parameter list is passed as a commarea from the alias.  
  
< Variable >  
Meaning  
  
< encode_ eyecatcher >  
A character field to contain an eyecatcher  
to help with diagnostics and provide a sanity check for  
the Converter program if required. The alias  
sets this to the value of constant ENCODE_ EYECATCHER_INIT  
before calling encode.  
  
< encode_ version > (input)  
A single-character parameter-list version identifier.  
It will change whenever the layout of the parameter list changes.  
Possible values:  
Binary zero (X'00') -- pre-CICS/TS1.3 version parameter list  
Character zero (X'F0') -- CICS/TS1.3 version parameter list  
  
< encode_ volatile > (input)  
A single-character code that indicates whether the data area  
pointed to by "encode_ data_ptr" can be replaced or not:  
'0' -- The area cannot be replaced: it is part of another  
commarea.  
'1' -- The storage pointed to by "encode_ data_ptr" can be freed  
and replaced by a different size workarea.  
  
< encode_ function > (input)  
A halfword set to the constant value URP_ ENCODE .  
This is set by the alias before linking to the converter  
program. It allows the converter to determine which function  
is being requested.  
  
< encode_ response > (output)  
The fullword response value produced by decode.  
Possible values are:  
  
- URP_OK  
- URP_EXCEPTION  
- URP_INVALID  
- URP_DISASTER  
- URP_OK_LOOP  
  
< encode_ reason > (output)  
The fullword reason value returned by encode for response  
values other than OK. No reason values are architected for  
encode in the CICS Web Browser Interface.  
Users may define their own values.  
  
< encode_ data_ptr > (input)  
A pointer reference to the storage area containing  
the output from the server program which is to be manipulated  
by the encode function  
  
< encode_ input_data_ len > (input)  
A fullword field indicating the length of the data to be  
encoded by the converter.  
  
< encode_ user_token > (input)  
A token for use by users. Could for example identify  
any state data associated with this HTTP request.  
  
< encode_ entry_count > (input)  
A count of the number of times in the current Web request  
that the encode converter has been entered.
```

**APAR PQ29374**

changed parts (marked by revision bars) of the text above.

Offset Hex	Type	Len	Name (Dim)	Description
				<b>APAR PQ29374</b> changed the length of the structure ENCODE_PARMS
# (0)	STRUCTURE	40	ENCODE_PARMS	
(0)	CHARACTER	8	ENCODE_EYECATCHER	
(8)	CHARACTER	1	ENCODE_VERSION	
(9)	CHARACTER	1	ENCODE_VOLATILE	
(A)	HALFWORD	2	ENCODE_FUNCTION	
(C)	UNSIGNED	4	ENCODE_RESPONSE	
(10)	UNSIGNED	4	ENCODE_REASON	
(14)	ADDRESS	4	ENCODE_DATA_PTR	
(18)	FULLWORD	4	ENCODE_	
			INPUT_DATA_LEN	
# (1C)	CHARACTER	8	ENCODE_USER_TOKEN	
#				<b>APAR PQ29374</b> added ENCODE_ENTRY_COUNT
# (24)	FULLWORD	4	ENCODE_ENTRY_COUNT	

---

## WBTDC Web interface analyzer parms



-

These declarations define the parameter list which is passed to the ANALYZER program by the server controller component on an EXEC CICS LINK.

< Variable >  
Meaning

< wbra\_eyecatcher >  
A character field to contain an eyecatcher to help with diagnostics and provide a sanity check for the analyzer. Server Controller sets this to the value of constant WBRA\_EYECATCHER\_INIT before calling the analyzer.

< wbra\_response > (output)  
The fullword response value produced by the analyzer.  
Possible values are:

- URP\_OK
- URP\_EXCEPTION
- URP\_INVALID
- URP\_DISASTER

< wbra\_reason > (output)  
The fullword reason value returned by the analyzer for response values other than OK. No reason values are architected for the analyzer in the CICS Web Browser Interface.  
Users may define their own values.

< wbra\_server\_program > (output)  
The CICS program to be used for this HTTP request.

< wbra\_converter\_program > (output)  
The converter to be used for this HTTP request.

< wbra\_userid > (output)  
The userid which is to be used on the EXEC CICS START for the alias transaction for this HTTP request.

< wbra\_alias\_tranid > (output)  
The alias transaction ID to be used for this HTTP request.

< wbra\_alias\_termid > (output)  
The termid to be used on the START request for the alias.

< wbra\_user\_token > (output)  
A char(8) token which uniquely identifies the HTTP request being processed.

< wbra\_dfhcnv\_key > (output)  
A char(8) name to be used as the key into the DFHCNV table for the codepage translation of the user data for this request.

< wbra\_client\_ip\_address > (input)  
The TCP/IP address of the client.

< wbra\_server\_ip\_address > (input)  
The TCP/IP address of the CICS system.

< wbra_resource_escaped_ptr > (input)				
@P7C				
Pointer to a copy of the HTTP headers which have not been unescaped				
< wbra_method_ptr > (input)				
Pointer to the method specified on the HTTP request sent by the client.				
< wbra_http_version_ptr > (input)				
Pointer to a string identifying the HTTP version supported by the client.				
< wbra_http_resource_ptr > (input)				
Pointer to the CICS resource requested by the client. In HTTP terminology, this is the "absolute path" information in the HTTP request. Because CICS does not have any concept of "paths" or the hierarchical file systems on which paths rely, we have elected to use a term more appropriate to CICS in our documentation.				
< wbra_request_header_ptr > (input)				
Pointer to the first HTTP header in the HTTP request. There are usually multiple HTTP headers for each HTTP request. Each header is delimited by a CR+LF. The end of the header information is delimited by a null header (that is, an additional CR+LF following final HTTP header).				
< wbra_user_data_ptr > (input)				
Pointer to the user data section of the input data. For a non-HTTP request this will point to the start of the received data.				
< wbra_method_length > (input)				
Length of the method specified on the HTTP request sent by the client.				
< wbra_http_version_length > (input)				
Length of the string identifying the version of HTTP supported by the client.				
< wbra_http_resource_length > (input)				
Length of the string containing the HTTP header information for this HTTP request.				
< wbra_request_header_length > (input)				
Length of the string identifying the CICS resource requested by supported by the client. This length includes the lengths of all the delimiting CR+LFs for all the headers, including the final CR+LF of the null header which signals the end of the headers.				
< wbra_user_data_length > (input output)				
@01C				
Length of the user data section of the input data. For a non-HTTP request this will be the length of the entire received block.				
< wbra_request_type > (input)				
A value indicating whether the request to be analyzed is HTTP or non-HTTP.				
< wbra_unescape > (output)				
@L9A				
A value indicating whether the user forms data is to be unescaped by CICS.				
@01A				
< wbra_content_length > (input)				
@01A				
Length of the user data section of the input data as specified in the <Content-Lenth> HTTP header.				
@01A				
-				
The top level definition for dfhcommarea.				

Offset	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	*	DFHCOMMAREA	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	CHARACTER	*	COMM_PARMLIST	

--

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	116	WBRA_PARMS	
(0)	CHARACTER	8	WBRA_EYECATCHER	Constant
(8)	UNSIGNED	4	WBRA_FUNCTION	Input
(C)	UNSIGNED	4	WBRA_RESPONSE	Output
(10)	UNSIGNED	4	WBRA_REASON	Output
(14)	CHARACTER	8	WBRA_SERVER_ PROGRAM	Output
(1C)	CHARACTER	8	WBRA_CONVERTER_ PROGRAM	Output
(24)	CHARACTER	8	WBRA_USERID	Output
(2C)	CHARACTER	4	WBRA_ALIAS_TRANID	Output
(30)	CHARACTER	4	WBRA_ALIAS_TERMID	Output
(34)	CHARACTER	8	WBRA_USER_TOKEN	Output
(3C)	CHARACTER	8	WBRA_DFHCNV_KEY	Output
(44)	UNSIGNED	4	WBRA_CLIENT_ IP_ADDRESS	Input
(48)	UNSIGNED	4	WBRA_SERVER_ IP_ADDRESS	Input
(4C)	ADDRESS	4	WBRA_RESOURCE_ ESCAPED_PTR	Input
(50)	ADDRESS	4	WBRA_METHOD_PTR	Input
(54)	ADDRESS	4	WBRA_HTTP_ VERSION_PTR	Input
(58)	ADDRESS	4	WBRA_RESOURCE_PTR	Input
(5C)	ADDRESS	4	WBRA_REQUEST_ HEADER_PTR	Input
(60)	ADDRESS	4	WBRA_USER_DATA_PTR	Input
(64)	HALFWORD	2	WBRA_METHOD_LENGTH	Input
(66)	HALFWORD	2	WBRA_HTTP_ VERSION_LENGTH	Input
(68)	HALFWORD	2	WBRA_RESOURCE_ LENGTH	Input
(6A)	HALFWORD	2	WBRA_REQUEST_ HEADER_LENGTH	Input
(6C)	HALFWORD	2	WBRA_USER_ DATA_LENGTH	Input
(6E)	UNSIGNED	1	WBRA_REQUEST_TYPE	In Output
(6F)	UNSIGNED	1	WBRA_UNESCAPE	Input
(70)	UNSIGNED	4	WBRA_CONTENT_LENGTH	Input

## WBTLCL Web interface template manager

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	56	DFHWTBL_ARG	
(0)	UNSIGNED	2	WBTL_VERSION_NO	
(2)	HALFWORD	2	WBTL_FUNCTION	
(4)	HALFWORD	2	WBTL_RESPONSE	
(6)	HALFWORD	2	WBTL_REASON	
(8)	CHARACTER	8	WBTL_CONNECT_TOKEN	
(10)	CHARACTER	8	WBTL_TEMPLATE_NAME	
(18)	CHARACTER	8	WBTL_TEMPLATE_	
			ABSTIME	
(20)	ADDRESS	4	WBTL_TEMPLATE_	
			BUFFER_PTR	
(24)	FULLWORD	4	WBTL_TEMPLATE_	
			BUFFER_LEN	
(28)	ADDRESS	4	WBTL_SYMBOL_LIST_PTR	
(2C)	FULLWORD	4	WBTL_SYMBOL_LIST_LEN	
(30)	ADDRESS	4	WBTL_HTML_BUFFER_PTR	
(34)	FULLWORD	4	WBTL_HTML_BUFFER_LEN	
(38)	CHARACTER		*	

### Constants

Len	Type	Value	Name	Description
2	DECIMAL	1	WBTL_BUILD_HTML_PAGE	
2	DECIMAL	2	WBTL_START_HTML_PAGE	
2	DECIMAL	3	WBTL_ADD_	
			HTML_SYMBOLS	
2	DECIMAL	4	WBTL_READ_	
			HTML_TEMPLATE	
2	DECIMAL	5	WBTL_ADD_	
			HTML_TEMPLATE	
2	DECIMAL	6	WBTL_END_HTML_PAGE	

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-  
The following is the value that should be specified in WBTL\_VERSION\_NO to show the level at which the calling module was compiled.

2	DECIMAL	0	WBTL_CURRENT_VERSION
2	DECIMAL	56	WBTL_PARAMETER_LEN

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-  
The following are the possible responses from the DFHWTBL program.

2	DECIMAL	0	WBTL_OK
2	DECIMAL	4	WBTL_EXCEPTION
2	DECIMAL	8	WBTL_INVALID
2	DECIMAL	12	WBTL_DISASTER

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-  
The following are the possible responses from the DFHWTBL program, if the returned reason is not OK.

2	DECIMAL	1	WBTL_INVALID_FUNCTION
2	DECIMAL	2	WBTL_INVALID_TOKEN
2	DECIMAL	3	WBTL_INVALID_
			SYMBOL_LIST
2	DECIMAL	4	WBTL_INVALID_
			BUFFER_PTR
2	DECIMAL	5	WBTL_FEATURE_INACTIVE
2	DECIMAL	6	WBTL_TEMPLATE_
			NOT_FOUND
2	DECIMAL	7	WBTL_TEMPLATE_
			TRUNCATED
2	DECIMAL	8	WBTL_PAGE_TRUNCATED
2	DECIMAL	9	WBTL_GETMAIN_ERROR
2	DECIMAL	10	WBTL_FREEMAIN_ERROR
2	DECIMAL	11	WBTL_INVALID_VERSION

## WCG XRF global control block

CONTROL BLOCK NAME = DFHWCGPS  
 DESCRIPTIVE NAME = CICS (XRF) Global Control Block  
 FUNCTION =  
     XRF surveillance/state management mechanism analogue of  
     the CICS CSA. A single instance of this block is created  
     at XRF SIGNON.  
 LIFETIME =  
     Created by XRF SIGNON and destroyed by SIGNOFF (NORMAL)  
 STORAGE CLASS =  
     Non-CICS storage. In MVS subpool 0 storage above 16M line.  
 LOCATION =  
     Located either via WCSGLBLA in the XRF Static storage  
     (DFHWCGSPS) addressed by SSZXRF in the SSA, or via  
     WXBGLBLA in the XRF process block in the case of  
     code running as an XRF process.  
 INNER CONTROL BLOCKS =  
     None.  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
     None.  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
     None  
 DATA AREAS =  
     None  
 CONTROL BLOCKS =  
     None  
 GLOBAL VARIABLES (Macro pass) =  
     None

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	144	DFHWCGPS	CAVM Global Control Block
(0)	CHARACTER	8	WCGIDENT	Eye Catcher XRF-GLBL
(8)	ADDRESS	4	WCGSTATA	CAVM Static Area address
(C)	ADDRESS	4	WCGCKDA	Pointer to TOD Clock Difference Data (BACKUP systems only)
(10)	ADDRESS	4	WCGNTA	Entry table for routines above 16M line.
(14)	ADDRESS	4	WCGXRFNT	Entry table for routines below 16M line (copy of CSAXRFNT in CSAOPFL).
(18)	ADDRESS	4	WCGDA	Process Management data
(1C)	ADDRESS	4	WCGFA	Status and State file data
(20)	ADDRESS	4	WCGMA	Message data
(24)	ADDRESS	4	WCGTRA	Trace control area
(28)	ADDRESS	4	WCGLFA	LIFO work area
(2C)	ADDRESS	4	WCGSA	Status control area
(30)	ADDRESS	4	WCGSXA	Surveillance exits control area
(34)	CHARACTER	8	WCGSAPPL	System's Specific APPLID
(3C)	CHARACTER	84	WCGCS	Common services area
(3C)	CHARACTER	72	WCGCSSVA	Common services save area
(84)	CHARACTER	12	WCGCSPRM	Common services parameter area.
(90)	CHARACTER		WCGEND	

Entry Table.  
 This is the definition of the list of entry points to XRF  
 modules located above the 16M line.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	32	WCGENTAB	
(0)	ADDRESS	4	WCGELGET	Entry to DFHWLGET
(4)	ADDRESS	4	WCGELFRE	DFHWLFRE
(8)	ADDRESS	4	WCGEDATT	DFHWDATT
(C)	ADDRESS	4	WCGEDWAT	DFHWDWAT
(10)	ADDRESS	4	WCGEMS20	DFHWMS20
(14)	ADDRESS	4	WCGETRP	DFHWTRP
(18)	ADDRESS	4	WCGEDISP	DFHWDISP
(1C)	ADDRESS	4	WCGECCS	DFHWCCS

Common service Interface  
 This defines the parameter area to be passed to the Common  
 Services routine DFHWCCS.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	DFHWCIPS	XRF Common Services parameter block
(0)	FULLWORD	4	WCIPID	Request Identifier
(4)	ADDRESS	4	WCIPSA	Storage area address
(4)	ADDRESS	4	WCIPCEBA	Address of ECB
(4)	ADDRESS	4	WCIPMSGA	Address of message
(4)	ADDRESS	4	WCIPXPBA	Address of XPB
(8)	FULLWORD	4	WCIPSL	Storage area length
(8)	FULLWORD	4	WCIPCOMP	POST completion code
(8)	ADDRESS	4	WCIPSAVA	Address of Save area
(8)	FULLWORD	4	WCIPABCD	ABEND code
(8)	BITSTRING	1	WCIPDOPT	Dump options
(9)	BITSTRING	1	WCIPSABC	System ABEND code
(A)	BITSTRING	1	WCIPUABC	User ABEND code

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	*	XRF Common Services parameter block
(0)	FULLWORD	4	*	Request Identifier
(4)	CHARACTER	8	WCIPCHAR	Character result
(4)	CHARACTER	4	WCIPHEX	Hex source

## Constants

Len	Type	Value	Name	Description
4	DECIMAL	0	WCINTER	Internal error detected
4	DECIMAL	1	WCIGETM	MVS GETMAIN for subpool 0 storage above 16M line.
4	DECIMAL	2	WCIFREEM	MVS FREEMAIN
4	DECIMAL	3	WCIPPOST	MVS Hand POST
4	DECIMAL	4	WCIXCONV	Convert hex to character
4	DECIMAL	5	WCIBLDPX	Build XPB for CICS TCB
4	DECIMAL	6	WCIBLDPX	Build XPB for XRF TCB
4	DECIMAL	7	WCIMSGAB	Message/ABEND

## WCS XRF CAVM static control block

CONTROL BLOCK NAME = DFHWCSDS  
 DESCRIPTIVE NAME = CICS (XRF) - CAVM Static Control Block  
 FUNCTION =  
 The CAVM Static Control Block provides a common anchor to enable CAVM State Management and Message Management functions to be invoked from code running in a CICS environment. It resides below the 16M line and includes the few items of CAVM data referenced by AMODE 24 routines. Each XRF system contains a single CAVM Static Control Block.  
 LIFETIME =  
 The CAVM Static Control Block is created by DFHWSSN1 at the beginning of SIGNON and destroyed by DFHWSRTR at the end of SIGNOFF.  
 STORAGE CLASS =  
 Non-CICS storage. In MVS subpool 0 below 16M line.  
 LOCATION =  
 Fields SSAXRF in the CICS SSA (DFHSSADS) and WCGSTATA in the CAVM Global Control Block (DFHWCGBS) both contain a pointer to the CAVM Static Control Block.  
 INNER CONTROL BLOCKS =  
 None.  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 None.  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
 None.  
 DATA AREAS =  
 None.  
 CONTROL BLOCKS =  
 None.  
 GLOBAL VARIABLES (Macro pass) =  
 None.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHWCSDS	CAVM Static Control Block
(0)	CHARACTER	8	WCSIDENT	Eye Catcher XRF-STAT
(8)	ADDRESS	4	WCSGLBLA	Pointer to CAVM Global Control Block
(C)	ADDRESS	4	WCXTCBP	Pointer to CAVM TCB
(10)	ADDRESS	4	WCSETECB	End of task ECB for CAVM TCB
(14)	BITSTRING	1	WCSSMRST	State Management record status
	.... ....		WCSSSOFN	"0" Signed off normally or did not sign on (must be zero)
	.... ..1		WCSSSON	"1" Signed on
	.... ..1		WCSSSOFA	"2" Signed off abnormally
	1... ..1		WCSSSNIP	"X'81" SIGNON in progress
	1111 1111		WCSSSFIP	"X'FF" SIGNOFF in progress
(15)	BITSTRING	1	WCSCSAVM	CAVM Services available mask
	1... ....		WCSSMMAV	"X'80" State and message management services are available
	.1. ....		WCSPUTAV	"X'40" Message management PUT is available
(16)	HALFWORD	2	WCSSOFML	Length of TAKEOVER message for ACTIVE job if it signs off during TAKEOVER
(18)	ADDRESS	4	WCSSOFMP	Pointer to TAKEOVER message for ACTIVE job
(1C)	ADDRESS	4	WCSTCECB	TAKEOVER response or SIGNON ECB
(20)	ADDRESS	4	WCSTXECB	TAKEOVER request ECB
(24)	ADDRESS	4	WCSTKVP	Pointer to TAKEOVER parameter area
(28)	HALFWORD	2	WCSRESP (0)	
(28)	SIGNED	1		Response code for CAVM request
(29)	SIGNED	1	WCSREASC	Reason code for CAVM request
(2A)	BITSTRING	1	WCSTKRID	TAKEOVER request ID
(2B)	CHARACTER	1	WCSSOFCD	SIGNOFF code (normal or abnormal)
	11.. ..1		WCSRSOFA	"C'A" Request for SIGNOFF ABNORMAL
	11.1 .1.1		WCSRSOFN	"C'N" Request for SIGNOFF NORMAL
(2C)	ADDRESS	4		Reserved
(30)	ADDRESS	4	WCSACSVC	Pointer to CSVC's SVC instruction in the CICS CSA
	..11 .1..		WCSL	""-DFHWCSDS"

Offset Hex	Type	Len	Name (Dim)	Description
(0)			WCSSENTAB	Entry point table for code below 16M
(0)	ADDRESS	4	WCSEMS	Message management services EPA
(4)	ADDRESS	4		Not used
(8)	ADDRESS	4		Not used

**WDG XRF process block**

CONTROL BLOCK NAME = DFHWDGSPS  
 DESCRIPTIVE NAME = CICS (XRF) Process Block  
 FUNCTION =  
 XRF process dispatcher control area.  
 There is a single instance of this control block in a CICS system which has successfully signed on to XRF. It contains state information for the XRF process dispatcher such as the currently dispatched process, head and tail of the chain of extant processes etc..

LIFETIME =  
 Created by INIT\_ATTACH (DFHWDINA) and destroyed when XRF TCB terminates.

STORAGE CLASS =  
 Non-CICS storage. MVS subpool 0 storage above 16M line.

LOCATION =  
 Address is in WCGDA in XRF Global area DFHWCGSPS.

INNER CONTROL BLOCKS =  
 WDG  
 Definition of internal dispatcher parameter block format.  
 WDGLOCKH  
 Lock hierarchy table (set up by DFHWDINA).

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
 DATA AREAS =  
 None  
 CONTROL BLOCKS =  
 None  
 GLOBAL VARIABLES (Macro pass) =  
 None  
 Fixed part of Dispatcher Global Area (in XRF Global area)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	120	DFHWDGSPS	Addressed from WS Global
(0)	CHARACTER	64	WDGEXTNL	This substructure contains data which are maintained across dispatcher calls
(0)	ADDRESS	4	WDGFXPB	First process in dispatch chain.
(4)	ADDRESS	4	WDGLXPB	Last process in dispatch chain.
(8)	ADDRESS	4	WDGCXPB	Currently dispatched process.
(C)	ADDRESS	4	WDGIAR13	Save slot for Reg 13 of issuer of INIT_ATTACH
(10)	ADDRESS	4	WDGESTA	ESTAE PARAM area
(14)	ADDRESS	4	WDGESPA	ESPIE PARAM area
(18)	ADDRESS	4	* (2)	Reserved
(20)	BITSTRING	4	WDGGLKSM	Granted locks mask
(24)	HALFWORD	2	WDGXPBNO	Last allocated process id
(26)	HALFWORD	2	*	Reserved
(28)	CHARACTER	24	WDGXPB	Space for the base part of a dummy XPB used by the dispatcher for tracing
(40)	CHARACTER	56	WDGLOCAL	This substructure contains data which are local to a single dispatcher call
(40)	BITSTRING	4	WDGLKACC	Lock table work area used by DFHWDINA.
(40)	BITSTRING	4	WDGLKTMP	Lock temporary used by DFHWDWAT.
(44)	HALFWORD	2	*	Reserved
(46)	HALFWORD	2	WDGWLL	Number items in WAIT list
(46)	HALFWORD	2	WDGLKI	Lock level counter
(48)	ADDRESS	4	WDGWL (12)	WAIT List
(78)	CHARACTER		WDGEND	End of fixed part of area

Dispatcher internal parameter block.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	WDGP	
(0)	FULLWORD	4	WDGPID	Request identifier
(4)	ADDRESS	4	WDGPEPRM	ESPIE/ESTAE parameter
(4)	ADDRESS	4	WDGPEDA	Error data - SDWA or EPIE
(8)	ADDRESS	4	WDGSPRPA	SRP Area address
(8)	ADDRESS	4	WDGPIDA	ATTACH initial data
(8)	ADDRESS	4	WDGPNPSW	New IA for retry PSW



## Constants

Len	Type	Value	Name	Description
4	DECIMAL	0	WDGPSINT	Initialize DFHWDSRP
4	DECIMAL	1	WDGPSTRM	Terminate DFHWDSRP
4	DECIMAL	2	WDGPSESP	ESPIE
4	DECIMAL	3	WDGPSEST	ESTAE
Lock and event record values				
4	HEX	00000000	WDGNOEVS	All events set OFF
4	HEX	FFFFFFFF	WDGALEVS	All events set ON
4	HEX	00000000	WDGNOLKS	All locks set OFF
4	HEX	FFFFFFFF	WDGALLKS	All locks set ON

## WDI XRF dispatcher interface

CONTROL BLOCK NAME = DFHWDSPS  
 DESCRIPTIVE NAME = CICS (XRF) Dispatcher interface  
 block definitions.

FUNCTION =  
 Defines interface to XRF dispatcher for ATTACH and WAIT.  
 Caller provides storage for an instance of the interface  
 block and sets parameters as required.

LIFETIME =  
 Duration of XRF dispatcher call.

STORAGE CLASS =  
 Caller's choice. Usually above 16M line.

LOCATION =  
 Passed to dispatcher as address in R1.

INNER CONTROL BLOCKS =  
 None

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 None

MODULE TYPE = Control block definition

EXTERNAL REFERENCES =

DATA AREAS =  
 None

CONTROL BLOCKS =  
 None

GLOBAL VARIABLES (Macro pass) =  
 None

ATTACH Request Parameter Block

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	28	DFHWDIPS	Addressed from WS Global
(0)	ADDRESS	4	WDIGA	WS Global address (for INITIAL_ATTACH call only)
(4)	ADDRESS	4	WDIEPA	Process entry address
(8)	ADDRESS	4	WDIIDA	Initial data address
(C)	ADDRESS	4	WDIESPIE	ESPIE exit addr.
(10)	ADDRESS	4	WDIESPDA	ESPIE parameter.
(14)	ADDRESS	4	WDIESTAE	ESTAE exit addr.
(18)	ADDRESS	4	WDIESTDA	ESTAE parameter.
(1C)	CHARACTER		WDIEND	

WAIT Request Parameter Block

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	32	DFHWDSPS	Addressed from WS Global
(0)	ADDRESS	4	WDSTYPE	Reserved - must be zero
(4)	ADDRESS	4	WDSEECBA	External event address
(8)	ADDRESS	4	WDSIECBA	Internal event address
(C)	BITSTRING	4	WDSWEVM	Awaited broadcast events
(10)	BITSTRING	4	WDSPEVM	Events to be broadcast
(14)	BITSTRING	4	WDSREVM	Broadcast events to reset for this process.
(18)	BITSTRING	4	WDSFLKM	Locks to be freed
(1C)	BITSTRING	4	WDSGLKM	Locks to be acquired
(20)	CHARACTER		WDSSEND	

### Constants

Len	Type	Value	Name	Description
4	DECIMAL	1	WDSBTICK	Timer cycle
4	DECIMAL	2	WDSBCHNG	Some change in partner status other than ones with specific events.
4	DECIMAL	3	WDSBSON	Partner has signed on
4	DECIMAL	4	WDSBSOF	Partner has signed off
4	DECIMAL	5	WDSBRV1	No longer used - reserved
4	DECIMAL	6	WDSBPASA	BACKUP public status now available.
4	DECIMAL	7	WDSBFASA	Final ACTIVE public status now available (during TAKEOVER)
4	DECIMAL	8	WDSBPRST	Please read ACTIVE's latest status
4	DECIMAL	9	WDSBSSR	Start Status Reader processes
4	DECIMAL	25	WDSBPWC1	Primary write complete - odd cycle.
4	DECIMAL	26	WDSBPWE1	Primary write completed with error - odd cycle.
4	DECIMAL	27	WDSBPWC2	Primary write complete - even cycle.
4	DECIMAL	28	WDSBPWE2	Primary write completed with error - even cycle.
4	DECIMAL	29	WDSBSWC1	Secondary write complete - odd cycle.
4	DECIMAL	30	WDSBSWE1	Secondary write completed with error - odd cycle.
4	DECIMAL	31	WDSBSWC2	Secondary write complete - even cycle.
4	DECIMAL	32	WDSBSWE2	Secondary write completed with error - even cycle.
Lock numbers				
4	DECIMAL	1	WDSLPTW	Primary status write lock
4	DECIMAL	2	WDSLSTW	Secondary status write lock

### WDL XRF LIFO workspace

```

CONTROL BLOCK NAME = DFHWLGPS
DESCRIPTIVE NAME = CICS (XRF) LIFO Workspace
FUNCTION =
  Workspace for XRF trace calls from LIFO and dispatcher
  services. Single instance.
LIFETIME =
  Created by XRF INITIAL ATTACH (DFHWDINA) and destroyed
  by XRF SIGNOFF.
STORAGE CLASS =
  Non-CICS storage above 16M line. Suballocated from XRF
  WS Global allocation created at XRF SIGNON.
LOCATION =
  Addressed by WCGLFA in DFHWCGPS
INNER CONTROL BLOCKS =
  WLGA Standards OS Register save area.
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS =
  None
MODULE TYPE = Control block definition
EXTERNAL REFERENCES =
DATA AREAS =
  None
CONTROL BLOCKS =
  DFHWTRPS. An instance of an XRF Trace parameter area
  is imbedded.
GLOBAL VARIABLES (Macro pass) =
  None
    
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	100	DFHWLGPS	Addressed from WS Global
(0)	CHARACTER	72	WLGSAVE	Standard OS Save Area
(48)	CHARACTER	28	WLGTRACE	Space for trace parameter block.
(64)	CHARACTER		WLGEND	

Standard OS Save Area

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	72	WLGA	Standard Save Area
(0)	ADDRESS	4	*	
(4)	ADDRESS	4	WLGABCN	backward chain
(8)	ADDRESS	4	WLGSAFCN	forward chain
(C)	CHARACTER	60	WLGSAFREG	Registers 14-12
(C)	ADDRESS	4	WLGAR14	R14

Offset Hex	Type	Len	Name (Dim)	Description
(10)	ADDRESS	4	WLGSAR15	R15
(14)	ADDRESS	4	WLGSAR00	R0
(18)	ADDRESS	4	WLGSAR01	R1
(1C)	ADDRESS	4	* (9)	R2 - R10
(40)	ADDRESS	4	WLGSAR11	R11
(44)	ADDRESS	4	WLGSAR12	R12

## WFG XRF CAVM file control block

CONTROL BLOCK NAME = DFHWFGDS  
 DESCRIPTIVE NAME = CICS (XRF) - CAVM File Control Block  
 FUNCTION =  
 The CAVM File Control Block contains data relating to the CAVM Control data set and Message data set such as ACB pointers, CI size, RBAs of certain records and a pointer to the RESERVE parameter list used to serialise accesses to the Control data set during SIGNON, SIGNOFF and TAKEOVER. Each XRF system contains a single CAVM File Control Block.  
 LIFETIME =  
 The CAVM File Control Block is created by DFHWSSN3 during CAVM SIGNON.  
 STORAGE CLASS =  
 Non-CICS storage. MVS subpool 0 above 16M line.  
 LOCATION =  
 Field WCGFA in the CAVM Global Control Block (DFHWCGDS) contains a pointer to the CAVM File Control Block.  
 INNER CONTROL BLOCKS =  
 None.  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 None.  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
 None.  
 DATA AREAS =  
 None.  
 CONTROL BLOCKS =  
 None.  
 GLOBAL VARIABLES (Macro pass) =  
 None.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHWFGDS	CAVM File Control Block
(0)	ADDRESS	4	WFGPACB	Pointer to Message File ACB
(4)	ADDRESS	4	WFGSACB	Pointer to Control File ACB
(8)	FULLWORD	4	WFGCISIZ	Control interval size of both files
(C)	FULLWORD	4	WFGHARBA	High allocated RBA of Message File
(10)	FULLWORD	4	WFGHORBA	Lowest RBA available for use by Message Management in Message File
(14)	FULLWORD	4	WFGHURBA	High used RBA of Message File
(18)	FULLWORD	4	WFGRPLLN	Length of an RPL
(1C)	FULLWORD	4	WFGSMRBA	RBA of State Management Record in Control File
(20)	FULLWORD	4	WFGSRBA	RBA of ACTIVE's status CI in either file
(24)	ADDRESS	4	WFGRSVPP	Pointer to RESERVE parameter list
..1. 1...			WFGL	"*-DFHWFGDS"

## WMG XRF message manager global area

CONTROL BLOCK NAME = DFHWMGPS  
 DESCRIPTIVE NAME = CICS (XRF) Message manager global area  
 FUNCTION =  
 Anchor for all XRF message management control information.  
 There is a single instance of this block.  
 LIFETIME =  
 Created by DFHWM1 when it is called as part of the XRF  
 SIGNON process. It then remains for the life of the CICS  
 system.  
 STORAGE CLASS =  
 Non-CICS storage. Usually above the 16M line.  
 LOCATION =  
 Addressed by WCGMA in XRF Global area.  
 INNER CONTROL BLOCKS =  
 WMGPUT Control area specific to PUTMSG processing.  
 A single instance created by DFHWMP1 when called  
 during SIGNON by DFHWM1, and addressed by WMGPUTA  
 in DFHWMGPS. It contains, among other things, the  
 PUTMSG work queue anchor for the queued request  
 interface between XRF server and CICS user TCBs.  
 WMGGET Control area specific to GETMSG processing.  
 A single instance created by DFHWMG1 when called  
 during SIGNON by DFHWM1, and addressed by WMGGETA  
 in DFHWMGPS. It contains, among other things, the  
 hash table which is contains anchors for chains  
 of message queue anchor blocks (DFHWMMP5).  
 WMGRQR Control area specific to PUTREQ/PUTRSP processing.  
 A single instance created by DFHWMR1 when called  
 during SIGNON by DFHWM1, and addressed by WMGRQRA  
 in DFHWMGPS. It contains, among other things, the  
 PUTREQ and PUTRSP anchors for the queued request  
 between the XRF server and CICS user TCBs.

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
 DATA AREAS =  
 None  
 CONTROL BLOCKS =  
 None  
 GLOBAL VARIABLES (Macro pass) =  
 None  
 Message Manager Global Area (in XRF Global area)  
 Common area

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	40	DFHWMGPS	Addressed from WS Global
(0)	CHARACTER	40	WMGCOMM	Common data
(0)	ADDRESS	4	WMGCFCB	Free 1K block chain
(4)	ADDRESS	4	WMGCFMQE	Free message queue element chain
(8)	BITSTRING	1	WMGCFLG1	Flags
	1... ....		WMGCFMOV	Moving data
	.111 1111		*	Reserved
(9)	CHARACTER	3	*	Reserved
(C)	ADDRESS	4	WMGPUTA	Address of PUTMSG area
(10)	ADDRESS	4	WMGGETA	Address of GETMSG area
(14)	ADDRESS	4	WMGRQRA	Address of RQR area
(18)	ADDRESS	4	WMGPMECB	PUTMSG Start ECB
(1C)	ADDRESS	4	WMGCWAIT	Work element waiting for MQS to post it.
(20)	ADDRESS	4	WMGCPOST	Work element MQS is about to post.
(24)	FULLWORD	4	WMGCINST	Current ACTIVE message source instance number.
(28)	CHARACTER		*	

PUTMSG area

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	40	WMGPUT	PUTMSG data
(0)	CHARACTER	16	WMGPUTQ	PUTMSG request queue anchor area.
(10)	ADDRESS	4	WMGPMTA	Message transmission state data.
(14)	CHARACTER	12	WMGPID	Initial parameters for PUTMSG process
(20)	ADDRESS	4	* (2)	Reserved

Offset Hex	Type	Len	Name (Dim)	Description
(28)	CHARACTER		WMGPEND	End of fixed part
(0)	STRUCTURE	4	WMGPB (*)	Alternate specific data for PUT process.
(0)	UNSIGNED	4	WMGPCLCK	Start time for rejection of non-crucial messages.

GETMSG area

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	52	WMGGET	GETMSG data
(0)	ADDRESS	4	WMGGMTA	Message transmission state data.
(4)	ADDRESS	4	*	Reserved
(8)	BITSTRING	1	*	Flags
	1... ..		WMGGFASA	Final ACTIVE status seen
	.111 1111		*	Reserved
(9)	UNSIGNED	1	*	Reserved
(A)	CHARACTER	2	WMGGRESP	Response data - like WMSRESP.
(C)	CHARACTER	12	WMGGID	Initial parameters for GETMSG process
(18)	ADDRESS	4	WMGGHA	Address of hash table
(1C)	FULLWORD	4	WMGGINDX	BACKUP index number
(20)	FULLWORD	4	WMGGINST	BACKUP instance number
(24)	ADDRESS	4	WMGGWAIT	Queue anchor waiting for MQH to post it.
(28)	ADDRESS	4	WMGGPOST	Queue anchor MQH is about to post.
(2C)	ADDRESS	4	*	Reserved
(30)	ADDRESS	4	*	Reserved

Hash table for message queue anchor chains.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	WMGGH	
(0)	FULLWORD	4	WMGGHTNM	Number of entries in hash table.
(4)	ADDRESS	4	WMGGHT (1)	Hash table entry array
	1... ..		WMGGHTCL	'Closed' indicator

PUTREQ, PUTRSP area

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	WMGRQR	PUTREQ, PUTRSP data
(0)	CHARACTER	16	WMGREQQ	PUTREQ request queue anchor area.
(10)	CHARACTER	16	WMGRSPQ	PUTRSP request queue anchor area.
(20)	HALFWORD	2	WMGRMINC	Minimum source channel - 0 for BACKUP, 1 for ACTIVE
(22)	HALFWORD	2	WMGRMAXC	Maximum source channel - 0 for BACKUP, WSAGBN for ACTIVE.
(24)	CHARACTER	12	WMGRID (3)	Initial parameters for PUTREQ, PUTRSP and RECEIVE
(48)	CHARACTER	8	WMGRIVN	Target of last PUTREQ
(48)	FULLWORD	4	WMGRINST	Instance number
(4C)	FULLWORD	4	WMGRVERN	Version Number
(50)	CHARACTER		WMGREND	
(50)	CHARACTER	4	WMGRQA (*)	Channel status array
(0)	STRUCTURE	4	WMGRQ	Status of channel with individual partner
(0)	UNSIGNED	1	WMGRQIST	Inbound State
(1)	UNSIGNED	1	WMGRQOST	Outbound State
(2)	HALFWORD	2	*	Reserved

Request Queue Anchor Block

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	WMGQANCH	Addressed from message manager global area.
(0)	ADDRESS	4	WMGQFRST	Address of first (newest) entry in request chain.
	1... ..		WMGQCLSD	Service is closed
(4)	ADDRESS	4	WMGQLAST	Address of last (oldest) entry in request chain.
(4)	CHARACTER	2	*	
(6)	CHARACTER	2	WMGQRESP	Termination response like WMSRESP.
(8)	ADDRESS	4	WMGQECB	MVS ECB posted by issuer of request.
(C)	ADDRESS	4	WMGQSEL	Address of latest entry selected for processing

## Constants

Len	Type	Value	Name	Description
2	DECIMAL	1	WMGGHTN	Number of entries in hash table.
Constants for WMGRQIST/WMGRQOST				
1	DECIMAL	0	WMGRQNTR	No traffic
1	DECIMAL	1	WMGRQRSP	Response pending
Constants for setting WMGQCLSD and WMGGHTCL				
4	HEX	80000000	WMGQCLON	
4	HEX	7FFFFFFF	WMGQCLOF	

## WMI XRF internal interface block

CONTROL BLOCK NAME = DFHWMIPS  
 DESCRIPTIVE NAME = CICS (XRF) Internal interface block  
 FUNCTION =  
 Defines a three word parameter block which is used throughout XRF message management as the interface between the various modules of which it is composed. The block has many different overlays depending on the function being invoked. However, excepting the special case of the call from DFHWMS, the first word, WMIPID, always a function code. The function code values are named WMIxxyy where xx is the module supporting the function (DFHWMxx) and yyy is the specific function requested.

LIFETIME =  
 Created by caller of a routine and lasts for duration of call.

STORAGE CLASS =  
 User choice. Usually in storage above the 16M line.

LOCATION =  
 Conventionally addressed by R1 when passed to callee.

INNER CONTROL BLOCKS =  
 None

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 None

MODULE TYPE = Control block definition

EXTERNAL REFERENCES =

DATA AREAS =  
 None

CONTROL BLOCKS =  
 None

GLOBAL VARIABLES (Macro pass) =  
 None

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	DFHWMIPS	XRF Message manager parameter block
(0)	FULLWORD	4	WMIPID	Request Identifier
(0)	CHARACTER	2	*	
(2)	CHARACTER	2	WMIPRESP	Response (like WMSRESP)
(4)	ADDRESS	4	WMIPWQE	Work queue element addr
(4)	ADDRESS	4	WMIPRB	User Request block addr
(4)	ADDRESS	4	WMIPCCA	CI Control area address
(4)	CHARACTER	2	*	
(6)	CHARACTER	2	WMIPTRSP	Termination response
(8)	ADDRESS	4	WMIPQA	Work queue anchor addr
(8)	ADDRESS	4	WMIPTGT	Target for message copy
(8)	FULLWORD	4	WMIPOPTC	RPL type (PUT or GET)
(8)	CHARACTER	4	WMIPQNAM	Message queue name

Offset Hex	Type	Len	Name (Dim)	Description
(8)	CHARACTER	2	*	
(A)	CHARACTER	2	WMIPCRSP	Completion response

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	*	Parameter block
(0)	FULLWORD	4	*	Request Identifier
(4)	ADDRESS	4	WMIPEPA	EPIE/SDWA
(8)	ADDRESS	4	WMIPIIDA	Initial data of process
(8)	ADDRESS	4	WMIPNPSW	New PSW for ESPIE return

## Constants

Len	Type	Value	Name	Description
4	DECIMAL	0	WMIG1INT	Initialize
4	DECIMAL	1	WMIG1GET	GETMSG process
4	DECIMAL	2	WMIG1EST	ESTAE exit
Request IDs for DFHWMMT				
4	DECIMAL	1	WMIMTBLD	Build CI areas
4	DECIMAL	2	WMIMTPUT	Issue VSAM PUT
4	DECIMAL	3	WMIMTGET	Issue VSAM GET
4	DECIMAL	4	WMIMTFMT	Format message dataset
Request IDs for DFHWMPG				
4	DECIMAL	1	WMIPGWRT	Copy data to target
4	DECIMAL	2	WMIPGESP	Program check has occurred
Request IDs for DFHWMP1				
4	DECIMAL	0	WMIP1INT	Initialize
4	DECIMAL	1	WMIP1PUT	PUTMSG process
4	DECIMAL	2	WMIP1EST	ESTAE exit
4	DECIMAL	3	WMIP1ESP	ESPIE exit
Request IDs for DFHWMQH				
4	DECIMAL	0	WMIQHINT	Initialize
4	DECIMAL	1	WMIQHENQ	Place message on queue
4	DECIMAL	2	WMIQHLOC	Locate/Create queue anchor
4	DECIMAL	3	WMIQHTRM	Terminate
Request IDs for DFHWMQS				
4	DECIMAL	1	WMIQSGN	Get next queue element
4	DECIMAL	2	WMIQSCMP	Complete request
4	DECIMAL	3	WMIQSCMB	Complete batch of requests
4	DECIMAL	4	WMIQSTRM	Close down queue and post any remaining requests.
Request IDs for DFHWMRD				
4	DECIMAL	0	WMIRDINT	Initialize
4	DECIMAL	1	WMIRDGET	Read message
Request IDs for DFHWMR1				
4	DECIMAL	0	WMIR1INT	Initialize
4	DECIMAL	1	WMIR1REQ	PUTREQ process
4	DECIMAL	2	WMIR1RSP	PUTRSP process
4	DECIMAL	3	WMIR1RCV	RECEIVE process
4	DECIMAL	4	WMIR1ESP	ESPIE exit
4	DECIMAL	5	WMIR1EST	ESTAE exit
Request IDs for DFHWMRW				
4	DECIMAL	0	WMIWRINT	Initialize
4	DECIMAL	1	WMIWRPUT	Write message
4	DECIMAL	2	WMIWRHDN	Harden messages

## WMM XRF message queue anchor block

CONTROL BLOCK NAME = DFHWMMPMS  
 DESCRIPTIVE NAME = CICS (XRF) Message queue anchor block  
 FUNCTION =  
 Anchor for chain of in core message elements built by the XRF GETMSG process.  
 An instance of this block is created for each distinct message queue name for which either the reader process retrieves messages from the message dataset, or for which GETMSG requests are issued by the CICS TCB.  
 Each such block serves as an anchor for the chain of messages yet to be read, and contains the ECB on which a CICS transaction will wait if it issues a GETMSG for a queue with no messages pending.

LIFETIME =  
 Created by either the XRF message reader process under the XRF TCB, or by GETMSG under the CICS TCB, at the first appearance of a message queue name.  
 Destroyed when the BACKUP either signs off, or takes over. This is done only under the CICS TCB at a time when it is known that no other CICS transactions have references to the block or anything depending on it.

STORAGE CLASS =  
 Non-CICS storage. Usually in MVS subpool 0 storage above 16M line.

LOCATION =  
 The anchor blocks are formed into hash chains using WMMAHASH as chain field and WMGGHT (in DFHWMGPS) as hash table.

INNER CONTROL BLOCKS =  
 WMME is the message queue element description. These blocks form chains from the message anchor blocks and contain the individual messages waiting to be read. They are created by the reader process when it reads a message, and destroyed by GETMSG when the message has been delivered.

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
 DATA AREAS =  
 None  
 CONTROL BLOCKS =  
 None  
 GLOBAL VARIABLES (Macro pass) =  
 None  
 Message Manager Message Queue Anchor Block

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	24	DFHWMMPMS	
(0)	ADDRESS	4	WMMANEXT	Address of next anchor block (first in chain is addressed from hash table in GETMSG global area).
(4)	CHARACTER	4	WMMAQNAM	Queue name.
(8)	ADDRESS	4	WMMAFRST	First element in message chain for this queue.
(C)	ADDRESS	4	WMMALAST	Last element in message chain for this queue.
(10)	HALFWORD	2	WMMAHASH	Hash table index
(12)	BITSTRING	2	*	
	1... ....		WMMAEOD	Flag set by reader process if EOD/SIGNOFF or an error occurs.
(12)	BITSTRING	1	*	Reserved
(14)	ADDRESS	4	WMMAECEB	ECB posted at 'End-of-data or whenever this queue becomes non-empty.
	1... ....		*	
	.1.. ....		WMMAPOST	POST bit in ECB
(14)	BITSTRING	3	*	
(18)	CHARACTER		WMMAEND	

Message Queue Element

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	WMME	
(0)	CHARACTER	8	WMMECTL	Control part of element
(0)	ADDRESS	4	WMMEOLDR	Next older element
(4)	ADDRESS	4	WMMESEWR	Next newer element



Offset Hex	Type	Len	Name (Dim)	Description
(8)	CHARACTER		WMMEDATA	Start of message data. This contains a copy of whole of the record read from the message dataset. See DFHWMRPS for format.

## WMQ XRF message request queue

CONTROL BLOCK NAME = DFHWMQPS
DESCRIPTIVE NAME = CICS (XRF) Message request queue work element.
FUNCTION = Represents an XRF message manager request - PUTMSG, PUTREQ, or PUTRSP.
LIFETIME = Created by DFHWMQP in response to a message manager PUT request when the queue of free work elements (WMGCFMQE) is empty. Never destroyed.
STORAGE CLASS = Non-CICS storage, in MVS subpool 0 above 16M line, plus an 8 byte allocation in the CICS SHARED subpool for an ECB (KCP can handle only ECBs below the 16M line).
LOCATION = Chained from one of the message manager request service queue anchors (WMGPUTQ, WMGREQQ, WMGRSPQ) or from the free element head WMGCFMQE.
INNER CONTROL BLOCKS = None
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS = None
MODULE TYPE = Control block definition
EXTERNAL REFERENCES =
DATA AREAS = None
CONTROL BLOCKS = None
GLOBAL VARIABLES (Macro pass) = None
Message Manager Request Queue Element.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	48	DFHWMQPS	Control part of element
(0)	CHARACTER	24	WMQECTL	Next older element
(0)	ADDRESS	4	WMQEOLDR	Next newer element
(4)	ADDRESS	4	WMQENEWR	Reserved
(8)	ADDRESS	4	*	Queue anchor address
(C)	ADDRESS	4	WMQECAA	ECB on which requesting CICS Xaction will wait.
(10)	ADDRESS	4	WMQEECB	*
			1... ..	
			.1.. ..	WMQEPOST
(10)	BITSTRING	3	*	POST bit in ECB
(14)	BITSTRING	4	WMQECSWD	This field is subject of a CS instruction and is described by WMQECS.
(18)	CHARACTER	24	WMQEPARM	Copy of request parameter block.
(30)	CHARACTER		WMQEEND	

Overlay for word containing 'cancelled' and 'about to post' flags (WMQECSWD).

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	6	WMQECS	This field is subject of a CS instruction.
(0)	BITSTRING	2	WMQEFLGS	About-to-post
			1... ..	WMQEFATP
			.1.. ..	WMQEFCAN
(2)	BITSTRING	1	*	Reserved
(3)	BITSTRING	2	*	Reserved

Block chain. Chain of free 4K blocks used by DFHWMS10 as XPBs.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	WMQB	
(0)	ADDRESS	4	WMQBNEXT	Address of next free block

## WMR XRF message record

CONTROL BLOCK NAME = DFHWMRPS  
 DESCRIPTIVE NAME = CICS (XRF) Message Record  
 FUNCTION =  
 Defines the format of an XRF Message Management message record.  
 Message records do not exist as independent control blocks in their own right. The definition here is of the message record component of other structures. Such components exist as records within the XRF status VSAM dataset, as the data part of in-core message blocks (WMME) created by the XRF reader process, and as the message part of the report data in a status CI (WSAR).  
 Message records contain the data which are transmitted between ACTIVE and BACKUP systems by means of the PUTMSG, GETMSG, PUTREQ and PUTRSP message manager requests.  
 LIFETIME =  
 Same as containing structure.  
 STORAGE CLASS =  
 Same as containing structure.  
 LOCATION =  
 Same as containing structure.  
 INNER CONTROL BLOCKS =  
 WMRCR Format of control record which is the first in each message dataset CI.  
 WMRCIDF Defines the format of a VSAM CIDF  
 WMRRDF Defines the format of a VSAM RDF  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
 DATA AREAS =  
 None  
 CONTROL BLOCKS =  
 None  
 GLOBAL VARIABLES (Macro pass) =  
 None  
 Message Data Record

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	DFHWMRPS	
(0)	UNSIGNED	1	WMRTYPE	Record type
(1)	BITSTRING	1	WMRRFLGS	Reserved
(2)	HALFWORD	2	WMRDATLN	Message data length i.e. number of bytes in record following WMREND
(4)	FULLWORD	4	WMRSEQNO	Message sequence number
(8)	CHARACTER	8	WMRIVN	Instance and version/queue
(8)	FULLWORD	4	WMRINSTN	Applicable instance number
(C)	FULLWORD	4	WMRVERSN	Version number
(C)	CHARACTER	4	WMRQNAME	Queue name
(10)	CHARACTER		WMREND	Start of message data

Message Control Record

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	WMRCR	
(0)	BITSTRING	1	*	Record type - WMRTCNO
(1)	CHARACTER	3	*	Reserved
(4)	FULLWORD	4	WMRCRCNO	Message cycle number
(8)	CHARACTER		WMRCREND	

VSAM CIDF Format

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	WMRCIDF	
(0)	HALFWORD	2	WMRCIDFO	Offset of start of unused space in this CI.
(2)	HALFWORD	2	WMRCIDFL	Length of unused space in this CI.

VSAM RDF Format

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	3	WMRRDF	Cancel data passed to KCP at WAIT.
(0)	BITSTRING	1	WMRRDFF	Flags - always zero in the subset used by XRF message manager.
(1)	HALFWORD	2	WMRRDFL	Length of record which corresponds to this RDF.

### Constants

Len	Type	Value	Name	Description
1	DECIMAL	0	WMRTDATA	Message record
1	DECIMAL	1	WMRTCNO	Control record

## WMS XRF message manager request

CONTROL BLOCK NAME = DFHWMSPS  
 DESCRIPTIVE NAME = CICS (XRF) Message manager request interface block.

FUNCTION =  
 Defines the format of the parameter block passed by the user of XRF message services.  
 Since the user's parameter block is usually copied into a work queue element the definition of such an element, DFHWMQPS, includes an area to which this definition applies.

LIFETIME =  
 Created by caller of message services and lasts for the duration of the processing of the request.

STORAGE CLASS =  
 User choice.

LOCATION =  
 Usually in caller's LIFO.

INNER CONTROL BLOCKS =  
 None

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 None

MODULE TYPE = Control block definition

EXTERNAL REFERENCES =  
 DATA AREAS =  
 None

CONTROL BLOCKS =  
 None

GLOBAL VARIABLES (Macro pass) =  
 None

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	24	DFHWMSPS	XRF Message manager parameter block
(0)	FULLWORD	4	WMSREQID	Request Identifier
(4)	BITSTRING	1	WMSRQFL1	Request flag byte 1
	1... ..		WMSCRUCL	CRUCIAL Message (PUTMSG)
	.111 1111		*	Reserved
(5)	BITSTRING	1	WMSRQFL2	Request flag byte 2
	1... ..		WMSFORCE	Harden message before returning (PUTMSG)
	.111 1111		*	Reserved

Offset Hex	Type	Len	Name (Dim)	Description
(6)	CHARACTER	2	WMSRC	Response field
(8)	ADDRESS	4	WMSDATAD	Data area address
(C)	HALFWORD	2	WMSDATSZ	Size of data area
(E)	HALFWORD	2	WMSDATLN	Data length
(10)	CHARACTER	8	WMSIVN	Instance and version/queue
(10)	FULLWORD	4	WMSINSTN	Instance number
(14)	FULLWORD	4	WMSVERSN	Version no (PUTREQ,PUTRSP)
(14)	CHARACTER	4	WMSQNAME	Queue name (GETMSG,PUTMSG)
(18)	CHARACTER		WMSSEND	

Response field
----------------

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	2	WMSRESP	Response
(0)	UNSIGNED	1	WMSRETC	Return code
(1)	UNSIGNED	1	WMSREASN	Reason code

### Constants

Len	Type	Value	Name	Description
4	DECIMAL	1	WMSPMSG	PUTMSG
4	DECIMAL	2	WMSGMSG	GETMSG
4	DECIMAL	3	WMSPREQ	PUTREQ
4	DECIMAL	4	WMSPRSP	PUTRSP
Return Codes (WMSRETC) definitions				
1	DECIMAL	0	WMSNORML	Normal
1	DECIMAL	4	WMSEXCPN	Exception
1	DECIMAL	8	WMSFAIL	Failed
Reason Codes (WMSREASN) definitions If WMSRETC = WMSEXCP				
1	DECIMAL	1	WMSNOXRF	XRF not active
1	DECIMAL	2	WMSEOD	End of data. We are about to take over. The active will send no more records.
1	DECIMAL	3	WMSGNOF	Backup has SIGNED OFF from XRF. No more records will be presented.
If WMSRETC = WMSFAIL				
1	DECIMAL	1	WMSINVRC	Invalid request code
1	DECIMAL	2	WMSCLOSD	Service closed
1	DECIMAL	3	WMSCANCL	Task cancelled
1	DECIMAL	4	WMSDLERR	Data length error. Either too large or -ve.
1	DECIMAL	5	WMSOVLAP	ACTIVE reject non-crucial message rather than risk damaging a BACKUP. BACKUP lapped by ACTIVE message writer.
1	DECIMAL	6	WMSNODST	No SIGNED-ON destination exists for this message
1	DECIMAL	7	WMSBUSY	Message queue busy
1	DECIMAL	8	WMSCHECK	Program check while copying message data.
1	DECIMAL	9	WMSABEND	XRF TCB Abend
1	DECIMAL	10	WMSIOER	Message dataset I/O error
1	DECIMAL	11	WMSFMTER	Message dataset format error.
1	DECIMAL	12	WMSSEQER	Message dataset sequence number error.
1	DECIMAL	13	WMSNACTV	System not ACTIVE yet

## WMT XRF message manager message

CONTROL BLOCK NAME = DFHWMTPS  
 DESCRIPTIVE NAME = CICS (XRF) Message manager message  
 transmission control.

FUNCTION =  
 Contains an RPL for issuing VSAM requests against a particular CI buffer, and data representing the state of that buffer.  
 XRF message management builds these blocks to control the reading and writing of CIs in the message dataset. Each instance represents a single buffer. At present, with single buffering, only a single instance each exists for the PUTMSG and GETMSG processes.

LIFETIME =  
 Created by DFHWMT when called during the initialization of the GETMSG or PUTMSG process. Lasts for the lifetime of the process.

STORAGE CLASS =  
 Non-CICS storage. MVS GETMAIN above 16M line.

LOCATION =  
 Addressed by WMTPCCCA or WMTGCCA.

INNER CONTROL BLOCKS =  
 WMTPUTMSG transmission control area. Addressed by WMGPMTA. Contains data controlling the position reached in writing to the message dataset.  
 WMTGETMSG transmission control area. Addressed by WMGGMTA. Contains data controlling the position reached in reading the message dataset.

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
 DATA AREAS =  
 None  
 CONTROL BLOCKS =  
 None  
 GLOBAL VARIABLES (Macro pass) =  
 None  
 CI Control Area

Offset	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	168	DFHWMTPS	
(0)	ADDRESS	4	*	Reserved for chain ptr
(4)	BITSTRING	1	WMT CFLGS	Flags
			WMT CFCHG	CI has been changed
			WMT CFSAF	CI can be written without impacting any backup.
			WMT CFUWM	CI contains unwritten complete messages.
(5)	CHARACTER	3	WMT CFDBK	VSAM feedback data copied from RPL.
(5)	UNSIGNED	1	WMT CRTNC	VSAM return code
(6)	UNSIGNED	1	*	VSAM component code
(7)	UNSIGNED	1	WMT CRSNC	VSAM reason code
(8)	ADDRESS	4	WMT CBUFA	Address of CI buffer
(C)	ADDRESS	4	WMT CIDFA	Address of CIDF in buffer
(10)	ADDRESS	4	WMT CECEB	ECB for VSAM to post
(14)	UNSIGNED	4	WMT CRBA	RBA argument for VSAM requests.
(18)	ADDRESS	4	WMT CWQEF	Address of queue element of most recent record in CI which specified FORCE
(18)	ADDRESS	4	WMT CRDFA	Address of last used RDF
(1C)	HALFWORD	2	WMT COFF	Offset of end of last complete message record in CI - 0 if none.
(1E)	HALFWORD	2	WMT CICL	Length of CI control area
(20)	FULLWORD	4	WMT CCNO	Cycle to which CI belongs
(24)	CHARACTER	128	WMT CMSGA	VSAM request message area
(A8)	CHARACTER		WMT CRPL	End of fixed part. Start of associated RPL.

PUTMSG Transmission control data

Offset	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	24	WMT P	
(0)	CHARACTER	8	WMT PAWC	Active write cursor of end of latest complete message
(0)	FULLWORD	4	WMT PWCNO	Active write cycle number
(4)	UNSIGNED	4	WMT PWRBA	Active write RBA
(8)	FULLWORD	4	WMT PSEQN	Message sequence number
(C)	ADDRESS	4	WMT PCCA	Current CI control area

Offset Hex	Type	Len	Name (Dim)	Description
(10)	FULLWORD	4	WMTGCCNO	Current write cycle number
(14)	BITSTRING	2	WMTGFLGS	
	1... ..		WMTGFMV	Moving user data
	.1.. ..		WMTGFMDS	'Multiple discard' - the previous non-crucial msg was also discarded.
(14)	BITSTRING	1	*	Reserved
(16)	HALFWORD	2	WMTGMAXL	Maximum record length
(18)	CHARACTER		WMTGPEND	

GETMSG Transmission control data

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	28	WMTG	
(0)	CHARACTER	8	WMTGBRC	Backup read cursor
(0)	FULLWORD	4	WMTGRCNO	Backup read cycle number
(4)	UNSIGNED	4	WMTGRRBA	Backup read RBA
(8)	CHARACTER	8	WMTGAWC	Active write cursor when current CI was read.
(8)	FULLWORD	4	WMTGWCNO	Active write cycle number
(C)	UNSIGNED	4	WMTGWRBA	Active write RBA
(10)	FULLWORD	4	WMTGSEQN	Message sequence number
(14)	ADDRESS	4	WMTGCCCA	Current CI control area
(18)	BITSTRING	2	WMTGFLGS	
	1... ..		WMTGFMV	Moving user data
	.1.. ..		WMTGFFMR	First message received
(18)	BITSTRING	1	*	Reserved
(1A)	HALFWORD	2	*	Reserved
(1C)	CHARACTER		WMTGEND	

## WNF XRF CAVM notify exit

CONTROL BLOCK NAME = DFHWNFPS  
 DESCRIPTIVE NAME = CICS (XRF) - CAVM NOTIFY Exit  
 Parameter Block

FUNCTION =  
 CAVM uses the NOTIFY Exit Parameter Block to describe an event it has detected which needs to be brought to the attention of the user of CAVM.

LIFETIME =  
 The duration of the call to the NOTIFY exit.

STORAGE CLASS =  
 Non-CICS storage. Usually in the automatic storage (managed by the CAVM LIFO mechanism) of the NOTIFY exit's caller.

LOCATION =  
 On entry to the NOTIFY exit, R1 contains the address of its parameter block.

INNER CONTROL BLOCKS =  
 None.

NOTES :  
 DEPENDENCIES = S/370  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
 DATA AREAS =  
 None.

CONTROL BLOCKS =  
 None.

GLOBAL VARIABLES (Macro pass) =  
 None.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	24	DFHWNFPS	
(0)	FULLWORD	4	WNFRSV1	Reserved - must be zero
(4)	UNSIGNED	1	WNFEVENT	Event code
(5)	BITSTRING	1	WNFEVNTM	Event modifier bits
	1... ..		WNFMDCEC	Event was in different CEC
	.1.. ..		WNFMICPA	Event refers to an incipient ACTIVE
	..1. ....		WNFMSYSD	If on, event refers to a sign-off due to MVS failure
	...1 1111		*	Reserved
(6)	BITSTRING	1	WNFXBITS	Existence bits for other fields
	1... ..		WNFIX	Index exists
	.1.. ..		WNFD1X	DATA1 exists

Offset Hex	Type	Len	Name (Dim)	Description
	..1. ....		WNFD2X	DATA2 exists
	...1 ....		WNFDAX	Additional DATA exists
	.... 1111		*	Reserved
(7)	UNSIGNED	1	WNFINDEX	Index identifying BACKUP slot - zero for ACTIVE
(8)	FULLWORD	4	WNFDATA1	First data word
(8)	FULLWORD	4	WNFINST#	Instance no. for signon, signoff etc
(8)	FULLWORD	4	WNFHBLAT	No. of seconds 'heart-beat' is late
(8)	FULLWORD	4	WNFABCC	ABEND code (WNFEFAIL)
(C)	FULLWORD	4	WNFDATA2	Second data word
(C)	FULLWORD	4	WNFVERN#	Version no. for signon, signoff etc
(C)	CHARACTER	4	WNFQNAME	New queue name (WNFENEWQ)
(10)	ADDRESS	4	WNFDATAA	Address of additional data
(14)	FULLWORD	4	WNFDATAL	Length of additional data
(18)	CHARACTER		WNFEND	

## Constants

Len	Type	Value	Name	Description
1	DECIMAL	1	WNFESON	Signon
1	DECIMAL	2	WNFESOFN	Signoff normal
1	DECIMAL	3	WNFESOFA	Signoff abnormal
1	DECIMAL	7	WNFECKDC	The TOD clock difference has changed
1	DECIMAL	8	WNFEIHRC	The 'Inquire Health' response has changed
1	DECIMAL	9	WNFEHBOD	Heart-beat is overdue
1	DECIMAL	10	WNFEHBRB	Heart-beat has restarted
1	DECIMAL	15	WNFERQTK	This system wants to take over from you.
1	DECIMAL	16	WNFEICPA	You are now the incipient active but your TOD clock might be behind
1	DECIMAL	17	WNFECKAS	Your TOD clock is now ahead of active's at signoff
1	DECIMAL	18	WNFEACTV	You are now the active in all respects except that your TOD clock might still be behind
1	DECIMAL	19	WNFECKAT	Your TOD clock is now ahead of active's at job termination
1	DECIMAL	20	WNFEPRMT	Another BACKUP pre-empted you after your TAKEOVER request had been accepted
1	DECIMAL	21	WNFETKFL	Takeover failed because of an error detected after the request had been accepted
1	DECIMAL	24	WNFEFAIL	CAVM has failed
1	DECIMAL	25	WNFEINVL	Active has invalidated you
1	DECIMAL	32	WNFENEWQ	Message arrival has caused a new message queue to be created
1	DECIMAL	33	WNFEREQM	Request message arrived
1	DECIMAL	34	WNFERSPM	Response message received
1	DECIMAL	35	WNFERSPX	Expected responder to a PUTREQ has gone away
1	DECIMAL	36	WNFENEWA	A message has arrived from a new ACTIVE instance

**WSA XRF CAVM surveillance status**

CONTROL BLOCK NAME = DFHWSADS  
DESCRIPTIVE NAME = CICS (XRF) - CAVM Surveillance Status  
Control Blocks

**FUNCTION =**

The various CAVM Surveillance Status Control Blocks exist to permit the 4 independent CAVM surveillance processes (2 status writers and 2 status readers) to communicate with other CAVM processes and with each other. Each XRF system contains a single set of these Surveillance Status Control Blocks.

**LIFETIME =**

The Surveillance Status Control Block, Public Status Area Descriptors and Public Status Areas in a given XRF system are all created at the same time during CAVM SIGNON by DFHWSSN2.

The actual Status CIs are created by DFHWSSN3 as records filled with binary zeroes when it formats a new CAVM Control or Message Data Set. They are never destroyed except by deletion of the data set.

**STORAGE CLASS =**

Non-CICS storage. In MVS subpool 0 above the 16M line. The Status CIs themselves reside on DASD in the CAVM Control or Message Data Sets or in I/O buffers in MVS subpool 0 above the 16M line.

**LOCATION =**

Field WCGSA in the CAVM Global Control Block (DFHWCGDS) contains a pointer to the Surveillance Status Control Block (DFHWSADS), which itself includes an array of Public Status Area Descriptors (WSADs) starting at WSAGWSAD.

**INNER CONTROL BLOCKS =**

See FUNCTION and LOCATION.

**NOTES :**

DEPENDENCIES = S/370

RESTRICTIONS =

Status Record must not become too large to fit in a 4K CI.

MODULE TYPE = Control block definition

**EXTERNAL REFERENCES =**

None.

DATA AREAS =

None.

CONTROL BLOCKS =

None.

GLOBAL VARIABLES (Macro pass) =

None.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHWSADS	CAVM Surveillance Status Control Block
(0)	CHARACTER	8	WSAGID	Eye Catcher DFHWSAPS
(8)	BITSTRING	1	WSAGWRQD	Status Write Required Mask
	1... ..		WSAGPSWR	"X'80" Status Write to Control File needed
	.1.. ..		WSAGSSWR	"X'40" Status Write to Message File needed
(9)	BITSTRING	1	WSAGVRQD	Status Verification Required Mask
	1... ..		WSAGPSVR	"X'80" Control File status verify needed
	.1.. ..		WSAGSSVR	"X'40" Message File status verify needed
(A)	BITSTRING	1	WSAGWSTK	Status Writers Stuck Mask
(B)	BITSTRING	1	WSAGRSTK	Status Readers Stuck Mask
(C)	HALFWORD	2	WSAGBN	Maximum number of concurrent BACKUPS
(E)	HALFWORD	2	WSAGINDX	Index to this system's entry in the array of status descriptors (zero origin)
(10)	HALFWORD	2	WSAG#BSU	No. of BACKUPS whose Public Status is not yet available - WDSBBPSPA is broadcast when this reaches zero
(12)	BITSTRING	1	WSAGSRFL	Flags for controlling Status Readers
	1... ..		WSAGQBSR	"X'80" Quiesce Backup Status Readers
(13)	BITSTRING	1	WSAGPRST	Flags for recording the progress of a request to read the ACTIVE's latest status
(14)	FULLWORD	4	(0)	Ensure full word alignment
(14)	BITSTRING	4	WSAGRES	Internal ECB POSTed when request to read the ACTIVE's latest status has been completed
(18)	BITSTRING	4	WSAGWEP	Internal ECB POSTed to request a Status Write to the Control File
(1C)	BITSTRING	4	WSAGWES	Internal ECB POSTed to request a Status Write to the Message File
(20)	BITSTRING	8	WSAGPWCM (0)	Control File Write Complete Masks
(20)	BITSTRING	4	WSAGWCP	Mask defining event which will be broadcast when next Status Write to Control File completes successfully
(24)	BITSTRING	4	WSAGWCEP	Mask defining event which will be broadcast when next Status Write to Control File completes with error
(28)	BITSTRING	8	WSAGSWCM (0)	Message File Write Complete Masks
(28)	BITSTRING	4	WSAGWCS	Mask defining event which will be broadcast when next Status Write to Message File completes successfully
(2C)	BITSTRING	4	WSAGWCES	Mask defining event which will be broadcast when next Status Write to Message File completes with error
(30)	FULLWORD	4	(0)	Ensure full word alignment



Offset Hex	Type	Len	Name (Dim)	Description
(30)	CHARACTER	8	WSAGPAIV	Instance & version no. of previous ACTIVE job which has either signed off or is no longer executing according to JES (BACKUPS only)
(38)	ADDRESS	4	WSAGP (0)	Start of Array of Status Descriptors
(38)	ADDRESS ..11 1...	4	WSAGWSAD (0) WSAGHDRL	Start of Array of Status Descriptors "-DFHWSADS"

Offset Hex	Type	Len	Name (Dim)	Description
(0)			WSAD	CAVM Public Status Area Descriptor
(0)	ADDRESS	4	WSADPB (0)	Alternative Name
(0)	ADDRESS	4	WSADPSA	Address of Public Status Area
(4)	HALFWORD	2	WSADTOTL	Total length of Public Status
(6)	HALFWORD	2	WSADSHRL	Length of shared Status section
(8)	HALFWORD	2	WSADIDVL	Length of individual Status section
(A)	HALFWORD	2	WSADPOFF	Offset to my individual section in partner's Public Status
(C)	ADDRESS ...1 ....	4	WSADSRCP WSADL	Pointer to Communications Area for Status Reader and Writer Processes "-WSAD"

Offset Hex	Type	Len	Name (Dim)	Description
(0)			WSAS	Common Shared Section of Status
(0)	SIGNED	1	WSASST1	System Status 1
	.... ....		WSASSOFN	"0" Signed off normally (must be zero)
	.... ...1		WSASSON	"1" Signed on
	.... ..1.		WSASSOFA	"2" Signed off abnormally
(1)	SIGNED	1	WSASST2	System Status 2
	.... ...1		WSASACT	"1" System is ACTIVE
	.... ..1.		WSASINCP	"2" System is incipient ACTIVE
	.... ..11		WSASBKUP	"3" System is a BACKUP
(2)	BITSTRING	1	WSASST3	System status 3
	1... ....		WSASXCFA	"X'80" System has XCF services avail.
(3)	BITSTRING	1		Reserved
(4)	CHARACTER	8	WSASI#V# (0)	Instance and Version number
(4)	CHARACTER	8	WSASIVN (0)	Alternative name for I & V
(4)	FULLWORD	4	WSASINST	System's Instance number
(8)	FULLWORD	4	WSASVERN	System's Version number (always 1 for BACKUPS)
(C)	CHARACTER	16	WSASM (0)	Message state data (meaningful only for ACTIVE system)
(C)	FULLWORD	4	WSASMCID	CIDF corresponding to AWC
(10)	CHARACTER	8	WSASMAWC (0)	ACTIVE Write Cursor
(10)	FULLWORD	4	WSASMCNO	Message cycle number
(14)	FULLWORD	4	WSASMRBA	RBA of end of last message
(18)	FULLWORD	4	WSASMSQN	Sequence no. of last message
(1C)	CHARACTER	12	WSASMVSI	MVS System Identification - SMF ID and time & date of IPL
(28)	CHARACTER	8	WSASSPLX	XCF Sysplex name
(30)	CHARACTER	8	WSASSNAM	MVS System name
(38)	CHARACTER	4	WSASSTOK	MVS Instance token
(3C)	FULLWORD	4	WSASHBI	'Heart-beat' interval
(40)	FULLWORD	4	WSASHBC	'Heart-beat' counter
(44)	HALFWORD	2		Reserved
(46)	HALFWORD	2	WSASIHLL	Length of local 'Inquire Health' data
(48)	CHARACTER	256	WSASIHLD	Local 'Inquire Health' data
(148)	HALFWORD	2		Reserved
(14A)	HALFWORD	2	WSASIHGL	Length of global 'Inquire Health' data
(14C)	CHARACTER	128	WSASIHGD	Global 'Inquire Health' data
(14C)			WSASL	"-WSAS"

Offset Hex	Type	Len	Name (Dim)	Description
(0)			WSAR	Specific Partner's Section of Status
(0)	HALFWORD	2		Reserved
(2)	HALFWORD	2	WSARQROF	Offset to Message Management PUTREQ data (WSARQR)
(4)	CHARACTER	16	WSARM (0)	Message state data
(4)	CHARACTER	8	WSARMBRC (0)	BACKUP Read Cursor or Initial Read Cursor
(4)	FULLWORD	4	WSARMCNO	Message file cycle number
(8)	FULLWORD	4	WSARMRBA	RBA of end of last message read or of 1st message to be read
(C)	FULLWORD	4	WSARINST	Instance Number
(10)	FULLWORD	4		Reserved
	...1 .1..		WSARL	"-WSAR"

Offset Hex	Type	Len	Name (Dim)	Description
(0)			WSARIV	Invalidation Message from ACTIVE
(0)	FULLWORD	4	WSARIV#	Instance number of BACKUP which is now invalid
(4)	CHARACTER	12	WSARIVRC	Invalidation reason code
	...1 ....		WSARIVL	"-WSARIV"

Offset Hex	Type	Len	Name (Dim)	Description
(0)			WSARTM	TAKEOVER message from BACKUP
(0)	HALFWORD	2		Reserved
(2)	HALFWORD	2	WSARTMLN	Length of message
(4)	FULLWORD	4	WSARTMSI	Instance number of BACKUP trying to take over
(8)	CHARACTER	8	WSARTMIV (0)	
(8)	FULLWORD	4	WSARTMI#	Instance number of ACTIVE to be taken over
(C)	FULLWORD	4	WSARTMV#	Version number of ACTIVE to be taken over
(10)	CHARACTER	128	WSARTMSG	Takeover message
	1..1 ....		WSARTML	""-WSARTM"
Offset Hex	Type	Len	Name (Dim)	Description
(0)			WSARQR	Message Management PUTREQ & PUTRSP messages
	1... ....		WSARQRL	"128" Length of a Request or Response Message
(0)	CHARACTER	128	WSARREQ	Request message (PUTREQ)
(80)	FULLWORD	4	(0)	Ensure full word alignment
(80)	CHARACTER	1	WSARRSP	Response message (PUTRSP)
Offset Hex	Type	Len	Name (Dim)	Description
(0)			WSASV1	Version 1 WSAS
(0)	SIGNED	1	WSV1ST1	System Status 1
	.... ....		WSV1SOFN	"0" Signed off normally (must be 0)
	.... ...1		WSV1SON	"1" Signed on
	.... ..1.		WSV1SOFA	"2" Signed off abnormally
(1)	SIGNED	1	WSV1ST2	System Status 2
	.... ...1		WSV1ACT	"1" System is ACTIVE
	.... ..1.		WSV1INCP	"2" System is incipient ACTIVE
	.... ..11		WSV1BKUP	"3" System is a BACKUP
(2)	HALFWORD	2		Reserved
(4)	CHARACTER	8	WSV1#V# (0)	Instance and Version number
(4)	CHARACTER	8	WSV1IVN (0)	Alternative name for I & V
(4)	FULLWORD	4	WSV1INST	System's Instance number
(8)	FULLWORD	4	WSV1VERN	System's Version number (always 1 for BACKUPS)
(C)	CHARACTER	16	WSV1M (0)	Message state data (meaningful only for ACTIVE system)
(C)	FULLWORD	4	WSV1MCID	CIDF corresponding to AWC
(10)	CHARACTER	8	WSV1MAWC (0)	ACTIVE Write Cursor
(10)	FULLWORD	4	WSV1MCNO	Message cycle number
(14)	FULLWORD	4	WSV1MRBA	RBA of end of last message
(18)	FULLWORD	4	WSV1MSQN	Sequence no. of last message
(1C)	CHARACTER	12	WSV1MVISI	MVS System Identification - SMF ID and time & date of IPL
(28)	FULLWORD	4	WSV1HBI	'Heart-beat' interval
(2C)	FULLWORD	4	WSV1HBC	'Heart-beat' counter
(30)	HALFWORD	2		Reserved
(32)	HALFWORD	2	WSV1IHLL	Length of local 'Inquire Health' data
(34)	CHARACTER	256	WSV1IHLD	Local 'Inquire Health' data
(134)	HALFWORD	2		Reserved
(136)	HALFWORD	2	WSV1IHGL	Length of global 'Inquire Health' data
(138)	CHARACTER	128	WSV1IHGD	Global 'Inquire Health' data
(138)			WSV1L	""-WSASV1"

## WSC XRF CAVM time-of-day clock difference

```

CONTROL BLOCK NAME = DFHWSCDS
DESCRIPTIVE NAME = CICS (XRF) - CAVM TOD Clock Difference
                    Control Area

FUNCTION =
    A BACKUP system uses this control block to keep track of
    the difference between the ACTIVE system's TOD clock and
    its own when they are running in different CECs.
    There is one instance of this control block per BACKUP.

LIFETIME =
    DFHWSXPI creates this control block when a BACKUP system
    signs on to CAVM and DFHWSTKV destroys it when the BACKUP
    takes over from the ACTIVE.

STORAGE CLASS =
    Non-CICS storage. In MVS subpool 0 above 16M line.

LOCATION =
    Field WCGCKDA in the XRF Global Control Block (DFHWCGDS)
    contains a pointer to the TOD Clock Difference Control Area.

INNER CONTROL BLOCKS =
    None.

NOTES :
    DEPENDENCIES = S/370
    RESTRICTIONS =
        None.
    MODULE TYPE = Control block definition

EXTERNAL REFERENCES =
    None.

DATA AREAS =
    None.

CONTROL BLOCKS =
    None.

GLOBAL VARIABLES (Macro pass) =
    None.
    
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)			WSCKD	TOD Clock Difference Control Area
(0)	DBL WORD	8	CKDLTMIN	Current minimum estimate of amount by which ACTIVE's TOD clock is ahead of this BACKUP's
(8)	DBL WORD	8	CKDLTMAX	Current maximum estimate of amount by which ACTIVE's TOD clock is ahead of this BACKUP's
(10)	FULLWORD	4	CKDTOD	ACTIVE's TOD clock reading corresponding to the current deltas to permit compensation for relative gain or loss of TOD clocks
	.... 1.1.		CKDSHIFT	"10" Shift value corresponding to max. assumed relative rate of gain or loss of two TOD clocks (1 in 1024)
(14)	CHARACTER	12	CKDMVSI	MVS instance (SMF ID, IPL time & date) to which clock difference refers
	..1. ....		WSCKDL	"*-WSCKD"

## WSM XRF CAVM state manager record description

CONTROL BLOCK NAME = DFHWMSMDS  
DESCRIPTIVE NAME = CICS (XRF) - CAVM State Management  
Record Description

### FUNCTION =

This control block defines the format of the State Management Record in the CAVM Control Data Set, which is used to keep track of what CICS jobs are signed on to CAVM and their current state (ACTIVE, normal BACKUP, BACKUP performing TAKEOVER, etc.). There is one State Management Record in each CAVM Control Data Set. It contains just one instance of SMDESCR and instances of WSJDESC for each ACTIVE or BACKUP job which CAVM will allow to sign on concurrently using that particular CAVM Control Data Set. The instance of WSJDESC which immediately follows SMDESCR always refers to the ACTIVE job.

### LIFETIME =

The State Management Record is created by DFHWSSN3 when it formats a new CAVM Control Data Set and is initialised by DFHWSSN2 during the first successful SIGNON. It is never destroyed except by deletion of the data set.

### STORAGE CLASS =

This control block resides on DASD in the CAVM Control Data Set or in an I/O buffer or work area in MVS subpool 0 above the 16M line.

### LOCATION =

Field WFGSMRBA in the CAVM File Control Block (DFHWFGDS) contains the RBA of the State Management Record within the CAVM Control Data Set. It is always the second CI in the data set.

### INNER CONTROL BLOCKS =

None.

### NOTES :

DEPENDENCIES = S/370

RESTRICTIONS =

None.

MODULE TYPE = Control block definition

### EXTERNAL REFERENCES =

None.

DATA AREAS =

None.

CONTROL BLOCKS =

None.

GLOBAL VARIABLES (Macro pass) =

None.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			SMDESCR	State Management Record Global Data
(0)	FULLWORD	4	SMDSECT	Security count updated whenever the State Management Record is updated
(4)	FULLWORD	4	SMDINST#	Instance Number assigned to last system which signed on (ACTIVE or BACKUP)
(8)	CHARACTER	8	SMDAI#V# (0)	Last ACTIVE instance & version
(8)	FULLWORD	4	SMDAINST	Instance no. of current (or last) ACTIVE system
(C)	FULLWORD	4	SMDAVERN	Version no. of current (or last) ACTIVE system
(10)	DBL WORD	8	SMDR#TOD (0)	Array of resource time-stamps
(10)	DBL WORD	8	SMDR1TOD	Time-stamp for resource set R1 - estimated reading of last updater's TOD clock when he signed off from CAVM
(18)	DBL WORD	8	SMDR2TOD	Time-stamp for resource set R2 - estimated reading of last updater's TOD clock when his job terminated
(20)	HALFWORD	2	SMDR#NDX (0)	Array of resource ownership indices in same order as time-stamps
(20)	HALFWORD	2	SMDR1NDX	Index to the job description of the current owner of resource set R1 or 1's complement of last owner's index if R1 is free
(22)	HALFWORD	2	SMDR2NDX	Index to the job description of the current owner of resource set R2 or 1's complement of last owner's index if R2 is free
(24)	HALFWORD	2	SMDTKNDX	Index to the job description of the BACKUP which is performing TAKEOVER or 1's complement of index of last BACKUP to attempt it
(26)	HALFWORD	2	SMD#JOBS	Number of job descriptions in the State Management Record
(28)	DBL WORD	8	SMDSMJ0 (0)	Start of ACTIVE's job description
..1. 1...			SMDL	""-SMDESCR"

  

Offset Hex	Type	Len	Name (Dim)	Description
(0)			WSJDESC	State Management Record Job Description
(0)	CHARACTER	8	WSJSAPPL	Specific APPLID
(8)	CHARACTER	8	WSJOBNAM	Job Name
(10)	CHARACTER	8	WSJOBID	JES Job Identifier
...1 1...			WSJS1END	""
(8)	CHARACTER	16	WSJOBNID	

Offset Hex	Type	Len	Name (Dim)	Description
(18)	FULLWORD	4	WSJSTIME	Job submission time (from JMR)
(1C)	FULLWORD	4	WSJSDATE	Job submission date (from JMR)
(20)	FULLWORD	4	WSJATIME	Time when job-step task was ATTACHed
(24)	CHARACTER	4	WSJSSNAM	MVS subsystem name of job's JES
(28)	CHARACTER	12	WSJMVSID	MVS system instance - SMF ID and time & date of IPL
			WSJS2END	***
(24)	CHARACTER	16	WSJMVSJ	
(34)	CHARACTER	8	WSJCANNM	Name to use in MVS CANCEL command to cancel this job (from CSCB)
(3C)	HALFWORD	2	WSJASID	ASID of job's address space
			WSJS3END	***
(8)	CHARACTER	54	WSJOBSTI	
(3E)	CHARACTER	1	WSJSIND	System Indicator
			WSJXCFA	"X'80" XCF available in MVS release
(3F)	SIGNED	1	WSJSTAT	Job status - signed on, signed off normally or signed off abnormally
(40)	DBL WORD	8	WSJSNTOD	TOD clock reading when CAVM SIGNON processing started
(48)	CHARACTER	4	WSJRST (0)	Restart information field
(48)	CHARACTER	3	WSJEYECA	Restart Eyecatcher '>RS'
(4B)	CHARACTER	1	WSJRSTYP	Restart type indicator
			WSJRSJOB	"X'01" Restart as JOB
			WSJRSSTC	"X'02" Restart as Started Task
(4C)	FULLWORD	4		Spare
(50)	DBL WORD	8	(0)	Force length to double word multiple
			WSJLVER1	**"-WSJDESC" Len of pre-CICS/ESA 3.2 job desc
(50)	CHARACTER	8	WSJSPLX	XCF Sysplex Name
(58)	CHARACTER	8	WSJSNAM	MVS Sytem name
(60)	CHARACTER	4	WSJSTOK	MVS System Instance token
(68)	DBL WORD	8	(0)	Force length to double word
			WSJS4END	***
(50)	CHARACTER	24	WSJXCFD	XCF Details
(58)	CHARACTER	16	WSJSDET	MVS System details
			WSJL	**"-WSJDESC" Len of CICS/ESA 3.2 job desc.

The following DSECT describes the control CI of the CAVM control and message datasets. All the fields are set by DFHWSSN3 when it opens a new pair of CAVM datasets for the first time and the contents are verified on all subsequent SIGNON's.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			CTLREC	Control CI description
(0)	FULLWORD	4	CTLVER#	CAVM dataset version number CTLVER# = 1 --> Pre CICS 3.2 CTLVER# = 2 --> CICS 3.2
(4)	FULLWORD	4		
(8)	CHARACTER	8	CTLDDN	CAVM DD name (CDS or MDS ?)
(10)	CHARACTER	8	CTLGAPPL	Generic applid initialised for
(18)	CHARACTER	20	CTLUNQID	TOD d/s initialised plus MVS id
			CTLRECL	**"-CTLREC"

## WSN XRF entry points table

CONTROL BLOCK NAME = DFHWSNDS  
 DESCRIPTIVE NAME = CICS (XRF) - Table of Entry Points in  
 load module DFHWSMS

FUNCTION =  
 This entry point table makes the entry points of modules  
 in load module DFHWSMS available for use by code in the  
 separate transient CAVM SIGNON load module DFHWSSON.  
 The only instance of the table is in module DFHWSTI.

LIFETIME =  
 Not applicable.

STORAGE CLASS =  
 Not applicable.

LOCATION =  
 This entry point table is contained in module DFHWSTI.  
 On entry to DFHWSXPI, its address is in R1.

INNER CONTROL BLOCKS =  
 None.

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 None.  
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES =  
 None.

DATA AREAS =  
 None.

CONTROL BLOCKS =  
 None.

GLOBAL VARIABLES (Macro pass) =  
 None.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			SMSSENTAB	Table of entry points in DFHWSMS
(0)	ADDRESS	4	SMSESTKV	EPA of DFHWSTKV
(4)	ADDRESS	4	SMSESSW	EPA of DFHWSSW
(8)	ADDRESS	4	SMSESSR	EPA of DFHWSSR
(C)	ADDRESS	4	SMSEMMI	EPA of DFHWMMI

## WSR XRF CAVM surveillance

CONTROL BLOCK NAME = DFHWSRDS  
 DESCRIPTIVE NAME = CICS (XRF) - CAVM Surveillance  
 Communications Area

FUNCTION =  
 The Surveillance Communications Areas are needed to allow the 4 independent CAVM surveillance processes (2 status writers and 2 status readers) to share some common data. In each XRF system, there are separate Surveillance Communications Areas referring to each actual or potential partner XRF system as well as a single Surveillance Communications Area referring to that system itself. The Status Record Header contains a TOD clock reading used in clock difference calculations and a sequence number used to determine which of two status records contains the more up-to-date information. It is built immediately before writing an XRF system's status to its Status CI in the CAVM Control Data Set or Message Data Set.

LIFETIME =  
 All the Surveillance Communications Areas in a given XRF system are created at the same time during CAVM SIGNON by DFHWSSN2.

STORAGE CLASS =  
 Non-CICS storage. In MVS subpool 0 above 16M line.

LOCATION =  
 Field WSADSRCP in each Public Status Area Descriptor (WSAD) contains a pointer to the corresponding XRF system's Surveillance Communications Area.

INNER CONTROL BLOCKS =  
 None.

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 None.  
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES =  
 None.

DATA AREAS =  
 None.

CONTROL BLOCKS =  
 None.

GLOBAL VARIABLES (Macro pass) =  
 None.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			SRHEADER	Status Record Header
(0)	DBL WORD	8	SRHTOD	Latest TOD clock reading
(8)	FULLWORD	4	SRHSEQ#	Sequence number of Status Write
	.... 11..		SRHEADRL	""-SRHEADER" Length of Status Record Header
	.... 11..		SRHWSAS	"" Start of common shared section of Status (WSAS)

Offset Hex	Type	Len	Name (Dim)	Description
(0)			SRVCOM	Surveillance Communications Area
(0)	CHARACTER	1	SRVCHBOD	Indicator that 'heart-beat overdue' NOTIFY has been issued
(1)	CHARACTER	1	SRVCSOFA	Indicator that 'sign-off' abnormal NOTIFY has been issued
(2)	CHARACTER	1	SRVCSVCF	Indicator that DFH6646 msg has been issued as a result of SVC failureL1A
(3)	BITSTRING	1	SRVCHBPM	'Heart-beat' position mask showing which CAVM file is being read to track this partner's 'heart-beat'
(4)	BITSTRING	1	SRVCHBLM	'Heart-beat' late mask showing which files have been read without finding this partner's 'heart-beat'
(5)	BITSTRING	1	SRVCI OEM	I/O error mask showing which files have had an I/O error during the last read or write of this status CI
(8)	FULLWORD	4	SRVCLIHT	TOD when most recent indication that this partner's 'INQUIRE HEALTH' exit had run was detected
(C)	FULLWORD	4	SRVCPBS#	Status write sequence no. of Public Status
(10)	FULLWORD	4	SRVCLS#P	Sequence no. of latest status read from or written to the control file
(14)	FULLWORD	4	SRVCLS#S	Sequence no. of latest status read from or written to the message file
	...1 1...		SRVCOML	""-SRVCOM"

## WSS XRF CAVM state manager parameter list

CONTROL BLOCK NAME = DFHWSSDS  
 DESCRIPTIVE NAME = CICS (XRF) - CAVM State Management  
 Parameter Block

FUNCTION =  
 The CAVM State Management Parameter Block is used to describe a CAVM SIGNON, SIGNOFF or TAKEOVER request.

LIFETIME =  
 Determined by the user of CAVM.

STORAGE CLASS =  
 Determined by the user of CAVM.

LOCATION =  
 On entry to CAVM code, R1 points at the parameter block.

INNER CONTROL BLOCKS =  
 None.

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 None.

MODULE TYPE = Control block definition

EXTERNAL REFERENCES =  
 None.

DATA AREAS =  
 None.

CONTROL BLOCKS =  
 None.

GLOBAL VARIABLES (Macro pass) =  
 None.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHWSSDS	State management parameter block - pointed to by R1
(0)	FULLWORD	4	WSSFUNC	Function
(4)	HALFWORD	2	WSSFUNCM	Function modifier
(6)	SIGNED	1	WSSRESP	Response
(7)	SIGNED	1	WSSREASC	Reason code
(8)	ADDRESS	4	WSSUNIQA	Addr. of section unique to function
(C)	FULLWORD	4	WSSUNIQL	Length of section unique to function
	...1 ....		WSSCOMND	*** End of common section
	...1 ....		WSSCOMLN	**-DFHWSSDS" Length of common section

Offset Hex	Type	Len	Name (Dim)	Description
(0)			WSSSONDS	Unique parameters for SIGNON
(0)	CHARACTER	8	WSSGAPPL	Generic APPLID
(8)	CHARACTER	8	WSSSAPPL	Specific APPLID
(10)	ADDRESS	4	WSSNFPEA	Address of NOTIFY exit routine
(14)	FULLWORD	4	WSSNFPRM	Parameter for NOTIFY exit
(18)	ADDRESS	4	WSSIHEPA	Address of INQUIRE HEALTH exit
(1C)	FULLWORD	4	WSSIHPRM	Parameter for INQUIRE HEALTH exit
(20)	FULLWORD	4	WSSHBINT	Heart-beat interval in seconds
(24)	CHARACTER	4	WSSMVID	MVS SMF id. returned to caller
(28)	CHARACTER	4	WSSJSID	JES subsystem id. ret to caller
(2C)	CHARACTER	8	WSSSPLX	XCF Sysplex name
(34)	CHARACTER	8	WSSSNAM	MVS System name
(3C)	CHARACTER	4	WSSSTOK	MVS System Instance token
(40)	BITSTRING	1	WSSSIND	MVS System Indicator byte
	1... ....		WSSXCFA	"X'80" ... XCF services available
	.1.. ...1		WSSSONND	*** End of section unique to SIGNON
	.1.. ...1		WSSSONLN	**-WSSSONDS" Length of section unique to SIGNON

Offset Hex	Type	Len	Name (Dim)	Description
(0)			WSSSOFDS	Unique parameters for SIGNOFF
(0)	ADDRESS	4		Reserved - must be zero
(4)	HALFWORD	2		Reserved half-word - must be zero
(6)	HALFWORD	2		Reserved - must be zero
(8)	ADDRESS	4	WSSSFMMMA	Address of my response msg buffer
(C)	HALFWORD	2	WSSSFMBL	Length of my response msg buffer
(E)	HALFWORD	2	WSSSFMML	Length of msg received from partner
	...1 ....		WSSSOFND	*** End of section unique to SIGNOFF
	...1 ....		WSSSOFLN	**-WSSSOFDS" Length of section unique to SIGNOFF



Offset Hex	Type	Len	Name (Dim)	Description
(0)			WSSTKVDS	Unique parameters for TAKEOVER
(0)	FULLWORD	4	WSSINST#	Instance number of ACTIVE
(4)	FULLWORD	4	WSSVER#	Version number of ACTIVE (ignored if request is pre-emptive)
(8)	FULLWORD	4	WSSJMTL	Job termination time limit (seconds)
(C)	ADDRESS	4	WSSTKVMA	Address of 'TAKEOVER' msg for ACTIVE
(10)	HALFWORD	2		Reserved half-word - must be zero
(12)	HALFWORD	2	WSSTKVML	Length of 'TAKEOVER' msg for ACTIVE
	...1 .1..		WSSTKVND	"" End of section unique to TAKEOVER
	...1 .1..		WSSTKVLN	""-WSSTKVDS" Length of section unique to TAKEOVER
Function codes - values for WSSFUNC				
	.... ...1		WSSFSON	"1" SIGNON
	.... ..1.		WSSFSOFF	"2" SIGNOFF
	.... ..11		WSSFTKVR	"3" TAKEOVER
Function modifiers - values for WSSFUNCM				
	.... ....		WSSMSONA	"0" SIGNON as ACTIVE
	.... ...1		WSSMSONB	"1" SIGNON as BACKUP
	.... ....		WSSMSOFN	"0" SIGNOFF NORMAL
	.... ...1		WSSMSOFA	"1" SIGNOFF ABNORMAL
	.... ....		WSSMTKVN	"0" Non-pre-emptive TAKEOVER
	.... ...1		WSSMTKVP	"1" Pre-emptive TAKEOVER

## WST XRF takeover parameter area

CONTROL BLOCK NAME = DFHWSTDS  
 DESCRIPTIVE NAME = CICS (XRF) - Takeover Parameter Area  
 FUNCTION =

The Takeover Parameter Area is a storage area belonging to the CAVM TCB which is used to keep copies of the parameters CICS specified on the TAKEOVER request that the CAVM TCB is currently working on. DFHWSRTR makes the copies of the TAKEOVER parameters while running under the CICS TCB and the requesting TCA. If a subsequent failure in this TCA should lead to the freeing of the storage it owns, the CAVM TCB's processing of the TAKEOVER request will not be affected.

Each XRF BACKUP system has a single TAKEOVER parameter area. To avoid the problems which might arise from concurrent use of the Takeover Parameter Area, the CAVM TCB does not reference it unless the POST bit in WCSTXECB is 1, whereas the CICS TCB does not reference it unless this bit is 0 and also issues a CICS ENQ on WCSTCECB to serialise with other CICS TCAs which might be issuing TAKEOVER requests.

LIFETIME =

The Takeover Parameter Area is created by DFHWSXPI when a BACKUP system signs on to CAVM and is destroyed by DFHWSTKV during TAKEOVER processing.

STORAGE CLASS =

Non-CICS storage. In MVS subpool 0 above 16M line.

LOCATION =

Field WCSTKVPP in the XRF Static Area (DFHWCSDS) contains a pointer to the Takeover Parameter Area.

INNER CONTROL BLOCKS =

None.

NOTES :

DEPENDENCIES = S/370  
 RESTRICTIONS =

None.

MODULE TYPE = Control block definition

EXTERNAL REFERENCES =

None.

DATA AREAS =

None.

CONTROL BLOCKS =

None.

GLOBAL VARIABLES (Macro pass) =

None.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			TKVPA	TAKEOVER parameter area
(0)	HALFWORD	2	TKVFUNC#	Copy of TAKEOVER modifier from State Management parameter list
(2)	HALFWORD	2		Reserved - must be zero
(4)	FULLWORD	4	TKVINST#	Instance no. of ACTIVE system to be taken over
(8)	FULLWORD	4	TKVVER#	Version no. of ACTIVE system to be taken over (ignored if pre-emption is requested)

Offset Hex	Type	Len	Name (Dim)	Description
(C)	FULLWORD	4	TKVJTMTL	Time limit for termination of the ACTIVE job after which operator assistance is sought (seconds)
(10)	FULLWORD	4	TKVMSG	Length of TAKEOVER message to send to the ACTIVE job
(14)	CHARACTER	128	TKVMSG TKVPALEN	TAKEOVER message for ACTIVE job **TKVPA*

## WSX XRF CAVM surveillance exits

CONTROL BLOCK NAME = DFHWSXDS  
 DESCRIPTIVE NAME = CICS (XRF) - CAVM Surveillance Exits  
 Control Area

FUNCTION =  
 The Surveillance Exits Control Area contains the entry point addresses and parameter values that the user specified at CAVM SIGNON for the NOTIFY and INQUIRE HEALTH exits, which are driven under the CAVM TCB during surveillance processing.  
 Each XRF system contains a single Surveillance Exits Control Area.

LIFETIME =  
 The Surveillance Exits Control Area is created by DFHWSSN2 during CAVM SIGNON.

STORAGE CLASS =  
 Non-CICS storage. In MVS subpool 0 above 16M line.

LOCATION =  
 Field WCGSXA in the XRF Global Control Block (DFHWCGB) contains a pointer to the Surveillance Exits Control Area.

INNER CONTROL BLOCKS =  
 None.

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 None.

MODULE TYPE = Control block definition

EXTERNAL REFERENCES =  
 None.

DATA AREAS =  
 None.

CONTROL BLOCKS =  
 None.

GLOBAL VARIABLES (Macro pass) =  
 None.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHWSXDS	Surveillance Exits Control Area
(0)	DBL WORD	8	WSXNFEPM (0)	Data for NOTIFY exit
(0)	ADDRESS	4	WSXNFEP	NOTIFY exit entry point
(4)	ADDRESS	4	WSXNFPRM	NOTIFY exit parameter (R0)
(8)	DBL WORD	8	WSXIHEPM (0)	Data for INQUIRE HEALTH exit
(8)	ADDRESS	4	WSXIHEP	INQUIRE HEALTH exit entry point
(C)	ADDRESS	4	WSXIHPRM	INQUIRE HEALTH exit parameter (R0)
	...1 ....		WSXEND	***
	...1 ....		WSXLEN	**DFHWSXDS* Length of control block

## WS2 XRF parameter list

CONTROL BLOCK NAME = DFHWS2DS  
 DESCRIPTIVE NAME = CICS (XRF) - Parameter list for DFHWSSN2  
 FUNCTION =  
 This parameter list is used to provide DFHWSSN2 with the data it needs to process a CAVM SIGNON request. It is used just once during every CAVM SIGNON.  
 LIFETIME =  
 The DFHWSSN2 parameter list is created by DFHWSSN1, completed by DFHWSRTR, which issues the call to DFHWSSN2, and destroyed by DFHWSSN1.  
 STORAGE CLASS =  
 Non-CICS storage. In DFHWSSN1's automatic storage.  
 LOCATION =  
 On entry to DFHWSSN2, R1 contains a pointer to its parameter list.  
 INNER CONTROL BLOCKS =  
 None.  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 None.  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
 None.  
 DATA AREAS =  
 None.  
 CONTROL BLOCKS =  
 None.  
 GLOBAL VARIABLES (Macro pass) =  
 None.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			SN2PLIST	Parameter List for DFHWSSN2
(0)	FULLWORD	4	SN2FUNC	Zero entry point address to tell DFHWSRTR to process a SIGNON request
(4)	ADDRESS	4	SN2ENTBP	Pointer to entry point table
(8)	ADDRESS	4	SN2WSSPP	Pointer to State Management parameter list for SIGNON received by DFHWSSN1
(C)	ADDRESS	4	SN2STATA	Pointer to XRF Static Area built by DFHWSSN1
(10)	ADDRESS	4	SN2XRFNT	Pointer to table of entry points of routines below 16M line (copy of CSAXRFNT in the CICS CSA)
(14)	ADDRESS ...1 1...	4	SN2ESSOF SN2PLL	Entry point address of DFHWSSOF "--SN2PLIST"

Offset Hex	Type	Len	Name (Dim)	Description
(0)			SONENTAB	Table of entry points in DFHWSSON
(0)	ADDRESS	4	SONESSN2	EPA of DFHWSSN2
(4)	ADDRESS	4	SONEDINA	EPA of DFHWDINA
(8)	ADDRESS	4	SONESXPI	EPA of DFHWSXPI

## WS3 XRF parameter list

CONTROL BLOCK NAME = DFHWS3DS  
 DESCRIPTIVE NAME = CICS (XRF) - Parameter list for DFHWSSN3  
 FUNCTION =  
     This parameter list is used to provide DFHWSSN3 with the data it needs to prepare the CAVM control and message data sets for use by SIGNON.  
     It is used just once in every CAVM SIGNON.

LIFETIME =  
     The DFHWSSN3 parameter list is both created and destroyed by DFHWSSN2.

STORAGE CLASS =  
     Non-CICS storage. In DFHWSSN2's automatic storage.

LOCATION =  
     On entry to DFHWSSN3, R1 contains a pointer to its parameter list.

INNER CONTROL BLOCKS =  
     None.

NOTES :  
     DEPENDENCIES = S/370  
     RESTRICTIONS =  
         None.  
     MODULE TYPE = Control block definition

EXTERNAL REFERENCES =  
     None.

DATA AREAS =  
     None.

CONTROL BLOCKS =  
     None.

GLOBAL VARIABLES (Macro pass) =  
     None.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			SN3PLIST	Parameter List for DFHWSSN3
(0)	CHARACTER	8	SN3GAPPL	Generic APPLID of system signing on
(8)	CHARACTER	8	SN3SAPPL	Specific APPLID of system signing on
(10)	CHARACTER	12	SN3MVSID	MVS system identification - SMF ID and time & date of IPL
(1C)	FULLWORD	4	SN3#CIS	No. of CIs required for use by State Management in each CAVM file
(20)	ADDRESS	4	SN3CIBFP	Pointer to CI buffer allocated by DFHWSSN3
(24)	ADDRESS	4	SN3VSAMB	Pointer to VSAM Request Block built by DFHWSSN3
(28)	ADDRESS	4	SN3FAA	Pointer to CAVM File Control Area built by DFHWSSN3
	..1. 11..		SN3PLL	""-SN3PLIST"

Offset Hex	Type	Len	Name (Dim)	Description
(0)			VSAMRQB	VSAM Request Block
(0)	FULLWORD	4	VSAMRBA	RBA of record to read or write
(4)	ADDRESS	4	VSAMECB	External ECB for asynchronous request
(8)	FULLWORD	4	VSAMRPL (0)	Start of RPL for VSAM request
	.... 1...		VSAMRQBL	""-VSAMRQB"

## WTA XRF takeover initiation argument block

CONTROL BLOCK NAME = DFHWTADS  
 DESCRIPTIVE NAME = CICS XRF Takeover Initiation  
 Argument Block

FUNCTION =  
 Used to specify arguments for a request to  
 XRF Takeover Initiation Program (DFHWTI).  
 Requests are:

- o Takeover Initiation
- o Verify CLT
- o Overseer Operator Command
- o Inquire Job Status
- o Process CLT
- o Issue MODIFY USERVAR
- o Terminate External Subsystem
- o Verify AXI
- o Issue subsystem command
- o Disable XRF services

There is one instance of this control block per request.

LIFETIME =  
 Created and destroyed by caller.

STORAGE CLASS =  
 MVS program key storage.

LOCATION =  
 Pointed to by R1 on entry to Takeover Initiation Program.

INNER CONTROL BLOCKS =  
 None.

NOTES :  
 DEPENDENCIES = S/370 XA  
 RESTRICTIONS =  
 MODULE TYPE = Control block definition

EXTERNAL REFERENCES =  
 DATA AREAS =  
 CONTROL BLOCKS =  
 GLOBAL VARIABLES (Macro pass) =

Offset Hex (0)	Type	Len	Name (Dim)	Description
			DFHWTADS	
REQUEST TYPE				
(0)	FULLWORD	4	WTAREQ (0)	
(0)	BITSTRING	1	WTAFUNC	Function
(1)	BITSTRING	1	WTAMOD	Modifier
(2)	CHARACTER	1	(2)	Reserved
ARGUMENTS:				
(4)	FULLWORD	4	WTAARGS (0)	
Takeover Initiation Inquire Job Status Process CLT				
(4)	CHARACTER	1	WTACLEN	""-WTAARGS" Length of arguments for ..Process CLT
			WTACIND	CEC indicators Treat old active job as..
			WTACISA	"X'80" ..same MVS instance
			WTAISYSA	"X'40" ..same XCF Sysplex
(6)	HALFWORD	2	WTAISCMD	Command code (Issue subsys cmd)
(8)	CHARACTER	4	WTAICMVS	MVS system identifier if active ..job in separate CEC
(C)	FULLWORD	4	WTAICTOD	Most significant fullword of ..TOD clock at time of last ..change of state
(10)	CHARACTER	8	WTAIJOB	Job name as known by JES
(18)	CHARACTER	8	WTAIJOBI	Job identifier as known by JES
(20)	CHARACTER	8	WTAISNAM	MVS System name (CVTSNAM)
(28)	CHARACTER	4	WTAISTOK	MVS Instance Token (QUASSID)
(2C)	BITSTRING	1	WTAISTAT	MVS System State
			WTAISPRT	"X'80" ..In Sysplex Partitioning
			WTAILOCL	"X'40" ..In XCFLOCAL mode
(2D)	CHARACTER	1	(3)	Reserved
			WTAIJLEN	""-WTAARGS" Length of arguments for ..Inquire Job Status
(30)	CHARACTER	8	WTAITCAN	Job name for CANCEL command
(38)	CHARACTER	4	WTAITJES	JES subsystem name
(3C)	HALFWORD	2	WTAITASI	Address space indentifier
(3E)	HALFWORD	2		Reserved OLD CICS ACTIVE WAIT FOR TERMINATION DATA:
(40)	FULLWORD	4	WTAIJESI	JES delay interval
			WTATILEN	""-WTAARGS" Length of arguments for ..Takeover Initiation
			WTAVCLEN	""-WTAARGS" Length of arguments for ..Verify CLT
(44)	CHARACTER	4	WTAISSID	External subsystem id.
			WTASCLEN	""-WTAARGS" Length of arguments for ..Issue subssystem command
			WTATELEN	""-WTAARGS" Length of arguments for ..Terminate External subsystem
			WTAVALEN	""-WTAARGS" Length of arguments for ..Verify AXI

Offset Hex	Type	Len	Name (Dim)	Description
Modify Uservar Overseer Operator Command Disable XRF services				
	.... ....		WTADXLN	"*-WTAARGS" Length of arguments for ..Disable Services
	.... ....		WTAMULEN	"*-WTAARGS" Length of arguments for ..Modify Uservar
(4)	CHARACTER	5	WTAOCOMD (0)	Command data
(4)	ADDRESS	4	WTAOCAD	Address of command string
(8)	BITSTRING	1	WTAOCCL	Command string length (Maximum ..length 126 characters)
	.... ..1.1		WTAOCLEN	"*-WTAARGS" Length of arguments for ..Overseer Command
Inquire System Details				
(4)	CHARACTER	8	WTAGSNAM	MVS System Name (CVTSNAM)
(C)	CHARACTER	4	WTAGSTOK	MVS Instance Token (QUASSID)
(10)	BITSTRING	1	WTAGSTAT	MVS System State
	1... ....		WTAGSPRT	"X'80" ...In Sysplex Partitioning
	..1. ....		WTAGLOCL	"X'40" ...In XCFLOCAL mode
	.... 11.1		WTAGSLEN	"*-WTAARGS" Length of arguments for ...Inquire System details
	..1. 1..		WTALEN	"*-DFHWTADS" Overall length
...as in MVS DSECT SSOB Request Function codes (WTAFUNC)				
	.... ..1		WTAFTI	"X'01" Takeover Initiation
	.... ..1.		WTAFJS	"X'02" Inquire Job Status
	.... ..11		WTAFVC	"X'03" Verify CLT
	.... ..1..		WTAFOC	"X'04" Overseer Operator Command
	.... ..1.1		WTAFMU	"X'05" Issue 'F USERVAR'
	.... ..11.		WTAFLCL	"X'06" Process CLT only
	.... ..111		WTAFFE	"X'07" Terminate External Subsystem
	.... 1...		WTAFVA	"X'08" Verify AXI
	.... 1..1		WTAFSC	"X'09" Issue subsystem command
	.... 1.1.		WTAFDX	"X'0A" Disable XRF services
	.... 1.11		WTAFIS	"X'0B" Inquire MVS system details
Request Modifiers Takeover initiation				
	.... ..1		WTATICM	"X'01" Do not terminate active job
	.... ..1.		WTATIPC	"X'02" Do not process CLT
	.... ..1..		WTATICS	"X'04" Process CLT for same CEC only
Process CLT				
	.... ..1..		WTATPCS	"WTATICS" Process CLT for same CEC only
Takeover external subsystem				
	.... ..1		WTATECM	"WTATICM" Do not terminate active system
Verify AXI				
	.... ..1		WTAVANCN	"X'01" Do not check cancel name in AXI
	.... ..1.		WTAVANSS	"X'02" Do not check subsystem id.
Command Codes (WTAISCMD) Issue Subsystem Command				
	.... ..1		WTASCERE	"1" /ERE
	.... ..1.		WTASCSWT	"2" /SWITCH STANDBY SYSTEM
RETURN CODES: Contents of register 15 on return				
	.... ....		WTARCO	"0" Successful: Warning reason ..code may be supplied in R0
	.... 1...		WTARCF	"8" Failure: Failure reason ..code supplied in R0
Contents of register zero on return Byte 0 Original function code Byte 1 Original modifier Bytes 2-3 Reason code as below Reason code values Any request type Failures				
	.... ..1..		WTARISD	"X'0004" Service disabled
	.... 1...		WTARIAA	"X'0008" Invalid request or argument
Takeover Initiation Warnings				
	.... 11..		WTARIDV	"X'000C" CEC Dead Data request failed ..due to SSI VERIFY request ..failure
	....1 ....		WTARIDG	"X'0010" CEC Dead Data PUT failed due ..GETMAIN failure
	....1 ..1..		WTARITF	"X'0014" Terminate command failed
Failures				
	....1 1...		WTARIAF	"X'0018" Authorization check failed
	....1 11..		WTARIAS	"X'001C" AFCS not found
Inquire Job Status Successful:				
	.... ....		WTARJNX	"X'0000" Job not executing - says JES
	....1. ....		WTARJSX	"X'0020" Job executing
	....1. ....1		WTARXNX	"X'0021" Job not executing - says XCF

Offset Hex	Type	Len	Name (Dim)	Description
<b>Failures</b>				
	.1. .11		WTARJXF	"X'0023" IXCQUERY failure
	.1. .1..		WTARJNU	"X'0024" JES not up
	.1. .1.1		WTARJSSG	"X'0025" subt. stor. Getmain failed
	.1. .11.		WTARJSAT	"X'0026" Subtask Attach failed
	.1. .111		WTARJSTO	"X'0027" Subtask TimeOut
	.1. 1..		WTARJSE	"X'0028" Subtask error
	.1. 1.1		WTARJJDE	"X'0029" Jes Detected Error
<b>Verify CLT</b>				
<b>Failures:</b>				
	.1.1 1..		WTARVAF	"WTARIAF" Authorization check failed
	.1.1 11..		WTARVAS	"WTARIAS" AFCS not found
	.1. 11..		WTARVNF	"X'002C" Cancel name check failed
	.11 ....		WTARVMF	"X'0030" MVS SID check failed
	.11 .1..		WTARVJF	"X'0034" JES subsystem name check failed
	.11 1..		WTARVSF	"X'0038" Subsystem name check failed
<b>Overseer Operator Command</b>				
<b>Failures:</b>				
	.11 11..		WTARONA	"X'003C" Not authorised
<b>Process CLT</b>				
<b>Failures:</b>				
	.1.1 1..		WTARPAF	"WTARIAF" Authorization check failed
	.1.1 11..		WTARPAS	"WTARIAS" AFCS not found
	.1. ....		WTARIMC	"X'0040" Modify uservar CSCB not found
	.1. .1..		WTARIMB	"X'0044" Modify uservar command too long
	.1. 1..		WTARIMS	"X'0048" Modify uservar MGCR SVC error
	.1. 11..		WTARIMV	"X'004C" Modify uservar ISTARVT not found
<b>Issue Subsystem Command</b>				
<b>Failures:</b>				
	.1.1 ....		WTARCSF	"X'0050" SSI failure
	.1.1 .1..		WTARCCF	"X'0054" Command failure
<b>Inquire System Details command</b>				
<b>Successful:</b>				
	.11. ....		WTARSOK	"X'0060" Inquire system details OK
	.11. .1.1		WTARSNFN	"X'0061" Named system not in sysplex
<b>Failures:</b>				
	.11. .1.1		WTARSLOG	"X'0065" IXCQUERY Logic error

Contents of register 1 on return  
 Subtask failure indicators  
 For Takeover Initiation, Terminate Subsystem  
 and Inquire Job Status :-  
 SSI/Subtask error status data

Offset Hex	Type	Len	Name (Dim)	Description
(0)			WTARCR1	
(0)	FULLWORD	4	WTARSSRC (0)	SSI/Subtask error flags
(0)	BITSTRING	1	WTARSJND	STATUS error indicators:
	1... ....		WTARSJNC	"X'80" STATUS has hung. When caller TCB ..terminates it must do so by ..issuing ABEND. Other indicators ..in Reg 1 are unreliable.
	.... .1.1		WTARSJNJ	"X'01" SSOBRETN byte 3 from IEFSSREQ ..STATUS in WTARSJSE
	.... .1.1		WTARSJNS	"X'02" R15 byte 3 from IEFSSREQ ..STATUS in WTARSJSE
	.... .1..		WTARSJNG	"X'04" Subtask/exit routine storage ..GETMAIN failed
	.... 1..		WTARSJNA	"X'08" Subtask ATTACH failed
	.... .1.1		WTARSJNT	"X'10" Subtask timeout occurred
(1)	BITSTRING	1	WTARSJSE	SSI return code from STATUS ..as in MVS DSECT SSOB
(2)	BITSTRING	1	WTARSVND	SSI VERIFY/COMMAND errors
	.... .1.1		WTARSVNJ	"X'01" SSOBRETN byte 3 from IEFSSREQ ..in WTARSVSE
	.... .1.1		WTARSVNS	"X'02" R15 byte 3 after IEFSSREQ ..in WTARSVSE
	.... .1..		WTARSVNM	"X'04" CICS not an MVS subsystem
(3)	BITSTRING	1	WTARSVSE	SSI return code from VERIFY/COMMAND

## WTG XRF trace control area

CONTROL BLOCK NAME = DFHWTGPS  
 DESCRIPTIVE NAME = CICS (XRF) Trace Control area  
 FUNCTION =  
     Contains description of the XRF Trace area. There is a single instance.  
 LIFETIME =  
     Created on first call to XRF Trace (normally the result of the call to GET LIFO (DFHWLGET) made by XRF ATTACH (DFHWDATT) when called from INITIAL ATTACH (DFHWDINA) during the XRF SIGNON process.  
     Destroyed during XRF SIGNOFF.  
 STORAGE CLASS =  
     Non-CICS storage. Usually above 16M line.  
 LOCATION =  
     Addressed by WCGTRA in XRF Global area DFHWCGPS.  
 INNER CONTROL BLOCKS =  
     WTGAREA When DFHWTRP allocates the Trace control area it also allocates the trace area itself.  
     WTGAREA describes the header of the trace area.  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
     None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
 DATA AREAS =  
     None  
 CONTROL BLOCKS =  
     WCGTRA Base for trace control area.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	64	DFHWTGPS	Addressed from WS Global
(0)	CHARACTER	16	WTGAHDNG	Heading text - text is defined in WTGATEXT
(10)	ADDRESS	4	WTGSTART	Start of trace table
(14)	ADDRESS	4	WTGEND	End of trace table
(18)	ADDRESS	4	WTGNEXT	Next trace table entry
(1C)	BITSTRING	2	WTGFLAGS	
	1... ....		WTGFWRAP	Table has wrapped
(1C)	BITSTRING	1	*	Reserved
(1E)	HALFWORD	2	*	Reserved
(20)	CHARACTER	8	WTGCLOCK	Target for STCK instrn issued by DFHWTRP.
(28)	ADDRESS	4	*	Reserved
(2C)	UNSIGNED	4	*	Reserved
(30)	CHARACTER	8	WTGCOPY	Shifted copy of STCK
(30)	UNSIGNED	4	WTG1647	STCK bits 16-47
(38)	ADDRESS	4	WTGCSTEP	Address of latest clock step entry.
(3C)	ADDRESS	4	WTGENTRY	Work space for trace

### Constants

Len	Type	Value	Name	Description
4	DECIMAL	65536	WTGASIZE	Allocate 64K
Heading text				
16	CHARACTER	*** XRF TRACE **	WTGATEXT	



## WTR XRF trace interface

CONTROL BLOCK NAME = DFHWTRPS  
 DESCRIPTIVE NAME = CICS (XRF) XRF Trace Interface  
 FUNCTION =  
     XRF Trace parameter block description used by a caller of trace as a template to build a parameter block to pass to trace (DFHWTRP).  
 LIFETIME =  
     Duration of this particular use of storage is a single call to trace.  
 STORAGE CLASS =  
     User's discretion subject to lifetime constraint.  
 LOCATION =  
     Address is passed to DFHWTRP in Register 1.  
 INNER CONTROL BLOCKS =  
     WTRENTY This defines the structure of the entries in the XRF trace area and includes DFHWTRPS itself.  
     WTRXxx Several definitions of the contents of the user parts of trace entries for the various primary entry types. DFHWTRPS also contains declarations of the values for the primary types and subtypes of the trace table entries.

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
     None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
 DATA AREAS =  
     None  
 CONTROL BLOCKS =  
     None  
 GLOBAL VARIABLES (Macro pass) =  
     None  
 Interface to trace and user data part of trace entry

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	28	DFHWTRPS	
(0)	CHARACTER	2	WTRTYPE	Entry type
(0)	UNSIGNED	1	WTRPRITP	Primary type code
(1)	UNSIGNED	1	WTRSUBTP	Subtype code
(2)	HALFWORD	2	WTRXPBNO	Process id. (set by trace routine not caller)
(4)	CHARACTER	24	WTRUSFLD	User fields

Trace Entry format

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	32	WTRENTY	
(0)	CHARACTER	28	WTRUDATA	User data part
(1C)	UNSIGNED	4	WTRCLOCK	Bits 15-46 of STCK value relative to last midnight
(20)	CHARACTER		WTREND	

Specific trace entry formats.

Linkage

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	WTRX01	Call
(0)	CHARACTER	8	WTRX01NM	Module name
(8)	ADDRESS	4	WTRX01LA	LIFO allocation address

Dispatcher  
Usage is: WTRSTATT - WTRX021 = WDSIEPA (ATTACH argument)  
22 = WDSIIDA  
23 = WDSIESPIE  
24 = WDSSESTAE  
25 = Addr of attached process XPB  
26 = Process id. of attached proc.

WTRSTDET - No data  
WTRSTDSP - WTRX021 = WXBEECBA  
22 = WXBIECBA  
23 = WXBWEVM  
24 = WXBPEVM  
25 = Addr of process XPB  
26 = WXBHLKM

WTRSTXWE - WTRX021 = WDSEECBA (WAIT arguments)  
22 = WDSIECBA  
23 = WDSWEVM  
24 = WDSPEVM  
25 = WDSREVM

WTRSTXWL - WTRX021 = WDSFLKM (WAIT arguments)  
22 = WDSGLKM  
25 = WDGGLKSM  
26 = WXBHLKM

WTRSTEND - No data  
WTRSTOSW - WTRX025 = Addr of MVS WAIT list  
26 = Number of events in list  
WTRSTOSR - No data

Offset	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	24	WTRX02	Dispatcher
(0)	ADDRESS	4	WTRX021	Field 1
(4)	ADDRESS	4	WTRX022	Field 2
(8)	ADDRESS	4	WTRX023	Field 3
(C)	ADDRESS	4	WTRX024	Field 4
(10)	ADDRESS	4	WTRX025	Field 5
(14)	ADDRESS	4	WTRX026	Field 6

Message Manager I/O

Offset	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	12	WTRX03	Call
(0)	ADDRESS	4	WTRX03RP	RPL address
(4)	ADDRESS	4	WTRX03RB	RBA of CI
(8)	CHARACTER	1	*	Reserved
(9)	CHARACTER	3	WTRX03FB	VSAM Feedback

Message Manager Requests  
Usage is: WTRSTENQ - WTRX042 = Queue name  
43 = Message sequence number  
44 = Address of message block

WTRSTWRT - WTRX042 = QUEUE name  
43 = Message sequence number  
44 = Message cycle number  
45 = RBA of message  
46 = Response to request

WTRSTRQO - WTRX041 = Instance number  
42 = Version number  
43 = Message sequence number  
44 = Channel number  
45 = Channel status  
46 = Response to request

WTRSTRPO, WTRSTRQI, WTRSTRPI same as WTRSTRQO

Offset	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	24	WTRX04	Message manager requests
(0)	CHARACTER	8	WTRX04IV	Instance/Version
(0)	ADDRESS	4	WTRX041	Field 1
(4)	ADDRESS	4	WTRX042	Field 2
(8)	ADDRESS	4	WTRX043	Field 3
(C)	ADDRESS	4	WTRX044	Field 4
(10)	ADDRESS	4	WTRX045	Field 5

Offset Hex	Type	Len	Name (Dim)	Description
(14)	ADDRESS	4	WTRX046	Field 6
(14)	CHARACTER	2	*	Filler
(16)	CHARACTER	2	WTRX046R	Field 6R

Clock step

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	20	WTRXFE	Clock step
(0)	CHARACTER	8	WTRXFECK	Actual STCK value
(8)	UNSIGNED	4	WTRXFEOB	Old midnight value
(C)	UNSIGNED	4	WTRXFENM	New midnight value
(10)	ADDRESS	4	WTRXFEPE	Previous clock step entry

Reserved

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE		WTRXFF	Reserved
(0)	CHARACTER		*	Reserved

## Constants

Len	Type	Value	Name	Description
1	DECIMAL	1	WTRPTLNK	Link
1	DECIMAL	1	WTRSTCAL	Link - Call
1	DECIMAL	2	WTRSTRTN	Link - Return
1	DECIMAL	2	WTRPTDSP	Dispatcher
1	DECIMAL	1	WTRSTATT	Disp - Process Attach
1	DECIMAL	2	WTRSTDET	Disp - Process Detach
1	DECIMAL	3	WTRSTDSP	Disp - Process Dispatch
1	DECIMAL	4	WTRSTXWE	Disp - XRF Wait (events)
1	DECIMAL	5	WTRSTXWL	Disp - XRF Wait (locks)
1	DECIMAL	6	WTRSTEND	Disp - No process
1	DECIMAL	7	WTRSTOSW	Disp - OS WAIT
1	DECIMAL	8	WTRSTOSR	Disp - OS dispatch
1	DECIMAL	3	WTRPTMMV	Message Manager I/O
1	DECIMAL	1	WTRSTVGT	MMV - VSAM GET Request
1	DECIMAL	2	WTRSTVPT	MMV - VSAM PUT Request
1	DECIMAL	3	WTRSTRVP	MMV - VSAM Response
1	DECIMAL	4	WTRPTMMR	Message Manager Requests
1	DECIMAL	1	WTRSTENQ	MMR - GET Message ENQ
1	DECIMAL	2	WTRSTWRT	MMR - PUT Message out
1	DECIMAL	3	WTRSTRQO	MMR - RQR Request Out
1	DECIMAL	4	WTRSTRPO	MMR - RQR Response Out
1	DECIMAL	5	WTRSTRQI	MMR - RQR Request In
1	DECIMAL	6	WTRSTRPI	MMR - RQR Response In
1	DECIMAL	254	WTRPTCLK	Clock step
1	DECIMAL	255	WTRPTRSV	Reserved

## WXB XRF process block

CONTROL BLOCK NAME = DFHWXBPS  
 DESCRIPTIVE NAME = CICS (XRF) Process Block  
 FUNCTION =  
     XRF process analogue of the CICS TCA supporting the XRF LIFO mechanism and process dispatching.  
 LIFETIME =  
     Created by XRF ATTACH (DFHWDATT) and destroyed when process returns (DFHWDISP).  
     Artificial instances are sometimes created by other modules, e.g. DFHWMS10, when they wish to create an environment in which the XRF LIFO mechanism can be used, though such instances are never visible to the XRF process dispatcher.  
 STORAGE CLASS =  
     Non-CICS storage. Usually in MVS subpool 0 storage above 16M line.  
 LOCATION =  
     Conventionally addressed by R12. Those created by ATTACH are also on the XRF dispatcher chain WDGFXPB.  
 INNER CONTROL BLOCKS =  
     None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
     None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
     None  
 DATA AREAS =  
     None  
 CONTROL BLOCKS =  
     None.  
 GLOBAL VARIABLES (Macro pass) =  
     None

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	144	DFHWXBPS	XRF Process block (XPB)
(0)	CHARACTER	48	WXBDSTAT	Dispatcher state data
Dispatcher chain and LIFO anchors				
(0)	CHARACTER	24	WXBBASE	Basic part
(0)	ADDRESS	4	WXBCHAIN	Next XPB in dispatcher chain
(4)	FULLWORD	4	WXBSIZE	Size of block
(8)	ADDRESS	4	WXBLA	Current LIFO addr
(C)	ADDRESS	4	WXBGLBLA	WS Global address
(10)	HALFWORD	2	WXBXPBNO	Process identifier
(12)	BITSTRING	2	WXBPFLGS	Flags
			1... .. WXBFWAIT	Process issued a WAIT
			.1.. .. WXBFXRF	XRF Process XPB
(12)	BITSTRING	1	*	Spare
(14)	ADDRESS	4	WXBLBLKA	Current LIFO block addr
Locks and events				
(18)	CHARACTER	24	WXBLED	Lock and event data
(18)	ADDRESS	4	WXBEECBA	External event address
(1C)	ADDRESS	4	WXBIECBA	Internal event address
(20)	BITSTRING	4	WXBWEVM	Broadcast events waited
(24)	BITSTRING	4	WXBPEVM	Broadcast events posted
(28)	BITSTRING	4	WXBRLKM	Freed locks mask
(2C)	BITSTRING	4	WXBHLKM	Locks held mask
Dispatcher save area				
(30)	CHARACTER	64	WXBDSVA	Dispatcher register save area.
(30)	ADDRESS	4	WXBDSV00	Register 0 save slot
(34)	ADDRESS	4	WXBDSV01	Register 1 save slot
(38)	ADDRESS	4	WXBDSV02	Register 2 save slot
(3C)	ADDRESS	4	WXBDSV03	Register 3 save slot
(40)	ADDRESS	4	WXBDSV04	Register 4 save slot
(44)	ADDRESS	4	WXBDSV05	Register 5 save slot
(48)	ADDRESS	4	WXBDSV06	Register 6 save slot
(4C)	ADDRESS	4	WXBDSV07	Register 7 save slot
(50)	ADDRESS	4	WXBDSV08	Register 8 save slot
(54)	ADDRESS	4	WXBDSV09	Register 9 save slot
(58)	ADDRESS	4	WXBDSV10	Register 10 save slot
(5C)	ADDRESS	4	WXBDSV11	Register 11 save slot
(60)	ADDRESS	4	WXBDSV12	Register 12 save slot
(64)	ADDRESS	4	WXBDSV13	Register 13 save slot
(68)	ADDRESS	4	WXBDSV14	Register 14 save slot
(6C)	ADDRESS	4	WXBDSV15	Register 15 save slot

Offset Hex	Type	Len	Name (Dim)	Description
Data from ATTACH				
(70)	ADDRESS	4	WXBIDA	Initial data parameter
(74)	ADDRESS	4	WXBESPIE	ESPIE exit address
(78)	ADDRESS	4	WXBESPDA	ESPIE parameter
(7C)	ADDRESS	4	WXBESTAE	ESTAE exit address
(80)	ADDRESS	4	WXBESTDA	ESTAE parameter
(84)	ADDRESS	4	* (3)	Reserved
Dummy stack block starts at end of XPB.				
(90)	CHARACTER		WXBISB	Dummy stack block

Overlay of status used when XPB is a dummy built simply to gain access to LIFO support.

Offset Hex	Type	Len	Name (Dim)	Description
(18)	STRUCTURE	8	WXBCICS	
(18)	ADDRESS	4	WXBTC A	TCA address of task which is using this XPB.
(1C)	ADDRESS	4	WXBCSA	CSA address

## Constants

Len	Type	Value	Name	Description
2	DECIMAL	-1	WXBPNDSP	Dispatcher pseudo-process
2	DECIMAL	-2	WXBPNSRP	Error pseudo-process

## WXL XRF LIFO stack area

CONTROL BLOCK NAME = DFHWXLPS  
 DESCRIPTIVE NAME = CICS (XRF) XRF LIFO Stack Areas  
 FUNCTION =  
 Control data at the beginning of a block of storage from which XRF LIFO storage is allocated.  
 LIFETIME =  
 Created by GET LIFO (DFHWLGET) when a new stack block is acquired for an XRF process.  
 Destroyed by FREE LIFO (DFHWLFRE) when a all allocations of LIFO in the block have been released.  
 An instance is also imbedded within an XRF process block (DFHWXBPS) to provide a first block containing space for just a standard OS Save Area used when a process is first dispatched.  
 STORAGE CLASS =  
 Non-CICS storage. MVS subpool 0 storage above 16M line.  
 LOCATION =  
 WXBLBLKA addresses the currently active stack block for a given XRF process.  
 INNER CONTROL BLOCKS =  
 WXLHDR Describes the allocation header which precedes each individual LIFO allocation within a LIFO stack block. The current allocation for a given XRF process is addressed by WXBLA.  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 None  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
 DATA AREAS =  
 None  
 CONTROL BLOCKS =  
 WXBLBLKA  
 WXBLA  
 GLOBAL VARIABLES (Macro pass) =  
 None  
 Stack Block header

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	DFHWXLPS	XRF LIFO Stack block hdr
(0)	ADDRESS	4	WXLPREV	Previous block address
(4)	ADDRESS	4	WXLBOS	Bottom of this block
(8)	ADDRESS	4	WXL EOS	End of this block
(C)	ADDRESS	4	WXLNAB	Next available byte in the block.
(10)	CHARACTER		WXL END	

Allocation header

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	WXL AHDR	XRF LIFO Allocation header
(0)	CHARACTER	8	WXL AHID	Module identifier
(8)	ADDRESS	4	WXL AHPLA	Previous LIFO allocation
(C)	FULLWORD	4	WXL AHALN	Length of allocation (not including this header).
(10)	CHARACTER		WXL AHEND	

## XCTRC Parameter list definition

CONTROL BLOCK NAME = DFHXCTRC  
 DESCRIPTIVE NAME = CICS External CICS Interface, DFHXCTRA  
 Parameter list definition.  
 FUNCTION = This file contains the XCTRA\_PLIST definition. This DSECT defines the parameter list between DFHXCTRP (the EXCI trace module) and DFHXCTRA (the EXCI global trap module). Akin the CICS trap module DFHTRAP.  
 If DFHXCTRA is active, (by having TRAP=YES defined in DFHXCOPTS), then DFHXCTRA will be invoked for every trace entry put out by the EXCI facility.  
 LIFETIME = The storage mapped by this DSECT is GETMAINED by DFHXCTRI on the very first Init user request on every TCB, and kept until TCB termination.  
 LOCATION = The XCTRA\_PLIST dsect is actually part of a larger control block called TRAP\_WA (also included in this copy book), which includes the areas pointed at by fields in XCTRA\_PLIST. TRAP\_WA is chained off the XCGLOBAL for the TCB.  
 NOTES :  
 DEPENDENCIES = S/390  
 RESTRICTIONS = None.  
 MODULE TYPE = Control block definition  
 XCTRL - Mapping of LIFO storage required by DFHXCTRP, DFHXCTRI and DFHXCDMP.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	534	XCTRL	
(0)	CHARACTER	72	RSA	Save Area for external calls
(0)	FULLWORD	4	*	Reserved
(4)	FULLWORD	4	RSACB	Backward Pointer
(8)	FULLWORD	4	RSACF	Forward Pointer
(C)	FULLWORD	4	*(15)	Regs 14 - 12
(48)	ADDRESS	4	PLIST_PTR	Pointer to base plist on
(4C)	FULLWORD	4	AREA_LENGTH	Used in table initialisation
(50)	FULLWORD	4	BLOCK_COUNT	Used in table initialisation
(54)	FULLWORD	4	I	Loop Index
(58)	FULLWORD	4	J	Loop Index
(5C)	ADDRESS	4	BACKPTR	Used in table initialisation
(60)	ADDRESS	4	TR_BLOCK_PTR	Base for DFHTRBL structure
(64)	FULLWORD	4	SAVER14	area to save R14
(68)	FULLWORD	4	SAVE2R14	area to save R14
(6C)	BITSTRING	1	FOOTPRINTS	Footprint flags
	1... ..		TRA_FREEMAIN_REQ	Freemain of DFHTRA required
	.1.. ..		TABLE_FREEMAIN_REQ	Freemain of Trace table req.
	..1. ....		TRAP_WA_FREEMAIN_REQ	Freemain of trap wa required
	...1 ....		GTF_BUF_FREEMAIN_REQ	Freemain of GTF buffer req.
	.... 1...		MOVING_DATA	Moving Data into trace table

Offset Hex	Type	Len	Name (Dim)	Description
	.... .1..		TRAP_IN_CONTROL	Control passed to DFHXCTRA.
	.... ..1.		OVERLENGTH_ENTRY	overlength entry detected
	.... ...1		*	Reserved
(6D)	BITSTRING	1	* (3)	Reserved
(70)	CHARACTER	16	XCSVC_PLIST	Parameter list to call XCSVC
(70)	ADDRESS	4	XCSVC_CODEP	Pointer to dump code
(74)	ADDRESS	4	XCSVC_IDP	Pointer to dump id
(78)	ADDRESS	4	XCSVC_USERP	Pointer to user name
(7C)	ADDRESS	4	XCSVC_TCBP	Pointer to TCB address
(80)	CHARACTER	8	WORK8	Work area for CVD and unpack
(88)	CHARACTER	8	TCBA_STR	Char form of TCB address
(90)	CHARACTER	3	WORK3	work area
(93)	CHARACTER	4	SDUMP_RC	Save area for SDUMP rc
(97)	CHARACTER	9	WORK9	Work area
(A0)	CHARACTER	5	WORK5	Work area
(A5)	CHARACTER	4	WORK4	work area
(A9)	CHARACTER	3	*	reserved
(AC)	HALFWORD	2	INDEX	Index into string
(AE)	HALFWORD	2	RETRY_TIME_TO_GO	SDUMP retry time left
(B0)	ADDRESS	4	MSG_PLIST_PTR	Pointer to mebm plist
(B4)	BITSTRING	1	XCDMP_FOOTPRINTS	footprints for XCDMP
	1... ..		STIMERM_FAILED	remember STIMERM failed
	.1.. ....		BUSY_MSG_ISSUED	Only issue busy msg once
	..1. ....		SYSTEM_DUMP_TKN	sdump has been taken
	...1 1111		*	Reserved
(B5)	BITSTRING	1	* (3)	Reserved
(B8)	CHARACTER	184	MSG_PARM_AREA	plist for MEBM
(170)	CHARACTER	132	XCTRL_MSG	Message buffer
(170)	HALFWORD	2	XCTRL_MSG_LEN	LL
(172)	HALFWORD	2	XCTRL_MSG_0	BB
(174)	CHARACTER	124	XCTRL_MSG_TEXT	Maximum size msg output
(1F0)	CHARACTER	4	XCTRL_MSG_WTO_PARMS	
				Space for extra WTO parms
(1F4)	ADDRESS	4	GTF_PTR	Address of data for GTRACE
(1F8)	HALFWORD	2	GTF_LEN	Length of data for GTRACE
(1FA)	HALFWORD	2	GTF_LTG	Length-to-go for GTRACE
(1FC)	ADDRESS	4	ENTRY_PTR	Ptr to entry in table
(200)	HALFWORD	2	ENTRY_LEN	Entry length
(202)	CHARACTER	8	GTRACE_AUTO	Parameter area for GTRACE
(20A)	CHARACTER	12	XCTRL_SYMP_STR	symptom string
(20A)	CHARACTER	8	XCTRL_SYMP_STR_USER	
				user name
(212)	CHARACTER	2	XCTRL_SYMP_STR_TPT	
				trace point id
(214)	CHARACTER	2	*	Reserved

XCTRA\_PLIST - Parameter list passed to Global trap DFHXCTRA

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	64	XCTRA_PLIST	
				XCTRA_ FLGSA Address of return actions flag word Return actions flag settings are in the byte addressed from field XCTRA_ FLGSA in the parameter list to DFHXCTRA. The individual flag settings are as follows, and are declared as constants at the end of the structure.
				XCTRA_ FTRE EQU X'80' .. Make further trace entry on behalf of trap exit
				XCTRA_ DUMP EQU X'40' .. Take a system dump
				XCTRA_ SKIP EQU X'20' .. Skip putting current trace entry out to GTF
				XCTRA_ DISA EQU X'10' .. Disable trap so that it cannot be used again under this TCB.
				Any combination of these flags may be set and wherever possible all requested actions will be honoured upon return to DFHXCTRP.
(0)	ADDRESS	4	XCTRA_FLGSA	A(Return actions flag word)
				XCTRA_CURTA Address of current entry in internal trace table This field points to the trace entry constructed by DFHXCTRP on the same invocation for which it is calling DFHXCTRA. This entry should not be modified by DFHXCTRA. Its structure is mapped by the DSECT DFHTREN.
(4)	ADDRESS	4	XCTRA_CURTA	A(Current entry)
				XCTRA_WORKA Address of 80-byte work area for DFHXCTRA. This work area is acquired when DFHXCTRA is activated and is not changed by the EXCI until DFHXCTRA is de-activated, so it may be used for saving information between invocations of DFHXCTRA.

Offset Hex	Type	Len	Name (Dim)	Description
(8)	ADDRESS	4	XCTRA_WORKA	A(80-byte work area)
<p>TRAD1A/L, TRAD2A/L and TRAD3A/L                      These six fields are used in conjunction with the setting of XCTRA_FTRE in the return actions flag byte. This flag indicates that DFHXCTRP should make a further trace entry. TRADnA/L are address and length pairs for the data fields to be included in this entry. If XCTRA_FTRE is set, DFHXCTRP examines the length fields in turn. All fields up to the first with a zero length will be included in the extra trace entry.</p>				
(C)	CHARACTER	24	XCTRA_TRDAT	Total length of data fields
(C)	ADDRESS	4	XCTRA_TRAD1A	Address of DATA1 information
(10)	UNSIGNED	4	XCTRA_TRAD1L	Length of DATA1 information
(14)	ADDRESS	4	XCTRA_TRAD2A	Address of DATA2 information
(18)	UNSIGNED	4	XCTRA_TRAD2L	Length of DATA2 information
(1C)	ADDRESS	4	XCTRA_TRAD3A	Address of DATA3 information
(20)	UNSIGNED	4	XCTRA_TRAD3L	Length of DATA3 information
<p>XCTRA_XCGLOBALA - Address of the XCGLOBAL block for this TCB.                      Address may be 0 if block not set up yet.</p>				
(24)	ADDRESS	4	XCTRA_XCGLOBALA	A(XCGLOBAL block)
<p>XCTRA_XCUSERA - Address of the XCUSER block representing the particular user on whose behalf this request is running.                      Address may be 0 if block not set up yet.</p>				
(28)	ADDRESS	4	XCTRA_XCUSERA	A(XCUSER block)
<p>XCTRA_XCPIPEA - Address of the XPIPE block representing the particular pipe being used for this request for this user.                      Address may be 0 if block not set up yet.</p>				
(2C)	ADDRESS	4	XCTRA_XCPIPEA	A(XCPIPE)
<p>XCTRA_XCPRH_WAA - Address of the working storage of the program request handler.                      Address may be 0 if block not set up yet.</p>				
(30)	ADDRESS	4	XCTRA_XCPRH_WAA	A(DFHXCPRH's working storage)
<p>XCTRA_XCEIP_WAA - Address of the working storage of the EXEC Interface program.                      Address may be 0 if block not set up yet, or the EXCI EXEC Interface is not being used.</p>				
(34)	ADDRESS	4	XCTRA_XCEIP_WAA	A(DFHXCEIP's working storage)
<p>XCTRA_RSAA - Address of the register save area to be used by DFHXCTRA.</p>				
(38)	ADDRESS	4	XCTRA_RSAA	RSA address
(3C)	ADDRESS	4	*	Reserved
(40)	CHARACTER		XCTRA_PLIST_END	Ending address

TRAP\_WA - Work areas for Global trap DFHXCTRA

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	976	TRAP_WA	
(0)	CHARACTER	72	TRAP_REGSAVE	RSA for DFHXCTRA
(48)	CHARACTER	64	TRAP_PLIST	
(88)	BITSTRING	1	TRAP_FLAGS	Trap return action flags
			TRAP_TRACE	Further trace entry required
			TRAP_DUMP	system dump required
			TRAP_SKIP_GTF	Skip outputting entry to GTF
			TRAP_DISABLE	Disable the trap
			*	Reserved
(89)	BITSTRING	3	*	Reserved
(8C)	CHARACTER	128	TRAP_TR_DU_PLIST	Area for plist for calling trace and dump
(10C)	CHARACTER	534	TRAP_TR_DU_WS	Working stg required for recursive Trace call.
(322)	CHARACTER	72	TRAP_TR_DU_RSA	RSA for recursive trace call
(370)	CHARACTER	96	TRAP_WORK	Force D-word alignment for..
(370)	CHARACTER	16	TRAP_WORK_EYEC	'>DFHXCTRA_WKAREA' eyecatcher
(380)	CHARACTER	80	TRAP_WORKAREA	Work area for DFHXCTRA



## Constants

Len	Type	Value	Name	Description
1	HEX	80	XCTRA_FTRE	
1	HEX	40	XCTRA_DUMP	
1	HEX	20	XCTRA_SKIP	
1	HEX	10	XCTRA_DISA	

External CICS Interface Trace Points

Note: The exception trace point IDs correspond to the EXCI return code values for the particular error. Please consult DFHXCRCC if any changes are made.

2	HEX	0001	XCPRH_PIPE_ ALREADY_OPEN	
2	HEX	0002	XCPRH_PIPE_ ALREADY_CLOSED	
2	HEX	0003	XCPRH_VERIFY_ BLOCK_FM_ERROR	
2	HEX	0005	XCPRH_XCP_FM_ERR	
2	HEX	0006	XCPRH_IRP_ IOAREA_FM_ERR	
2	HEX	0007	XCPRH_SERVER_ TERMINATED	
2	HEX	0008	XCPRH_XFRSTG1_ FM_ERR	
2	HEX	0201	XCPRH_NO_ CICS_IRC_STARTED	
2	HEX	0202	XCPRH_NO_PIPE	
2	HEX	0203	XCPRH_NO_ CICS_ON_OPEN	
2	HEX	0204	XCPRH_NO_ CICS_ON_DPL_1	
2	HEX	0205	XCPRH_NO_ CICS_ON_DPL_2	
2	HEX	0206	XCPRH_NO_ CICS_ON_DPL_3	
2	HEX	0403	XCPRH_INVALID_ APPL_NAME	
2	HEX	0405	XCPRH_PIPE_ NOT_CLOSED	
2	HEX	0406	XCPRH_PIPE_ NOT_OPEN	
2	HEX	0407	XCPRH_INVALID_ USERID	
2	HEX	0408	XCPRH_INVALID_ UOWID	
2	HEX	0409	XCPRH_INVALID_ TRANSID	
2	HEX	0414	XCPRH_ABORT_ RECEIVED	
2	HEX	0415	XCPRH_INVALID_ CONNECTION	
2	HEX	0416	XCPRH_INVALID_ CICS_RELEASE	
2	HEX	0417	XCPRH_PIPE_ MUST_CLOSE	
2	HEX	0418	XCPRH_INVALID_ PIPE_TOKEN	
2	HEX	0422	XCPRH_SERVER_ ABENDED	
2	HEX	0423	XCPRH_SURROGATE_ CHECK_FAILED	
2	HEX	0603	XCPRH_XCUSER_ GM_ERROR	
2	HEX	0604	XCPRH_XCPIPE_ GM_ERROR	
2	HEX	0605	XCPRH_VERIFY_ BLOCK_GM_ERROR	
2	HEX	0606	XCPRH_SSI_ VERIFY_FAILED	
2	HEX	0607	XCPRH_SVC_ CALL_FAILURE	
2	HEX	0608	XCPRH_IRP_ LOGON_FAILURE	
2	HEX	0609	XCPRH_IRP_ CONNECT_FAIL	
2	HEX	0610	XCPRH_IRP_ DISC_FAIL	
2	HEX	0611	XCPRH_IRP_ LOGOFF_FAILED	
2	HEX	0612	XCPRH_TRANSFORM_ 1_ERROR	
2	HEX	0613	XCPRH_TRANSFORM_ 4_ERR	
2	HEX	0614	XCPRH_IRP_ NULL_DATA	
2	HEX	0615	XCPRH_IRP_ NEG_RESPONSE	
2	HEX	0616	XCPRH_IRP_ SWITCH_PULL_ERR	
2	HEX	0617	XCPRH_IRP_ IOAREA_GM_ERR	
2	HEX	0619	XCPRH_IRP_ BAD_IOAREA	
2	HEX	0620	XCPRH_IRP_ PROTOCOL_ERR	
2	HEX	0621	XCPRH_PIPE_ RECOVERY_FAILURE	

Len	Type	Value	Name	Description
2	HEX	0622	XCPRH_ESTAE_ SETUP_FAIL	
2	HEX	0623	XCPRH_ESTAE_INVOKED	
2	HEX	0624	XCPRH_TIMEDOUT	
2	HEX	0625	XCPRH_STIMER_ SETUP_FAIL	
2	HEX	0626	XCPRH_STIMER_ CANCEL_FAIL	
2	HEX	0627	XCPRH_INCORRECT_ SVC_LVL	
2	HEX	0628	XCPRH_INCORRECT_ IRP_LVL	
2	HEX	0629	XCPRH_SERVER_ PROTOCOL_ERR	
2	HEX	0800	XCPRH_LENGERR	
2	HEX	0801	XCPRH_INVREQ	
2	HEX	0802	XCPRH_PGMIDERR	
2	HEX	0803	XCPRH_ROLDBACK	
2	HEX	0804	XCPRH_NOTAUTH	
2	HEX	0805	XCPRH_SYSDER	
2	HEX	0806	XCPRH_TERMERR	
2	HEX	1000	XCPRH_ENTRY	
2	HEX	1001	XCPRH_EXIT	
2	HEX	1010	XCEIP_ENTRY	
2	HEX	1011	XCEIP_EXIT	
2	HEX	2000	XCPRH_IRP_LOGON	
2	HEX	2001	XCPRH_IRP_CONN	
2	HEX	2002	XCPRH_IRP_DISC	
2	HEX	2003	XCPRH_IRP_LOGOFF	
2	HEX	2004	XCPRH_IRP_SWITCH	
2	HEX	2005	XCPRH_IRP_SWITCH_DATA	
2	HEX	2006	XCPRH_IRP_DATA	
2	HEX	2007	XCPRH_PRE_URM	
2	HEX	2008	XCPRH_POST_URM	
2	HEX	2009	XCPRH_PRE_RACROUTE	
2	HEX	200A	XCPRH_POST_RACROUTE	
2	HEX	0900	XCTRI_TRA_GM_ERROR	
2	HEX	0901	XCTRI_TRACE_ TABLE_GM_ERROR	
2	HEX	0902	XCTRI_TRAP_ WA_GM_ERROR	
2	HEX	0903	XCTRI_GTF_ BUFFER_GM_ERROR	
2	HEX	0904	XCTRP_OVERLENGTH_ ENTRY	
2	HEX	0905	XCTRA_REQUESTED_ ENTRY	
2	HEX	0906	XCTRI_TIME_ WA_GM_ERROR	
2	HEX	3000	XCEIP_ESTAE_ SETUP_ERROR	
2	HEX	3001	XCEIP_ESTAE_INVOKED	
2	HEX	3002	XCEIP_INV_CTYPE_ON_INIT	
2	HEX	3003	XCEIP_INV_VNUM_ON_INIT	
2	HEX	3004	XCEIP_INV_ ANAME_ON_INIT	
2	HEX	3005	XCEIP_INV_ CTYPE_ON_ALLOC	
2	HEX	3006	XCEIP_INV_ VNUM_ON_ALLOC	
2	HEX	3007	XCEIP_INV_ UTOKEN_ON_ALLOC	
2	HEX	3008	XCEIP_INV_ CTYPE_ON_OPEN	
2	HEX	3009	XCEIP_INV_ VNUM_ON_OPEN	
2	HEX	3010	XCEIP_INV_ UTOKEN_ON_OPEN	
2	HEX	3011	XCEIP_INV_ PTOKEN_ON_OPEN	
2	HEX	3012	XCEIP_INV_CTYPE_ON_DPL	
2	HEX	3013	XCEIP_INV_VNUM_ON_DPL	
2	HEX	3014	XCEIP_INV_ UTOKEN_ON_DPL	
2	HEX	3015	XCEIP_INV_ PTOKEN_ON_DPL	
2	HEX	3017	XCEIP_INV_USERID	
2	HEX	3018	XCEIP_PIPE_ NOT_OPEN_ON_DPL	
2	HEX	3019	XCEIP_PIPE_ MUST_CLOSE_ON_DPL	
2	HEX	3020	XCEIP_INV_ CTYPE_ON_CLOSE	
2	HEX	3021	XCEIP_INV_ VNUM_ON_CLOSE	
2	HEX	3022	XCEIP_INV_ UTOKEN_ON_CLOSE	

Len	Type	Value	Name	Description
2	HEX	3023	XCEIP_INV_ PTOKEN_ON_CLOSE	
2	HEX	3024	XCEIP_INV_ CTYPE_ON_DEALL	
2	HEX	3025	XCEIP_INV_ VNUM_ON_DEALL	
2	HEX	3026	XCEIP_INV_ UTOKEN_ON_DEALL	
2	HEX	3027	XCEIP_INV_ PTOKEN_ON_DEALL	
2	HEX	3028	XCEIP_PIPE_ NOT_CLOSED_ON_DEALL	
2	HEX	3029	XCEIP_RETRYING	
2	HEX	3030	XCEIP_SURROGATE_ CHK_FAIL_ON_DPL	
2	HEX	4000	XCGUR_ENTRY	
2	HEX	4001	XCGUR_EXIT	
2	HEX	4002	XCGUR_PRE_SVC	
2	HEX	4003	XCGUR_POST_SVC	
2	HEX	4004	XCGUR_RRS_ NOT_SUPPORTED	
2	HEX	4005	XCGUR_RRS_ERROR	
2	HEX	4006	XCGUR_SVC_EXCEPTION	
2	HEX	4007	XCGUR_GETMAIN_ERR	

## XFIOA Transformed MRO function

MACRO NAME = DFHXFIOA  
 DESCRIPTIVE NAME = CICS DFHXFX TRANSFORMED MRO FUNCTION  
 SHIPPING REQUEST AND REPLY DSECT  
 FUNCTION = THIS MACRO GENERATES THE DSECT USED BY THE FAST PATH  
 MRO FUNCTION SHIPPING TRANSFORMER ( DFHXFX ) TO  
 FORMAT TIOA'S USED TO SEND REQUESTS AND REPLIES FROM  
 ONE MRO REGION TO ANOTHER.  
 INPUT = THERE ARE NO PARAMETERS ON THIS MACRO.  
 OUTPUT = THE TIOA DSECT.  
 EXTERNAL REFERENCES = NONE

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHXFIOA	TIOA DSECT
THIS PART OF THE DSECT DESCRIBES THE FORMAT OF THE TIOA USED TO SEND REQUESTS. IT IS USED BY TRANSFORMERS 1 AND 2 ONLY.				
(0)	..... FULLWORD .... 11..	4	XRQDS (3) XRQSTART	"" TIOA HEADER "" START OF REQUEST DATA
COMMON REQUEST PARAMETERS				
(C)	CHARACTER	13	XRQFMHAR	AREA FOR ATTACH FMH
(19)	CHARACTER	2	XRQTAG	X'FFFF' MEANS XFX TIOA
(1B)	CHARACTER	9	XRQARG0	EIP'S ARG0 ON REQUESTS
(24)	HALFWORD	2	XRQDOFF	OFFSET OF DATA IN TIOA
(26)	HALFWORD	2	XRQPARMS (0)	GROUP SPECIFIC PARMS
FILE CONTROL REQUEST PARAMETERS				
(26)	CHARACTER	8	XRQFCDSN	DATA SET NAME
(2E)	HALFWORD	2	XRQFCDLN	DATA LENGTH
(30)	HALFWORD	2	XRQFCKLN	RIDFLD LENGTH
(32)	CHARACTER	2	XRQFCRQD	REQUEST ID
(34)	HALFWORD	2	XRQFCKOF	OFFSET OF KEY IN TIOA
(36)	CHARACTER	1	XRQFCKDA (0)	KEY FOLLOWED BY DATA
	..1. 1.1.		XRQFCLEN	""-XRQSTART" LEN OF FIXED PART
TRANSIENT DATA REQUEST PARAMETERS				
(26)	CHARACTER	4	XRQTDQNM	QUEUE NAME
(2A)	HALFWORD	2	XRQTDLNL	DATA LENGTH
(2C)	CHARACTER	1	XRQTDDA (0)	DATA AREA FOR WRITES
	..1. ....		XRQTDLEN	""-XRQSTART" LEN OF FIXED PART
TEMPORARY STORAGE REQUEST PARAMETERS				
(26)	CHARACTER	8	XRQTSQNM	QUEUE NAME (8 BYTES ONLY)
(2E)	HALFWORD	2	XRQTSDLN	DATA LENGTH
(30)	HALFWORD	2	XRQTSITM	ITEM NUMBER
(32)	CHARACTER	1	XRQTSDA (0)	DATA AREA FOR WRITES
(32)	CHARACTER	1	XRQTSEND (0)	END OF FIRST PART OF TSRQ AREA

Offset Hex	Type	Len	Name (Dim)	Description
AN ADDITIONAL PARAMETER HAS BEEN ADDED AND SINCE THE ABOVE PARAMETER LIST IS FIXED LENGTH AND IS FOLLOWED BY DATA IT HAS HAD TO BE ADDED AFTER THE DATA. IT IS ADDRESSED BY XRQTSQA +XRQTSQ16 (DATA ADDRESS + DATA LENGTH FOR WRITEQ TS OTHERWISE AT XRQTSQ16.)				
(32)	CHARACTER	16	XRQTSQ16 (0)	16 BYTE TS QUEUE NAME
(32)	CHARACTER	8	XRQTSQ8A	TS QUEUE NAME PART 1
(3A)	CHARACTER	8	XRQTSQ8B	TS QUEUE NAME PART 2
	..11 .11.		XRQTSLEN	""-XRQSTART" TOTAL LENGTH OF FIXED PART
INTERVAL CONTROL REQUEST PARAMETERS				
(26)	CHARACTER	4	XRQICTR	TRANSID
(2A)	CHARACTER	4	XRQICTE	TERMIN
(2E)	CHARACTER	4	XRQICRTR	RTRANSID
(32)	CHARACTER	4	XRQICRTE	RTERMIN
(36)	CHARACTER	4	XRQICLOT	INTERVAL OR TIME
(3A)	CHARACTER	8	XRQICQUE	QUEUE
(42)	CHARACTER	8	XRQICRQD	REQID
(4A)	HALFWORD	2	XRQICFLN	FROM LENGTH
(4C)	CHARACTER	1	XRQICFDA (0)	FROM DATA
	.1.. ....		XRQICLEN	""-XRQSTART" LEN OF FIXED PART
AN ADDITIONAL PARAMETER HAS BEEN ADDED AND SINCE THE ABOVE PARAMETER LIST IS FIXED LENGTH AND IS FOLLOWED BY DATA IT HAS HAD TO BE ADDED AFTER THE DATA. IT IS ADDRESSED BY XRQICFDA+XRQICFLN (DATA ADDRESS + DATA LENGTH).				
(0)	CHARACTER	8	XRQICUID	USERID
(8)	CHARACTER	8	XRQICSYN	Applid of System
(10)	CHARACTER	8	XRQICTRN	Terminal netname
THIS PART OF THE DSECT DESCRIBES THE FORMAT OF THE TIOA USED TO SEND REPLIES. IT IS USED BY TRANSFORMERS 3 AND 4 ONLY.				
(0)	FULLWORD	4	XRPPDS (3) XRPPSTART	"" TIOA HEADER "" START OF REPLY DATA
COMMON REPLY PARAMETERS				
(C)	CHARACTER	6	XRPEIBRC	EIP'S RETURN CODE
(12)	HALFWORD	2	XRPDFFF	OFFSET OF DATA IN TIOA
(14)	HALFWORD	2	XRPPARMS (0)	GROUP SPECIFIC PARMS
FILE CONTROL REPLY PARAMETERS				
(14)	HALFWORD	2	XRPFCDLN	DATA LENGTH
(16)	HALFWORD	2	XRPFCKLN	RIDFLD LENGTH
(18)	HALFWORD	2	XRPFNCRC (0)	NUM OF DELETED RECORDS
(18)	HALFWORD	2	XRPFCDL	UNTRUNCATED DATA LENGTH
(1A)	HALFWORD	2	XRPFMRL	MAX REC LEN FOR V FORMAT
(1C)	HALFWORD	2	XRPFCKOF	OFFSET OF KEY IN TIOA
(1E)	CHARACTER	1	XRPFCKDA (0)	KEY FOLLOWED BY DATA
	...1 ..1.		XRPFCLN	""-XRPPSTART" LEN OF FIXED PART
TRANSIENT DATA REPLY PARAMETERS				
(14)	HALFWORD	2	XRPTDDL	DATA LENGTH
(16)	HALFWORD	2	XRPTDUL	UNTRUNCATED DATA LENGTH
(18)	CHARACTER	1	XRPTDDA (0)	DATA AREA FOR READS
	.... 11..		XRPTDLN	""-XRPPSTART" LEN OF FIXED PART
TEMPORARY STORAGE REPLY PARAMETERS				
(14)	HALFWORD	2	XRPTSNT	NUMITEMS
(16)	HALFWORD	2	XRPTSITM (0)	ITEM NUMBER WRITTEN
(16)	HALFWORD	2	XRPTSDLN	RETURNED DATA LENGTH
(18)	HALFWORD	2	XRPTSUDL	UNTRUNCATED DATA LENGTH
(1A)	CHARACTER	1	XRPTSQA (0)	READ DATA
	.... 111.		XRPTSLEN	""-XRPPSTART" LEN OF FIXED PART
INTERVAL CONTROL REPLY PARAMETERS				
(14)	CHARACTER	8	XRPICRQD	REQID ASSGND BY MIR SYS
	...1 ....		XRPICLEN	""-XRPPSTART" LEN OF FIXED PART

## XFR Function shipping request control block

,ARGSTG = NO IS ASSUMED  
 CONTROL BLOCK NAME = DFHXFRDS  
 DESCRIPTIVE NAME = CICS Function Request Shipping Request  
     Control Block.  
 MACROS = DFHXFSTG  
 FUNCTION =  
     Defines the data transformation (XF) control block  
     as used in batch and online environments.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHXFRDS	
(0)	FULLWORD	4	XFRBEGIN (2)	ALLOW FOR USER STORAGE ACCOUNTING INFORMATION
(8)	DBL WORD	8	XFRSTART (0)	XF control block - start
FIELDS IN THE XF CONTROL BLOCK THAT ARE UNIQUE TO AN ONLINE ENVIRONMENT				
SYSTEM/SESSION RELATED FIELDS				
(8)	CHARACTER	4	XFRSYSNM	N(SYSID)
(C)	ADDRESS	4	XFRATCSE	A(TCTSE)
(10)	ADDRESS	4	XFRATCTE	A(TCTTE) OR 0
(14)	ADDRESS	4	XFRATIOA	A(TIOA) OR 0
(18)	CHARACTER	4	XFRLUCCD	LU6.2 ERROR (SENSE) CODE
(1C)	CHARACTER	4	XFRSTRAN	Server transaction code
(20)	BITSTRING	1	XFRFLAGA	
	1... ..		XFRSERVR	"X'80" Server transaction supplied
	..1. ....		XFRNORM	"X'40" Normal transformer to be used
	...1. ....		XFRSYNC	"X'20" SYNCONRETURN requested
	.... 1...		XFRNOATN	"X'10" CONVERSE with NOATNI required
	.... ..1.		XFRLINK	"X'08" LINK request
			XFRRTDST	"X'04" Dynamically routed START request
(22)	HALFWORD	2	XFRRTLNL	Length of router commarea or 0
(24)	ADDRESS	4	XFRRTRAD	A(DFHDSRP) or 0
(28)	BITSTRING	1	(7)	reserved
(30)	FULLWORD	4	XFRFSPEC (0)	Origin for function specific storage
DL/I RELATED FIELDS				
(30)	ADDRESS	4	XFRAUIB	A(UIB)
(34)	FULLWORD	4	XFRDLILN	Maximum length os SETS I/O area so far
FILE CONTROL RELATED FIELDS				
MACRO NAME = DFHFCENT				
DESCRIPTIVE NAME = CICS Transformer File Control Operation				
Table Entry DSECT.				
(38)	FULLWORD	4	XFRFCENT (0)	TEMP FC OP ENTRY FOR DFHXFX
(38)	ADDRESS	4		ADDRESS OF NEXT ENTRY
(3C)	CHARACTER	4		NAME OF SYSTEM OWNING FILE
(40)	CHARACTER	8		FILE NAME ON REMOTE SYSTEM
(48)	HALFWORD	2		REQID
(4A)	HALFWORD	2		KEYLENGTH
(4C)	ADDRESS	4		ADDR OF RIDFLD
(50)	ADDRESS	4		ADDR OF BUFFER FOR READ SET
(54)	HALFWORD	2		LGTH OF BUFFER FOR READ SET
(56)	CHARACTER	1		FIRST FLAG BYTE
(57)	CHARACTER	1		SECOND FLAG BYTE
(58)	FULLWORD	4	(0)	MAKE LENGTH MULTIPLE OF 4
This DSECT describes the entries required for remote program link				
(30)	FULLWORD	4	DFHPCENT (0)	PC LINK entries begin here
(30)	CHARACTER	8	XFRPNAME	name of program
(38)	HALFWORD	2	XFRCOMML	length of commarea
(3A)	HALFWORD	2	XFRDATAL	length of data to be sent
(3C)	CHARACTER	4	XFRABCD	Abend code returned from mirror
(40)	BITSTRING	1	XFRFLAG4	Flag byte
	1... ..		XFRHTRAN	"X'80" hex tranid present
	..1. ....		XFRDATAV	"X'40" valid DATALENGTH supplied
FIELDS IN THE XF CONTROL BLOCK THAT ARE UNIQUE TO A BATCH ENVIRONMENT				
(8)	ADDRESS	4	XFRASTG1	ADDRESS OF STG CONTAINING THE FLATTENED PLIST. THE TRANSFORMER GETS NEW STG IF XFRASTGE IS 0 OR REUSES THE CURRENT STG IF THIS PROVES LARGE ENOUGH
(C)	ADDRESS	4	XFRASTG4	ADDRESS OF THE FLATTENED REPLY IN THE BUFFERS OF BATCH DL/I.
(10)	FULLWORD	4	XFRASTGL	LENGTH OF THE FLATTENED REPLY IN THE DL/I BUFFERS
FIELDS IN THE XF CONTROL BLOCK THAT ARE COMMON TO A BATCH AND ONLINE ENVIRONMENTS				
(58)	ADDRESS	4	XFRPLIST	ADDRESS OF PLIST PASSED TO TRANSFORMER OR ADDRESS OF PLIST CREATED BY TRANSFR

Offset Hex	Type	Len	Name (Dim)	Description
(5C)	ADDRESS	4	XFRATABN	A(1ST TABLE ENTRY) OR 0 - E.G. RPDIR OR DCTTE
(60)	ADDRESS	4	XFRATAB2	A(2ND TABLE ENTRY) - E.G. PDIR OR 0
(64)	CHARACTER	1	XFRFORMN	THE TRANSFORMER INDEX - WITH VALUES SET AS FOLLOWS
	.... ....			"0" TRANSFORMER 1 - VERTICAL TO HORIZONTAL REQUESTS
	.... .1.		XFRTRAN2	"2" TRANSFORMER 2 - HORIZONTAL TO VERTICAL REQUESTS
	.... .1.		XFRTRAN3	"4" TRANSFORMER 3 - VERTICAL TO HORIZONTAL REPLIES
	.... .11.		XFRTRAN4	"6" TRANSFORMER 4 - HORIZONTAL TO VERTICAL REPLIES
(65)	CHARACTER	2	XFRARCHD	USED TO SHOW CICS OR SNA ARCHITECTURE WHEN A CHOICE IS AVAILABLE
(67)	CHARACTER	1	XFRGROUP	THE GROUP IDENTIFIER FOR THE CURRENT REQUEST
	.... .11.		XFRFCGRP	"X'06" - THE CICS FC GROUP
	.... 1..		XFRTDGRP	"X'08" - THE CICS TD GROUP
	.... 1.1.		XFRTSGRP	"X'0A" - THE CICS TS GROUP
	.... 1.1		XFRICGRP	"X'10" - THE CICS IC GROUP
	.... 1.1.		XFRJCGRP	"X'14" - THE CICS JC GROUP
	.... 1.		XFRDLGRP	"X'40" - THE DL/I GROUP
(68)	CHARACTER	1	XFRFUNCT	THE FUNCTION IDENTIFIER FOR THE CURRENT REQUEST
(69)	CHARACTER	1	XFRFLAGS	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
	1... ....		XFREILST	"X'80" THE ARGUMENT LIST COMES FROM OR GOES TO EIP
	.... .1.		XFRDLLST	"X'40" THE ARGUMENT LIST COMES FROM OR GOES TO DL/I
	.... .1.		XFRDLCNT	"X'20" FIRST ARGUMENT IS A COUNT OF THE REMAINING ARGUMENTS
	.... .1.		XFRDLPLI	"X'10" THE DL/I REQUEST COMES FROM PL/I - INDIRECTION EXISTS
	.... 1..		XFRATHDR	"X'08" AN ATTACH HEADER HAS BEEN PUT OUT BEFORE OTHER DATA
	.... .1.		XFRLNGRN	"X'04" THE MIRROR TASK NEEDS TO BE LONG RUNNING
	.... .1.		XFRNRPLY	"X'02" THE REQUEST IS TO BE SHIPPED; HOWEVER NO REPLY IS EXPECTED
	.... .1.1		XFRPRCT	"X'01" THE REQUEST IS TO BE SHIPPED PROTECTED
(6A)	CHARACTER	1	XFRFLAG1	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
	1... ....		XFRLCLQ	"X'80" THE REQUEST MAY BE QUEUED BEFORE SHIPPING
	.... .1.		XFRFCTK	"X'40" FC Token can be shipped
(6B)	CHARACTER	1	XFRFLAG2	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
	1... ....		XFRHAENT	"X'80" DFHMIRVM has handled an abend; the abend code is to be found in the TACB
	.... .1.		XFRLENFD	"X'40" LENGTH parameter forced for a FILE READ request which didn't specify LENGTH parameter originally
(6C)	CHARACTER	1	XFRFLAG3	PARAMETER LIST FLAGS - WITH ALL VALUES RESERVED
(6D)	CHARACTER	2	XFRCODES (0)	FLAGS INDICATING WHERE CONTROL IS TO BE PASSED UPON RETURN FROM THE TRANSFORMER
(6D)	CHARACTER	1	XFRCODE1	THE FIRST SET OF FLAGS - THE NEXT DEFINITIONS APPLY TO RETURN FROM TRANSFORMERS 1 AND 4 WITH VALUES SET AS FOLLOWS
	.... .1.		XFR1TO4	"4" TRANSFORMER 1 HAS FOUND AN ERROR - CONTROL IS TO BE PASSED TO TRANSFORMER 4
	.... 1..		XFR1TOC	"8" TRANSFORMER 1 HAS FOUND ERROR - CONTROL IS TO BE PASSED BACK TO EIP OR DL/I
	.... .1.		XFR1XLNF	"2" XLN failure THE NEXT DEFINITIONS APPLY TO RETURN FROM ISP WITH VALUES SET AS FOLLOWS
	.... 111.		XFRLNKAP	"30" Allocate request in ISP has been purged
	.... 11.		XFRLNKAR	"28" Allocate request in ISP has been rejected
	.... 1.1.		XFRLNKNI	"26" no sessions immediately available for allocate request
	.... 1..		XFRLNKP	"24" ALLOCATE IN ISP HAS FAILED BECAUSE PROFILE DFHCICSF IS MISSING
	.... .11.		XFRLNKSV	"22" TRANSID invalid, we are already in session with a different mirror transaction.
	.... .1.		XFRLNKGP	"20" ALLOCATE IN ISP HAS FAILED BECAUSE THE MODENAME IS INVALID
	.... .1.		XFRLNKSP	"18" SYNCONRETURN invalid, we are already in session with a mirror
	.... .1.		XFRLNKLQ	"16" LOCAL QUEUEING HAS FAILED - BAD RETURN FROM DFHICP TYPE=PUT
	.... 111.		XFRLNKAB	"14" xform 4 has processed ABCODE data
	.... 11.		XFRLNKNA	"12" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK IS NOT IN THE INTERSYSTEM TABLE
	.... 1.1.		XFRLNKSF	"10" CONVERSE in DFHISP has failed
	.... 1..		XFRLNKSH	"8" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK, THOUGH EXISTING, IS OUT OF SERVICE
	.... .11.		XFRLNKNS	"6" Type of request is not supported over LU6.1 links
	.... .1.		XFRLNKSY	"4" ALLOCATE IN ISP HAS FAILED BECAUSE NAME IS NOT THAT OF TCTSE
(6E)	CHARACTER	1	XFRCODE2	THE SECOND SET OF FLAGS - APPLY TO RETURN FROM TRANSFORMERS 2 AND 3 WITH VALUES SET AS FOLLOWS
	.... .1.		XFR2TO3	"4" TRANSFORMER 2 HAS FOUND AN ERROR - CONTROL IS TO BE PASSED TO TRANSFORMER 3
	.... 1..		XFRNEGR	"8" TRANSFORMER 2 HAS FOUND AN ERROR - A NEGATIVE RESPONSE IS TO BE SENT
(6F)	CHARACTER	1	XFRABCDE	ABEND CODE INDICATOR PASSED BACK FROM THE TRANSFORMER TO THE BATCH CONTROLLER PROGRAM
(70)	ADDRESS	4	XFRRESR9	resumption base for DL/I function shipping
(74)	ADDRESS	4	XFRRESRE	resumption address for DL/I function shipping
(78)	ADDRESS	4	XFRBEGOP	address of Arg0 options bytes
(7C)	FULLWORD	4	XFRARGS (0)	ORIGIN FOR ARGUMENTS
	.... 111 .1.		XFRLNGTH	"-XFRSTART"

## XLT Transaction list table

MODULE NAME = DFHXLTDs  
 DESCRIPTIVE NAME = CICS Transaction List Table.  
 TRANSACTION LIST TABLE

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHXLTDs	DUMMY SECTION - TRANSACTION LIST TABLE *
(0)	CHARACTER	4	XLTXID	TRANSACTION IDENTIFICATION
	.... .1..		XLTEL	"(*-XLTXID)" TRANSACTION LIST TABLE ENTRY LENGTH *

## XMCDs Transaction manager TCLASS stats

CONTROL BLOCK NAME = DFHXMCDs  
 DESCRIPTIVE NAME = CICS Tclass Statistics  
 CICS level at which this module was last updated  
 FUNCTION =  
 This data area contains tclass statistics provided by the Transaction Manager Domain.  
 It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics exit.  
 There is a single instance of this data block.  
 LIFETIME =  
 This data block is created by the Transaction Manager Domain to store statistics to be passed to the user in response to a request for statistics. The storage is released when the user task is detached.  
 The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.  
 STORAGE CLASS =  
 LOCATION =  
 The user is passed a pointer to the head of the storage block.  
 INNER CONTROL BLOCKS = none  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Domain call buffer  
 EXTERNAL REFERENCES = none  
 DATA AREAS = none  
 CONTROL BLOCKS = from transaction manager domain  
 GLOBAL VARIABLES (Macro pass) = none  
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHXMCDs IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHXMCDs	Transaction Manager Domain Tclass Statistics DSECT
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	XMCLen	Length of data area
	.... 11..		XMCLDE	"0012" Tclass Statistics id mask
(2)	ADDRESS	2	XMCLID	Tclass Statistics id
	.... ...1		XMCLVERS	"X'01" Stats version number id mask
(4)	CHARACTER	1	XMCLDVERS	Stats version number
(5)	CHARACTER	3		Filler
(8)	CHARACTER	8	XMCTCL	Tclass name
(10)	FULLWORD	4	XMCTAT	Total attach requests for trans- actions in this tclass
(14)	FULLWORD	4	XMCPPI	Transactions purged immediately because threshold reached
(18)	FULLWORD	4	XMCTQ	Transactions that had to queue but are no longer queued
(1C)	FULLWORD	4	XMCAI	Transactions accepted immediately
(20)	FULLWORD	4	XMCAAQ	Transactions accepted after queuing
(24)	FULLWORD	4	XMCPWQ	Transactions purged while queuing
(28)	FULLWORD	4	XMCMXT	Max. number of transactions allowed
(2C)	FULLWORD	4	XMCTH	Purge threshold
(30)	FULLWORD	4	XMCTID	Installed transaction definitions in this tclass
(34)	FULLWORD	4	XMCPAT	Peak active user transactions
(38)	FULLWORD	4	XMCPQT	Peak queued user transactions
(3C)	FULLWORD	4	XMCTAMA	Times at max. active
(40)	FULLWORD	4	XMCTAPT	Times at purge threshold

Offset Hex	Type	Len	Name (Dim)	Description
(44)	FULLWORD	4	XMCCAT	Current active user transactions
(48)	FULLWORD	4	XMCCQT	Current queued user transactions

THE FOLLOWING CL8 DEFINITIONS ARE REALLY "STORE CLOCK" FORMAT

(4C)	CHARACTER	8	XMCTQTIME	Total queuing time of those trans- actions that are no longer queuing
(54)	CHARACTER	8	XMCCQTIME	Total queuing time of those trans- actions that are still queuing
	.1.1 11..		XMCCEND	**
	.1.1 11..		XMCCLEN	**"XMCCLEN" Length of Tclass Stats

## XMGDS Transaction manager global stats

CONTROL BLOCK NAME = DFHXMGDS  
 DESCRIPTIVE NAME = CICS Transaction Manager Statistics  
 CICS level at which this module was last updated  
 FUNCTION =  
 This data area contains global statistics provided by the Transaction Manager Domain.  
 It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics exit.  
 There is a single instance of this data block.  
 LIFETIME =  
 This data block is created by the Transaction Manager Domain to store statistics to be passed to the user in response to a request for statistics. The storage is released when the user task is detached.  
 The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.  
 STORAGE CLASS =  
 LOCATION =  
 The user is passed a pointer to the head of the storage block.  
 INNER CONTROL BLOCKS = none  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Domain call buffer  
 EXTERNAL REFERENCES = none  
 DATA AREAS = none  
 CONTROL BLOCKS = from transaction manager domain  
 GLOBAL VARIABLES (Macro pass) = none  
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHXMGDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHXMGDS	Transaction Manager Domain Global Statistics DSECT
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	XMGLEN	Length of data area
	.... 1.1.		XMGIDE	"0010" Transaction Manager domain id mask
(2)	ADDRESS	2	XMGID	Transaction Manager domain id
	.... ...1		XMGVERS	"X'01" Stats version number id mask
(4)	CHARACTER	1	XMGDVERS	Stats version number
(5)	CHARACTER	3		Filler
(8)	FULLWORD	4	XMGNUM	Number of transactions (user + system) attached
(C)	FULLWORD	4	XMGMAXT	Current MAXTASK value
(10)	FULLWORD	4	XMGACT	Current active user transactions
(14)	FULLWORD	4	XMGQCT	Current queued user transactions
(18)	FULLWORD	4	XMGMAXT	Times at MAXTASK
(1C)	FULLWORD	4	XMGACT	Peak active user transactions
(20)	FULLWORD	4	XMGQCT	Peak queued user transactions
(24)	FULLWORD	4	XMGACT	Total active user transactions
(28)	FULLWORD	4	XMGQCT	Total delayed user transactions note that this does not include those transactions currently queuing

THE FOLLOWING CL8 DEFINITIONS ARE REALLY "STORE CLOCK" FORMAT

(2C)	CHARACTER	8	XMGWTIME	Total time spent waiting by transactions that had to queue for MXT but not including transactions currently queued.
(34)	CHARACTER	8	XMGWQTIME	Total time spent by transactions currently queued for MXT
(3C)	FULLWORD	4		Reserved
(40)	DBL WORD	8	XMGWNUM	Total number of transactions at the time of the last reset
	.1.. 1...		XMGWEND	**



## XMRDS Transaction manager transaction stats

CONTROL BLOCK NAME = DFHXMRDS  
 DESCRIPTIVE NAME = CICS Transaction Statistics  
 CICS level at which this module was last updated  
 FUNCTION =  
 This data area contains transaction statistics provided by the Transaction Manager Domain.  
 It is provided for use in users monitoring applications to map the statistics returned via the API or the statistics exit.  
 There is a single instance of this data block.  
 LIFETIME =  
 This data block is created by the Transaction Manager Domain to store statistics to be passed to the user in response to a request for statistics. The storage is released when the user task is detached.  
 The DSECT also maps the contents of part of the SMF buffer created by the statistics domain and is used in the statistics exit.  
 STORAGE CLASS =  
 LOCATION =  
 The user is passed a pointer to the head of the storage block.  
 INNER CONTROL BLOCKS = none  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = none  
 MODULE TYPE = Domain call buffer  
 EXTERNAL REFERENCES = none  
 DATA AREAS = none  
 CONTROL BLOCKS = from transaction manager domain  
 GLOBAL VARIABLES (Macro pass) = none  
 ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY DFHXMRDS IS NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHXMRDS	Transaction Manager Domain Transaction Statistics DSECT
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	XMRLLEN	Length of data area
	.... 1.11		XMRIDE	"0011" Transaction Statistics id mask
(2)	ADDRESS	2	XMRID	Transaction Statistics id
	.... ...1		XMRVERS	"X'01" Stats version number id mask
(4)	CHARACTER	1	XMRDVERS	Stats version number
(5)	CHARACTER	3		Filler
(8)	CHARACTER	4	XMRTI	Transaction ID
(C)	CHARACTER	8	XMRPN	Program name
(14)	CHARACTER	8	XMRTCL	Tclass name
(1C)	CHARACTER	8	XMRRNAM	Remote transid
(24)	CHARACTER	4	XMRRSYS	Remote sysid
(28)	HALFWORD	2	XMRPRTY	Transaction priority
(2A)	CHARACTER	1	XMRDYN	Dynamic indicator
	11.1 1...		XMRDYN	"C'Y" ...Dynamic = yes
	11.1 .1.1		XMRDYN	"C'N" ...Dynamic = no
(2B)	CHARACTER	1		Filler
(2C)	FULLWORD	4	XMRAC	Attach count
(30)	FULLWORD	4	XMRRC	Restart count
(34)	FULLWORD	4	XMRDLC	Dynamic local count (the number of times the transaction routing exit decided to run this transaction locally)
(38)	FULLWORD	4	XMRDRC	Dynamic remote count (the number of times the transaction routing exit decided to run this transaction remotely)
(3C)	FULLWORD	4	XMRRSC	Remote start count
(40)	FULLWORD	4	XMR SVC	Storage Violation Count
(44)	FULLWORD	4	XMRITOV	Indoubt timeout value (in minutes)
(48)	CHARACTER	1	XMRIWTOP	IndoubtWait option
	11.1 1...		XMRIWTY	"C'Y" ...Indoubtwait = yes
	11.1 .1.1		XMRIWTN	"C'N" ...Indoubtwait = no
(49)	CHARACTER	1	XMRIACTN	Indoubt action (commit or backout)
	11.. ..11		XMRIACOM	"C'C" ...Indoubt Action = commit
	11.. ..1.		XMRIABCK	"C'B" ...Indoubt Action = backout
(4A)	CHARACTER	2		Filler
(4C)	FULLWORD	4	XMRIWAIT	Number of indoubt waits
(50)	FULLWORD	4	XMR FATXN	Forced action due to trandef
(54)	FULLWORD	4	XMRFAIT	Forced action due to indoubt timeout
(58)	FULLWORD	4	XMRFANW	Forced action due to no wait ability
(5C)	FULLWORD	4	XMRFAOP	Forced action due to operator
(60)	FULLWORD	4	XMRFAOT	Forced action due to other
(64)	FULLWORD	4	XMRAMISM	Number of Action mismatches
	.11. 1...		XMREND	""
	.11. 1...		XMRCLLEN	""-XMRLLEN" Length of Transaction Stats

## XMRS\_C Transaction restart program commarea

CICS Commarea for Transaction Restart

This control block defines the commarea passed to the user-replaceable Transaction Restart program DFHREST.

Although provided as a sample, this control block is not to be used as a general programming interface. Refer to the CICS Customisation Guide to determine its intended usage.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	20	XMRS_COMMAREA	Transaction restart commarea
(0)	CHARACTER	4	XMRS_STANDARD_HEADER	Standard commarea header
(0)	CHARACTER	1	XMRS_FUNCTION	Function (always '1')
(1)	CHARACTER	2	XMRS_COMPONENT_CODE	Component (always 'XM')
(3)	CHARACTER	1	*	Reserved
(4)	CHARACTER	1	XMRS_READ	Terminal read done
(5)	CHARACTER	1	XMRS_WRITE	Terminal write done
(6)	CHARACTER	1	XMRS_SYNCPOINT	Syncpoint done
(7)	CHARACTER	1	XMRS_RESTART	Restart (output)
(8)	UNSIGNED	2	XMRS_RESTART_COUNT	No. of previous restarts
(A)	CHARACTER	2	*	Reserved
(C)	CHARACTER	4	XMRS_ORIGINAL_ABEND_CODE	Original abend code
(10)	CHARACTER	4	XMRS_CURRENT_ABEND_CODE	Current abend code

### Constants

Len	Type	Value	Name	Description
1	CHARACTER	1	XMRS_TRANSACTION_RESTART	
2	CHARACTER	XM	XMRS_TRANSACTION_MANAGER	
1	CHARACTER	Y	XMRS_READ_YES	
1	CHARACTER	N	XMRS_READ_NO	
1	CHARACTER	Y	XMRS_WRITE_YES	
1	CHARACTER	N	XMRS_WRITE_NO	
1	CHARACTER	Y	XMRS_SYNCPOINT_YES	
1	CHARACTER	N	XMRS_SYNCPOINT_NO	
1	CHARACTER	Y	XMRS_RESTART_YES	
1	CHARACTER	N	XMRS_RESTART_NO	

## XQS1D Shared ts queue server cf statistics

CONTROL BLOCK NAME = DFHXQS1D  
 DESCRIPTIVE NAME = CICS (XQ) Statistics for list structure.  
 FUNCTION = XQ Statistics for list structure usage and access.  
 LIFETIME = N/A  
 STORAGE CLASS = N/A  
 LOCATION = N/A  
 N/A  
 NOTES :  
 DEPENDENCIES = S/370  
 MODULE TYPE = Control block definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHXQS1D	, XQ list structure statistics record
(0)	FULLWORD	4	S1 (0)	Start of record
(0)	HALFWORD	2	S1LEN	Length of data area
	.111 1..1		S1IDE	"0121" List structure stats mask
(2)	ADDRESS	2	S1ID	List structure stats id
	.... ...1		S1VERS	"X'01" DSECT version number mask
(4)	CHARACTER	1	S1DVERS	List structure stats version number
(5)	CHARACTER	3		Reserved

### Coupling facility list structure status information.

(8)	CHARACTER	16	S1NAME (0)	Full name of list structure
(8)	CHARACTER	8	S1PREF	First part of structure name
(10)	CHARACTER	8	S1POOL	Pool name part of structure name
(18)	CHARACTER	16	S1CNNAME (0)	Name for connection to structure
(18)	CHARACTER	8	S1CNPREF	Prefix for connection name
(20)	CHARACTER	8	S1CNSYSN	Own MVS system name from CVTSNAME
(28)	ADDRESS	4	S1SIZE	Structure size (unsigned fullword)
(2C)	ADDRESS	4	S1SIZEMX	Maximum structure size
(30)	FULLWORD	4	S1HDRS	Maximum number of list headers
(34)	FULLWORD	4	S1HDRSCT	Headers used for control lists
(38)	FULLWORD	4	S1HDRSQD	Headers available for queue data
(3C)	FULLWORD	4	S1ELEMNL	Data element size as a fullword
(40)	ADDRESS	4	S1LEMPW	Data element size as power of 2
(44)	ADDRESS	4	S1ELEMPE	Max elements per entry (for 32K)
(48)	FULLWORD	4	S1ELEMRT	Element size of entry:element ratio
(4C)	FULLWORD	4	S1ENTRRT	Entry size of entry:element ratio

### Usage statistics.

#### Entry and element usage statistics.

Note that lowest free counts are kept as well as highest in use counts because the maximum values may be affected by an ALTER.

(50)	FULLWORD	4	S1ENTRCT	Current number of entries in use
(54)	FULLWORD	4	S1ENTRHI	Highest number of entries in use
(58)	FULLWORD	4	S1ENTRLO	Lowest number of free entries
(5C)	FULLWORD	4	S1ENTRMX	Max entries returned by IXLCONN
(60)	FULLWORD	4	S1ELEMCT	Current number of elements in use
(64)	FULLWORD	4	S1ELEMHI	Highest number of elements in use
(68)	FULLWORD	4	S1ELEMLO	Lowest number of free elements
(6C)	FULLWORD	4	S1ELEMXX	Max elements returned by IXLCONN

### List entry counts returned by IXLIST requests.

Note that when lists are moved from free to used and vice versa, IXLIST only returns the target information, so the counts are often slightly inconsistent.

(70)	DBL WORD	8	S1USEVEC (0)	Usage vector, three pairs of words
(70)	FULLWORD	4	S1USEDCT	Number of entries on used list
(74)	FULLWORD	4	S1USEDHI	Highest entries on used list
(78)	FULLWORD	4	S1FREECT	Number of entries on free list
(7C)	FULLWORD	4	S1FREEHI	Highest entries on free list
(80)	FULLWORD	4	S1INDXCT	Number of entries in queue index
(84)	FULLWORD	4	S1INDXHI	Highest entries in queue index

### Coupling facility I/O statistics.

Statistics for each main type of CF request.

(88)	FULLWORD	4	S1RDQCT	Read queue index entry
(8C)	FULLWORD	4	S1WRQCT	Write queue index entry
(90)	FULLWORD	4	S1DLQCT	Delete queue index entry
(94)	FULLWORD	4	S1CRLCT	Create list for a big queue
(98)	FULLWORD	4	S1DLLCT	Delete list (1 per overall delete)
(9C)	FULLWORD	4	S1RDLCT	Read list entry
(A0)	FULLWORD	4	S1WRLCT	Write list entry
(A4)	FULLWORD	4	S1RWLCT	Rewrite list entry
(A8)	FULLWORD	4	S1INQCT	Read queue index status only
(AC)	FULLWORD	4	S1INLCT	Inquire on list entry

### Statistics for internal CF requests.

(B0)	FULLWORD	4	S1WRACT	Write queue index adjunct area only
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Offset Hex	Type	Len	Name (Dim)	Description
(B4)	FULLWORD	4	S1RRQCT	Reread index data for full length
(B8)	FULLWORD	4	S1RRLCT	Reread list data for full length
(BC)	FULLWORD	4	S1ASYCT	Number of asynchronous requests
IXLLIST completion statistics indexed by internal response value.				
(C0)	FULLWORD	4	S1RSP1CT	Normal response, everything OK
(C4)	FULLWORD	4	S1RSP2CT	Buffer length was too short for the data, needs full length reread
(C8)	FULLWORD	4	S1RSP3CT	No matching entry was found, indicates queue not found in index or end of queue for list
(CC)	FULLWORD	4	S1RSP4CT	Entry version did not match, indicates queue updated by another system or duplicate queue exists when attempting to create queue
(D0)	FULLWORD	4	S1RSP5CT	List authority comparison mismatch, indicates big queue was deleted
(D4)	FULLWORD	4	S1RSP6CT	Maximum list key reached, indicates max queue size or max queues reached depending on list
(D8)	FULLWORD	4	S1RSP7CT	The list structure is out of space
(DC)	FULLWORD	4	S1RSP8CT	An IXLLIST return code occurred other than those described above
	111. ....		S1END	**
	111. ....		S1CLEN	**S1LEN" Length of this DSECT

## XQS2D Shared ts queue server buffer statistics

CONTROL BLOCK NAME = DFHXQS2D  
 DESCRIPTIVE NAME = CICS (XQ) Statistics for queue buffer pool.  
 FUNCTION = XQ Statistics for queue index buffer pool usage.  
 LIFETIME = N/A  
 STORAGE CLASS = N/A  
 LOCATION = N/A  
 N/A  
 NOTES :  
 DEPENDENCIES = S/370  
 MODULE TYPE = Control block definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHXQS2D	, XQ buffer pool statistics record
(0)	FULLWORD	4	S2 (0)	Start of record
(0)	ADDRESS	2	S2LEN	Length of data area
	.111 1.1.		S2IDE	"0122" XQ buffer pool stats mask
(2)	ADDRESS	2	S2ID	XQ buffer pool stats id
	.... ...1		S2VERS	"X'01" DSECT version number mask
(4)	ADDRESS	1	S2DVERS	XQ buffer pool version number
(5)	BITSTRING	3		Reserved

These statistics are for the queue index buffer pool, which is used to read and write queue index entries plus the associated data if the total queue size does not exceed 32K bytes. Buffers containing recently accessed queue index entries are added to a least recently used chain, which means that if another request for the same queue arrives shortly afterwards, it may be possible to optimize the processing based on the assumption that the copy in the buffer is probably already correct. If all other buffers are in used, a request for a new buffer will discard the contents of the least recently used buffer and reuse the storage as a free buffer. These statistics are returned by AXM buffer management interface. The queue server does not use some of the AXM buffer management functions (such as KEEP or PURGE) so those counters will be zero. These fields describe the current state of the buffer pool.

(8)	FULLWORD	4	S2BFQTY	Total buffers defined
(C)	FULLWORD	4	S2BFENTH	Number of buffers used so far
(10)	FULLWORD	4	S2BFFACTS	Active buffers owned by tasks
(14)	FULLWORD	4	S2BFLRUS	Valid buffers on LRU chain
(18)	FULLWORD	4	S2BFEMPS	Empty buffers on free chain

The following counters start again from zero after a reset.

(1C)	FULLWORD	4	S2BFPWTS	Waits on buffer pool lock
(20)	FULLWORD	4	S2BFGETS	GET requests
(24)	FULLWORD	4	S2BFHITS	GET which found a valid buffer
(28)	FULLWORD	4	S2BFGFRS	GETs which used a free buffer
(2C)	FULLWORD	4	S2BFGNWS	GETs which used a new buffer
(30)	FULLWORD	4	S2BFLGRS	GETs which used the LRU buffer
(34)	FULLWORD	4	S2BFLWTS	GET waits on buffer lock
(38)	FULLWORD	4	S2BFGNBS	GETs which returned no buffer
(3C)	FULLWORD	4	S2BFPUTS	PUTs (put back buffer as valid)
(40)	FULLWORD	4	S2BFKEPS	KEEPs (put back buffer as modified)
(44)	FULLWORD	4	S2BFFRES	FREEs (put back buffer as empty)
(48)	FULLWORD	4	S2BFFNOS	FREE errors, buffer not owned
(4C)	FULLWORD	4	S2BFPURS	PURGEs (mark buffer invalid)
(50)	FULLWORD	4	S2BFPNFS	PURGE with no matching buffer found

Offset Hex	Type	Len	Name (Dim)	Description
(54)	FULLWORD .1.1 1... .1.1 1...	4	S2BFPNOS S2END S2CLEN	PURGE errors, buffer not owned "" ""-S2LEN" Length of this DSECT

## XQS3D Shared ts queue server storage statistics

CONTROL BLOCK NAME = DFHXQS3D  
 DESCRIPTIVE NAME = CICS (XQ) Statistics for server storage.  
 FUNCTION = XQ Statistics for server main storage usage.  
 LIFETIME = N/A  
 STORAGE CLASS = N/A  
 LOCATION = N/A  
 N/A  
 NOTES :  
 DEPENDENCIES = S/370  
 MODULE TYPE = Control block definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHXQS3D	, XQ main storage statistics record
(0)	FULLWORD	4	S3 (0)	Start of record
(0)	ADDRESS .111 1.11	2	S3LEN S3IDE	Length of data area "0123" XQ main storage stats mask
(2)	ADDRESS .... ...1	2	S3ID S3VERS	XQ main storage stats id "X'01" DSECT version number mask
(4)	ADDRESS	1	S3DVERS	XQ main storage stats version
(5)	BITSTRING	3		Reserved

These are the statistics returned by the AXM page pool management routines for the pools AXMPGANY and AXMPGLOW. Storage in these pools is allocated in multiples of 4K pages on a 4K boundary. The most frequent use is for segments of LIFO stack storage. Storage is initially allocated from the pool using a bit map. For faster allocation, free areas are not normally returned to the pool but are added to a vector of free chains depending on the size of the free area (1 to 32 pages). When storage is being acquired, this vector is checked before going to the pool bit map. If there are no free areas of the right size and there is not enough storage left in the pool, free areas in the vector are put back into the pool, starting from the smallest end, until a large enough area has been created. This action appears as a compress attempt in the statistics. If there is still insufficient storage to satisfy the request, the request is failed.  
 Statistics for LOC=ANY storage pool.

(8)	CHARACTER	8	S3ANYNAM	Pool name AXMPGANY
(10)	FULLWORD	4	S3ANYSIZ	Size of storage pool area
(14)	ADDRESS	4	S3ANYPTR	Address of storage pool area
(18)	FULLWORD	4	S3ANYMX	Total pages in the storage pool
(1C)	FULLWORD	4	S3ANYUS	Number of used pages in the pool
(20)	FULLWORD	4	S3ANYFR	Number of free pages in the pool
(24)	FULLWORD	4	S3ANYLO	Lowest free pages (since reset)
(28)	FULLWORD	4	S3ANYRQG	Storage GET requests
(2C)	FULLWORD	4	S3ANYRQF	Gets which failed to obtain storage
(30)	FULLWORD	4	S3ANYRQS	Storage FREE requests
(34)	FULLWORD	4	S3ANYRQC	Compress (defragmentation) attempts

Statistics for LOC=BELOW storage pool.

(38)	CHARACTER	8	S3LOWNAM	Pool name AXMPGLOW
(40)	FULLWORD	4	S3LOWSIZ	Size of storage pool area
(44)	ADDRESS	4	S3LOWPTR	Address of storage pool area
(48)	FULLWORD	4	S3LOWMX	Total pages in the storage pool
(4C)	FULLWORD	4	S3LOWUS	Number of used pages in the pool
(50)	FULLWORD	4	S3LOWFR	Number of free pages in the pool
(54)	FULLWORD	4	S3LOWLO	Lowest free pages (since reset)
(58)	FULLWORD	4	S3LOWRQG	Storage GET requests
(5C)	FULLWORD	4	S3LOWRQF	Gets which failed to obtain storage
(60)	FULLWORD	4	S3LOWRQS	Storage FREE requests
(64)	FULLWORD .11. 1... .11. 1...	4	S3LOWRQC S3END S3CLEN	Compress (defragmentation) attempts "" ""-S3LEN" Length of this DSECT

## XRH Extended recovery facility

CONTROL BLOCK NAME = DFHXRHPS  
 DESCRIPTIVE NAME = CICS - Extended Recovery Facility  
 XRP - Health Data Definition

FUNCTION =  
 DFHXRHPS contains the PL/S structure that describes the XRF health data managed by CICS.  
 XRF health data can be set by

1. DFHXRA
2. DFHXRC
3. DFHXRCP
4. DFHXRSP

DFHXRC, the health exit routine, passes XRF health data to the CAVM from whence it is written as part of the CAVM status data.

LIFETIME =  
 There is only one instance of the control block - it forms part of XRP static storage which is allocated by DFHSIB1.

STORAGE CLASS =  
 The control block forms part of XRP static storage.

LOCATION =  
 The control block is addressed from XRSAXRHD in XRP static storage.

INNER CONTROL BLOCKS =  
 There are no inner control blocks.

NOTES :  
 DEPENDENCIES =  
 S/370

RESTRICTIONS =  
 There are no restrictions.

MODULE TYPE =  
 Control block definition.  
 PLS/3

EXTERNAL REFERENCES =  
 None.

DATA AREAS =  
 None.

CONTROL BLOCKS =  
 None.

GLOBAL VARIABLES (Macro pass) =  
 None.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	52	DFHXRHPS	
(0)	CHARACTER	8	XRHDPFX	- prefix
(8)	CHARACTER	16	*	- "general" values
(8)	CHARACTER	8	XRHDGAPL	- generic applid
(10)	CHARACTER	8	XRHDSAPL	- specific applid
(18)	CHARACTER	4	*	- "control" values
(18)	CHARACTER	1	XRHD TAK	- TAKEOVER
(19)	CHARACTER	1	XRHDSUR	- SURVEILLANCE
(1A)	HALFWORD	2	*	- not used
(1C)	CHARACTER	16	*	- "control" values
(1C)	FULLWORD	4	XRHDADI	- ADI
(20)	FULLWORD	4	XRHDJDI	- JESDI
(24)	FULLWORD	4	XRHDPDI	- PDI
(28)	FULLWORD	4	XRHDHBI	- heartbeat interval
(2C)	CHARACTER	8	*	- "clock" data
(2C)	FULLWORD	4	XRHDCLK1	- "clock" for DFHXRSP - CICS TCB "time stamp"
(30)	FULLWORD	4	XRHDCLK2	- "clock" for DFHXRC - CAVM TCB "time stamp"
(34)	CHARACTER		XRHDEND	

Error data definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	72	XRHE	
(0)	FULLWORD	4	XRHDNRER	- total number
(4)	FULLWORD	4	XRHDIRER	- latest error - index to *
(8)	CHARACTER	8	XRHDRERR (8)	- errors
(8)	CHARACTER	4	XRHDDOMI	- domain id
(C)	CHARACTER	4	XRHDERRI	- error id

Extension descriptor

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	XRHX	
(0)	CHARACTER	4	*	- not used - 0
(4)	HALFWORD	2	XRHXGN	- no. global elements
(6)	CHARACTER	2	*	- not used - 0
(8)	CHARACTER		XRHXEND	

Health work element

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	84	XRHW	
(0)	ADDRESS	4	XRHWNEXT	Chain (when free)
(0)	BITSTRING	2	XRHWFLG	Flags (when in use)
	1... ..		XRHWFSET	Data already passed to CAVM surveillance.
(2)	BITSTRING	2	*	Not used
(4)	CHARACTER	72	XRHWE	Error data
(4C)	CHARACTER	8	XRHWX	Extension data
(54)	CHARACTER		XRHWEND	Start of global data

Global element definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	XRHG	
(0)	CHARACTER	8	XRHGP	Prefix
(0)	HALFWORD	2	XRHGLTH	Total length of entry
(2)	BITSTRING	2	XRHGFLG	Flags
	1... ..		XRHGFALT	- created when alt.
(4)	CHARACTER	4	XRHGDOMI	Domain id
(8)	CHARACTER	*	XRHGDATA	Data

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	XRHGD	Data part
(0)	CHARACTER	4	XRHGDP	Prefix
(0)	HALFWORD	2	XRHGDDLN	Data length
(2)	HALFWORD	2	*	Reserved - 0
(4)	CHARACTER	*	XRHGDTXT	Data text

## XRS XRF static storage definition

CONTROL BLOCK NAME = DFHXRSPS  
 DESCRIPTIVE NAME = CICS (XRF) Static Storage Definition  
 FUNCTION =  
 DFHXRSPS defines the XRF static storage area managed by CICS and referred to as XRP static storage.  
 XRP static storage contains  
 1. the communications area for DFHXRB and DFHXRSP  
 2. ECBs used to control the progress of alternate CICS before, during and after takeover  
 3. system status data for active CICS  
 4. system status data for alternate CICS  
 5. system health data  
 System status data for active CICS is maintained by alternate CICS and contains  
 1. status data - e.g. signed on / off  
 2. action flags - e.g. heartbeat overdue  
 2. action modifier flags - e.g. message sent  
 System status data for alternate CICS is maintained by active CICS and is very similar in content to system status data for active CICS.  
 The structure XRS# provides the common definition for system status data.  
 The structure DFHXRHPS, contained in DFHXRHPS, provides the definition for system health data.  
 LIFETIME =  
 There is only one instance of the control block. It is allocated by DFHXRA in response to a DFHXRCTYPE=INITIALIZE call in DFHSIC1.  
 STORAGE CLASS =  
 The control block is allocated by DFHSIC1.  
 LOCATION =  
 The control block is addressed from SSAXRP in the static storage address list.  
 INNER CONTROL BLOCKS =  
 XRP static storage contains inner control blocks. These are  
 1. system status data for active CICS  
 2. system status data for alternate CICS  
 3. system health data  
 NOTES :  
 DEPENDENCIES =  
 S/370  
 RESTRICTIONS =  
 There are no restrictions.  
 MODULE TYPE =  
 Control block definition.  
 EXTERNAL REFERENCES =  
 None.  
 DATA AREAS =  
 None.  
 CONTROL BLOCKS =  
 None.  
 GLOBAL VARIABLES (Macro pass) =  
 None.  
 DFHXRP - Static Storage Definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	176	DFHXRSPS	
... general values ...				
(0)	CHARACTER	12	XRSGV	General Values
(0)	ADDRESS	4	XRSSXRSA	Status area anchor
(4)	CHARACTER	4	*	Reserved
(8)	CHARACTER	1	XR SXRF	- function
(9)	CHARACTER	1	XR SXRSNS	- signon
(A)	CHARACTER	2	*	Reserved
... pointers ...				
(C)	CHARACTER	16	XR SAX	Pointers
(C)	ADDRESS	4	XR SAXRS0	- A(status data - act)
(10)	ADDRESS	4	XR SAXRS1	- A(status data - alt 1)
(14)	ADDRESS	4	XR SAXRS2	- A(status data - alt 2)
(18)	ADDRESS	4	XR SAXRHD	- A(health data)
... DFHXRB / DFHXRSP communication area ...				
(1C)	CHARACTER	4	XR SW	DFHXRB / DFHXRSP comm area
(1C)	ADDRESS	4	XR SWECHN	- work element queue
... Event Control Blocks ...				



Offset Hex	Type	Len	Name (Dim)	Description
(20)	CHARACTER	16	XRSTI	Takeover Initiated
(20)	CHARACTER	4	XRSTIPFX	- eye catcher
(24)	CHARACTER	4	XRSTIECB	- TI ECB (CICS posted)
	1... ..		*	Reserved
	.1.. ..		XRSTIWT	- wait/post bit
(24)	BITSTRING	2	*	Reserved
(27)	BITSTRING	1	XRSTIRC	- return code
(28)	CHARACTER	8	XRSTITOD	- time TI ECB posted
(30)	CHARACTER	16	XRSIA	Incipient Active
(30)	CHARACTER	4	XRSIAPFX	- eye catcher
(34)	CHARACTER	4	XRSIAECB	- IA ECB (CICS posted)
	1... ..		*	Reserved
	.1.. ..		XRSIAWT	- wait/post bit
(34)	BITSTRING	2	*	Reserved
(37)	BITSTRING	1	XRSIARC	- return code
(38)	CHARACTER	8	XRSIATOD	- time IA ECB posted
(40)	CHARACTER	16	XRSTC	Takeover Completed
(40)	CHARACTER	4	XRSTCPFX	- eye catcher
(44)	CHARACTER	4	XRSTCECB	- TC ECB (CICS posted)
	1... ..		*	Reserved
	.1.. ..		XRSTCWT	- wait/post bit
(44)	BITSTRING	2	*	Reserved
(47)	BITSTRING	1	XRSTCRC	- return code
(48)	CHARACTER	8	XRSTCTOD	- time TC ECB posted
(50)	CHARACTER	16	XRSRA	RSD Available
(50)	CHARACTER	4	XRSRAPFX	- eye catcher
(54)	CHARACTER	4	XRSRAECB	- RA ECB (CICS posted)
	1... ..		*	Reserved
	.1.. ..		XRSRAWT	- wait/post bit
(54)	BITSTRING	2	*	Reserved
(57)	BITSTRING	1	XRSRARC	- return code
(58)	CHARACTER	8	XRSRATOD	- time RA ECB posted
(60)	CHARACTER	16	XRSSS	Synchronized wrt Signoff
(60)	CHARACTER	4	XRSSSPFX	- eye catcher
(64)	CHARACTER	4	XRSSSECB	- SS ECB (CICS posted)
	1... ..		*	Reserved
	.1.. ..		XRSSSWT	- wait/post bit
(64)	BITSTRING	2	*	Reserved
(67)	BITSTRING	1	XRSSSRC	- return code
(68)	CHARACTER	8	XRSSSTOD	- time SS ECB posted
(70)	CHARACTER	16	XRSSST	Synchronized wrt Termination
(70)	CHARACTER	4	XRSSTPFX	- eye catcher
(74)	CHARACTER	4	XRSSTECB	- ST ECB (CICS posted)
	1... ..		*	Reserved
	.1.. ..		XRSSWT	- wait/post bit
(74)	BITSTRING	2	*	Reserved
(77)	BITSTRING	1	XRSSTRC	- return code
(78)	CHARACTER	8	XRSSTTOD	- time ST ECB posted
(80)	CHARACTER	16	XRSSQS	Quiesce Surveillance
(80)	CHARACTER	4	XRSSQPFX	- eye catcher
(84)	CHARACTER	4	XRSSQECB	- QS ECB (CICS posted)
	1... ..		*	Reserved
	.1.. ..		XRSSQSWT	- wait/post bit
(84)	BITSTRING	2	*	Reserved
(87)	BITSTRING	1	XRSSQSRC	- return code
(88)	CHARACTER	8	XRSSQSTOD	- time QS ECB posted
(90)	CHARACTER	16	XRSSD	Shut Down
(90)	CHARACTER	4	XRSSDPFX	- eye catcher
(94)	CHARACTER	4	XRSSDECB	- SD ECB (CICS posted)
	1... ..		*	Reserved
	.1.. ..		XRSSDWT	- wait/post bit
(94)	BITSTRING	2	*	Reserved
(97)	BITSTRING	1	XRSSDRC	- return code
(98)	CHARACTER	8	XRSSDTOD	- time SD ECB posted

... system health data ...

(A0)	CHARACTER	16	XRSH	
(A0)	CHARACTER	8	XRSHGAPL	Generic applid
(A8)	CHARACTER	8	XRSHSAPL	Specific applid
(B0)	CHARACTER		DFHXRSND	

Anchor area addressed by XRSSXRSA in static area  
 Note: XRSA MUST end on a word boundary such that the XRS#  
 status areas that follow are also word aligned.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	84	XRSA	
(0)	CHARACTER	8	XRSAPFX	- eye catcher
(8)	FULLWORD	4	XRSALN	Total area length
(C)	ADDRESS	4	*(4)	QQQQ space for XRSAXRS0..

Offset Hex	Type	Len	Name (Dim)	Description
(1C)	FULLWORD	4	XRSAGMAX	Global data area size
(20)	CHARACTER	8	XRSASF	Free health elements
(20)	ADDRESS	4	XRSAFREE	First free hwe
(24)	FULLWORD	4	XRSAFIDN	Guard for CDS
(28)	ADDRESS	4	XRSASHRD	Transferred hwe
(2C)	ADDRESS	4	XRSACAVM	CAVM's hwe
(30)	ADDRESS	4	XRSAPTA	Program name table adr
(34)	CHARACTER	4	XRSAMVID	MVS SMF id.
(38)	CHARACTER	4	XRSAJSID	JES subsystem id.
(3C)	CHARACTER	8	XRSASPLX	XCF Sysplex name
(44)	CHARACTER	8	XRSASNAM	MVS System name
(4C)	CHARACTER	4	XRSASTOK	MVS System instance
(50)	CHARACTER	4	*	Status bytes
(50)	BITSTRING	1	XRSASIND	MVS System status
			1... ..	...XCF services avail
			.111 1111	*
(51)	CHARACTER	3	*	Reserved
(54)	CHARACTER		*	Reserved
			*	force word alignment

## DFHXRP - System Status Definition

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	76	XRS#	Data for ...
(0)	CHARACTER	8	XRS#PFX	- eye catcher
(8)	FULLWORD	4	XRS#DI	- delay interval
(C)	CHARACTER	12	*	- status (wrt CAVM TCB)
(C)	FULLWORD	4	XRS#INS1	- instance number
(10)	FULLWORD	4	XRS#VER1	- version number
(14)	CHARACTER	4	*	- flags
			1... ..	XRS#SON1
			.1. ....	XRS#HBO1
(14)	BITSTRING	3	*	Reserved
(18)	CHARACTER	20	*	- status (wrt CICS TCB)
(18)	FULLWORD	4	XRS#INS2	- instance number
(1C)	FULLWORD	4	XRS#VER2	- version number
(20)	CHARACTER	8	XRS#APL2	- specific applid
(28)	CHARACTER	4	*	- flags
			1... ..	XRS#SON2
(28)	BITSTRING	3	*	Reserved
(2C)	FULLWORD	4	XRS#NSON	- sign on count
(30)	CHARACTER	8	*	- Write to Operator
(30)	CHARACTER	4	XRS#ECB	- WTOR ECB (OS posted)
			1... ..	XRS#WAIT
			.1. ....	XRS#POST
(30)	BITSTRING	3	*	Reserved
(34)	FULLWORD	4	XRS#MID	- identification number
(38)	CHARACTER	3	XRS#AFL	- action flags
			1... ..	XRS#HBRS
			.1. ....	XRS#HBOD
			.1. ....	XRS#RQTP
			...1 ....	XRS#RQTG
			.... 1...	XRS#INTK
			.... .1.	XRS#PSN
			.... .1.	XRS#PSFN
			.... ...1	XRS#PSFA
(39)			1... ..	XRS#ATCX
(39)	BITSTRING	1	*	Reserved
(3B)	CHARACTER	1	XRS#MFL	- action modifier flags
			1... ..	XRS#SONP
			.1. ....	XRS#SOFI
			.1. ....	XRS#ATER
			...1 ....	XRS#6X16
			...1 ....	XRS#6416
			...1 ....	XRS#6516
			.... 1...	XRS#6X18
			.... 1...	XRS#6418
			.... 1...	XRS#6518
			.... .1.	XRS#DUMP
			.... .11	*
(3C)	CHARACTER	16	*	Reserved
(3C)	CHARACTER	8	*	- TOD clock difference
(3C)	FULLWORD	4	XRS#LBD1	- wrt CAVM TCB
(40)	FULLWORD	4	XRS#UBD1	- lower bound
(44)	CHARACTER	8	*	- upper bound
(44)	FULLWORD	4	XRS#LBD2	- wrt CICS TCB
(48)	FULLWORD	4	XRS#UBD2	- lower bound
				- upper bound

## Constants

Len	Type	Value	Name	Description
1	CHARACTER	N	XRSXRNO	- not signed on
1	CHARACTER	A	XRSXRACT	- signed on as active
1	CHARACTER	B	XRSXRALT	- signed on as alternate
1	CHARACTER	A	XRSTAKEA	- TAKEOVER=AUTOMATIC
1	CHARACTER	M	XRSTAKEM	- TAKEOVER=MANUAL
1	CHARACTER	C	XRSTAKEC	- TAKEOVER=COMMAND
1	CHARACTER	Y	XRSSURON	- SURVEILLANCE=ON
1	CHARACTER	N	XRSSUROF	- SURVEILLANCE=OFF
0	BIT	1	XRS#ON	- action required
0	BIT	0	XRS#OFF	- action completed

## XRW XRF work element definition

<p>CONTROL BLOCK NAME = DFHXRWPS          DESCRIPTIVE NAME = CICS (XRF) Work Element Definition          FUNCTION =          DFHXRWPS defines the XRF work elements managed by CICS.          XRF work elements are used to pass information from DFHXRFB, the notify exit program which runs under the CAVM TCB, to DFHXRSP, the surveillance program which runs under the CICS TCB.          The information passed from DFHXRFB to DFHXRSP, and the action taken by DFHXRSP, depends on the event notified to DFHXRFB by the CAVM.</p> <p>LIFETIME =          XRF work elements are created by DFHXRFB and are destroyed by DFHXRSP.</p> <p>STORAGE CLASS =          XRF work elements are allocated from OS storage.</p> <p>LOCATION =          Two work element chains exist.          1. The first chain, addressed from XRSWECHN in XRP static storage, contains those elements created by DFHXRFB ... but ... not yet seen by DFHXRSP - elements appear reverse order of creation.          2. The second chain, addressed from DFHXRSP LIFO storage, contains those elements seen ... but ... not yet processed by DFHXRSP; elements appear in order of creation.</p> <p>INNER CONTROL BLOCKS =          There are no inner control blocks.</p> <p>NOTES :</p> <p>DEPENDENCIES =          S/370</p> <p>RESTRICTIONS =          There are no restrictions.</p> <p>MODULE TYPE =          Control block definition.</p> <p>EXTERNAL REFERENCES =          None.</p> <p>DATA AREAS =          None.</p> <p>CONTROL BLOCKS =          None.</p> <p>GLOBAL VARIABLES (Macro pass) =          None.</p>
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Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	28	DFHXRWPS	XRP work element
(0)	FULLWORD	4	XRWETRRQ	- request - for trace
(0)	UNSIGNED	1	XRWERQ	- request
(1)	BITSTRING	1	XRWERQM	- request modifier
	1... ..		XRWERQIM	- implicit request
	.1... ..		XRWERQDU	- DUMP=YES specified
	..1. ....		XRWERQMD	- MVS system gone
	...1 1111		*	Reserved
(2)	BITSTRING	2	*	Reserved
(4)	ADDRESS	4	XRWECHN	- A(next work element)
(8)	ADDRESS	4	XRWEASD	- A(system status data)
(C)	FULLWORD	4	XRWEINS	- instance number
(10)	FULLWORD	4	XRWEVER	- version number
(14)	CHARACTER	8	XRWEAPL	- specific applid
(14)	FULLWORD	4	XRWELBD	- TOD clock - lower bound

Offset Hex	Type	Len	Name (Dim)	Description
(14)	FULLWORD	4	XRWEHBL	- #(secs heartbeat late)
(14)	FULLWORD	4	XRWEABC	- abend code (ex CAVM)
(18)	FULLWORD	4	XRWEUBD	- TOD clock - upper bound

### Constants

Len	Type	Value	Name	Description
1	DECIMAL	1	XRWESON	- signon
1	DECIMAL	2	XRWESOFN	- signoff normal
1	DECIMAL	3	XRWESOFA	- signoff abnormal
1	DECIMAL	7	XRWECKDC	- TOD clock difference
1	DECIMAL	8	XRWEIHRC	- health response
1	DECIMAL	9	XRWEHBOD	- heartbeat overdue
1	DECIMAL	10	XRWEHBRS	- heartbeat resumed
1	DECIMAL	15	XRWERQTK	- request takeover
1	DECIMAL	16	XRWEICPA	- incipient active
1	DECIMAL	17	XRWEACTV	- active
1	DECIMAL	18	XRWECKAS	- TOD clock wrt signoff
1	DECIMAL	19	XRWECKAT	- TOD clock wrt termination
1	DECIMAL	24	XRWEFAIL	- CAVM failure
1	DECIMAL	25	XRWEINVL	- invalidated

## ZCCPS CICS client

MODULE NAME = DFHZCCPS  
 DESCRIPTIVE NAME = CICS Client control blocks  
 This copybook provides the declarations and structures  
 necessary for the CCIN and CTIN transactions.

NOTES :

DEPENDENCIES = S/390

=====

Data for CICS client CCIN transaction input

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Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	R	Receive parameters
(0)	CHARACTER	12	CCIN_HEADER	
(0)	FULLWORD	4	CCIN_LEN	
(4)	UNSIGNED	1	CCIN_GROUP	
(5)	UNSIGNED	1	CCIN_FUNCTION	
(6)	UNSIGNED	1	CCIN_VERSION	
(7)	UNSIGNED	1	CCIN_RESPONSE	
(8)	UNSIGNED	2	CCIN_REASON	
(A)	UNSIGNED	2	CCIN_PARMNUM	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	CCIN_APPLID_PARM	
(0)	FULLWORD	4	CCIN_APPLID_LENGTH	
(4)	UNSIGNED	1	CCIN_APPLID_PARM_TYPE	
(5)	CHARACTER	*	CCIN_APPLID	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	CCIN_CODEPAGE_PARM	
(0)	FULLWORD	4	CCIN_CODEPAGE_LENGTH	
(4)	UNSIGNED	1	CCIN_CODEPAGE_PARM_TYPE	
(5)	CHARACTER	*	CCIN_CODEPAGE	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	CCIN_CAPABILITIES_PARM	
(0)	FULLWORD	4	CCIN_CAPABILITIES_LENGTH	

Offset Hex	Type	Len	Name (Dim)	Description
(4)	UNSIGNED	1	CCIN_CAPABILITIES_PARM_TYPE	
(5)	BITSTRING 1111 11.. .... ..1. .... ...1	1	CCIN_ENVIRON_TYPE * CCIN_EBCDIC CCIN_BIGENDIAN	
(6)	BITSTRING	2	CCIN_CLIENT_CAPABILITIES	
(6)	BITSTRING 1... ....  ..1. .... ...1 .... .... 1111	1	* CCIN_EXIT_PROCESSING CCIN_TRANSLATE_CAPABLE CCIN_DELETE_ENTRIES CCIN_TCTUA_COMMAREA *	
(7)	BITSTRING	1	*	

Offset Hex	Type	Len	Name (Dim)	Description	
(0)	STRUCTURE	9	CCIN_SECURITY_PARM		
(0)	FULLWORD	4	CCIN_SECURITY_LENGTH		
(4)	UNSIGNED	1	CCIN_SECURITY_PARM_TYPE		
(5)	UNSIGNED	1	CCIN_ECIATTACH_USERID		
(6)	UNSIGNED	1	CCIN_ECIATTACH_PASSWORD		
(7)	UNSIGNED	1	CCIN_EPIATTACH_USERID		
(8)	UNSIGNED	1	CCIN_EPIATTACH_PASSWORD		
#					
#					
#	(9)	UNSIGNED	1	CCIN_CCINATTACH_REQS	

APAR PQ30168  
added CCIN\_CCINATTACH\_REQS

=====

Data for CICS client CCIN transaction output

=====

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	S	Send parameters
(0)	CHARACTER	12	CCIN_HEADER	
(0)	FULLWORD	4	CCIN_LEN	
(4)	UNSIGNED	1	CCIN_GROUP	
(5)	UNSIGNED	1	CCIN_FUNCTION	
(6)	UNSIGNED	1	CCIN_VERSION	
(7)	UNSIGNED	1	CCIN_RESPONSE	
(8)	UNSIGNED	2	CCIN_REASON	
(A)	UNSIGNED	2	CCIN_PARMNUM	

=====

Data for CICS client CTIN transaction input

=====

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	IN	Input parameters
(0)	CHARACTER	12	CTIN_HEADER	
(0)	FULLWORD	4	CTIN_LEN	
(4)	UNSIGNED	1	CTIN_GROUP	
(5)	UNSIGNED	1	CTIN_FUNCTION	
(6)	UNSIGNED	1	CTIN_VERSION	
(7)	UNSIGNED	1	CTIN_RESPONSE	
(8)	UNSIGNED	2	CTIN_REASON	
(A)	UNSIGNED	2	CTIN_PARMNUM	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	CTIN_NETNAME_PARM	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	FULLWORD	4	CTIN_NETNAME_ LENGTH	
(4)	UNSIGNED	1	CTIN_NETNAME_ PARM_TYPE	
(5)	CHARACTER	*	CTIN_NETNAME	
Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	CTIN_MODELID_PARM	
(0)	FULLWORD	4	CTIN_MODELID_ LENGTH	
(4)	UNSIGNED	1	CTIN_MODELID_ PARM_TYPE	
(5)	CHARACTER	*	CTIN_MODELID	
Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	CTIN_CODEPAGE_ PARM	
(0)	FULLWORD	4	CTIN_CODEPAGE_ LENGTH	
(4)	UNSIGNED	1	CTIN_CODEPAGE_ PARM_TYPE	
(5)	CHARACTER	*	CTIN_CODEPAGE	
Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	CTIN_APPLID_PARM	
(0)	FULLWORD	4	CTIN_APPLID_ LENGTH	
(4)	UNSIGNED	1	CTIN_APPLID_ PARM_TYPE	
(5)	CHARACTER	*	CTIN_APPLID	
Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	CTIN_TERMID_PARM	
(0)	FULLWORD	4	CTIN_TERMID_ LENGTH	
(4)	UNSIGNED	1	CTIN_TERMID_ PARM_TYPE	
(5)	CHARACTER	*	CTIN_TERMID	
Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	6	CTIN_TERMSOC_PARM	
(0)	FULLWORD	4	CTIN_TERMSOC_ LENGTH	
(4)	UNSIGNED	1	CTIN_TERMSOC_ PARM_TYPE	
(5)	UNSIGNED	1	CTIN_TERMSOC_ IND	signon capability 1 - required 0 - not required

```

=====
Data for CICS client CTIN transaction output
=====
    
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	OUT	Output parameters
(0)	CHARACTER	12	CTIN_HEADER	
(0)	FULLWORD	4	CTIN_LEN	
(4)	UNSIGNED	1	CTIN_GROUP	
(5)	UNSIGNED	1	CTIN_FUNCTION	
(6)	UNSIGNED	1	CTIN_VERSION	
(7)	UNSIGNED	1	CTIN_RESPONSE	
(8)	UNSIGNED	2	CTIN_REASON	
(A)	UNSIGNED	2	CTIN_PARMNUM	
Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	CTIN_TERMDetails_ PARM	
(0)	FULLWORD	4	CTIN_TERMDetails_ LENGTH	
(4)	UNSIGNED	1	CTIN_TERMDetails_ PARM_TYPE	
(5)	CHARACTER	*	CTIN_TERMDetails	

#	Offset Hex	Type	Len	Name (Dim)	Description
#					APAR PQ30168
#					added the structure CTIN_TERMSOC_PARM
#	(0)	STRUCTURE	*	CTIN_TERMSOC_PARM	
#	(0)	FULLWORD	4		
#	(4)	UNSIGNED	1		
#	(5)	BITSTRING	1		Signon capability
#		1... ..			'1' - required
#					'0' - not required

## Constants

Len	Type	Value	Name	Description
1	DECIMAL	1	CCIN_CLIENT_FUNCTION	
Constants for ccin_function				
1	DECIMAL	1	CCIN_CLIENT_INSTALL_REQUEST	
1	DECIMAL	2	CCIN_CLIENT_INSTALL_RESPONSE	
1	DECIMAL	3	CCIN_CLIENT_UNINSTALL_REQUEST	
Constants for CCIN parameter types				
1	DECIMAL	1	CCIN_APPLID_TYPE	
1	DECIMAL	3	CCIN_CODEPAGE_TYPE	
1	DECIMAL	4	CCIN_CAPABILITIES_TYPE	
1	DECIMAL	9	CCIN_SECURITY_TYPE	
Constants for ccin_response				
1	DECIMAL	0	CCIN_NORMAL	
1	DECIMAL	1	CCIN_EXCEPTION	
1	DECIMAL	2	CCIN_ERROR	
1	DECIMAL	4	CCIN_DISASTER	
Constants for ccin_reason				
2	DECIMAL	0	CCIN_OK	
2	DECIMAL	1	CCIN_ALREADY_INSTALLED	
2	DECIMAL	4	CCIN_INSTALL_CANCELLED	
2	DECIMAL	5	CCIN_SERVER_BUSY	
2	DECIMAL	6	CCIN_INVALID_REQUEST	
2	DECIMAL	7	CCIN_INVALID_CODEPAGE	
=====				
Declare the CTIN header block and response and reason codes				
=====				
Constants for ctin_group				
1	DECIMAL	1	CTIN_CLIENT_FUNCTION	
Constants for ctin_function				
1	DECIMAL	17	CTIN_TERMINAL_INSTALL_REQUEST	
1	DECIMAL	18	CTIN_TERMINAL_INSTALL_RESPONSE	
1	DECIMAL	19	CTIN_TERMINAL_UNINSTALL_REQUEST	
Constants for CTIN parameter types				
1	DECIMAL	1	CTIN_APPLID_TYPE	
1	DECIMAL	3	CTIN_CODEPAGE_TYPE	
1	DECIMAL	5	CTIN_NETNAME_TYPE	
1	DECIMAL	6	CTIN_MODELID_TYPE	
1	DECIMAL	7	CTIN_TERMDETAILS_TYPE	
1	DECIMAL	8	CTIN_TERMID_TYPE	
1	DECIMAL	10	CTIN_TERMSOC_TYPE	
Constants for ctin_response				
1	DECIMAL	0	CTIN_NORMAL	
1	DECIMAL	1	CTIN_EXCEPTION	
1	DECIMAL	2	CTIN_ERROR	
1	DECIMAL	4	CTIN_DISASTER	
Constants for ctin_reason				
2	DECIMAL	1	CTIN_ALREADY_INSTALLED	
2	DECIMAL	2	CTIN_UNKNOWN_TERMINAL	
2	DECIMAL	3	CTIN_UNKNOWN_MODEL	
2	DECIMAL	4	CTIN_INSTALL_CANCELLED	
2	DECIMAL	5	CTIN_SERVER_BUSY	
2	DECIMAL	6	CTIN_INVALID_REQUEST	
2	DECIMAL	7	CTIN_INVALID_CODEPAGE	
Constants for ctin_o_type				
1	DECIMAL	7	CTIN_O_TERM_BPS	

## ZCQ Builder parameter set

CONTROL BLOCK NAME = DFHZCQPS  
 DESCRIPTIVE NAME = CICS Builder Parameter Set.  
 FUNCTION =  
 STORAGE CLASS = Any.  
 LOCATION = Via task registers.  
 INNER CONTROL BLOCKS =  
 There is a root section, containing an overlay-id, and one of several overlays.

NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None.  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None.  
 DATA AREAS = None.  
 CONTROL BLOCKS = ZC BIND-stub.  
 GLOBAL VARIABLES (Macro pass) = no public globals.

The builder parameter set data areas (ZCQPS) are used when creating a terminal control table resource dynamically, for example, by resource definition online (RDO). They are allocated by the RDO front end, by DFHZATD, or by DHZCQIS. These areas describe the properties of a terminal, connection session, modegroup, or terminal pool.

ZCQPS consists of a fixed-length prefix, a bit map preceded by its length, an area for fixed-length parameters preceded by its length, and three variable-length parameters for BIND, USERID and password, each holding its own length.

Prefix  
 00LL | Existence Bits  
 00LL | Fixed-length parameters  
 Beginning of the variable areas  
 LL | BIND area  
 LL | USERID  
 LL | Password

The bits in the bit map show the value of a fixed-length parameter if it has two values, or, in other cases, whether it has a value or not.

The other areas are overlays or values for the areas already described.

The following area is the root for the overlay structure

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	17	ZCBPS	Root for overlay structure
(0)	ADDRESS	4	ZCQSPTR	Address of BPS
(4)	ADDRESS	4	BPS_BIND_IN_USE	BPS Bind in use. Set by ZCQIS.
(8)	BITSTRING	1	*	
			1... ..	BPS_NOREPLACE
			.1. ....	BPS_SHIPPED_X
			..11 1...	BPS_TYPE_BITS
			..1. ....	BPS_CONN
			...1 ....	BPS_SESS
			.... 1...	BPS_POOL
			.... .111	*
(9)	CHARACTER	8	BPS_ATOM_ID	Related set of recoverable

BPSes

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	10	DFHZCQPS	BPS
(0)	ADDRESS	4	BPS_FORWARD_PTR	Next in chain, if any.
(4)	HALFWORD	2	BPS_LENGTH	Length of whole structure.
(6)	UNSIGNED	1	BPS_RTC	Resource Type Code.
(7)	UNSIGNED	1	BPS_SUBTYPE	Subtype.
(8)	UNSIGNED	1	BPS_OVERLAY_ID	Overlay Check Key.
(9)	BITSTRING	1	*	
			1... ..	BPS_TRACE_YES_X
(A)	CHARACTER		ZCQPSOVL	Location of overlays.



The existence bits define which options will be generated in the resulting terminal. It also indicates if further information is contained within the fixed parameter area (BPS\_FIXED\_VARS).

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	BPS_EXIST_BITS	BPS Existence Bits
(0)	UNSIGNED	2	ZCQPSXBL	Length of existence bits.
(2)	CHARACTER	*	ZCQPSXBA	Existence bits area.

  

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	BPS_FIXED_VARS	BPS Fixed Variables
(0)	UNSIGNED	2	ZCQPSFVL	Length of fixed-len parms.
(2)	CHARACTER	*	ZCQPSFVA	Fixed-length parm area.

BIND-image. An image of the VTAM BIND

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	BPSBINDI	BPS Bind Image
(0)	UNSIGNED	1	BPSBINDL	Bind Image Length
(1)	CHARACTER	*	BPSBINDS	Bind Image String

  

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	BPS_BIND_IMAGE	Usually BASED(ADDR(BPSBINDI))
(0)	UNSIGNED	1	BPS_BIND_LENGTH	Bind Image Length
(1)	CHARACTER	25	BPS_BIND_STRING	Bind Image String
(1A)	BITSTRING	1	BPS_CRYPT	Byte 26 of BIND
	1111 ....		*	Cryptography options
	.... 1111		*	Contains len(BPS_CRYPT_MODE)
(1B)	CHARACTER	*	BPS_CRYPT_MODE	Cryptography method

Optional BIND image fields

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	BPS_PLUNAME	Primary LU Name
(0)	UNSIGNED	1	BPS_PLUN_LENGTH	Primary LU Name length
(1)	CHARACTER	*	BPS_PLUN_STRING	Primary LU Name String

  

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	BPS_USERDATA	Userdata
(0)	UNSIGNED	1	BPS_USERD_LENGTH	Userdata Length
(1)	CHARACTER	*	BPS_USERD_STRING	Userdata string

  

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	BPS_URCORRELATOR	User related correlation field
(0)	UNSIGNED	1	BPS_URC_LENGTH	UR corr. field length
(1)	CHARACTER	*	BPS_URC_STRING	UR Corr. field string

  

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	BPS_SLU_NAME	Secondary LU Name
(0)	UNSIGNED	1	BPS_SLUN_LENGTH	Secondary LU Name length
(1)	CHARACTER	*	BPS_SLUN_STRING	Secondary LU Name String

USERID as in the VTAM CINIT

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	21	BPS_USID	USERID
(0)	UNSIGNED	1	BPS_USID_LENGTH	USERID Length
(1)	CHARACTER	20	BPS_USID_STRING	USERID Max. allowed in CICS

PASSWORD as in the VTAM CINIT

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	17	BPS_PWORD	PASSWORD
(0)	UNSIGNED	1	BPS_PWORD_LENGTH	PASSWORD Length
(1)	CHARACTER	16	BPS_PWORD_STRING	PASSWORD max allowed in CICS

Overlay for terminals.  
Generally, if it ends in \_xxx\_X (e.g.\_YES\_X) and the bit is on then the appropriate option will be set in the TCTTE.  
If it only ends in \_X and the bit is on then additional information will be contained in the fixed length parameter area whose value will be set in the TCTTE.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	24	ZC_EXIST_BITS	Terminal Existence Bits overlay
	1... ..		ZC_RESERVED_1_X	Reserved
	.1. ....		ZC_NETNAME_X	Netname Var exists
	..1. ....		ZC_CONSLID_X	Console ID var exists
	...1 ....		ZC_RMTNAME_X	Remote Name var exists
	.... 1...		ZC_SYSIDNT_X	Remote system name var exists
	.... .1..		ZC_POOLPTR_X	Pipeline pool pointer exists
	.... ..1.		ZC_PRINTTO_X	Printer var exists
	.... ...1		ZC_ALTPRINT_X	Alt printer var exists
(1)	1... ....		ZC_SPOOLTO_X	DOS Spooler var exists
	.1. ....		ZC_POOLID_X	POOLID var exists
	..1. ....		*	Reserved
	...1 ....		ZC_OPERPRI_X	Operator Priority var exists
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		ZC_OPERID_X	Operator ID var exists
	.... ...1		ZC_OPCLASS_X	Operator class exists
(2)	1... ....		ZC_NEPCLASS_X	NEP class var exists
	.1. ....		ZC_TRANSACTION_X	Tran ID var exists
	..1. ....		ZC_TRMPRTY_X	Terminal Priority var exists
	...1 ....		*	Reserved
	.... 1...		ZC_LDC_X	LDC var exists
	.... .1..		ZC_LOGMODE_X	LOGMODE var exists
	.... ..1.		ZC_PGESIZE_1_X	Page size var exists
	.... ...1		ZC_PGESIZE_2_X	Page size var exists
(3)	1... ....		ZC_ALTPGE_1_X	Alt Page size var exists
	.1. ....		ZC_ALTPGE_2_X	Alt Page size var exists
	..1. ....		ZC_ALTSFX_X	Alt suffix var exists
	...1 ....		ZC_TCTUAL_X	User Area Len var exists
	.... 1...		ZC_CINIT_YES_X	Not used
	.... .1..		ZC_APLKYBD_YES_X	APL Keyboard
	.... ..1.		ZC_APLTEXT_YES_X	APL Text
	.... ...1		ZC_AUDALARM_YE_X	Audible alarm
(4)	1... ....		ZC_COLOR_YES_X	Colour
	.1. ....		ZC_DCKYBD_YES_X	DC keyboard
	..1. ....		ZC_EXTDS_YES_X	3270 extended data stream
	...1 ....		ZC_HILIGHT_YES_X	High light
	.... 1...		ZC_KATAKANA_YE_X	Katakana keyboard
	.... .1..		ZC_MSRCNTRL_YE_X	Magnetic slot reader
	.... ..1.		ZC_OBFMT_YES_X	OB format
	.... ...1		ZC_PARTNS_YES_X	Partition support
(5)	1... ....		ZC_PTRADAPT_YE_X	Print adaptor
	.1. ....		ZC_PS_YES_X	Prog Symb
	..1. ....		ZC_SELCTPEN_YE_X	Select Pen
	...1 ....		ZC_VALIDATI_YE_X	Validate
	.... 1...		ZC_HF_YES_X	Horizontal form
	.... .1..		ZC_VF_YES_X	Vertical form
	.... ..1.		ZC_FF_YES_X	Form Feed
	.... ...1		ZC_FMHPARM_YES_X	BMS FMH parms

Offset Hex	Type	Len	Name (Dim)	Description
(6)	1...	.....	ZC_AUTOPAGE_YE_X	Autopage
	.1..	.....	ZC_ERRLASTL_YE_X	Error last line
	..1.	.....	ZC_ERRINTEN_YE_X	Error intensify
	....	.....	ZC_ERRCOLOR_BL_X	Error colour blue
	....	1...	ZC_ERRCOLOR_RE_X	Error colour red
	....	.1..	ZC_ERRCOLOR_PL_X	Error colour pink
	....	..1.	ZC_ERRCOLOR_GR_X	Error colour green
	....	...1	ZC_ERRCOLOR_TU_X	Error colour turquoise
(7)	1...	.....	ZC_ERRCOLOR_YE_X	Error colour yellow
	.1..	.....	ZC_ERRCOLOR_NE_X	Error colour neutral
	..1.	.....	ZC_ERRHILIG_BL_X	Error hilight blue
	....	.....	ZC_ERRHILIG_RE_X	Error hilight red
	....	1...	ZC_ERRHILIG_UN_X	Error hilight underline
	....	.1..	ZC_ATI_YES_X	ATI allowed
	....	..1.	ZC_TTL_YES_X	TTI allowed
	....	...1	ZC_INTLOG_YES_X	Create sess
(8)	1...	.....	ZC_OUTSERVI_YE_X	Out of service
	.1..	.....	ZC_INPUT_YES_X	Input only term
	..1.	.....	ZC_RELREQ_YES_X	Relreq
	....	.....	ZC_DISCONNIE_YE_X	Disconnect
	....	1...	ZC_ROUTE_NOTAL_X	Route DMS SP
	....	.1..	ZC_ROUTE_NEVER_X	Route DMS NO
	....	..1.	ZC_GMSG_YES_X	Logon Message
	....	...1	ZC_PRINT_YES_X	Print
(9)	1...	.....	ZC_CHNASSY_YES_X	Chain assembly
	.1..	.....	ZC_UCTRAN_YES_X	Upper case translate
	..1.	.....	ZC_3270E_YES_X	3270 E
	....	.....	ZC_TEXTKYBD_YE_X	Text keyboard
	....	1...	ZC_TEXTPRIN_YE_X	Text print
	....	.1..	ZC_CONNAUTO_YE_X	Auto connect
	....	..1.	ZC_IOAREALEN_X	IO area len
	....	...1	ZC_CHAINMAX_X	Chain max
(A)	1...	.....	ZC_PARS_LU6_X	Parallel sess LU61
	.1..	.....	ZC_PARS_LUC_X	Parallel sess LU62
	..1.	.....	ZC_QUERY_COLD_X	Query cold
	....	.....	ZC_QUERY_ALL_X	Query all
	....	1...	ZC_COPY_YES_X	3270 copy
	....	.1..	ZC_ACOPY_YES_X	3270 copy alt
	....	..1.	ZC_PREBIND_SCR_X	Pre bind
	....	...1	ZC_AUTOPAGE_NO_X	BMS Autopage
(B)	1...	.....	ZC_CGCSGID_1_X	Graphic char set var exists
	.1..	.....	ZC_CGCSGID_2_X	Graphic char set var exists
	..1.	.....	ZC_OBOPERID_YE_X	Outboard op id
	....	.....	ZC_SHIPPABL_YE_X	Shippable
	....	1...	ZC_SIGNOFF_YES_X	Signoff at timeout
	....	.1..	ZC_PRINTERTYPE_X	Printer type
	....	..1.	ZC_SPOOLDEST_X	Dos spool dest
	....	...1	ZC_SIGNOFF_LOG_X	Logoff at timeout
(C)	1...	.....	ZC_XSNAME_X	Security name var exists
	.1..	.....	ZC_USEDFLTU_YE_X	Use default user
	..1.	.....	ZC_NETNAMEQ_X	Netname Q
	....	.....	ZC_MAXSESS_1_X	Max sessions var exists
	....	1...	ZC_MAXSESS_2_X	Max sessions var exists
	....	.1..	ZC_SYSTEM_PTR_X	Pointer not name supplied
	....	..1.	*	Reserved
	....	...1	*	Reserved
(D)	1...	.....	*	Reserved
	.1..	.....	ZC_CONNAUTO_AL_X	Auto connect all
	..1.	.....	ZC_SESSNAME_X	Session name
	....	.....	ZC_LUSM_YES_X	LU Serv manager session
	....	1...	ZC_MODENAME_X	Mode name var exists
	....	.1..	ZC_POOLCNT_X	Pool count var exists
	....	..1.	ZC_PARS_YES_X	Parallel session
	....	...1	ZC_ATTACHSE_LO_X	Attach security local
(E)	1...	.....	ZC_ATTACHSE_ID_X	Attach security ID
	.1..	.....	ZC_ATTACHSE_VE_X	Attach security verify
	..1.	.....	*	Reserved
	....	.....	ZC_TRANSIENT_X	Autoinstalled terminal
	....	1...	ZC_TASKLIMIT_X	Pipe line task limit
	....	.1..	ZC_BACKTRAN_YE_X	Background transparency
	....	..1.	ZC_SOSI_YES_X	Ebdcid and d.byte char set
	....	...1	ZC_OUTLINE_YES_X	Outline supported
(F)	1...	.....	ZC_RECOVOPT_SY_X	RecovOption = System Default
	.1..	.....	ZC_RECOVOPT_CL_X	RecovOption = Clear Conv.
	..1.	.....	ZC_RECOVOPT_RE_X	RecovOption = Release Session
	....	.....	ZC_RECOVOPT_RS_X	RecovOption = Restart Session
	....	1...	ZC_RECOVOPT_NO_X	RecovOption = None
	....	.1..	ZC_RECOVNOT_NO_X	RecovNotify = None
	....	..1.	ZC_RECOVNOT_ME_X	RecovNotify = Message
	....	...1	ZC_RECOVNOT_TR_X	RecovNotify = Transaction
(10)	1...	.....	ZC_NATLANG_X	National Language exists
	.1..	.....	ZC_XRFSIGNO_FO_X	XRFsignoff = force => 1
	..1.	.....	ZC_3270COMP_X	3270 compatibility bits
	....	.....	ZC_LUTYPE2_X	Indicate DEVICE=LUTYPE2
	....	1...	ZC_UCTRAN_TRAN_X	UC translate tranid
(10)	BITSTRING		ZC_RESERVED_311	Reserved

Offset Hex	Type	Len	Name (Dim)	Description
(11)	.... 1...		ZC_PRT_NETNAME_X	MTS printer netname
	.... 1..		ZC_APRT_NETNAME_X	MTS ALTPRT netname
	.... .1..		ZC_CONSNAME_X	Console name exists
	.... .1.		ZC_BINDSECU_YE_X	Bind security on
	.... ..1		ZC_BINDSECU_NO_X	Bind security off
(12)	1... ..		ZC_ATTACHSE_PE_X	Attach security Persistent
	.1. ....		ZC_ATTACHSE_ML_X	Attach security Mixed
	..11 1...		ZC_RESERVED_320	Reserved
(12)	BITSTRING		ZC_RESERVED_330	Reserved
(13)	.1.. ....		ZC_PROTOCOL_EX_X	PROTOCOL=EXCI
	..1. ....		ZC_SENDCOUNT_X	Session SENDCOUNT supplied
	.... 1...		ZC_RECEIVECOUN_X	Session RECEIVECOUNT
	.... .1..		ZC_CLONE_X	APPC clone session
	.... ..1		ZC_EXTENDED_NO_X	CBD, local sec allowed
	.... .1.		ZC_EXTENDED_YE_X	CBD, NO local sec. allowed
	.... ..1		ZC_CBDATTAC_NO_X	CBD, no CBD security
(14)	1... ..		ZC_CBDATTAC_AC_X	CBD, accepted protocol
	.1. ....		ZC_CBDATTAC_RE_X	CBD, required protocol
	..1. ....		ZC_USE_MRO_BITMAP_X	Session for MRO BITMAP
	.... 1...		ZC_TITOKEN_YES_X	token present
(14)	BITSTRING		ZC_RESERVED_DEV	Reserved for rel 510
(15)	.1.. ....		ZC_CATLG_NO_X	Session not catalogued
	..1. ....		ZC_TOR_NETNAME_X	TOR netname provided
	.... 1...		ZC_VIRTUAL_TERMINAL_X	Virtual Terminal
(15)	BITSTRING		ZC_BRACKET_NO_X	Bracket(No)
(16)	BITSTRING	1	ZC_RESERVED_510	Reserved for rel 510
			ZC_RESERVED_130	Reserved for rel 1.3

Fixed Length Variables for Terminals

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	257	ZC_FIXED_VARS	Terminal Variable fields overlay
(0)	CHARACTER	4	ZC_TERMINAL	Terminal ID
(4)	CHARACTER	8	ZC_NETNAME	Netname
(C)	FULLWORD	4	ZC_CONSLID	Console ID
(10)	CHARACTER	4	ZC_RMTNAME	Remote name
(14)	CHARACTER	4	ZC_SYSIDNT	Connection ID
(18)	CHARACTER	4	ZC_PRINTTO	Printer name
(1C)	CHARACTER	4	ZC_ALTPRINT	Alt printer name
(20)	CHARACTER	4	ZC_SPOOLTO_OLD	Old DOS spooler ID
(24)	CHARACTER	8	ZC_POOLID	Pool ID
(24)	ADDRESS	4	ZC_POOLPTR	Pool Pointer
(2C)	UNSIGNED	1	ZC_OPERPRI	Operator priority
(2D)	BITSTRING	3	*	Reserved
(30)	BITSTRING	8	*	Reserved
(38)	FULLWORD	4	ZC_NEPCLASS	NEP class
(3C)	FULLWORD	4	*	Reserved
(40)	CHARACTER	3	ZC_OPCLASS	Operator class
(43)	CHARACTER	3	ZC_OPERID	Operator ID
(46)	CHARACTER	4	ZC_TRANSACTION	Transaction ID
(4A)	CHARACTER	2	*	Reserved
(4C)	FULLWORD	4	ZC_TRMPRTY	Terminal Priority
(50)	FULLWORD	4	*	Reserved
(54)	CHARACTER	8	ZC_LDC	LDC
(5C)	UNSIGNED	1	ZC_PREBIND_SCR (4)	Pre Bind
(60)	CHARACTER	8	ZC_LOGMODE	Logmode
(68)	FULLWORD	4	ZC_PGFSIZE_1	BMS Page size
(6C)	FULLWORD	4	ZC_PGFSIZE_2	BMS Page size
(70)	FULLWORD	4	ZC_ALTPGE_1	BMS Alt page size
(74)	FULLWORD	4	ZC_ALTPGE_2	BMS Alt page size
(78)	CHARACTER	1	ZC_ALTSFX	BMS Alt suffix
(79)	CHARACTER	3	*	Reserved
(7C)	FULLWORD	4	ZC_TCTUAL	User area length
(80)	ADDRESS	4	ZC_MODE_PTR	Mode group pointer
(84)	FULLWORD	4	ZC_IOAREALEN	TIOA length
(88)	FULLWORD	4	ZC_CHAINMAX	Chain max
(8C)	UNSIGNED	2	ZC_CGCSGID_1	Graphic char set
(8E)	UNSIGNED	2	ZC_CGCSGID_2	Graphic char set
(90)	CHARACTER	2	ZC_PRINTERTYPE	Printer type
(92)	CHARACTER	2	*	Reserved
(94)	FULLWORD	4	ZC_TASKLIMIT	Task limit
(98)	CHARACTER	8	ZC_SPOOLDEST	DOS spool dest
(A0)	CHARACTER	1	*	Reserved
(A1)	CHARACTER	8	ZC_NETNAMEQ	Netname queue
(A9)	CHARACTER	3	*	Reserved
(AC)	FULLWORD	4	ZC_MAXSESS_1	Max sessions
(B0)	FULLWORD	4	ZC_MAXSESS_2	Max sessions
(B4)	CHARACTER	8	ZC_XSNAME	Security name

Offset Hex	Type	Len	Name (Dim)	Description
(BC)	FULLWORD	4	ZC_POOLCNT	Pool count
(C0)	FULLWORD	4	ZC_MAXSESSCOUNT	Max session count
(C4)	CHARACTER	8	ZC_TITOKEN	Terminal token
(CC)	CHARACTER	8	ZC_MODENAME	Mode group name
(D4)	CHARACTER	8	ZC_SPOOLTO	DOS SPOOLTO name
(DC)	CHARACTER	1	ZC_NATLANG	National Language
(DD)	CHARACTER	8	ZC_PRT_NETNAME	MTS printer netname
(E5)	CHARACTER	8	ZC_APRT_NETNAME	MTS ALTPRT netname
(ED)	CHARACTER	8	ZC_CONSNAME	Console name
(F5)	CHARACTER	2	ZC_SENDCOUNT	Session SENDCOUNT (MRO)
(F7)	CHARACTER	2	ZC_RECEIVECOUN	Session RECEIVECOUNT (MRO)
(F9)	CHARACTER	8	ZC_TOR_NETNAME	TOR Netname

Overlay for connection.  
 Generally, if it ends in \_xxx\_X (e.g.\_YES\_X) and the bit is on then the appropriate option will be set in the TCSE.  
 If it only ends in \_X and the bit is on then additional information will be contained in the fixed length parameter area whose value will be set in the TCSE.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	10	ZX_EXIST_BITS	Connection Existence bits overlay
			1... ..*	Reserved
			.1. .... ZX_NETNAME_X	Connection netname var exists
			..1. .... ZX_XSNAME_X	Security name var exists
			...1 .... ZX_USEDFLTU_YE_X	Use default user
			.... 1... ZX_CONNAUTO_YE_X	Auto connect
			.... .1. ZX_ATTACHSE_LO_X	Attach security local
			.... ..1. ZX_ATTACHSE_VE_X	Attach security verify
			.... ...1 ZX_DATASTR_USE_X	Data stream user
(1)			1... .... ZX_DATASTR_327_X	Data stream 3270
			.1. .... ZX_DATASTR_SCS_X	Data stream SCS
			..1. .... ZX_DATASTR_STR_X	Data stream STR field
			...1 .... ZX_DATASTR_LMS_X	Data stream LMS
			.... 1... ZX_RECFCM_U_X	RECFCM Undefined
			.... .1. ZX_RECFCM_VB_X	RECFCM Variable blocked
			.... ..1. ZX_CONNAUTO_AL_X	Autoconnect all
			.... ...1 ZX_OUTSERVI_YE_X	Out of service
(2)			1... .... ZX_TRANSACTION_X	Transaction ID var exists
			.1. .... ZX_INTLOG_YES_X	Intlog
			..1. .... ZX_ACCMETH_XM_X	Cross Memory access method
			...1 .... ZX_ATTACHSE_ID_X	Attach security ID
			.... 1... *	Reserved
			.... .1. ZX_TRANSIENT_X	Autoinstalled connection
			.... ..1. ZX_RMTNAME_X	Remote name
			.... ...1 ZX_RMTSYSN_X	Remote system
(3)			1... .... ZX_BINDSECU_YE_X	Bind security on
			.1. .... ZX_BINDSECU_NO_X	Bind security off
			..1. .... ZX_ATTACHSE_PE_X	Attach security Persistent
			...1 .... ZX_ATTACHSE_MI_X	Attach security Mixed
(3)	BITSTRING	1	ZX_RESERVED_3XX	Reserved for rel 3.
(4)			ZX_PROTOCOL_EX_X	PROTOCOL=EXCI
			.... 1... ZX_QUEUELIM_X	Allocate queue limit
			.... .1. ZX_PSRECOVE_SY_X	PSRECOVERY = Sysdefault
			.... ..1. ZX_PSRECOVE_NO_X	PSRECOVERY = None
(5)			1... .... ZX_SENDCOUNT_X	Session SENDCOUNT supplied
			.1. .... ZX_RECEIVECOUN_X	Session RECEIVECOUNT
			..1. .... ZX_CLONE_X	APPC clone
			...1 .... ZX_MAXQTIME_X	Allocate queue time
			.... 1... ZX_EXTENDED_NO_X	CBD, local sec allowed
			.... ..1. ZX_EXTENDED_YE_X	CBD, NO local sec. allowed
			.... ...1. ZX_CBDATTAC_NO_X	CBD, no CBD security
			.... .....1. ZX_CBDATTAC_AC_X	CBD, accepted protocol
(6)			1... .... ZX_CBDATTAC_RE_X	CBD, required protocol
			.1. .... ZX_RMTSYSNET_X	Netname of TOR
			..1. .... ZX_TITOKEN_YES_X	token present
			...1 1111 ZX_RESERVED_410	Reserved for rel 410
(7)			1... .... ZX_GR_X	Both sides GR registered
			.1. .... ZX_GRNAME_CONN_X	On = GR name connection

Off = member name conn.

			..1. .... ZX_USE_OUR_MEM_X	Partner used our membername
			...1 .... ZX_NETID_X	Network name present
			.... 1... ZX_NETNAME2_X	GR or member name present
			.... .1. ZX_CATLG_NO_X	Connection not catalogued
			.... ..1. ZX_DELETE_X	AI implicitly deletable
			.... ...1. ZX_XLNACTIO_FO_X	XLNaction(force)
(8)	BITSTRING	1	ZX_RESERVED_510	Reserved for rel 510
(9)	BITSTRING	1	ZX_RESERVED_130	Reserved for rel 1.3

## Fixed Length Variables for Connections

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	86	ZX_FIXED_VARS	Connection Variable fields overlay
(0)	CHARACTER	4	ZX_CONNECTION	Connection name
(4)	CHARACTER	4	ZX_INDSYS	Indirect system name
(8)	CHARACTER	8	ZX_NETNAME	Netname
(10)	CHARACTER	8	ZX_XSNAME	Security name
(18)	CHARACTER	8	*	Reserved
(20)	CHARACTER	4	ZX_TRANSACTION	Transaction ID
(24)	CHARACTER	4	ZX_RMTNAME	Remote name
(28)	CHARACTER	4	ZX_RMTSYSN	Remote system
(2C)	FULLWORD	4	ZX_QUEUE LIM	Allocate queue limit
(30)	CHARACTER	2	ZX_SENDCOUNT	Session SENDCOUNT (MRO)
(32)	CHARACTER	2	ZX_RECEIVECOUN	Session RECEIVECOUNT (MRO)
(34)	HALFWORD	2	ZX_MAXQTIME	Allocate queue time
(36)	CHARACTER	8	ZX_RMTSYSNET	Netname of TOR
(3E)	CHARACTER	8	ZX_TITOKEN	terminal identification
(46)	CHARACTER	8	ZX_NETID	NETID of partner
(4E)	CHARACTER	8	ZX_NETNAME2	Generic Resource or member name

## Constants

Len	Type	Value	Name	Description
4	DECIMAL	24		
4	DECIMAL	10		
4	DECIMAL	257		
4	DECIMAL	86		
4	DECIMAL	575	BPS_C_MAXSIZE	
4	DECIMAL	134	BPS_X_MAXSIZE	

## ZEPD TCP modules address list

CONTROL BLOCK NAME = DFHZEPD  
 DESCRIPTIVE NAME = CICS TCP Modules Address List.

Offset Hex	Type	Len	Name (Dim)	Description
(0)			DFHZEPD	TCP MODULES ADDR LIST DSECT
(0)	ADDRESS	4	DFHZTDNA	00 TCP dispatcher entry address
(4)	ADDRESS	4	DFHZRWNA	01 APPL R/W request entry
(8)	ADDRESS	4	DFHZTSNA	02 Locate TCP service entry *
STANDARD NAMES FOR MODULES				
(0)	ADDRESS	4	DFHZDSPA	00 Dispatch module address
(4)	ADDRESS	4	DFHZARQA	01 READ/WRITE module address
(8)	ADDRESS	4	DFHZLOCA	02 LOCATE TCP module address
(C)	ADDRESS	4	DFHZDETA	03 DETACH module address
(10)	ADDRESS	4	DFHZBTNA (0)	
(10)	ADDRESS	4	DFHZTCPA	04 Non-VTAM TCP entry point
(14)	ADDRESS	4		05 Reserved
(18)	ADDRESS	4	DFHZCRQA	06 Command requests module address
(1C)	HALFWORD	2		Reserved
(1E)	HALFWORD	2	DFHZLENG	07 Length of ZEPD list
(20)	ADDRESS	4	DFHZSTUA	08 Status change module address
(24)	ADDRESS	4	DFHZTSPA	09 Terminal sharing module address
(28)	ADDRESS	4	DFHZHPXA	0A HPO RPL executor ZHPRX address
(2C)	ADDRESS	4	DFHZISPA	0B ALLOCATE/FREE module address
(30)	ADDRESS	4	DFHZIS1A	0C Common IS/ZCP requests address
(34)	ADDRESS	4	DFHZIS2A	0D IS MM/BSC internal requests
(38)	ADDRESS	4	DFHZABDA	0E Invalid request or abend module address
(3C)	ADDRESS	4		0F Reserved
(40)	ADDRESS	4	DFHZATIA	10 Automatic transaction Initiation module address
(44)	ADDRESS	4	DFHZATTA	11 Attach task module address
(48)	ADDRESS	4	DFHZFREA	12 Free storage module address
(4C)	ADDRESS	4	DFHZGETA	13 Get storage module address
RESERVED EXTRA SPACE FOR NON-VTAM TCT				
	.1.1 ....		ZEPDLENC	"-DFHZEPD"
(50)	ADDRESS	4	DFHZRACA	14 Receive any module address
(54)	ADDRESS	4	DFHZRSTA	15 RESETSR module address
(58)	ADDRESS	4	DFHZRVSA	16 Receive specific module address
(5C)	ADDRESS	4	DFHZRVXA	17 Receive specific exit module address
(60)	ADDRESS	4	DFHZSDSA	18 Send normal module address
(64)	ADDRESS	4	DFHZSDXA	19 Send data exit module address
(68)	ADDRESS	4	DFHZUCTA	1A Translation module address
(6C)	ADDRESS	4	DFHZUIXA	1B User exit module address
(70)	ADDRESS	4	DFHZACTA	1C Activate scan module address
(74)	ADDRESS	4	DFHZSDRA	1D Send response module address
(78)	ADDRESS	4	DFHZHPSA	1E HPO send receive module address
(7C)	ADDRESS	4	DFHZRPLA	1F Receive Any Builder
(80)	ADDRESS	4	DFHZAITA	20 Attach initiation module address
(84)	ADDRESS	4	DFHZASXA	21 Asynchronous command exit module address
(88)	ADDRESS	4	DFHZCLSA	22 Close destination module address
(8C)	ADDRESS	4	DFHZCLXA	23 Close destination exit module address
(90)	ADDRESS	4		24 Reserved
(94)	ADDRESS	4	DFHZLEXA	25 LERAD exit module address
(98)	ADDRESS	4	DFHZLGXA	26 LOGON exit module address
(9C)	ADDRESS	4	DFHZLRPA	27 Logical record presentation module address
(A0)	ADDRESS	4	DFHZLTXA	28 LOSTERM exit module address
(A4)	ADDRESS	4	DFHZOPNA	29 Open destination module address
(A8)	ADDRESS	4	DFHZOPXA	2A Open destination exit module address
(AC)	ADDRESS	4	DFHZRAQA	2B Read ahead queuing module address
(B0)	ADDRESS	4	DFHZRARA	2C Read ahead retrieval module address
(B4)	ADDRESS	4	DFHZRPXA	2D Response exit module address
(B8)	ADDRESS	4	DFHZRRXA	2E Release request exit module address
(BC)	ADDRESS	4	DFHZNSPA	2F Network services procedure exit address
(C0)	ADDRESS	4	DFHZRSYA	30 RESYNC module address
(C4)	ADDRESS	4	DFHZSAXA	31 Send asynchronous exit address
(C8)	ADDRESS	4	DFHZSCXA	32 SCIP exit module address
(CC)	ADDRESS	4	DFHZSDAA	33 Send asynchronous command module address
(D0)	ADDRESS	4	DFHZSKRA	34 Send command response address
(D4)	ADDRESS	4	DFHZSESA	35 SESSIONC command module address
(D8)	ADDRESS	4	DFHZSEXA	36 SESSIONC exit module address
(DC)	ADDRESS	4	DFHZSIMA	37 SIMLOGON module address
(E0)	ADDRESS	4	DFHZSIXA	38 SIMLOGON exit module address
(E4)	ADDRESS	4	DFHZSLSA	39 SETLOGON start module address
(E8)	ADDRESS	4	DFHZSSXA	3A Send synchronous command exit address
(EC)	ADDRESS	4	DFHZSYXA	3B SYNAD exit module address
(F0)	ADDRESS	4	DFHZTAXA	3C TURNAROUND module address
(F4)	ADDRESS	4	DFHZTPXA	3D TPEND exit module address
(F8)	ADDRESS	4	DFHZOPAA	3E VTAM open ACB module address
(FC)	ADDRESS	4	DFHZSHUA	3F SHUTDOWN/RESERVED module address

Offset Hex	Type	Len	Name (Dim)	Description
(100)	ADDRESS	4	DFHZQUEA	40 Process queue module address
(104)	ADDRESS	4	DFHZEMWA	41 Error message module address
(108)	ADDRESS	4	DFHZSYNA	42 SYNCHPOINT module address
(10C)	ADDRESS	4	DFHZTRAA	43 ZCP RPL trace module address
(110)	ADDRESS	4	DFHZANDA	44 Abend control block module
(114)	ADDRESS	4	DFHZCNAA	45 Console control module
(118)	ADDRESS	4	DFHZCNRA	46 Console request module
(11C)	ADDRESS	4	DFHZCNCA	47 Console abnormal condition module
(120)	ADDRESS	4	DFHZUAXA	48 Attach user exit
(124)	ADDRESS	4	DFHZUOXA	49 Output user exit
(128)	ADDRESS	4	DFHZARLA	4A LU6.2 APPL request module
(12C)	ADDRESS	4	DFHZARMA	4B LU6.2 migration module
(130)	ADDRESS	4	DFHZRVLA	4C LU6.2 RECV pre-vtam module
(134)	ADDRESS	4	DFHZRLXA	4D LU6.2 RECV exit module
(138)	ADDRESS	4	DFHZSDLA	4E LU6.2 SEND module
(13C)	ADDRESS	4	DFHZSLXA	4F LU6.2 SEND exit module
(140)	ADDRESS	4	DFHZERHA	50 LU6.2 APPL ERP module
(144)	ADDRESS	4	DFHZLUSA	51 LU6.2 LU services module
(148)	ADDRESS	4	DFHZBKTA	52 LU6.2 Bracket state machine
(14C)	ADDRESS	4	DFHZCNTA	53 LU6.2 Contention state
(150)	ADDRESS	4	DFHZCHSA	54 LU6.2 Chain send
(154)	ADDRESS	4	DFHZCHRA	55 LU6.2 Chain receive
(158)	ADDRESS	4	DFHZUSRA	56 LU6.2 Conversation state
(15C)	ADDRESS	4	DFHZDSTA	57 SNA-ASCII Translation module
(160)	ADDRESS	4	DFHZEV1A	58 Encryption validation 1
(164)	ADDRESS	4	DFHZEV2A	59 Encryption validation 2
(168)	ADDRESS	4		5A Reserved
(16C)	ADDRESS	4		5B Reserved
(170)	ADDRESS	4		5C Reserved
(174)	ADDRESS	4		5D Reserved
(178)	ADDRESS	4	DFHZXRCA	5E XRF terminal recovery
(17C)	ADDRESS	4		5F Reserved
(180)	ADDRESS	4	DFHZXRLA	60 LU6.2 Transaction Routing
(184)	ADDRESS	4	DFHZINTA	61 Initialisation Module
(188)	ADDRESS	4		62 Reserved
(18C)	ADDRESS	4	DFHZSTAA	63 LU6.2 Application State
(190)	ADDRESS	4	DFHZRLPA	64 LU6.2 RECV post-vtam module
(194)	ADDRESS	4	DFHZCRTA	65 LU6.2 RPL_B state
(198)	ADDRESS	4	DFHZRASA	66 LU 6.2 flooding module
(19C)	ADDRESS	4	DFHZXPSA	67 PRSS APPC recovery

If you add extra modules at this point dont forget to change DFHSIF1 MODLMAX field. Also add them in pairs because of the double word boundary below.

(1A0)	DBL WORD	8	(0)	
(1A0)			ZEPDLEN	"-DFHZEPD" Total length
(1A0)			ZEPDLENV	"ZEPDLEN-ZEPDLENC" VTAM length



## ZGDC Domain subroutine equates

```

=====
CONTROL BLOCK NAME = DFHZGDCC
DESCRIPTIVE NAME = CICS ZC domain subroutine constants
FUNCTION =
    To contain constants in use by ZG domain subroutines
    such as trace point IDs and recovery routine constants.
LIFETIME =
STORAGE CLASS =
INNER CONTROL BLOCKS =
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS =
MODULE TYPE = Control block definition
EXTERNAL REFERENCES =
DATA AREAS =
CONTROL BLOCKS =
GLOBAL VARIABLES (Macro pass) =
=====
Trace point identifiers
=====
DFHZCN1
    
```

Offset Hex	Type	Len	Name (Dim)	Description
2	HEX	3000	TID_ZCN1_ENTRY	@LDA
2	HEX	3001	TID_ZCN1_EXIT	@LDA
2	HEX	3002	TID_ZCN1_	
			INVALID_FUNCTION	
2	HEX	3003	TID_ZCN1_	
			PROTOCOL_VIOLATION	
2	HEX	3004	TID_ZCN1_	
			DATA_LENGTH_ERROR	
2	HEX	3005	TID_ZCN1_	
			ZCN2_INSTALL_ERROR	
2	HEX	3006	TID_ZCN1_	@LDA
			ZCN2_UNINSTALL_ERROR	
2	HEX	3007	TID_ZCN1_DISASTER	@LDA
2	HEX	3008	TID_ZCN1_INVALID_START_	
			TYPE	
2	HEX	300A	TID_ZCN1_	
			INSTALL_CANCELLED	
2	HEX	300B	TID_ZCN1_	@LDA
			INVALID_VERSION	
2	HEX	300C	TID_ZCN1_	
			INVALID_PRINC_FAC	
2	HEX	300D	TID_ZCN1_INVALID_GROUP	@LDA
2	HEX	300E	TID_ZCN1_INVALID_DATA	@LDA
2	HEX	300F	TID_ZCN1_NO_CODEPAGE	@LDA
2	HEX	3040	TID_ZCN1_	@LDA
			NO_CAPABILITIES	
2	HEX	3041	TID_ZCN1_CCIN_REMOTE	@LDA
<hr/>				
DFHZCN2				
2	HEX	3010	TID_ZCN2_ENTRY	@LDA
2	HEX	3011	TID_ZCN2_EXIT	@LDA
2	HEX	3014	TID_ZCN2_	
			INVALID_FUNCTION	
2	HEX	3015	TID_ZCN2_	@LDA
			COND_ENQ_FAILED	
2	HEX	3016	TID_ZCN2_	
			RECOVERY_ENTERED	
2	HEX	3017	TID_ZCN2_	@LDA
			ACQ_PROG_FAILED	
2	HEX	3018	TID_ZCN2_	
			CDTS_ATTACH_FAILED	
2	HEX	3019	TID_ZCN2_CDTS_TIMEOUT	@LDA
2	HEX	301A	TID_ZCN2_INVALID_CAPS	@LDA
2	HEX	301C	TID_ZCN2_	@LDA
			DEL_SURROG_BUSY	
<hr/>				
DFHZCT1				
2	HEX	3020	TID_ZCT1_ENTRY	@LDA
2	HEX	3021	TID_ZCT1_EXIT	@LDA
2	HEX	3022	TID_ZCT1_RECEIVE_FAILED	@LDA
2	HEX	3023	TID_ZCT1_INPUT_DATA	@LDA
2	HEX	3024	TID_ZCT1_NOT_CLIENT	@LDA
2	HEX	3025	TID_ZCT1_	
			CITS_ATTACH_FAILED	
2	HEX	3026	TID_ZCT1_DUP_FOUND	@LDA

Offset Hex	Type	Len	Name (Dim)	Description
2	HEX	3027	TID_ZCT1_ CITS_TIMEOUT	@LDA
2	HEX	3028	TID_ZCT1_ CDTS_ATTACH_FAILED	
2	HEX	3029	TID_ZCT1_ CDS_TIMEOUT	@LDA
2	HEX	302A	TID_ZCT1_ INVALID_START_ TYPE	
2	HEX	302B	TID_ZCT1_ INVALID_SYNC_LEVEL	
2	HEX	302C	TID_ZCT1_ LOGIC_ERROR	@LDA
2	HEX	302D	TID_ZCT1_ DATA_LENGTH_ERROR	
2	HEX	302E	TID_ZCT1_	@LDA
2	HEX	302F	INS_SURROG_BUSY	@LDA
2	HEX	3030	TID_ZCT1_ CITS_ABEND	@LDA
2	HEX	3031	TID_ZCT1_ GET_BPS_FAILED	@LDA
2	HEX	3032	TID_ZCT1_ INVALID_PRINC_FAC	
2	HEX	3033	TID_ZCT1_ INVALID_DATA	@LDA
2	HEX	3034	TID_ZCT1_ INVALID_FUNCTION	
2	HEX	3035	TID_ZCT1_ INVALID_CODEPAGE	
2	HEX	3036	TID_ZCT1_	@LDA
2	HEX	3037	WRONG_VERSION	@LDA
2	HEX	3038	TID_ZCT1_ NETNAME_MISSING	@LDA
2	HEX	3039	TID_ZCT1_ CODEPAGE_CONVERSION_ F	@LDA
2	HEX	3039	TID_ZCT1_ CTIN_REMOTE	@LDA
<hr/>				
DFHCCNV3				
2	HEX	3050	TID_CCNV3_ CHK_CL_CP_ENTRY	
2	HEX	3051	TID_CCNV3_	@LEA
2	HEX	3052	CHK_CL_CP_EXIT	
2	HEX	3053	TID_CCNV3_ CHK_CONV_SUP_ENTRY	
2	HEX	3054	TID_CCNV3_	@LEA
2	HEX	3055	CHK_CONV_SUP_EXIT	@LEA
2	HEX	3056	TID_CCNV3_ENTRY	@LEA
2	HEX	3057	TID_CCNV3_ INV_FUNCTION	@LEA
2	HEX	3057	TID_CCNV3_ 3270_ENTRY	@LIC
2	HEX	3058	TID_CCNV3_ DS3270_ENTRY	@LIC
2	HEX	3059	TID_CCNV3_ DS3270_EXIT	@LIC
2	HEX	305A	TID_CCNV3_ 3270_EXIT	@LIC
2	HEX	305B	TID_CCNV3_ 3270_LEN_ZERO	@LIC
2	HEX	305C	TID_CCNV3_ BAD_TARGET	@LIC
2	HEX	305D	TID_CCNV3_	@LIC
2	HEX	305E	TOKEN_CKR_BAD	@LIC
2	HEX	305F	TID_CCNV3_ TOKEN_CLX_BAD	@LIC
2	HEX	3060	TID_CCNV3_ TOKEN_SRX_BAD	@LIC
2	HEX	3061	TID_CCNV3_ SBCSTOK_CHAR_BAD	@LIC
2	HEX	3062	TID_CCNV3_ 3270_SBA_BAD	@LIC
2	HEX	3063	TID_CCNV3_ 3270_SFEMF_BAD	@LIC
2	HEX	3064	TID_CCNV3_ 3270_SA_BAD	@LIC
2	HEX	3065	TID_CCNV3_ 3270_RA_BAD	@LIC
2	HEX	3066	TID_CCNV3_ 3270_GE_UNSUP	@LIC
2	HEX	3067	TID_CCNV3_ 3270_EUA_BAD	@LIC
2	HEX	3068	TID_CCNV3_ AID3270_ENTRY	@LIC
2	HEX	3069	TID_CCNV3_ AID3270_EXIT	@LEA
2	HEX	306A	TID_CCNV3_ BAD_AID_TARGET	@LEA
2	HEX	306B	TID_CCNV3_ FREE_CONV_TOKEN_ ENTRY	@LIA
2	HEX	306C	TID_CCNV3_ FREE_CONV_TOKEN_EXIT	@LIA
2	HEX	306D	TID_CCNV3_ GETMAIN_FAILURE	@LIA
2	HEX	306E	TID_CCNV3_ FREEMAIN_FAILURE	@LIA
2	HEX	306F	TID_CCNV3_ SBA_TOO_HIGH	@LIA

Offset Hex	Type	Len	Name (Dim)	Description
2	HEX	3070	TID_CCNV3_ DBCS_MAP_BEFORE	
2	HEX	3071	TID_CCNV3_ DBCS_MAP_AFTER	@LIA
2	HEX	3072	TID_CCNV3_ GET_CONV_TOKEN_ENTRY	@LIA
2	HEX	3073	TID_CCNV3_ GET_CONV_TOKEN_EXIT	@LIA
2	HEX	3074	TID_CCNV3_ TOKEN_ADDR_BAD	@LIA
2	HEX	3075	TID_CCNV3_ 3270_CONV_LEN_ZERO	
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DFHZGAI				
2	HEX	FA00	TID_ZGAI_ENTRY	@D1A
2	HEX	FA01	TID_ZGAI_EXIT	@D1A
2	HEX	FA02	TID_ZGAI_INVALID_FORMAT	@D1A
2	HEX	FA03	TID_ZGAI_ INVALID_FUNCTION	
2	HEX	FA04	TID_ZGAI_ RECOVERY_ENTERED	
2	HEX	FA05	TID_ZGAI_ USEREXIT_ENTRY	@D1A
2	HEX	FA06	TID_ZGAI_USEREXIT_EXIT	@D1A
2	HEX	FA07	TID_ZGAI_USER_VETOED	@D1A
2	HEX	FA08	TID_ZGAI_ NO_TEMPLATE_SUPPLIED	@D1A
2	HEX	FA09	TID_ZGAI_SYSID_INVALID	@D1A
2	HEX	FA0A	TID_ZGAI_ SYSID_ALREADY_EXISTS	@D1A
2	HEX	FA0B	TID_ZGAI_ TEMPLATEN_NOT_FOUND	
2	HEX	FA0C	TID_ZGAI_ TEMPLATES_NOT_FOUND	
2	HEX	FA0D	TID_ZGAI_ NOT_APPC_TEMPLATE	
2	HEX	FA0E	TID_ZGAI_ TEMPLATE_NOT_PS	@D1A
2	HEX	FA0F	TID_ZGAI_ TEMPLATE_NOT_SS	@D1A
2	HEX	FA10	TID_ZGAI_ MODENAME_MISMATCH	
2	HEX	FA11	TID_ZGAI_SYSID_INQUIRE_ FAILED	@D1A
2	HEX	FA12	TID_ZGAI_ SESSION_INQUIRE_FAILED	@D1A
2	HEX	FA13	TID_ZGAI_ TEMPLATE_NO_MODEGROUP	@D1A
2	HEX	FA14	TID_ZGAI_ OUT_OF_SERVICE	@D1A
2	HEX	FA15	TID_ZGAI_ BINDUD_PLUNAME_ MISSING	@D1A
2	HEX	FA16	TID_ZGAI_ BINDUD_MODENAME_ MISSING	@D1A
2	HEX	FA18	TID_ZGAI_SESSID_MISSING	@D1A
2	HEX	FA19	TID_ZGAI_ PLUNAME_MISSING	@D1A
2	HEX	FA1A	TID_ZGAI_PLU_EQ_SLU	@D1A
2	HEX	FA1B	TID_ZGAI_SEED_EXPECTED	@D1A
2	HEX	FA1C	TID_ZGAI_SEED_LONG	@D1A
2	HEX	FA1D	TID_ZGAI_ SEED_UNEXPECTED	@D1A
2	HEX	FA1E	TID_ZGAI_ NOT_NEGOTIABLE	@D1A
2	HEX	FA1F	TID_ZGAI_1RY_RU_0	@D1A
2	HEX	FA20	TID_ZGAI_2RY_RU_0	@D1A
2	HEX	FA21	TID_ZGAI_ ACC_SEC_INVALID	@D1A
2	HEX	FA22	TID_ZGAI_ SEED_AND_NONCE	@L6A
2	HEX	FA23	TID_ZGAI_NONCE_LENGTH	@L6A
2	HEX	FA24	TID_ZGAI_ NONCE_REQUIRED	@L6A
2	HEX	FA25	TID_ZGAI_ MECHANISM_SHORT	@L6A
2	HEX	FA26	TID_ZGAI_ NO_MECHANISMS	@L6A
2	HEX	FA27	TID_ZGAI_ MECHANISM_REQUIRED	
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DFHZGXA				
2	HEX	FA30	TID_ZGXA_ENTRY	@L5A
2	HEX	FA31	TID_ZGXA_EXIT	@L5A

Offset Hex	Type	Len	Name (Dim)	Description
2	HEX	FA32	TID_ZGXA_ INVALID_FORMAT	@L5A
2	HEX	FA33	TID_ZGXA_ INVALID_FUNCTION	
2	HEX	FA34	TID_ZGXA_ RECOVERY_ENTERED	
2	HEX	FA35	TID_ZGXA_12F6_MISSING	@L5A
2	HEX	FA36	TID_ZGXA_12F6_LENGERR	@L5A
2	HEX	FA37	TID_ZGXA_ RECEIVE_FAILED	@L5A
2	HEX	FA38	TID_ZGXA_FF80_MISSING	@L5A
2	HEX	FA39	TID_ZGXA_FF80_LENGERR	@L5A
2	HEX	FA3A	TID_ZGXA_ FF80_MECH_ID_ERR	
2	HEX	FA3B	TID_ZGXA_FF81_MISSING	@L5A
2	HEX	FA3C	TID_ZGXA_FF81_LENGERR	@L5A
2	HEX	FA3D	TID_ZGXA_ DELEG_NO_TICKET	@L5A
2	HEX	FA3E	TID_ZGXA_FF82_LENGERR	@L5A
2	HEX	FA3F	TID_ZGXA_FF83_LENGERR	@L5A
2	HEX	FA40	TID_ZGXA_FF84_LENGERR	@L5A
2	HEX	FA41	TID_ZGXA_ DUPLICATE_SUBFIELD	
2	HEX	FA42	TID_ZGXA_ INVALID_SUBFIELD	
2	HEX	FA43	TID_ZGXA_ TICKET_NO_AUTH	@L5A
2	HEX	FA44	TID_ZGXA_ AUTH_REQD_BY_USER	
2	HEX	FA45	TID_ZGXA_TICKET_MISSING	@L5A
2	HEX	FA46	TID_ZGXA_INVALID_TICKET	@L5A
2	HEX	FA47	TID_ZGXA_ SERVICE_TICKET_EXPIRED	@L5A
2	HEX	FA48	TID_ZGXA_ INVALID_AUTHENTICATOR	@L5A
2	HEX	FA49	TID_ZGXA_SIGNON_FAILED	@L5A
2	HEX	FA4A	TID_ZGXA_FMH5_12F6_OUT	@L5A
2	HEX	FA4B	TID_ZGXA_12F6_IN	@L5A
2	HEX	FA4C	TID_ZGXA_ SENDBUF_TOO_SMALL	
2	HEX	FA4D	TID_ZGXA_SEND_FAILED	@L5A
2	HEX	FA4E	TID_ZGXA_ MUTUAL_NO_AUTH	@L5A
2	HEX	FA4F	TID_ZGXA_ DAISY_CHAIN_ERROR1	
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DFHZGCH				
2	HEX	FA50	TID_ZGCH_ENTRY	@LBA
2	HEX	FA51	TID_ZGCH_EXIT	@LBA
2	HEX	FA52	TID_ZGCH_ BEFORE_CHANGE_MACRO	
2	HEX	FA53	TID_ZGCH_ AFTER_CHANGE_MACRO	
2	HEX	FA54	TID_ZGCH_ CHANGE_MACRO_FAILED	
2	HEX	FA55	TID_ZGCH_ RECOVERY_ENTERED	
2	HEX	FA56	TID_ZGCH_ ENDAFFIN_REJECTED	
2	HEX	FA57	TID_ZGCH_ INVALID_FORMAT	@LBA
2	HEX	FA58	TID_ZGCH_ INVALID_FUNCTION	
2	HEX	FA59	TID_ZGCH_ZGTA_FAILED	@LCA
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DFHZGTI				
2	HEX	FA60	TID_ZGTI_ENTRY	@L7A
2	HEX	FA61	TID_ZGTI_EXIT	@L7A
2	HEX	FA62	TID_ZGTI_INVALID_FORMAT	@L7A
2	HEX	FA63	TID_ZGTI_ INVALID_FUNCTION	
2	HEX	FA64	TID_ZGTI_ RECOVERY_ENTERED	
2	HEX	FA65	TID_ZGTI_TERMID_INVALID	@L7A
2	HEX	FA66	TID_ZGTI_SYSID_INVALID	@L7A
2	HEX	FA67	TID_ZGTI_ NETNAME_INVALID	@L7A
2	HEX	FA68	TID_ZGTI_TOKEN_INVALID	@L7A
2	HEX	FA69	TID_ZGTI_TMP_ERROR	@L7A
2	HEX	FA6A	TID_ZGTI_DOMAIN_INVALID	@L7A
2	HEX	FA6B	TID_ZGTI_ INVALID_VTAM_ONLY	
2	HEX	FA6C	TID_ZGTI_UNIQUE_INVALID	@L7A
2	HEX	FA6D	TID_ZGTI_GETMAIN_FAILED	@L7A
2	HEX	FA6E	TID_ZGTI_ FREEMAIN_FAILED	@L7A

Offset Hex	Type	Len	Name (Dim)	Description
2	HEX	FA6F	TID_ZGTI_PURGED	@L7A
2	HEX	FA70	TID_ZGTI_ ISYSID_INVALID	@L7A
2	HEX	FA71	TID_ZGTI_ RSYSID_INVALID	@L7A
2	HEX	FA72	TID_ZGTI_ MBRNAME_INVALID	@LCA
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DFHZGTA				
2	HEX	FA80	TID_ZGTA_ENTRY	@L9A
2	HEX	FA81	TID_ZGTA_EXIT	@L9A
2	HEX	FA82	TID_ZGTA_ INVALID_FORMAT	@L9A
2	HEX	FA83	TID_ZGTA_ INVALID_FUNCTION	
2	HEX	FA84	TID_ZGTA_ RECOVERY_ENTERED	
2	HEX	FA85	TID_ZGTA_ TERMD_INVALID	@L9A
2	HEX	FA86	TID_ZGTA_ SYSID_INVALID	@L9A
2	HEX	FA87	TID_ZGTA_ NETNAME_INVALID	@L9A
2	HEX	FA88	TID_ZGTA_ ISYSID_INVALID	@L9A
2	HEX	FA89	TID_ZGTA_ UNIQUE_INVALID	@L9A
2	HEX	FA8A	TID_ZGTA_ RSYSID_INVALID	@L9A
2	HEX	FA8B	TID_ZGTA_ TMP_ERROR	@L9A
2	HEX	FA8C	TID_ZGTA_ DOMAIN_INVALID	@L9A
2	HEX	FA8D	TID_ZGTA_PURGED	@L9A
2	HEX	FA8E	TID_ZGTA_ERROR	@L9A
2	HEX	FA8F	TID_ZGTA_DISASTER	@L9A
2	HEX	FA90	TID_ZGTA_ INVALID_RRAB	@L9A
2	HEX	FA91	TID_ZGTA_ INQ_FAILED	@L9A
2	HEX	FA92	TID_ZGTA_ RDUB_GET	@L9A
2	HEX	FA93	TID_ZGTA_ RDUB_FREE	@L9A
2	HEX	FA94	TID_ZGTA_ INVALID_RDAB	@L9A
2	HEX	FA95	TID_ZGTA_ INVALID_RDUB	@L9A
2	HEX	FA96	TID_ZGTA_ UNKNOWN_RRAB_RESP	
2	HEX	FA97	TID_ZGTA_ NO_RRAB	@L9A
2	HEX	FA98	TID_ZGTA_ ZGTI_ERROR	@L9A
2	HEX	FA99	TID_ZGTA_ MBRNAME_INVALID	@LCA
2	HEX	FA9A	TID_ZGTA_ MBRNAME_ERROR	@LCA
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DFHZGIN				
2	HEX	FAB0	TID_ZGIN_ENTRY	@D4A
2	HEX	FAB1	TID_ZGIN_EXIT	@D4A
2	HEX	FAB2	TID_ZGIN_ BEFORE_INQUIRE_ MACRO	@D4A
2	HEX	FAB3	TID_ZGIN_ AFTER_INQUIRE_ MACRO	
2	HEX	FAB4	TID_ZGIN_ INQUIRE_NQN_FAILED	
2	HEX	FAB5	TID_ZGIN_ INQUIRE_SESSNAME_ FAILED	@D4A
2	HEX	FAB6	TID_ZGIN_ RECOVERY_ENTERED	
2	HEX	FAB7	TID_ZGIN_ NQN_REJECTED	@D4A
2	HEX	FAB8	TID_ZGIN_ SESSNAME_REJECTED	
2	HEX	FAB9	TID_ZGIN_ INVALID_FORMAT	@D4A
2	HEX	FABA	TID_ZGIN_ INVALID_FUNCTION	
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DFHZGBM				
2	HEX	FB00	TID_ZGBM_ENTRY	
2	HEX	FB01	TID_ZGBM_EXIT	
2	HEX	FB03	TID_ZGBM_ INVALID_FUNCTION	
2	HEX	FB04	TID_ZGBM_ RECOVERY_ENTERED	
2	HEX	FB05	TID_ZGBM_ BITMAP_INVALID	
2	HEX	FB06	TID_ZGBM_ SESSION_NAME_INVALID	
2	HEX	FB07	TID_TCRP_ NO_BITMAP_STG	@LFC
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DFHZGRP				
2	HEX	FB10	TID_ZGRP_ENTRY	
2	HEX	FB11	TID_ZGRP_EXIT	
2	HEX	FB12	TID_ZGRP_ QR_SWITCH_FAILED	
2	HEX	FB13	TID_ZGRP_ INQ_INSUFF_STORAGE	
2	HEX	FB14	TID_ZGRP_ RECOVERY_ENTERED	

Offset Hex	Type	Len	Name (Dim)	Description
2	HEX	FB15	TID_ZGRP_ OPNDST_INSUFF_STORAGE	
2	HEX	FB16	TID_ZGRP_ RPL_INSUFF_STORAGE	
2	HEX	FB17	TID_ZGRP_ INVALID_FORMAT	
2	HEX	FB18	TID_ZGRP_ INVALID_FUNCTION	
2	HEX	FB19	TID_ZGRP_ INVALID_STARTUP_TYPE	
2	HEX	FB1A	TID_ZGRP_VTAM_SOS	
2	HEX	FB1B	TID_ZGRP_INQUIRE_FAILED	
2	HEX	FB1C	TID_ZGRP_ INQUIRE_ACB_CLOSED	
2	HEX	FB1D	TID_ZGRP_ OPNDST_ACB_CLOSED	
2	HEX	FB1E	TID_ZGRP_UNBIND_ERROR	
2	HEX	FB1F	TID_ZGRP_BIND_INVALID	
2	HEX	FB20	TID_ZGRP_OPNDST_FAILED	
2	HEX	FB21	TID_ZGRP_ NO_STORAGE_OPNDST_ APPC	
2	HEX	FB22	TID_ZGRP_ NO_STORAGE_OPNDST	
2	HEX	FB23	TID_ZGRP_RA_FAILED	
2	HEX	FB24	TID_ZGRP_NIB	@P5A
2	HEX	FB25	TID_ZGRP_NIB_MISMATCH	
2	HEX	FB26	TID_ZGRP_ RA_GETMAIN_FAILED	
2	HEX	FB27	TID_ZGRP_ BEFORE_INQUIRE_COUNTS	
2	HEX	FB28	TID_ZGRP_ AFTER_INQUIRE_COUNTS	
2	HEX	FB29	TID_ZGRP_ BEFORE_INQUIRE_ PERSESS	
2	HEX	FB2A	TID_ZGRP_ AFTER_INQUIRE_PERSESS	
2	HEX	FB2B	TID_ZGRP_ BEFORE_OPNDST	
2	HEX	FB2C	TID_ZGRP_AFTER_OPNDST	
2	HEX	FB2D	TID_ZGRP_BEFORE_RA	
2	HEX	FB2E	TID_ZGRP_AFTER_RA	
2	HEX	FB2F	TID_ZGRP_ BEFORE_INQ_EXECPPL	
2	HEX	FB30	TID_ZGRP_ AFTER_INQ_EXECPPL	
2	HEX	FB31	TID_ZGRP_ BEFORE_OPN_EXECPPL	
2	HEX	FB32	TID_ZGRP_ AFTER_OPN_EXECPPL	
2	HEX	FB33	TID_ZGRP_ BEFORE_RA_EXECPPL	
2	HEX	FB34	TID_ZGRP_ AFTER_RA_EXECPPL	
2	HEX	FB35	TID_ZGRP_ MBRNAME_ERROR	
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DFHZCGRP				
2	HEX	FB38	TID_ZGRP_ENTRY	
2	HEX	FB39	TID_ZGRP_EXIT	
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DFHZGUB				
2	HEX	FB40	TID_ZGUB_ENTRY	
2	HEX	FB41	TID_ZGUB_EXIT	
2	HEX	FB42	TID_ZGUB_ INVALID_FORMAT	
2	HEX	FB43	TID_ZGUB_ RECOVERY_ENTERED	
2	HEX	FB44	TID_ZGUB_ INVALID_FUNCTION	
2	HEX	FB45	TID_ZGUB_ACB_CLOSED	
2	HEX	FB46	TID_ZGUB_UNBIND_FAILED	
2	HEX	FB47	TID_ZGUB_VTAM_SOS	
2	HEX	FB48	TID_ZGUB_UNBIND_ERROR	
2	HEX	FB49	TID_ZGUB_ BEFORE_CLSDST	
2	HEX	FB4A	TID_ZGUB_AFTER_CLSDST	
2	HEX	FB4B	TID_ZGUB_ BEFORE_TERMSESS	
2	HEX	FB4C	TID_ZGUB_ AFTER_TERMSESS	
2	HEX	FB4D	TID_ZGUB_ BEFORE_UNBIND_EXECPPL	
2	HEX	FB4E	TID_ZGUB_ AFTER_UNBIND_EXECPPL	

Offset Hex	Type	Len	Name (Dim)	Description
<b>DFHZGSL</b>				
2	HEX	FB50	TID_ZGSL_ENTRY	
2	HEX	FB51	TID_ZGSL_EXIT	
2	HEX	FB52	TID_ZGSL_	
			BEFORE_SETLOGON_P	
2	HEX	FB53	TID_ZGSL_	
			AFTER_SETLOGON_P	
2	HEX	FB54	TID_ZGSL_	
			BEFORE_SETLOGON_NP	
2	HEX	FB55	TID_ZGSL_	
			AFTER_SETLOGON_NP	
2	HEX	FB57	TID_ZGSL_	
			RECOVERY_ENTERED	
2	HEX	FB58	TID_ZGSL_	
			INVALID_FUNCTION	
2	HEX	FB59	TID_ZGSL_	
			INVALID_FORMAT	
2	HEX	FB5A	TID_ZGSL_	
			INVALID_PSDI_VALUE	
2	HEX	FB5B	TID_ZGSL_	
			SETLOGON_FAILED	
<b>DFHZGCC</b>				
2	HEX	FB60	TID_ZGCC_ENTRY	@L1A
2	HEX	FB61	TID_ZGCC_EXIT	@L1A
2	HEX	FB62	TID_ZGCC_	@L1A
			INVALID_FORMAT	
2	HEX	FB63	TID_ZGCC_	
			INVALID_FUNCTION	
2	HEX	FB64	TID_ZGCC_	
			RECOVERY_ENTERED	
<b>DFHZGPC</b>				
2	HEX	FB65	TID_ZGPC_ENTRY	@L1A
2	HEX	FB66	TID_ZGPC_EXIT	@L1A
2	HEX	FB67	TID_ZGPC_	@L1A
			INVALID_FORMAT	
2	HEX	FB68	TID_ZGPC_	
			INVALID_FUNCTION	
2	HEX	FB69	TID_ZGPC_	
			RECOVERY_ENTERED	
2	HEX	FB6A	TID_ZGPC_BIND_MISMATCH	@L1A
2	HEX	FB6B	TID_ZGPC_	@L1A
			NO_SESSION_AVAILABLE	
<b>DFHZXRC</b>				
2	HEX	FB70	TID_ZXRC_V29_DATA	@L3A
<b>DFHZGDA</b>				
2	HEX	FB71	TID_ZGDA_ENTRY	@L3A
2	HEX	FB72	TID_ZGDA_EXIT	@L3A
2	HEX	FB73	TID_ZGDA_	
			INVALID_FUNCTION	
2	HEX	FB74	TID_ZGDA_	@L3A
			INVALID_FORMAT	
2	HEX	FB75	TID_ZGDA_	
			SENSE_088B_RECEIVED	
2	HEX	FB76	TID_ZGDA_	
			INVALID_PRSS_STATUS	
2	HEX	FB77	TID_ZGDA_	@L3A
			RECEIVE_FAILED	
2	HEX	FB78	TID_ZGDA_	
			UNEXPECTED_RESPONSE	
2	HEX	FB79	TID_ZGDA_	@L3A
			BAD_BRACKET_STATE_	
			SEND	
2	HEX	FB7A	TID_ZGDA_	@L3A
			BAD_BRACKET_STATE_REC	
2	HEX	FB7B	TID_ZGDA_	@L3A
			NO_STORAGE_FM7	
2	HEX	FB7C	TID_ZGDA_RECOVERY	@L3A
2	HEX	FB7D	TID_ZGDA_	
			UNEXPECTED_BR_STATE	
2	HEX	FB7E	TID_ZGDA_	
			INVALID_TCTTE_PTR	
2	HEX	FB7F	TID_ZGDA_	
			RECOVERY_ENTERED	
2	HEX	FB80	TID_ZGDA_	
			UNEXPECTED_CH_STATE	
<b>DFHZGSL Generic resource</b>				
2	HEX	FB87	TID_ZGSL_	@D2A
			BEFORE_NIB_INIT	
2	HEX	FB88	TID_ZGSL_	@D2A
			AFTER_NIB_INIT	

Offset Hex	Type	Len	Name (Dim)	Description
2	HEX	FB89	TID_ZGSL_ BEFORE_ADD_GRNAME	
2	HEX	FB8A	TID_ZGSL_ AFTER_ADD_GRNAME	
2	HEX	FB8B	TID_ZGSL_ BEFORE_DELETE_GRNAME	@D2A
2	HEX	FB8C	TID_ZGSL_ AFTER_DELETE_GRNAME	
2	HEX	FB8D	TID_ZGSL_ NIB_INIT_FAILED	@D2A
2	HEX	FB8E	TID_ZGSL_ ADD_GRNAME_FAILED	
2	HEX	FB8F	TID_ZGSL_ DELETE_GRNAME_FAILED	@D2A
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DFHZLS1				
2	HEX	FB90	TID_ZLS1_ENTRY	@L2A
2	HEX	FB91	TID_ZLS1_EXIT	@L2A
2	HEX	FB92	TID_ZLS1_INVALID_START_ TYPE	
2	HEX	FB93	TID_ZLS1_IC_GET_FAILED	@L2A
2	HEX	FB94	TID_ZLS1_INVALID_FORMAT	@L2A
2	HEX	FB95	TID_ZLS1_ INVALID_FUNCTION	
2	HEX	FB96	TID_ZLS1_NO_RECV_DATA	@L2A
2	HEX	FB97	TID_ZLS1_ INVALID_RECV_DATA	
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DFHZGCM				
2	HEX	FBA0	TID_ZGCM_ENTRY	@L2A
2	HEX	FBA1	TID_ZGCM_EXIT	@L2A
2	HEX	FBA2	TID_ZGCM_ ADD_LOCK_FAILED	@L2A
2	HEX	FBA3	TID_ZGCM_ ALLOCATE_FAILED	@L2A
2	HEX	FBA4	TID_ZGCM_ALREADY_SHUT	@L2A
2	HEX	FBA5	TID_ZGCM_ CNOS_IMPOSSIBLE	@L2A
2	HEX	FBA6	TID_ZGCM_ GET_LOCK_FAILED	@L2A
2	HEX	FBA7	TID_ZGCM_IN_SHUTDOWN	@L2A
2	HEX	FBA8	TID_ZGCM_ INVALID_FORMAT	@L2A
2	HEX	FBA9	TID_ZGCM_ INVALID_FUNCTION	
2	HEX	FBAA	TID_ZGCM_ INVALID_MODALNAME	
2	HEX	FBAB	TID_ZGCM_INVALID_SYSID	@L2A
2	HEX	FBAC	TID_ZGCM_ NO_TCME_FOUND	@L2A
2	HEX	FBAD	TID_ZGCM_ NO_TCTE_FOUND	@L2A
2	HEX	FBAE	TID_ZGCM_ RACE_IN_SHUTDOWN	
2	HEX	FBAF	TID_ZGCM_ RECEIVE_FAILED	@L2A
2	HEX	FBB0	TID_ZGCM_ RECOVERY_ENTERED	
2	HEX	FBB1	TID_ZGCM_SEND_FAILED	@L2A
2	HEX	FBB2	TID_ZGCM_ SINGLE_SESS_ERROR	
2	HEX	FBB3	TID_ZGCM_ SYSID_NOT_FOUND	@L2A
2	HEX	FBB4	TID_ZGCM_TCSE_ERROR	@L2A
2	HEX	FBB5	TID_ZGCM_ CNOS_COMMAND_OUT	@L2A
2	HEX	FBB6	TID_ZGCM_ CNOS_COMMAND_IN	@L2A
2	HEX	FBB7	TID_ZGCM_ CNOS_REPLY_OUT	@L2A
2	HEX	FBB8	TID_ZGCM_ CNOS_REPLY_IN	@L2A
<hr/>				
DFHZGCA				
2	HEX	FBC0	TID_ZGCA_ENTRY	@L2A
2	HEX	FBC1	TID_ZGCA_EXIT	@L2A
2	HEX	FBC2	TID_ZGCA_ENTRY_LEVEL2	@L2A
2	HEX	FBC3	TID_ZGCA_EXIT_LEVEL2	@L2A
2	HEX	FBC4	TID_ZGCA_ CURRENT_COUNTS	@L2A
2	HEX	FBC5	TID_ZGCA_TC_MATRIX	@L2A
2	HEX	FBC6	TID_ZGCA_ RECOVERY_ENTERED	@L2A
2	HEX	FBC7	TID_ZGCA_ INVALID_FORMAT	@L2A
2	HEX	FBC8	TID_ZGCA_ INVALID_FUNCTION	



Offset Hex	Type	Len	Name (Dim)	Description
2	HEX	FBC9	TID_ZGCA_ CHANGE_INCOMPLETE	
DFHZXPS				
2	HEX	FBD0	TID_ZXPS_ENTRY	@L3A
2	HEX	FBD1	TID_ZXPS_EXIT	@L3A
2	HEX	FBD2	TID_ZXPS_BAD_TCTEPRSS	@L3A
2	HEX	FBD3	TID_ZXPS_ CV29_DATA_MISSING	
2	HEX	FBD4	TID_ZXPS_ INVALID_BIS_DATA	
2	HEX	FBD5	TID_ZXPS_ INVALID_BID_DATA	
2	HEX	FBD7	TID_ZXPS_ MISSING_BID_FLOW	
2	HEX	FBD8	TID_ZXPS_INVALID_RUCAT	@L3A
2	HEX	FBD9	TID_ZXPS_ INCONSISTENT_DATA_ FLOW	@L3A
2	HEX	FBDA	TID_ZXPS_ UNIDENTIFIED_RESPONSE	@L3A
2	HEX	FBDB	TID_ZXPS_ UNKNOWN_COMMAND	@L3A
2	HEX	FBDC	TID_ZXPS_ UNEXPECTED_BIS_RESP	
2	HEX	FBDD	TID_ZXPS_ UNKNOWN_CMD_RESPONSE	@L3A
2	HEX	FBDE	TID_ZXPS_ INVALID_BID_STATUS	
2	HEX	FBDF	TID_ZXPS_ INVALID_ZGDA_MODE	
2	HEX	FBE0	TID_ZXPS_ INVALID_ZGDA_PARM	
2	HEX	FBE1	TID_ZXPS_ UNKNOWN_STATE_ AFTER_SIG	@P6A
2	HEX	FBE4	TID_ZXPS_ RECOVERY_ABANDONED	
2	HEX	FBE5	TID_ZXPS_ RESETSR_FAILED	@L3A
2	HEX	FBE6	TID_ZXPS_ TRACKING_DATA_MISSING	@L3A
2	HEX	FBE7	TID_ZXPS_ DOMAIN_CALL_FAILED	
2	HEX	FBE9	TID_ZXPS_CV29_TRACE	@P3C
2	HEX	FBEA	TID_ZXPS_ NO_BIS_RECOVERY	@P7A
DFHZGPR				
2	HEX	FBF0	TID_ZGPR_ENTRY	@L4A
2	HEX	FBF1	TID_ZGPR_EXIT	@L4A
2	HEX	FBF2	TID_ZGPR_ INVALID_FORMAT	@L4A
2	HEX	FBF3	TID_ZGPR_ INVALID_FUNCTION	
2	HEX	FBF4	TID_ZGPR_ INVALID_TCSE_PTR	
2	HEX	FBF5	TID_ZGPR_ INCR_CCCC_ERROR	@L4A
2	HEX	FBF6	TID_ZGPR_ DECR_CCCC_ERROR	@L4A
2	HEX	FBF7	TID_ZGPR_ INQ_CCCC_ERROR	@L4A
2	HEX	FBF8	TID_ZGPR_ RESET_CCCC_ERROR	
2	HEX	FBF9	TID_ZGPR_ RECOVERY_ENTERED	
extra DFHZGDA				
2	HEX	FBFA	TID_ZGDA_ REJ_ATT_INV_CH_STATE	@L4A
2	HEX	FBFB	TID_ZGDA_ REJ_ATT_INV_BR_STATE	@L4A
2	HEX	FBFC	TID_ZGDA_SEND_FAILED	@L4A
extra DFHZXPS				
2	HEX	FBFD	TID_ZXPS_REJ_ATT_FAILED	@L4A
=====				
Standard message constants				
=====				
4	DECIMAL	1	MNO_ABEND	
8	CHARACTER	ZC0001	DCD_ABEND	
4	DECIMAL	2	MNO_SEVERE_ERROR	
8	CHARACTER	ZC0002	DCD_SEVERE_ERROR	
4	DECIMAL	3	MNO_NO_STORAGE	

Offset Hex	Type	Len	Name (Dim)	Description
8	CHARACTER	ZC0003	DCD_NO_STORAGE	
2	CHARACTER	ZC	COMPONENT_ID	
=====				
Persistent session constants				
=====				
4	DECIMAL	86399	PSDI_MAX	1 day in seconds less one

---

## ZGRP      Persistent sessions control blocks

```

=====
CONTROL BLOCK NAME = DFHZGRPC
DESCRIPTIVE NAME = CICS PRSS initialisation blocks
The following control blocks are all created by DFHZGRPC.
FUNCTION = PRSS_CV29
    This is SHARED CICS data which contains:
    CV29, FMH5, BIS and BID data.
    There will be one PRSS CV29 per OPNDST RESTOREd TCTTE.
LIFETIME =
    It is built by DFHZGRP during persistent session recovery
    (EMER | VTAM_RESART) and is freemained by DFHZNCA when
    DFHZC0146 or DFHZC0156 (good PS recover) is issued,
    or when DFHZCLS is run to cover all the cases where
    the session failed to restore and was unbound.
STORAGE CLASS =
    SMMC SHARED_CICS
LOCATION =
    Chained of the TCTTE via TCTE_PRSS_CV29_PTR.
INNER CONTROL BLOCKS = none
FUNCTION = NIBLIST
    Persistent sessions INQUIRE NIBLIST - created and used by
    DFHZGRP to hold data supplied by VTAM containing the
    following information about each NIB that persists.
    See VTAM Programming SC31-6436 for a full description.
LIFETIME =
    It is built by DFHZGRP during persistent session recovery
    (startup or dynamic open) and freemained by DFHZGRP before
    it exits.
STORAGE CLASS =
    USAGE(DOMAIN)
LOCATION =
    Anchored off the TCT Prefix TCTV_FIRST_NIBLIST_PTR
INNER CONTROL BLOCKS = See SC31-6436
FUNCTION = TCT_BIND
    Defines the bind in the TCT, starting with the length.
    This is used to copy the PRSS BIND into the TCTTE.
LIFETIME =
    It is built by DFHZGRP during persistent session recovery
    (emergency restart or vtam restart) when logmode= n
    is used and freemained if and when the TCTTE is
    deleted.
STORAGE CLASS =
    ZCBIMG subpool
LOCATION =
    Anchored off TCTEBIMG
INNER CONTROL BLOCKS = none
FUNCTION = ZGRP_RPL
    Defines a set of 11 RPLs for use by DFHZGRP and DFHZGUB.
LIFETIME =
    It is built by DFHZGRP during persistent session recovery
    (startup or dynamic open) and freemained by DFHZGRP before
    it exits. However, if some of the RPLs are still active the
    pool will remain and then be re-used and freemained by
    subsequent dynamic OPEN VTAM ACB requests.
STORAGE CLASS =
    ZCNIBLST subpool
LOCATION =
    Anchored off the TCT Prefix TCTV_PRSS_RPL_POOL_PTR
INNER CONTROL BLOCKS = none
NOTES :
DEPENDENCIES = S/370
RESTRICTIONS =
MODULE TYPE = Control block definition
EXTERNAL REFERENCES =
DATA AREAS =
CONTROL BLOCKS =
GLOBAL VARIABLES (Macro pass) =
=====
PRSS CV29 containing CV29, FMH5, BIS and BID data,
built by DFHZGRP from OPNDST RESTORE data and passed to DFHZXPC
and DFHZXRC (CV29 for terminals only).
=====
    
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	163	PRSS_CV29_DATA	
(0)	CHARACTER	91	PRSS_CV29	@P5C
(5B)	CHARACTER	42	PRSS_FMH5	@P5C
(5B)	CHARACTER	21	FMH5_PS_DATA	FMH5 PLU to SLU data @L3A
(5B)	CHARACTER	2	FMH5_PSSEQ	FMH5 PLU to SLU seq. no.
(5D)	CHARACTER	3	FMH5_PSRH	FMH5 PLU to SLU RH @L3A
(60)	CHARACTER	16	FMH5_PSRU	FMH5 PLU to SLU RU @L3A
(70)	CHARACTER	21	FMH5_SP_DATA	FMH5 SLU to PLU data @L3A

Offset Hex	Type	Len	Name (Dim)	Description
(70)	CHARACTER	2	FMH5_SPSEQ	FMH5 SLU to PLU seq. no.
(72)	CHARACTER	3	FMH5_SPRH	FMH5 SLU to PLU RH @L3A
(75)	CHARACTER	16	FMH5_SPRU	FMH5 SLU to PLU RU @L3A
(85)	CHARACTER	20	PRSS_BIS	@P5C
(85)	CHARACTER	10	BIS_PS_DATA	BIS PLU to SLU data @L3A
(85)	CHARACTER	2	BIS_PSSEQ	BIS PLU to SLU seq. no.
(87)	CHARACTER	3	BIS_PSRH	BIS PLU to SLU RH @L3A
(8A)	CHARACTER	5	BIS_PSRU	BIS PLU to SLU RU @L3A
(8F)	CHARACTER	10	BIS_SP_DATA	BIS SLU to PLU data @L3A
(8F)	CHARACTER	2	BIS_SPSEQ	BIS SLU to PLU seq. no.
(91)	CHARACTER	3	BIS_SPRH	BIS SLU to PLU RH @L3A
(94)	CHARACTER	5	BIS_SPRU	BIS SLU to PLU RU @L3A
(99)	CHARACTER	10	PRSS_BID	@P5C
(99)	CHARACTER	2	BID_SEQ	Bid sequence number @L3A
(9B)	CHARACTER	3	BID_RH	Bid RH @L3A
(9E)	CHARACTER	5	BID_RU	Bid RU @L3A

=====  
 Persistent sessions NIBLIST - as produced by DFHZGRP as a result  
 or INQUIRE PERSESS and OPNDST RESTORE.  
 The NIB and BIND definitions should be replaced by the VTAM  
 versions when they become available. If they are not replaced  
 then they should be kept in step with the VTAM versions.  
 The NIBLIST is anchored from TCTV\_FIRST\_NIBLIST\_PTR  
 =====

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	NIBLIST	
(0)	CHARACTER	24	NIBLIST_HEADER	
(0)	CHARACTER	8	EYECATCHER	>PRSSNBL
(8)	ADDRESS	4	CHAIN_PTR	next niblist
(C)	FULLWORD	4	NIB_COUNT	count of NIBS in this list
(10)	FULLWORD	4	UNBIND_COUNT	count of unbinds *
(14)	ADDRESS	4	TOP_NIBLIST	start of this block
(18)	CHARACTER	*	NIB_START	start of nibs

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	64	NIB	1st of many NIBs
(0)	CHARACTER	1	*	Always 'DO'x @L6A
(1)	UNSIGNED	1	NIBFLG0	@L6A
			1... ..	Partner used member name
(2)	CHARACTER	1	*	@L6C
(3)	UNSIGNED	1	NIBLEN	Length of NIB @P5A
(4)	FULLWORD	4	NIBCID	CID
(8)	ADDRESS	4	NIBUSER	a(old_tctte) a(tctte) or 0
(C)	CHARACTER	8	NIBSYM	Netname
(14)	CHARACTER	8	NIBMODE	
(14)	CHARACTER	8	NIBNET	Netid @L5A
(1C)	CHARACTER	8	NIBDEVCH	
(1C)	CHARACTER	4	*	
(20)	CHARACTER	1	DEVPHYSA	
(24)	CHARACTER	4	NIBPROCD	
(28)	UNSIGNED	1	NIBFLG1	
			1... ..	NIBLAST
			.1.. ..	NIBCON
(29)	UNSIGNED	1	NIBFLG2	Off if last nib @P7C
			11.. ..	
			..1. ....	NIBPSPLU
			...1 ....	NIBPSDFS
			.... 1...	NIBPSDFA
			.... .1..	NIBPSRSP
(2A)	CHARACTER	2	*	On if primary
(2C)	ADDRESS	4	NIBEXLST	On if Continue specific
(30)	CHARACTER	8	NIBGENN	On if Continue any
(30)	CHARACTER	8	NIBLMODE	On if RESP data mode
(38)	CHARACTER	4	*	@L2A
(3C)	ADDRESS	4	NIBRPARM	Generic resource name @L5A
			*	@L5A
			*	@L5C
			*	Pointer to restore plist

RESTORE\_PLIST\_POINTERS  
 A set of 7 pointer per NIB in the NIBLIST. Pointed to by  
 NIBRPARM in the NIB.  
 They in turn, point to data supplied for each NIB by INQUIRE  
 PERSESS and OPNDST RESTORE.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	28	RESTORE_ PLIST_POINTERS	
(0)	ADDRESS	4	BIND_PTR	
(4)	ADDRESS	4	CV29_PTR	
(8)	ADDRESS	4	MODENAME_PTR	@P1C
(C)	ADDRESS	4	SESSID_PTR	@P1C
(10)	ADDRESS	4	FMH5_PTR	
(14)	ADDRESS	4	BID_PTR	
(18)	ADDRESS	4	BIS_PTR	

**BIND**

Returned by INQUIRE PERSESS and pointed to by BIND\_PTR  
 The definition of fields within the bind should be replaced  
 by the official VTAM ones.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	37	BIND	
(0)	UNSIGNED	1	BINFMTY	Bind format and type

3 binfmt bit(4), Bind format  
 3 bintype bit(4), Bind type

(1)	UNSIGNED	1	BINFM	FM profile
(2)	UNSIGNED	1	BINTS	TS profile
(3)	CHARACTER	3	*	
(6)	BITSTRING	1	BINCMNP2	7 Send/Receive mode
			*	
	111. ....		BINBKFS	Bit X'10' Primary is brackets
	...1 ....		*	
	.... 1111			
(7)	BITSTRING	1	BINAPACE	8 SLU send pacing
(8)	BITSTRING	1	BINRPACE	9 SLU receive pacing
(9)	UNSIGNED	1	BINSRUSZ	10 SLU max send RU size
(A)	UNSIGNED	1	BINPRUSZ	11 PLU max send RU size
(B)	BITSTRING	1	BINSPACE	12 PLU send pacing
(C)	BITSTRING	1	BINBPACE	13 PLU receive pacing
(D)	UNSIGNED	1	BINLUP	14 LU type
(E)	CHARACTER	11	BINPSCHR	Bytes 15-25
(E)	BITSTRING	1	BINLULEV	15 LU Type
(F)	BITSTRING	1	BINARCH1	16 Arch info 1
(10)	CHARACTER	5	*	17-21
(15)	BITSTRING	1	BINFLG0	22 Flag byte
	1... ....		BINES	Bit X'80' Ext Sec Supp
	.111 1111		*	
(16)	BITSTRING	1	BINFLG1	23 Flag byte
	111. ....		*	
	...1 ....		BINCLSS	Bit X'01' Acc sec supp
	.... 11..		*	
	.... ..1.		BINAVFS	Bit X'02' Already verif
	.... ...1		BINPV	Bit X'01' Persist verif
(17)	BITSTRING	1	BINFLG2	24 Flag byte
	1... ....		*	
	.1. ....		BINCSBK	Bit X'40' Sync level 2
	..1. ....		BINCONF	Bit X'20' Sync level 1
	...1 ....		*	
	.... 1...		BINSECNH	Bit X'08' 2ry reinitiate
	.... .1..		BINPRIMH	Bit X'04' 1ry reinitiate
	.... ..1.		BINPSS	Bit X'02' parallel sess
	.... ...1		BINGDSVF	Bit X'01' CNOS supported

Offset Hex	Type	Len	Name (Dim)	Description
(18)	BITSTRING	1	BINFLG3	25 Flag byte
	1... .. .1... ..		* BINLTDRC	Bit X'40' LR bit
(19)	BITSTRING	1	BINCRCTL	26 Cryptography
(1A)	UNSIGNED	1	BINPRIML	27 1ry LU name length
(1B)	CHARACTER	8	BINPRIM	28-35 1ry LU name

- If a bind returned in a persistent session niblist has a non 0 userdata length (BINUSEL) then the bind is followed by structured user data fields, including the modename, sessid, PLUNAME or SLUNAME.  
---

(23)	UNSIGNED	1	BINUSEL	36 Length of user data
(24)	CHARACTER	1	BINUSE	37 First byte of data

MODENAME (Prefixed by 'I02'x)  
Returned by INQUIRE PERSESS and pointed to by MODENAME\_PTR

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	10	MODENAME_STRUCT	
(0)	UNSIGNED	1	MODENAME_LENGTH	Length of modename+1
(1)	UNSIGNED	1	MODENAME_KEY	Key '02'
(2)	CHARACTER	8	MODENAME	Modename used by CICS

SESSID ( Prefixed by 'I03'x)  
Returned by INQUIRE PERSESS and pointed to by SESSID\_PTR.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	10	SESSID_STRUCT	
(0)	UNSIGNED	1	SESSID_LENGTH	Length of sessid + 1
(1)	UNSIGNED	1	SESSID_KEY	Key '03'
(2)	CHARACTER	8	SESSID	Sessid used by CICS

TCT\_BIND  
Defines the bind in the TCT, starting with the length.  
Note: TCTEBIMG points beyond the flag in the first byte to the length, followed by the bind itself.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	38	TCT_BIND	
(0)	UNSIGNED	1	TCT_BIND_LENGTH	
(1)	CHARACTER	13	*	
(E)	UNSIGNED	1	TCT_BINLUP	
(F)	CHARACTER	23	*	@D2C

**RPL\_POOL**  
 Defines a set of 11 RPLs for use by DFHZGRP and DFHZGUB.  
 The block is obtained from the ZCNIBLST variable length subpool when DFHZGRP is entered and deleted by DFHZGRP if all the RPLs are inactive.  
 The ECB is for use by DFHZGUB to wait until an RPL becomes free.  
 The first RPL is for use by DFHZGRP - INQUIRE and OPNDST.  
 The next 10 are for DFHZGUB, which initiates up to 10 CLSDSTs or TERMSESS's. After that it needs to wait for one to become inactive.  
 The RPL POOL is anchored from TCTV\_PRSS\_RPL\_POOL\_PTR.  
 The last 10 RPLs for use by DFHZGUB are anchored from TCTV\_PRSS\_UNBIND\_RPLS\_PTR

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	ZGRP_RPL_POOL	
(0)	CHARACTER	16	RPL_POOL_HEADER	
(0)	CHARACTER	8	RPL_EYECATCHER	>PRSSRPL
(8)	ADDRESS	4	WAIT_RPL_ECB	DFHZGUB wait for RPL ECB
(C)	FULLWORD	4	RPL_SIZE	Size of each RPL
(10)	CHARACTER	*	ZGRP_RPL	

Security Mechanisms subfield (prefixed by '..14')

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	SEC_MECH_STRUCT	@L4A
(0)	UNSIGNED	1	SEC_MECH_LENGTH	Length of struct - 1 @L4A
(1)	UNSIGNED	1	SEC_MECH_KEY	Key '14' @L4A
(2)	UNSIGNED	1	SEC_POLICY_LENGTH	security policy length
(3)	CHARACTER	*	*	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	EXT_SEC_MECH_STRUCT	@L4A
(0)	UNSIGNED	1	SEC_EXT_MECH_LEN	length of extended mechs
(1)	CHARACTER	*	SEC_EXT_MECH	mechanisms @L4A
(1)	CHARACTER	1	SEC_MECH_ID	mechanism id @L4A
(2)	UNSIGNED	1	SEC_MECH_POLICY	mechanism policy @L4A
	1... ..		SEC_POLICY_REQD	Bit X'80' Req sec supp
	.111 1111		*	@L4A extended mechanisms

## Constants

Len	Type	Value	Name	Description
4	DECIMAL	164	NIB_DATA_LENGTH	@P4A
SHORTEST_NIB_DATA_LENGTH Length of the shortest possible NIB data returned by VTAM INQUIRE PERSESS.				
4	DECIMAL	129	SHORTEST_NIB_DATA_LENGTH	@P6A
OPNDST_DATA_LENGTH Length of one set of CV29, FMH5, BIS + BID.				
4	DECIMAL	163	OPNDST_DATA_LENGTH	

## ZLUIT Zcp local userid table definition

CONTROL BLOCK NAME = DFHZLUIT  
 DESCRIPTIVE NAME = CICS (ZCP) Local Userid Table definition.  
 FUNCTION =  
 This control block contains the DSECTs for:  
 1) Local Userid Table (LUIT) entries.  
 The LUIT contains a list of Userids, who are using Persistent Verification, and are considered ALREADY VERIFIED for use on this connection.  
 2) The Local Userid Table Area (LUITA).  
 This is the header for each LUIT, containing a pointer to the first LUIT entry, the SYSID associated with the LUIT, and some flags. This DSECT is physically part of the TCSE, but contains only those TCSE fields required by DFHZCUT to perform its functions.  
 There is one LUIT per connection, composed of a LUITA header followed by one entry for each userid that is Persistently Signed On.  
 Both of these control blocks are owned by DFHZCUT.  
 LIFETIME =  
 For the LUITA - Lifetime of the TCSE - connection lifetime.  
 Destroyed when the TCSE is freed.  
 For the LUIT entries - Task related. Tasks will attach and add or reuse LUIT entries. As tasks end, the use counts in the LUIT entries are decremented. If the entries have not been used for a set time (SIT - PVDELAY) the LUIT entries will be deleted.  
 STORAGE CLASS =  
 The LUITA is part of the TCSE  
 The LUIT entries come from Subpool USIDTBL  
 They have a fixed length of 32 bytes.  
 LOCATION =  
 LOCAL\_USERID\_TABLE\_AREA (LUITA) is a field in the TCSE.  
 LOCAL\_USERID\_TABLE\_ELEMENT is chained off:  
 LUITA\_HEAD\_POINTER (TCSELUIT) for the first LUIT entry  
 LUIT\_FORWARD\_POINTER for the next LUIT entry  
 (end of chain = Null pointer)  
 INNER CONTROL BLOCKS =  
 The LOCAL\_USERID\_TABLE\_AREA is an inner control block of the TCSE defined at TCSEUTA  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
 None  
 DATA AREAS =  
 None  
 CONTROL BLOCKS =  
 None  
 GLOBAL VARIABLES (Macro pass) =  
 None  
 The Local Userid Table Area is a sub control block within the TCSE - at TCSEUTA.  
 DFHZCUT uses the LUITA as the head control block for the LUIT.  
 HEAD\_POINTER points to the start of the LUIT element chain.  
 SYSID is the 4 char connection sysid associated with the LUIT.  
 FLAGS that are used in Time Out of the LUIT entries:  
 TIME\_OUT\_IN\_PROGRESS

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	LOCAL_USERID_TABLE_AREA	
(0)	ADDRESS	4	LUITA_HEAD_POINTER	
(4)	CHARACTER	4	LUITA_SYSID	
(8)	BITSTRING	1	LUITA_FLAGS	
	1... ....		LUITA_TIME_OUT_IN_PROGRESS	
.111 1111			*	Reserved
(9)	CHARACTER	3	*	Reserved



The Local Userid Table Elements consist of userids that are using Persistent Verification for a particular SYSID.

FORWARD\_POINTER is used to chain to the next element - search

BACKWARD\_POINTER is used when deleting entries from the middle of the list.

TIME\_LAST\_END\_BRACKET is set to zero when the entry is added to the list. Subsequently, it is set to the 4 High Order bytes of the STCK macro time, whenever tasks that use the entry send an end bracket to complete the session ( at task end). The time is used to remove the LUIT entry from the list if the count is zero, and the entry has not been used for a set time.

USE\_COUNT is the total number of transactions currently running that are using this LUIT entry.

FLAGS

LOGICALLY\_DELETED indicates that the LUIT entry has logically and architecturally been deleted, however since the use count is non zero, we must wait for the transactions that are currently using it to end, before we can Freemain it. Note. Instead of adding a new entry to the list a logically deleted entry can be made valid again. This saves us from having multiple entries for the same userid.

USERID is the userid (and length) that is using PV and can be considered Already Verified for use on the connection.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	32	LOCAL_USERID_ TABLE_ELEMENT	
(0)	ADDRESS	4	LUIT_FORWARD_POINTER	
(4)	ADDRESS	4	LUIT_BACKWARD_POINTER	
(8)	UNSIGNED	4	LUIT_TIME_ LAST_END_BRACKET	
(C)	HALFWORD	2	LUIT_USE_COUNT	
(E)	UNSIGNED	1	LUIT_FLAGS	
	1... ....		LUIT_LOGICALLY_DELETED	
	.1.. ....		LUIT_PENDING_TIME_OUT	
	..11 1111		*	
(F)	CHARACTER	9	LUIT_USERID	
(F)	UNSIGNED	1	LUIT_USERID_LENGTH	
(10)	CHARACTER	8	LUIT_USERID_TEXT	
(18)	CHARACTER	8	*	Reserved

## ZRPL CICS VTAM rpl extension

CONTROL BLOCK NAME = DFHTCLPS  
 DESCRIPTIVE NAME = CICS VTAM RPL and CICS Extension  
 FUNCTION = CICS extension to the VTAM Request Parameter List  
 for HPO (VTAM authorised path - SRB mode requests)  
 The RPL is the parameter list used for VTAM request macros. A CICS extension, used mainly for requests made using HPO, is appended to it. The RPL and extension are always getmained together but the length of the extension does not affect RPLEN (used with the VTAM API).  
 LIFETIME = Receive Any RPLs are getmained during initialisation by DFHZRPL and are never freemained.  
 RPLs for other VTAM requests have task lifetime and are getmained/freemained by ZGET/ZFRE  
 STORAGE CLASS = Receive Any RPLS are in the RAPOOL in subpool DFHAPD24.  
 Other VTAM RPLs are in subpool ZCRPL  
 LOCATION = The RAPOOL is addressed by TCTVRVRA  
 Other RPLs are addressed by TCTERPLA  
 INNER CONTROL BLOCKS = None  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES =  
 DATA AREAS =  
 CONTROL BLOCKS =  
 GLOBAL VARIABLES (Macro pass) = VTAM AMSI globals are set  
 CICS VTAM RPL Extension  
 - to match the assembler dsect which is aligned on a full word boundary, this definition must start at the next full word after the end of the VTAM RPL extension.

Offset	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	36	ZRPLEXTN	
(0)	ADDRESS	4	ZRPLCOMP	Completion address(on exit from SRB)
(0)	ADDRESS	4	ZRPLLINK	Exit link register save
(4)	ADDRESS	4	ZRPLTCTE	Actual TCTTE address
(8)	ADDRESS	4	ZRPLRETA	Return address from ZHPSR
(C)	ADDRESS	4	ZRPLERXA	LERAD or SYNAD entry point
(10)	ADDRESS	4	ZRPLSCHN	SRB chain
(14)	ADDRESS	4	ZRPLRSAX	SRB reg save area address
(18)	ADDRESS	4	ZRPLHPXA	SRB RPL executor ep address
(1C)	ADDRESS	4	ZRPLWRK1	SRB work field
(20)	BITSTRING	1	*	
	1... ..		ZRPLZCL	Exit being called from ZDSP
	.1.. ..		ZRPLECB	ECB to be posted by ZDSP
	..1. ....		ZRPLNHT	No HTA used with request
	...1 ....		ZRPLLRQ	Long-term SRB
	.... 1...		ZRPLSRB	RPL executed in SRB mode
	.... .1..		ZRPLQIP	RPL on completion que for ZRLP
#	.... ..1.		ZRPLNRC	Notify when on completion queue
#				<b>APAR PQ27032</b>
#				added ZRPLNRE
#	.... ..1		ZRPLNRE	Caller handles No-TCT errors
(21)	BITSTRING	1	*	
	1... ..		ZRPLERR	ZHPCH must call exit (ZSYX/ZLEX)
(22)	CHARACTER	2	*	Reserved
(24)	CHARACTER		*	Alignment

## ZXQOD XRF tracking queue organiser

CONTROL BLOCK NAME = DFHZXQOD  
 DESCRIPTIVE NAME = CICS XRF tracking queue organiser  
 (DFHZXQO) interface declaration.  
 FUNCTION = Declare interface to DFHZXQO.  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS =  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None.  
 DATA AREAS = None.  
 CONTROL BLOCKS = CSAXQONA in the CSA.  
 GLOBAL VARIABLES (Macro pass) = None.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	XQOJECT	Vector for ZXQO
(0)	ADDRESS	4	XQOJECTN	ZXQO entry point
(4)	BITSTRING	4	XQOJECTE	ECB posted when ZXQO is drained

### Constants

Len	Type	Value	Name	Description
1	CHARACTER	I	XQO_REQ_INIT	
1	CHARACTER	A	XQO_REQ_ADDACT	
1	CHARACTER	P	XQO_REQ_POST	
1	CHARACTER	D	XQO_REQ_DRAIN	
XQO_ RESPONSE values :-				
4	DECIMAL	8	XQO_RSP_BAD_REQC	OUT: Error
4	DECIMAL	4	XQO_RSP_ERROR	IN: (to POST)
4	DECIMAL	3	XQO_RSP_NOT_YET	OUT: Normal - queued
4	DECIMAL	1	XQO_RSP_SCHDULD	IN: from RM_SCHEDULE
4	DECIMAL	0	XQO_RSP_NORMAL	OUT: Normal - complete

## ZXTR XRF tracking record header

CONTROL BLOCK NAME = DFHZXTR  
 DESCRIPTIVE NAME = CICS XRF tracking record header.  
 FUNCTION =  
     Common part of records shipped to an XRF alternate  
     to drive the tracking of various states.  
 LIFETIME =  
     Built by DFHTBSSP and the XRF catch-up transaction, and  
     interpreted by DFHTCRP and DFHZXQO.  
 STORAGE CLASS = Various.  
 LOCATION = Various.  
 INNER CONTROL BLOCKS =  
     The tracking record contains a variable length data  
     field which in some cases is a copy of the CICS catalog  
     record.  
 NOTES :  
 DEPENDENCIES = S/370  
 RESTRICTIONS = None.  
 MODULE TYPE = Control block definition  
 EXTERNAL REFERENCES = None.  
 DATA AREAS = None.  
 CONTROL BLOCKS = None.  
 GLOBAL VARIABLES (Macro pass) = No sysgen globals.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	XTR_RECORD	Tracking record sent from the ACTIVE to the ALTERNATE
(0)	UNSIGNED	2	XTR_ID	Indicates whether it is a CATCHUP or TRACKING type record.
(2)	BITSTRING	1	*	Flags
(3)	CHARACTER	1	XTR_TYPE	Defines what the tracking record contains
(4)	CHARACTER	*	XTR_KEY	
(4)	UNSIGNED	1	XTR_KEY_LENGTH	Length of the key value. If this is 0 and XTR_ID is not XTR_ID_BROADCAST then this is the end-of-stream marker for a particular catchup. Any data will be ignored in this case.
(5)	CHARACTER	*	XTR_KEY_VALUE	A string that uniquely names the externalised object

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	XTR_DATA	Recovery record proper
(0)	UNSIGNED	2	XTR_DATA_LENGTH	
(2)	CHARACTER	*	XTR_DATA_STRING	Contains the externalised object(s) and associated object.

The following structure maps XTR\_DATA\_STRING when used for tracking-control messages.  
 In this case the following conventions exist:-  
 (a) If XTR\_ID is XTR\_ID\_BROADCAST then this is a start-of-stream record, which is the first record generated by a (new) active.  
 (b) If XTR\_ID is not XTR\_ID\_BROADCAST then this is a start-of-catchup record, and any backup waiting to do catchup may capture the value in XTR\_ID which will be used in all subsequent records for this particular catchup.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	XTR_XC_DATA	
(0)	BITSTRING	1	*	
(1)	CHARACTER	1	XTR_XC_STRM_WARM	Stream is cold
(1)	CHARACTER	1	* (*)	List of types in stream
(1)	CHARACTER	1	XTR_XC_TYPE_ELEM	Stream type

The following structure maps XTR\_DATA\_STRING when used for session-state tracking messages.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	XTR_ST_DATA	
(0)	CHARACTER	5	XTR_ST_SHORT	Basic section
(0)	CHARACTER	4	XTR_ST_SESS_NAME	Session/terminal name
(4)	CHARACTER	1	XTR_ST_REQUEST	Request being shipped
(5)	BITSTRING	1	XTR_ST_FLAGS_1	
	1... ..		XTR_ST_CAPABLE	XRF capable session
(6)	CHARACTER	*	XTR_ST_CORREL	Correlation id
(6)	UNSIGNED	1	XTR_ST_CORREL_LN	Length
(7)	CHARACTER	*	XTR_ST_CORREL_ID	Value

This is now externalised

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	XTR_ST_LOG_DATA	Logon data
(0)	UNSIGNED	2	XTR_ST_LOGD_LEN	Length
(2)	CHARACTER	*	XTR_ST_LOGD_VAL	Value

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	XTR_ST_BIND	BIND-image
(0)	UNSIGNED	1	XTR_ST_BIMG_LEN	Length
(1)	CHARACTER	*	XTR_ST_BIMG_VAL	Value

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	XTR_SN_DATA	
(0)	CHARACTER	4	XTR_SN_SESS_NAME	
(4)	UNSIGNED	1	XTR_SN_REP_N	
(5)	CHARACTER	*	XTR_SN_REP	

## Constants

Len	Type	Value	Name	Description
4	DECIMAL	5	XTR_RECORD_SIZE	
4	DECIMAL	16	XTR_MAX_KEYLEN	Maximum length of the obj
4	DECIMAL	2	XTR_DATA_SIZE	

Used in XTR\_ID

2	DECIMAL	0	XTR_ID_BROADCAST	General msg
2	DECIMAL	65535	XTR_ID_PENDING	XTR_ID_PENDING - used to indicate that a stream has been "opened" but nothing sent yet

Used in XTR\_TYPE

1	CHARACTER	X	XTR_TYPE_CONTROL	Tracking control
1	CHARACTER	C	XTR_TYPE_ZC_CONTENTS	CONTENTS
1	CHARACTER	S	XTR_TYPE_ZC_SESSIONS	SESSIONS
1	CHARACTER	U	XTR_TYPE_SN	User ids

Used in RESPONSE

1	DECIMAL	0	XTR_RSP_NORMAL	Normal response
1	DECIMAL	8	XTR_RSP_ERROR	Error response
1	DECIMAL	4	XTR_RSP_SHUTDOWN	Shutdown
1	DECIMAL	1	XTR_RSP_ALL_GONE	No backups
4	DECIMAL	5	XTR_SN_DATA_SIZE	

Values used in XTS\_ST\_REQUEST:-

1	CHARACTER	1	XTR_ST_REQ_BIND	BIND completed
1	CHARACTER	2	XTR_ST_REQ_FREED	Logon data freed
1	CHARACTER	3	XTR_ST_REQ_UNBND	UNBIND completed



## Index

### Special Characters

'29' XRF mapping session stste vector '29', TCV29 418  
@NM00002 1 JCA 195

#### A

A03 14  
A03CLEN (BIT) A03 14  
A03DOC (10) A03 14  
A03DVERS (4) A03 14  
A03END (BIT) A03 14  
A03ID (2) A03 14  
A03IDE (BIT) A03 14  
A03LEN 14  
A03LUHWM (18) A03 14  
A03LUNUM 14  
A03PSEC (2C) A03 14  
A03PSIC (1C) A03 14  
A03PSNC (20) A03 14  
A03PSOC (24) A03 14  
A03PSUC (28) A03 14  
A03RPLX (C) A03 14  
A03RPLXT 14  
A03VERS (BIT) A03 14  
A03VTSOS (E) A03 14  
A04 15  
A04CIDCT (44) A04 15  
A04CIDLE (48) A04 15  
A04CLEN (BIT) A04 15  
A04CMAXI (50) A04 15  
A04DVERS (4) A04 15  
A04END (BIT) A04 15  
A04ID (2) A04 15  
A04IDE (BIT) A04 15  
A04LEN 15  
A04RDEL (40) A04 15  
A04RDIDL (24) A04 15  
A04RDINT (20) A04 15  
A04RDISS (3C) A04 15  
A04RDREC (38) A04 15  
A04SKBLT (28) A04 15  
A04SKDEL (30) A04 15  
A04SKINS (2C) A04 15  
A04TIDCT (58) A04 15  
A04TIDLE (5C) A04 15  
A04TIEXP (34) A04 15  
A04TMAXI (64) A04 15  
A04VADAT 15  
A04VADLO (10) A04 15  
A04VADPK (14) A04 15  
A04VADPX (16) A04 15  
A04VADQK (1C) A04 15  
A04VADQT (18) A04 15  
A04VADQX (1E) A04 15  
A04VADRJ (C) A04 15  
A04VADSH (A) A04 15  
A04VERS (BIT) A04 15  
A06 16  
A06CLEN (BIT) A06 16  
A06CSVC (20) A06 16  
A06DVERS (4) A06 16  
A06EAMIB (D) A06 16  
A06END (BIT) A06 16  
A06GOFTM (64) A06 16  
A06GONTM (5C) A06 16  
A06ID (2) A06 16  
A06IDL (BIT) A06 16  
A06IDR (BIT) A06 16  
A06LEN 16  
A06LENP 16  
A06LUNAM 16  
A06MCNT (34) A06 16  
A06OFFTM (54) A06 16  
A06ONTM (4C) A06 16

A06PRTY (40) A06 16  
A06SCNT (30) A06 16  
A06STG 16  
A06SYSID (48) A06 16  
A06TCNT (2C) A06 16  
A06TEND (14) A06 16  
A06TENO (18) A06 16  
A06TEOE (28) A06 16  
A06TEOT (1C) A06 16  
A06TETE (24) A06 16  
A06TETI 16  
A06TETT (C) A06 16  
A06VERS (BIT) A06 16  
A08 17  
A08BEND (BIT) A08 18  
A08BKBF (8) A08 18  
A08BKBFN (2) A08 18  
A08BKBSZ 18  
A08BKCRF (20) A08 18  
A08BKCRS (18) A08 18  
A08BKCFW (24) A08 18  
A08BKCWS (1C) A08 18  
A08BKFRD (C) A08 18  
A08BKHAS (38) A08 17  
A08BKHBN (4) A08 18  
A08BKHSW (30) A08 17  
A08BKHYL (2C) A08 17  
A08BKNUW (14) A08 18  
A08BKSTN (2E) A08 17  
A08BKTSW 17  
A08BKUIW (10) A08 18  
A08BLEN (BIT) A08 18  
A08BSSDS (0) A08 18  
A08BSTAT (8C) A08 18  
A08CLEN (BIT) A08 18  
A08DLEN (8C) A08 18  
A08DVERS (4) A08 17  
A08END (BIT) A08 18  
A08FLAGS (9) A08 17  
A08GBKCD (1C) A08 17  
A08GBKDD (24) A08 17  
A08ID (2) A08 17  
A08IDR (BIT) A08 17  
A08IDSEP (BIT) A08 17  
A08LBKCD 17  
A08LBKDD (14) A08 17  
A08LEN 17  
A08NBS 17  
A08SRPID 17  
A08TOBFF\_DATA (44) A08 17  
A08TOBFF\_INDX (6C) A08 17  
A08TOBFN\_DATA (3C) A08 17  
A08TOBFN\_INDX (64) A08 17  
A08TOCRF\_DATA (5C) A08 17  
A08TOCRF\_INDX (84) A08 18  
A08TOCRS\_DATA (54) A08 17  
A08TOCRS\_INDX (7C) A08 17  
A08TOCWF\_DATA (60) A08 17  
A08TOCWF\_INDX (88) A08 18  
A08TOCWS\_DATA (58) A08 17  
A08TOCWS\_INDX (80) A08 17  
A08TOFRD\_DATA (48) A08 17  
A08TOFRD\_INDX (70) A08 17  
A08TOHBN\_DATA (40) A08 17  
A08TOHBN\_INDX (68) A08 17  
A08TONUW\_DATA (50) A08 17  
A08TONUW\_INDX (78) A08 17  
A08TOUIW\_DATA (4C) A08 17  
A08TOUIW\_INDX (74) A08 17  
A08VERS (BIT) A08 17  
A09 19  
A09CLEN (BIT) A09 19  
A09DBN (12) A09 19  
A09DSID (A) A09 19  
A09DVERS (4) A09 19  
A09END (BIT) A09 19  
A09HBW (1C) A09 19  
A09IBN (14) A09 19

A09ID (2) A09 19  
A09IDR (BIT) A09 19  
A09IDT (BIT) A09 19  
A09LEN 19  
A09SRPID 19  
A09TBW 19  
A09VERS (BIT) A09 19  
A14 20  
A14ACCM (94) A14 21  
A14AICT (70) A14 21  
A14AIDT (80) A14 21  
A14APPC (BIT) A14 21  
A14CLEN (BIT) A14 21  
A14CNTN 20  
A14DVERS (4) A14 20  
A14E1HWM (4C) A14 21  
A14E1RY (9A) A14 21  
A14E2HWM (14) A14 20  
A14E2RY (9C) A14 21  
A14EALIM (56) A14 21  
A14EALL (C) A14 20  
A14EALRJ (50) A14 21  
A14EBHWM (16) A14 20  
A14EBID (10) A14 20  
A14EFLGS (95) A14 21  
A14EMQPC (60) A14 21  
A14EMXQT (54) A14 21  
A14END (BIT) A14 21  
A14EPRMN (98) A14 21  
A14EQPCT (4E) A14 21  
A14ES1 (18) A14 20  
A14ES2 (1C) A14 21  
A14ESALL (E) A14 20  
A14ESBID (20) A14 21  
A14ESECN (96) A14 21  
A14ESID 21  
A14ESTAF (2C) A14 21  
A14ESTAM (12) A14 20  
A14ESTAO (30) A14 21  
A14ESTAQ (28) A14 21  
A14ESTAS (24) A14 21  
A14ESTDL (44) A14 21  
A14ESTFC (34) A14 21  
A14ESTIC (38) A14 21  
A14ESTPC 21  
A14ESTTC (48) A14 21  
A14ESTTD (3C) A14 21  
A14ESTTS (40) A14 21  
A14EXCI (BIT) A14 21  
A14EZQPC (5E) A14 21  
A14EZQPU (5C) A14 21  
A14EZQRJ (58) A14 21  
A14GACT 21  
A14GADT (78) A14 21  
A14ID (2) A14 20  
A14IDR (BIT) A14 20  
A14IDT (BIT) A14 20  
A14IRC (BIT) A14 21  
A14LEN 20  
A14LU61 (BIT) A14 21  
A14VERS (BIT) A14 20  
A14VTAM (BIT) A14 21  
A14XCF (BIT) A14 21  
A14XM (BIT) A14 21  
A16 22  
A16CLEN (BIT) A16 22  
A16DVERS (4) A16 22  
A16END (BIT) A16 22  
A16ID (2) A16 22  
A16IDE (BIT) A16 22  
A16LEN 22  
A16NTAB 22  
A16SCLEN (BIT) A16 22  
A16SEND (BIT) A16 22  
A16STATS (0) A16 22  
A16TNAM (0) A16 22  
A16TSIZE (4) A16 22  
A16VERS (BIT) A16 22  
A17 23  
A17BDSNM 24  
A17CLEN (144) A17 24  
A17DSASC (10C) A17 24  
A17DSASW (10E) A17 24  
A17DSBR (54) A17 23  
A17DSBRU (130) A17 24  
A17DSDEL (60) A17 23  
A17DSDNB (C8) A17 24  
A17DSGU (50) A17 23  
A17DSHSW (74) A17 23  
A17DSINB (CA) A17 24  
A17DSIXP (6C) A17 23  
A17DSNAM (20) A17 23  
A17DSRD (4C) A17 23  
A17DSRLS (12) A17 23  
A17DSTSW (70) A17 23  
A17DSTYP (DC) A17 24  
A17DSWRA (58) A17 23  
A17DSWRU (5C) A17 23  
A17DSXCP (68) A17 23  
A17DT (11) A17 23  
A17DTADS (88) A17 24  
A17DTAIX (BIT) A17 23  
A17DTALD (BC) A17 24  
A17DTALE (AC) A17 24  
A17DTALI (B4) A17 24  
A17DTALT (A4) A17 24  
A17DTARJ (8C) A17 24  
A17DTASS (BIT) A17 23  
A17DTATF (90) A17 24  
A17DTAVR (84) A17 24  
A17DTFCF (BIT) A17 23  
A17DTFCFL (BIT) A17 23  
A17DTFCFP (13C) A17 24  
A17DTCON (138) A17 24  
A17DTDLS (98) A17 24  
A17DTLDS (144) A17 24  
A17DTPRS (BIT) A17 23  
A17DTRDS 24  
A17DTRMT (BIT) A17 23  
A17DTRNF (80) A17 24  
A17DTRRS (C4) A17 24  
A17DTRWS (94) A17 24  
A17DTSHI (9C) A17 24  
A17DTSIZ (A0) A17 24  
A17DTTC (BIT) A17 23  
A17DTTK (BIT) A17 23  
A17DTTL (BIT) A17 23  
A17DTTP (BIT) A17 23  
A17DTTS (BIT) A17 23  
A17DTTU (BIT) A17 23  
A17DTTYP 23  
A17DTUSD (C0) A17 24  
A17DTUSE (B0) A17 24  
A17DTUSI (B8) A17 24  
A17DTUST (A8) A17 24  
A17DVERS (4) A17 23  
A17END (144) A17 24  
A17FLOC (10) A17 23  
A17FNAM 23  
A17GCLST (128) A17 24  
A17GOPNT (120) A17 24  
A17ID (2) A17 23  
A17IDR (BIT) A17 23  
A17LCLST (118) A17 24  
A17LEN 23  
A17LOPNT (110) A17 24  
A17NORLS (BIT) A17 23  
A17POOL (CC) A17 24  
A17RLS (BIT) A17 23  
A17RLSWT (134) A17 24  
A17RMDEL (64) A17 23  
A17RNAME (D0) A17 24  
A17RSYS (D8) A17 24  
A17STRNO 24  
A17VERS (BIT) A17 23  
A20 25  
A20CLEN (BIT) A20 26  
A20DVERS (4) A20 25  
A20E1HWM (1A) A20 25  
A20E1RY (50) A20 26  
A20E2HWM (16) A20 25  
A20E2RY (52) A20 26  
A20EBHWM (18) A20 25  
A20EBID (40) A20 26  
A20ECONL (4E) A20 26  
A20ECONW (4C) A20 26



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A20ELMAX (46) A20 26  
 A20EMAXS (4A) A20 26  
 A20EMCON (48) A20 26  
 A20END (BIT) A20 26  
 A20EQPCT (42) A20 26  
 A20ES1 (1C) A20 25  
 A20ES2 (20) A20 25  
 A20ESBID (24) A20 25  
 A20ESTAF (30) A20 25  
 A20ESTAG (38) A20 25  
 A20ESTAM (14) A20 25  
 A20ESTAO (34) A20 25  
 A20ESTAP (3C) A20 26  
 A20ESTAQ (2C) A20 25  
 A20ESTAS (28) A20 25  
 A20EZQPC (44) A20 26  
 A20ID (2) A20 25  
 A20IDR (BIT) A20 25  
 A20IDT (BIT) A20 25  
 A20LEN 25  
 A20MODE (C) A20 25  
 A20SYSN 25  
 A20VERS (BIT) A20 25  
 A21 26  
 A21\_LUIT\_AV\_REUSE\_TIME (20) A21 26  
 A21\_LUIT\_TOTAL\_REUSES 26  
 A21\_LUIT\_TOTAL\_TIMEOITS (1C) A21 26  
 A21\_SIT\_LUIT\_TIME (A) A21 26  
 A21\_STATS\_DCL\_RESID 2 A21 27  
 A21\_STATS\_DCL\_VERSION 1 A21 27  
 A21\_STATS\_ID (2) A21 26  
 A21\_STATS\_LENGTH (0) A21 26  
 A21\_STATS\_VERSION (4) A21 26  
 A22 27  
 A22ALLOC (20) A22 27  
 A22CLEN (BIT) A22 27  
 A22CONCT (18) A22 27  
 A22CONPK (1C) A22 27  
 A22DVERS (4) A22 27  
 A22END (BIT) A22 27  
 A22ID (2) A22 27  
 A22IDR (BIT) A22 27  
 A22LEN 27  
 A22NDCT (14) A22 27  
 A22PKALL (24) A22 27  
 A22PKWT (30) A22 27  
 A22POOL 27  
 A22TIOU (34) A22 27  
 A22TOTWT (2C) A22 27  
 A22TRGCT (10) A22 27  
 A22VERS (BIT) A22 27  
 A22WAIT (28) A22 27  
 A23 28  
 A23ACQ (20) A23 28  
 A23CHIN (30) A23 28  
 A23CHOUT (2C) A23 28  
 A23CLEN (BIT) A23 28  
 A23CNV (24) A23 28  
 A23DVERS (4) A23 28  
 A23END (BIT) A23 28  
 A23ERROR (38) A23 28  
 A23ID (2) A23 28  
 A23IDR (BIT) A23 28  
 A23LEN 28  
 A23NODE (18) A23 28  
 A23POOL 28  
 A23RTOUT (34) A23 28  
 A23TARG (10) A23 28  
 A23USI (28) A23 28  
 A23VERS (BIT) A23 28  
 A24 29  
 A24ALLOC (24) A24 29  
 A24APPL (18) A24 29  
 A24CLEN (BIT) A24 29  
 A24DVERS (4) A24 29  
 A24END (BIT) A24 29  
 A24ID (2) A24 29  
 A24IDR (BIT) A24 29  
 A24LEN 29  
 A24NDCT (20) A24 29  
 A24PKWT (30) A24 29  
 A24POOL (10) A24 29  
 A24TARG 29  
 A24TIOU (34) A24 29  
 A24TOTWT (28) A24 29  
 A24VERS (BIT) A24 29  
 A24WAIT (2C) A24 29  
 abend  
     transaction abend control block, TACB 332  
 ABEND (BIT) SIP 291  
 ABEND\_FLAGS 93  
 ABEND\_SYSID (68) DUA 93  
 ABENDT (BIT) TEPCA 431  
 ABNDACREGS (C8) TACB 333  
 ABNDACRS (C8) TACB 333  
 ABNDALET (108) TACB 333  
 ABNDAMSG 332  
 ABNDCAXI (1B) TACB 332  
 ABNDCCDE (BIT) TACB 332  
 ABNDCCDSA 1 TACB 333  
 ABNDCICSKEY 1 TACB 333  
 ABNDCCODE (1C) TACB 332  
 ABNDNDMP (BIT) TACB 332  
 ABNDECCDSA 1 TACB 333  
 ABNDEDTB (BIT) TACB 332  
 ABNDERDSA 1 TACB 333  
 ABNEUDSA 1 TACB 333  
 ABNDFLG1 (E) TACB 332  
 ABNDFLG2 (F) TACB 332  
 ABNDFLGS 332  
 ABNDFFR0 (A8) TACB 333  
 ABNDFFR2 (B0) TACB 333  
 ABNDFFR4 (B8) TACB 333  
 ABNDFFR6 (C0) TACB 333  
 ABNDFFRS (A8) TACB 333  
 ABNDGPRS (58) TACB 332  
 ABNDIGNORE (BIT) TACB 332  
 ABNDINT (A0) TACB 333  
 ABNDKEY 332  
 ABNDMLEN (44) TACB 332  
 ABNDMSGI (BIT) TACB 332  
 ABNDMSGT (115) TACB 333  
 ABNDNAME (10) TACB 332  
 ABNDNOHIT 1 TACB 333  
 ABNDNXT (8) TACB 332  
 ABNDNXTI (BIT) TACB 332  
 ABNDCCDE (BIT) TACB 332  
 ABNDCCOD (48) TACB 332  
 ABNDOFF (4C) TACB 332  
 ABNDPCTR (19) TACB 332  
 ABNDPGM (20) TACB 332  
 ABNDPRG (20) TACB 332  
 ABNDPRGI (BIT) TACB 332  
 ABNDPSNM 332  
 ABNDPSW (98) TACB 333  
 ABNDRABD (BIT) TACB 332  
 ABNDRDSA 1 TACB 333  
 ABNDREGI (BIT) TACB 332  
 ABNDREGS (58) TACB 332  
 ABNDREGX (58) TACB 332  
 ABNDREMT (BIT) TACB 332  
 ABNDREQ (28) TACB 332  
 ABNDREQL (BIT) TACB 332  
 ABNDRSRC (2C) TACB 332  
 ABNDRSRI (BIT) TACB 332  
 ABNDSAAC 332  
 ABNDSAAL (3) TACB 332  
 ABNDSAAS (2) TACB 332  
 ABNDSSENS (3C) TACB 332  
 ABNDSETX (38) TACB 332  
 ABNDSNSI (BIT) TACB 332  
 ABNDSPACE (114) TACB 333  
 ABNDSSN1 (3C) TACB 332  
 ABNDSSN2 (3D) TACB 332  
 ABNDSTART (BIT) TACB 332  
 ABNDSTAT (18) TACB 332  
 ABNDSTG (47) TACB 332  
 ABNDSTOKEN (10C) TACB 333  
 ABNDSYAB (18) TACB 332  
 ABNDSYSI (BIT) TACB 332  
 ABNDSYST (34) TACB 332  
 ABNDUDSA 1 TACB 333  
 ABNDUSERKEY 1 TACB 333  
 ABNDUSN1 (3E) TACB 332  
 ABNDUSN2 (3F) TACB 332  
 abnormal

abnormal (continued)  
 terminal abnormal condition line entry, TACLE 333  
 ABORTWR (BIT) TEPCA 431  
 access  
 file lasting access block, FLABC 153  
 recovery manager domain inline access, RMUXC 279  
 accounting  
 storage accounting area, SAA 286  
 address  
 static storage area address list, SSA 329  
 TCP modules address list, ZEPD 589  
 ADS\_DESCRIPTOR (0) BRARC 43  
 ADS\_FIELD\_DESCRIPTOR (0) BRARC 43  
 ADS\_LONG\_DESCRIPTOR (0) BRARC 43  
 ADS\_LONG\_FIELD\_DESCRIPTOR (0) BRARC 44  
 ADSD\_ATTRIBUTE\_NUMBER (C) BRARC 43  
 ADSD\_ATTRIBUTE\_TYPE\_CODES (E) BRARC 43  
 ADSD\_EYECATCHER (2) BRARC 43  
 ADSD\_FIELD\_COUNT (8) BRARC 43  
 ADSD\_FIELD\_DATA\_LEN (26) BRARC 43  
 ADSD\_FIELD\_FILL\_CHAR (29) BRARC 43  
 ADSD\_FIELD\_JUSTIFY (28) BRARC 43  
 ADSD\_FIELD\_NAME (0) BRARC 43  
 ADSD\_FIELD\_NAME\_LEN (20) BRARC 43  
 ADSD\_FIELD\_OFFSET (24) BRARC 43  
 ADSD\_FIRST\_FIELD 43  
 ADSD\_LENGTH (0) BRARC 43  
 ADSD\_MAP\_COLUMNS (22) BRARC 43  
 ADSD\_MAP\_INDEX (6) BRARC 43  
 ADSD\_MAP\_JUSTIFY\_HOR (1A) BRARC 43  
 ADSD\_MAP\_JUSTIFY\_VER (1B) BRARC 43  
 ADSD\_MAP\_LINES (20) BRARC 43  
 ADSD\_MAP\_STARTING\_COLUMN (1E) BRARC 43  
 ADSD\_MAP\_STARTING\_LINE (1C) BRARC 43  
 ADSD\_NEXT\_FIELD (2A) BRARC 43  
 ADSD\_OCCURS\_INDEX (22) BRARC 43  
 ADSD\_STRUCTURE\_LENGTH (A) BRARC 43  
 ADSD\_WRITE\_CONTROL\_CHAR (24) BRARC 43  
 ADSDL\_ATTRIBUTE\_NUMBER (14) BRARC 44  
 ADSDL\_ATTRIBUTE\_TYPE\_CODES (18) BRARC 44  
 ADSDL\_EYECATCHER (4) BRARC 43  
 ADSDL\_FIELD\_COUNT (C) BRARC 44  
 ADSDL\_FIELD\_DATA\_LEN (2C) BRARC 44  
 ADSDL\_FIELD\_FILL\_CHAR (31) BRARC 44  
 ADSDL\_FIELD\_JUSTIFY (30) BRARC 44  
 ADSDL\_FIELD\_NAME (0) BRARC 44  
 ADSDL\_FIELD\_NAME\_LEN (20) BRARC 44  
 ADSDL\_FIELD\_OFFSET (28) BRARC 44  
 ADSDL\_FIRST\_FIELD 44  
 ADSDL\_LENGTH (0) BRARC 43  
 ADSDL\_MAP\_COLUMNS (34) BRARC 44  
 ADSDL\_MAP\_INDEX (8) BRARC 43  
 ADSDL\_MAP\_JUSTIFY\_HOR (24) BRARC 44  
 ADSDL\_MAP\_JUSTIFY\_VER (25) BRARC 44  
 ADSDL\_MAP\_LINES (30) BRARC 44  
 ADSDL\_MAP\_STARTING\_COLUMN (2C) BRARC 44  
 ADSDL\_MAP\_STARTING\_LINE 44  
 ADSDL\_NEXT\_FIELD 44  
 ADSDL\_OCCURS\_INDEX (24) BRARC 44  
 ADSDL\_STRUCTURE\_LENGTH (10) BRARC 44  
 ADSDL\_WRITE\_CONTROL\_CHAR (38) BRARC 44  
 AF7770 2  
 AFAICB (C) AFCB 2  
 AFAPR 2  
 AFCB 2  
 AFCBDMAN (D4) AFCB 3  
 AFCHAIN (14) AFCB 2  
 AFCS\_3QSSBKND (6C) AFCB 3  
 AFCS\_3QSSBKND\_XM\_SUPPORTED (BIT) AFCB 3  
 AFCS\_ARM\_REGISTERED (BIT) AFCB 3  
 AFCS\_CEECTCB (4C) AFCB 3  
 AFCS\_CICS\_KEY (F) AFCB 3  
 AFCS\_FLAGS (5) AFCB 3  
 AFCSA (8) AFCB 2  
 AFCSAXIN (38) AFCB 3  
 AFCSCLTN (2C) AFCB 3  
 AFCSCSAA (18) AFCB 3  
 AFCSCSVC (C) AFCB 3  
 AFCSCTKN (48) AFCB 3  
 AFCSDMAN (44) AFCB 3  
 AFCSDSP (14) AFCB 3  
 AFCSDXHP (40) AFCB 3  
 AFCSGAPD (1C) AFCB 3  
 AFCSID (0) AFCB 3  
 AFCSKCB (8) AFCB 3  
 AFCSLEN (6) AFCB 3  
 AFCSMFI (34) AFCB 3  
 AFCSAPD (24) AFCB 3  
 AFCSSEC (10) AFCB 3  
 AFCSVER (4) AFCB 3  
 AFCSXRFD (E) AFCB 3  
 AFCT 4  
 AFCT\_408\_ISSUED (BIT) AFCT 5  
 AFCT\_408\_NEEDED (BIT) AFCT 5  
 AFCT\_CONN\_FAIL (BIT) AFCT 5  
 AFCT\_ENTRY\_ID 8 AFCT 5  
 AFCT\_FORCE (BIT) AFCT 5  
 AFCT\_LH\_STCK (50) AFCT 5  
 AFCT\_LINK\_ERROR (54) AFCT 5  
 AFCT\_LINK\_FAIL (BIT) AFCT 5  
 AFCT\_NOT\_AUTH 5  
 AFCT\_OPEN (BIT) AFCT 5  
 AFCT\_STCK 5  
 AFCTBRWS (40) AFCT 5  
 AFCTBRWU (44) AFCT 5  
 AFCTCNCN (18) AFCT 5  
 AFCTCNCP (14) AFCT 5  
 AFCTCNCT (14) AFCT 5  
 AFCTCOMM (0) AFCT 4  
 AFCTEGRP (0) AFCT 4  
 AFCTEID (0) AFCT 4  
 AFCTELEN (10) AFCT 4  
 AFCTELLN 2 AFCT 5  
 AFCTERLN 2 AFCT 5  
 AFCTGETU (34) AFCT 5  
 AFCTNAME (8) AFCT 4  
 AFCTRDEL (2C) AFCT 5  
 AFCTREAD (30) AFCT 5  
 AFCTREMT (BIT) AFCT 4  
 AFCTRKLN (4A) AFCT 5  
 AFCTRMTE 5  
 AFCTRNAM (20) AFCT 5  
 AFCTRRSZ (48) AFCT 5  
 AFCTRSYS (28) AFCT 5  
 AFCTSTAT (12) AFCT 4  
 AFCTWRA (38) AFCT 5  
 AFCTWRU (3C) AFCT 5  
 AFDEQ 2  
 AFDEQCB (44) AFCB 2  
 AFDMSVC 3  
 AFDSP 2  
 AFDSPTB (A4) AFCB 2  
 AFDTRGNP (AC) AFCB 2  
 AFDT SVC (A8) AFCB 2  
 AFDU SVC 2  
 AFHPSRB (1C) AFCB 2  
 AFIDENT (0) AFCB 2  
 AFINH 2  
 AFINIT 2  
 AFIRSUDB (24) AFCB 2  
 AFIR SVC (20) AFCB 2  
 AFKESVC 2  
 AFLENG (6) AFCB 2  
 AFLODR 2  
 AFLSTBEG (10) AFCB 2  
 AFMFI 2  
 AFMFICB (8C) AFCB 2  
 AFMON (28) AFCB 2  
 AFMONCB (2C) AFCB 2  
 AFPPF (10) AFCB 2  
 AFPSS 2  
 AFPSSCB (5C) AFCB 2  
 AFPXT (48) AFCB 2  
 AFPXTXA (4C) AFCB 2  
 AFRXANCR (DC) AFCB 3  
 AFRXSVC (D8) AFCB 3  
 AFSDU (60) AFCB 2  
 AFSEC (30) AFCB 2  
 AFSKP (50) AFCB 2  
 AFSMR (90) AFCB 2  
 AFSRB (18) AFCB 2  
 AFSVCNO (5) AFCB 2  
 AFTAFC 3  
 AFTEXCI (BIT) AFCB 3  
 AFTFLG1 (2) AFCB 3  
 AFTKTCB (8) AFCB 3

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AFTLENG (0) AFCB 3  
 AFTQR (BIT) AFCB 3  
 AFTSTART (0) AFCB 3  
 AFVER (4) AFCB 2  
 AFVER1 1 AFCB 4  
 AFVER2 1 AFCB 4  
 AFXCG (B4) AFCB 2  
 AFXCINIT (B0) AFCB 2  
 AFXCSDMP (B8) AFCB 2  
 AFXRF 2  
 AIBXPTR (48) EICD1 114  
 AICA (BIT) DUA 93  
 AID 6  
 AID\_GW\_DATA 1 AID 7  
 AID\_GW\_SHUTDOWN 1 AID 7  
 AID\_REROUTED (BIT) AID 7  
 AID\_START\_DATA\_LEN (76) AID 7  
 AID\_TERMINAL\_NETNAME 7  
 AID\_TOR\_NETNAME (65) AID 7  
 AID\_TOR\_NETNAMEO (6D) AID 7  
 AID\_TRANNUM 7  
 AIDAD 4 AID 7  
 AIDBLKID (2) AID 6  
 AIDBLKNM (8) AID 6  
 AIDBMS 1 AID 7  
 AIDBMS\_STRUCTURE (8C) AID 7  
 AIDBMSCC (94) AID 7  
 AIDBMSMT (BIT) AID 7  
 AIDBMSTS (90) AID 7  
 AIDBODY (10) AID 6  
 AIDCANCL (BIT) AID 6  
 AIDCHNB (14) AID 6  
 AIDCHNF (10) AID 6  
 AIDCRRD 1 AID 7  
 AIDCRRD\_STRUCTURE (8C) AID 7  
 AIDCRSRT (BIT) AID 7  
 AIDCURTR (25) AID 6  
 AIDDATA (18) AID 6  
 AIDDATA\_STRUCTURE (18) AID 6  
 AIDDATID (34) AID 6  
 AIDDEST (29) AID 6  
 AIDDYNTR (BIT) AID 7  
 AIDFLAG2 (4F) AID 7  
 AIDFLAGS (4E) AID 6  
 AIDFS (4D) AID 6  
 AIDINT 1 AID 7  
 AIDISC 1 AID 7  
 AIDLEN (0) AID 6  
 AIDLTD (88) AID 7  
 AIDLTRM (BIT) AID 7  
 AIDMCRID (37) AID 6  
 AIDMODEN 6  
 AIDMRSCH (BIT) AID 7  
 AIDMSGID (37) AID 6  
 AIDNETNA (8C) AID 7  
 AIDNETNM (3C) AID 6  
 AIDNETSY (3C) AID 6  
 AIDNPUR (BIT) AID 6  
 AIDOCCL 7  
 AIDOCID (BIT) AID 7  
 AIDOCTYP (8C) AID 7  
 AIDOPCHK (8D) AID 7  
 AIDOVLY 6  
 AIDPRFX (0) AID 6  
 AIDPRIV (BIT) AID 6  
 AIDPURGD (BIT) AID 6  
 AIDPUT 1 AID 7  
 AIDPUT\_STRUCTURE 7  
 AIDRECOV (BIT) AID 7  
 AIDREMT (BIT) AID 6  
 AIDREMX (BIT) AID 6  
 AIDROUTP (BIT) AID 6  
 AIDRTST (BIT) AID 7  
 AIDSENT (BIT) AID 6  
 AIDSHIPD (BIT) AID 6  
 AIDSHSYS 6  
 AIDSTATI (2E) AID 6  
 AIDSTTSK (BIT) AID 6  
 AIDSYSID (40) AID 6  
 AIDSYST 7  
 AIDSYSX (58) AID 7  
 AIDSZ (BIT) AID 6  
 AIDTC (3A) AID 6  
 AIDTCAA 6  
 AIDTCTA 6  
 AIDTCTSA (30) AID 6  
 AIDTDP 1 AID 7  
 AIDTIMST (54) AID 7  
 AIDTR (4C) AID 6  
 AIDTRMID (18) AID 6  
 AIDTRNID (1C) AID 6  
 AIDTYPE (2D) AID 6  
 AIDVDATA 7  
 AIDVER (5C) AID 7  
 AIDVERFR (BIT) AID 7  
 AIDVERUN (BIT) AID 7  
 ALL\_STATS\_AVAILABLE 1 APSTG 10  
 AMARGANC (18) SPI 323  
 AMDISANC (24) SPI 323  
 AMERRANC (1C) SPI 323  
 analyzer  
 web interface analyzer parms, WBTD 510  
 anchor  
 file request anchor block, FRABC 167  
 subsystem anchor block, SAB 286  
 XRF message queue anchor block, WMM 526  
 any  
 receive any control element, TCPRA 357  
 ANY\_RELEVANT (BIT) DUA 93  
 AP\_LAST\_RESET\_TIME (10) APSTG 10  
 APIREAS (110) SPI 324  
 APIREAS\_HIGH (110) SPI 324  
 APIREAS\_LOW (112) SPI 324  
 APIRESP 324  
 APLI 8  
 application  
 application domain global statistics, APSTG 9  
 application domain trandef extension, APXDC 11  
 application file control table, AFCT 4  
 APST\_GLOBAL\_STORAGE (0) APSTG 9  
 APSTG 9  
 APXD\_CEE\_ENABLED (BIT) APXDC 11  
 APXD\_COUNT (10) APXDC 11  
 APXD\_D2\_TOKEN (38) APXDC 11  
 APXD\_D2\_TOKEN\_COUNT (38) APXDC 11  
 APXD\_D2\_TOKEN\_PTR (3C) APXDC 11  
 APXD\_EYE (0) APXDC 11  
 APXD\_EYE\_LEN (0) APXDC 11  
 APXD\_EYE\_NAME (2) APXDC 11  
 APXD\_FLAGS1 (14) APXDC 11  
 APXD\_PPF (20) APXDC 11  
 APXD\_PPF\_CHANGECOUNT (20) APXDC 11  
 APXD\_PPF\_PTR (24) APXDC 11  
 APXD\_RUWA\_ONESIZE (40) APXDC 11  
 APXD\_RUWA\_POOLSIZ (44) APXDC 11  
 APXD\_RUWA\_TOKEN (40) APXDC 11  
 APXD\_SUBPOOL (18) APXDC 11  
 APXD\_TCTS (30) APXDC 11  
 APXD\_TCTS\_CHANGECOUNT (30) APXDC 11  
 APXD\_TCTS\_PTR (34) APXDC 11  
 APXD\_TDLA (BIT) APXDC 11  
 APXD\_TRPPF (28) APXDC 11  
 APXD\_TRPPF\_CHANGECOUNT (28) APXDC 11  
 APXD\_TRPPF\_PTR (2C) APXDC 11  
 APXD\_USTG\_SIZE 11  
 APXDC 11  
 area  
 BMS page control area DSECT, PGA 268  
 BMS work area, OSPWA 251  
 common system area generator, CSA 52  
 EDF communication area, EDF 110  
 event control area, ECA 109  
 EXEC interface communications area, EIC 113  
 fc VSAM work area, VSWA 502  
 file input/output area, FIOA 152  
 journal control area, JCA 194  
 map control area description, MCA 224  
 skp subtask control area, SKA 304  
 static storage area address list, SSA 329  
 storage accounting area, SAA 286  
 table manager static storage area, TMS 440  
 task control area - system area, TCADY 353  
 task control area, TCA 334  
 TCT transaction work area, TCTWA 414  
 temporary storage input/output area, TSIOA 461

area (*continued*)  
 terminal input/output area, TIOA 435  
 trace formatting control area, TRFCA 452  
 transient data input area, TDIA 422  
 transient data output area, TDOA 423  
 XRF LIFO stack area, WXL 555  
 XRF message manager global area, WMG 522  
 XRF takeover parameter area, WST 543  
 XRF trace control area, WTG 550  
 AREA\_LENGTH (4C) XCTRC 556  
 argument  
 file control EXEC argument list, FCE 128  
 program control EXEC argument list, PCE 256  
 XRF takeover initiation argument block, WTA 547  
 ARROW 1 APSTG 10  
 ARROW 1 DUA 95  
 ASMINIT (BIT) CSA 56  
 ASRA (BIT) DUA 93  
 ASRB (BIT) DUA 93  
 ASRD (BIT) DUA 93  
 ASRE (BIT) DUA 93  
 ATD 12  
 attach  
 attach table, ATD 12  
 authorised  
 dump domain authorised parameter block, DUAFB 98  
 authorized  
 authorized function blocks, AFCB 2  
 AUTO\_INITIAL (BIT) DUA 92  
 autoinstall  
 autoinstall statistics, A04 15  
 program manager autoinstall common area, PGACC 269  
 VTAM autoinstall work element, TCTWE 415  
 automatic  
 automatic initiate descriptor, AID 6  
 AUTOSWITCH (BIT) DUA 92  
 AUTOSWITCH\_OFF 0 DUA 97  
 AUTOSWITCH\_ON 0 DUA 97  
 AXI\_LOADED (BIT) DXPS 103

## B

BACKPTR (5C) XCTRC 556  
 BDY16 4 DUA 95  
 BDY16GROUND 4 DUA 95  
 BID\_PTR (14) ZGRP 603  
 BID\_RH (9B) ZGRP 602  
 BID\_RU (9E) ZGRP 602  
 BID\_SEQ (99) ZGRP 602  
 BIFARG (15) EICD1 116  
 BIFCVDA (21) EICD1 116  
 BIFCVDFL (25) EICD1 116  
 BIFENTRY (0) EICD1 116  
 BIFEQUUSA (15) EICD1 116  
 BIFFLAGS (C) EICD1 116  
 BIFNAME (0) EICD1 116  
 BIFNEQUS (11) EICD1 116  
 BIFNEXT (D) EICD1 116  
 BIFXPTR (58) EICD1 114  
 BINAPACE 603  
 BINARCH1 (F) ZGRP 603  
 BINAVFS 603  
 BINBKFS 603  
 BINBPACE (C) ZGRP 603  
 BINCLSS 603  
 BINCMNP2 603  
 BINCONF (BIT) ZGRP 603  
 BINCRCTL 604  
 BINCSBK 603  
 BIND (0) ZGRP 603  
 BIND\_PTR (0) ZGRP 603  
 BINES (BIT) ZGRP 603  
 BINFLG0 603  
 BINFLG1 603  
 BINFLG2 (17) ZGRP 603  
 BINFLG3 (18) ZGRP 604  
 BINFM (1) ZGRP 603  
 BINFMTY (0) ZGRP 603  
 BINGDSVF (BIT) ZGRP 603  
 BINLTDRC 604  
 BINLULEV (E) ZGRP 603  
 BINLUP (D) ZGRP 603

BINPRIM (1B) ZGRP 604  
 BINPRIMH (BIT) ZGRP 603  
 BINPRIML (1A) ZGRP 604  
 BINPRUSZ (A) ZGRP 603  
 BINPSCHR (E) ZGRP 603  
 BINPSS (BIT) ZGRP 603  
 BINPV (BIT) ZGRP 603  
 BINRSPACE (8) ZGRP 603  
 BINSECNH 603  
 BINSRSPACE (B) ZGRP 603  
 BINSRUSZ (9) ZGRP 603  
 BINTS (2) ZGRP 603  
 BINUSE (24) ZGRP 604  
 BINUSEL (23) ZGRP 604  
 BIS\_PS\_DATA (85) ZGRP 602  
 BIS\_PSRH (87) ZGRP 602  
 BIS\_PSRU (8A) ZGRP 602  
 BIS\_PSEQ (85) ZGRP 602  
 BIS\_PTR (18) ZGRP 603  
 BIS\_SP\_DATA (8F) ZGRP 602  
 BIS\_SPRH (91) ZGRP 602  
 BIS\_SPRU (94) ZGRP 602  
 BIS\_SPSEQ (8F) ZGRP 602  
 block  
 BMS message control block, MCB 226  
 convdata block, CDBLK 45  
 cross region block, CRB 51  
 data interchange block, DIB 78  
 DBCTL scheduling block, DSB 81  
 DBCTL-CICS global block, DGB 75  
 dump domain authorised parameter block, DUAFB 98  
 EXEC interface block, EIB 112  
 file lasting access block, FLABC 153  
 file request anchor block, FRABC 167  
 function shipping request control block, XFR 563  
 partition set definition block, PSD 272  
 program language block, APLI 8  
 service request block, SRB 326  
 signon extension block, SNEX 316  
 subsystem anchor block, SAB 286  
 subtask management parameter block, SKRQ 307  
 table manager read lock block, TMELD 438  
 transaction abend control block, TACB 332  
 user exit program block, UEPB 497  
 XRF CAVM file control block, WFG 521  
 XRF CAVM static control block, WCS 517  
 XRF global control block, WCG 515  
 XRF internal interface block, WMI 524  
 XRF message queue anchor block, WMM 526  
 XRF process block, WDG 518  
 XRF process block, WXB 554  
 XRF takeover initiation argument block, WTA 547  
 BLOCK\_COUNT (50) XCTRC 556  
 BLOCK\_HEADER (0) DCR 66  
 blocks  
 authorized function blocks, AFCB 2  
 dump domain control blocks, DUA 89  
 interregion control blocks, IRC 187  
 persistent sessions control blocks, ZGRP 600  
 BMS  
 BMS map object DSECT, MAP 219  
 BMS message control block, MCB 226  
 BMS message control record DSECT, MCR 228  
 BMS page control area DSECT, PGA 268  
 BMS work area, OSPWA 251  
 BMSALEND (13) MAP 222  
 BMSALIAS (0) MAP 221  
 BMSALLNG (0) MAP 221  
 BMSALTEQ 221  
 BMSALTYP (1) MAP 221  
 BMSAPR (6) MAP 220  
 BMSATNO (29) MAP 220  
 BMSCURSR (1A) MAP 220  
 BMSDAL (30) MAP 221  
 BMSDATB (BIT) MAP 220  
 BMSDATTS (3E) MAP 221  
 BMSDELDM 219  
 BMSDESCO (26) MAP 220  
 BMSFA (5) MAP 221  
 BMSFDCM (BIT) MAP 221  
 BMSFDD (BIT) MAP 221  
 BMSFDFB (4) MAP 221  
 BMSFDGFD (BIT) MAP 221

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BMSFDGFE (BIT) MAP 221  
BMSFDJR (BIT) MAP 221  
BMSFDJZ (BIT) MAP 221  
BMSFDNF (BIT) MAP 221  
BMSFDNPD (BIT) MAP 221  
BMSFEA (8) MAP 221  
BMSFEAL (C) MAP 221  
BMSFL (2) MAP 221  
BMSFLD (0) MAP 221  
BMSFLDSL (4A) MAP 221  
BMSFLDSP (4B) MAP 221  
BMSFPP (6) MAP 221  
BMSFPP (0) MAP 221  
BMSFPP\_BYTE1 (0) MAP 221  
BMSFPP\_BYTE2 (1) MAP 221  
BMSFSL (0) MAP 221  
BMSFXC (8) MAP 221  
BMSFXH (A) MAP 221  
BMSFXP (9) MAP 221  
BMSFXV (B) MAP 221  
BMSIPR 220  
BMSMAL (2E) MAP 221  
BMSMAPH (0) MAP 220  
BMSMARBG (BIT) MAP 220  
BMSMARG (1C) MAP 220  
BMSMARGF (BIT) MAP 220  
BMSMARGL (BIT) MAP 220  
BMSMARGR (BIT) MAP 220  
BMSMATTS (32) MAP 221  
BMSMCA (2A) MAP 221  
BMSMDA (4) MAP 220  
BMSMHEXT (BIT) MAP 220  
BMSMHLL (0) MAP 220  
BMSMI (21) MAP 220  
BMSMI16 (BIT) MAP 220  
BMSMI2 (29) MAP 220  
BMSMI2RD (BIT) MAP 220  
BMSMI2RM (BIT) MAP 220  
BMSMIAL (BIT) MAP 220  
BMSMICL (BIT) MAP 220  
BMSMIH (BIT) MAP 220  
BMSMIS (BIT) MAP 220  
BMSMIT (BIT) MAP 220  
BMSMIXD (BIT) MAP 220  
BMSMIXM (BIT) MAP 220  
BMSML (1D) MAP 220  
BMSMNAME (8) MAP 220  
BMSMODE (18) MAP 220  
BMSMODI (BIT) MAP 220  
BMSMODIO 1 MAP 222  
BMSMODO (BIT) MAP 220  
BMSMODOF 220  
BMSMODOR (BIT) MAP 220  
BMSMODTC (BIT) MAP 220  
BMSMS (10) MAP 220  
BMSMSC (20) MAP 220  
BMSMSCN 1 MAP 222  
BMSMSCP (26) MAP 220  
BMSMSCS 1 MAP 222  
BMSMSEA (2A) MAP 220  
BMSMSHEA (C) MAP 219  
BMSMSHON (BIT) MAP 220  
BMSMSI (14) MAP 220  
BMSMSL (1F) MAP 220  
BMSMSLN 1 MAP 222  
BMSMSLS 1 MAP 222  
BMSMSO (16) MAP 220  
BMSMSSL (12) MAP 220  
BMSMSTC 220  
BMSMSTCW (BIT) MAP 220  
BMSMSTDN 220  
BMSMSTDY 1 MAP 222  
BMSMSTR2 (22) MAP 220  
BMSMSTR3 (23) MAP 220  
BMSMSTR4 (24) MAP 220  
BMSMSTR5 (25) MAP 220  
BMSMSTRB (BIT) MAP 220  
BMSMSTRE (BIT) MAP 220  
BMSMSTRI (BIT) MAP 220  
BMSMSTRM (BIT) MAP 220  
BMSMSTRO (BIT) MAP 220  
BMSMSTRS (BIT) MAP 220  
BMSMSWCC (28) MAP 220  
BMSMT (0) MAP 220  
BMSMTF 1 MAP 222  
BMSMTI (0) MAP 219  
BMSMW (1E) MAP 220  
BMSNAME (0) MAP 219  
BMSOFFLG (12) MAP 221  
BMSOFMGS 222  
BMSOFNME (A) MAP 221  
BMSOGNME (2) MAP 221  
BMSOPR (4) MAP 220  
BMSTABM (0) MAP 219  
BMSTFEA (12) MAP 219  
BMSTFL (10) MAP 219  
BMSTFMH (BIT) MAP 219  
BMSTFMI 219  
BMSTFMV 219  
BMSTFN 219  
BMSTRL (8) MAP 219  
BMSWCC (19) MAP 220  
BMSXATTR (8) MAP 221  
BMSXMSEA (4F) MAP 221  
BMXACTLN (356) OSPWA 255  
BMXARRAY (33C) OSPWA 255  
BMXATTR (35C) OSPWA 255  
BMXBUF (362) OSPWA 255  
BMXCOUNT (336) OSPWA 255  
BMXDATA (358) OSPWA 255  
BMXELEM (344) OSPWA 255  
BMXFDFB (353) OSPWA 255  
BMXINDEX (338) OSPWA 255  
BMXINTAB (364) OSPWA 256  
BMXLEN (BIT) OSPWA 255  
BMXMAP (34C) OSPWA 255  
BMXMAPCT (334) OSPWA 255  
BMXMAPLN (354) OSPWA 255  
BMXMAPOF (360) OSPWA 255  
BMXMAPST (344) OSPWA 255  
BMXNEXT (340) OSPWA 255  
BMXVAR (BIT) OSPWA 255  
BPS\_ATOM\_ID 582  
BPS\_BIND\_IMAGE (0) ZCQ 583  
BPS\_BIND\_IN\_USE (4) ZCQ 582  
BPS\_BIND\_LENGTH (0) ZCQ 583  
BPS\_BIND\_STRING (1) ZCQ 583  
BPS\_C\_MAXSIZE 4 ZCQ 588  
BPS\_CONN (BIT) ZCQ 582  
BPS\_CRYPT (1A) ZCQ 583  
BPS\_CRYPT\_MODE (1B) ZCQ 583  
BPS\_EXIST\_BITS (0) ZCQ 583  
BPS\_FIXED\_VARS (0) ZCQ 583  
BPS\_FORWARD\_PTR (0) ZCQ 582  
BPS\_LENGTH (4) ZCQ 582  
BPS\_NOREPLACE 582  
BPS\_OVERLAY\_ID (8) ZCQ 582  
BPS\_PLUN\_LENGTH (0) ZCQ 583  
BPS\_PLUN\_STRING (1) ZCQ 583  
BPS\_PLUNAME (0) ZCQ 583  
BPS\_POOL (BIT) ZCQ 582  
BPS\_PWORD (0) ZCQ 584  
BPS\_PWORD\_LENGTH (0) ZCQ 584  
BPS\_PWORD\_STRING (1) ZCQ 584  
BPS\_RTC (6) ZCQ 582  
BPS\_SESS (BIT) ZCQ 582  
BPS\_SHIPPED\_X (BIT) ZCQ 582  
BPS\_SLU\_NAME (0) ZCQ 583  
BPS\_SLUN\_LENGTH (0) ZCQ 583  
BPS\_SLUN\_STRING (1) ZCQ 583  
BPS\_SUBTYPE (7) ZCQ 582  
BPS\_TRACE\_YES\_X 582  
BPS\_TYPE\_BITS (BIT) ZCQ 582  
BPS\_URC\_LENGTH (0) ZCQ 583  
BPS\_URC\_STRING (1) ZCQ 583  
BPS\_URCORRELATOR (0) ZCQ 583  
BPS\_USERD\_LENGTH (0) ZCQ 583  
BPS\_USERD\_STRING (1) ZCQ 583  
BPS\_USERDATA (0) ZCQ 583  
BPS\_USID (0) ZCQ 584  
BPS\_USID\_LENGTH (0) ZCQ 584  
BPS\_USID\_STRING (1) ZCQ 584  
BPS\_X\_MAXSIZE 4 ZCQ 588  
BPSBINDI (0) ZCQ 583  
BPSBINDL (0) ZCQ 583  
BPSBINDS (1) ZCQ 583

BRARC 30  
BROWSID (108) SPI 324  
brxa  
  brxa definition, BRARC 30  
BRXA\_ABEND\_CODE (14) BRARC 32  
BRXA\_ADS\_DESCRIPTOR\_PTR 40  
BRXA\_AID (26) BRARC 36  
BRXA\_ALARM\_INDICATOR (4D) BRARC 40  
BRXA\_ALTERNATE\_SCREEN\_HEIGHT (48) BRARC 33  
BRXA\_ALTERNATE\_SCREEN\_WIDTH (4A) BRARC 33  
BRXA\_BMS\_COMMAND (0) BRARC 40  
BRXA\_BRDATA\_LEN (98) BRARC 33  
BRXA\_BRDATA\_PTR (94) BRARC 33  
BRXA\_BRIDGE\_TRANID (8) BRARC 32  
BRXA\_BUFFER\_INDICATOR (31) BRARC 38  
BRXA\_CALL\_EXIT\_FOR\_SYNC (84) BRARC 33  
BRXA\_CALLING\_PROG (18) BRARC 32  
BRXA\_COMMAND\_AREA\_EYECATCHER (0) BRARC 36  
BRXA\_COMMAND\_AREA\_LEN (1C) BRARC 30  
BRXA\_COMMAND\_AREA\_PTR (18) BRARC 30  
BRXA\_COMMAND\_CODE (A) BRARC 36  
BRXA\_COMMAND\_COMMON (0) BRARC 36  
BRXA\_CPOSN (24) BRARC 36  
BRXA\_CTLCHAR 38  
BRXA\_CURSOR (44) BRARC 40  
BRXA\_DATA\_INDICATOR (4A) BRARC 40  
BRXA\_DEFRESP\_INDICATOR (33) BRARC 38  
BRXA\_ERASE\_INDICATOR (27) BRARC 36  
BRXA\_ERASEUP\_INDICATOR (4B) BRARC 40  
BRXA\_EXPLICIT 40  
BRXA\_FACILITY\_KEEP\_TIME (38) BRARC 32  
BRXA\_FACILITY\_TOKEN (3C) BRARC 33  
BRXA\_FACILITYLIKE (34) BRARC 32  
BRXA\_FMT\_RESPONSE (2A) BRARC 36  
BRXA\_FORMATTER (7C) BRARC 33  
BRXA\_FREEKB\_INDICATOR (4C) BRARC 40  
BRXA\_FROM\_LEN (14) BRARC 36  
BRXA\_FROM\_PTR (10) BRARC 36  
BRXA\_FRSET\_INDICATOR (4E) BRARC 40  
BRXA\_FUNCTION\_CODE (8) BRARC 36  
BRXA\_HEADER (0) BRARC 30  
BRXA\_HEADER\_EYECATCHER (0) BRARC 30  
BRXA\_HEADER\_LENGTH (8) BRARC 30  
BRXA\_HEADER\_VERSION\_NO (C) BRARC 30  
BRXA\_HOURS (A4) BRARC 33  
BRXA\_IC\_COMMAND (0) BRARC 40  
BRXA\_IDENTIFIER (4C) BRARC 33  
BRXA\_INPUT\_MSG\_LEN (2C) BRARC 30  
BRXA\_INPUT\_MSG\_PTR (28) BRARC 30  
BRXA\_INTERVAL (9C) BRARC 33  
BRXA\_INT0\_LEN (1C) BRARC 36  
BRXA\_INT0\_PTR (18) BRARC 36  
BRXA\_INVITE\_INDICATOR (34) BRARC 38  
BRXA\_LAST\_INDICATOR (28) BRARC 36  
BRXA\_LOAD\_ADS\_DESCRIPTOR (32) BRARC 32  
BRXA\_MAP 40  
BRXA\_MAPSET 40  
BRXA\_MINUTES (A8) BRARC 33  
BRXA\_MSG\_COMMAND (0) BRARC 41  
BRXA\_MSR\_DATA (46) BRARC 40  
BRXA\_MSR\_INDICATOR (4F) BRARC 40  
BRXA\_NEXTTRANID (10) BRARC 32  
BRXA\_NEXTTRANID\_SOURCE (85) BRARC 33  
BRXA\_OUTPUT\_MSG\_LEN (34) BRARC 30  
BRXA\_OUTPUT\_MSG\_PTR (30) BRARC 30  
BRXA\_QUEUE (38) BRARC 40  
BRXA\_READ\_NOWAIT\_ISSUED (2B) BRARC 36  
BRXA\_REQUEST\_NEXT\_ISSUED (2C) BRARC 36  
BRXA\_RESP (20) BRARC 36  
BRXA\_RESP2 (22) BRARC 36  
BRXA\_ROLLBACK (31) BRARC 40  
BRXA\_RTERMID 40  
BRXA\_RTRANSID (34) BRARC 40  
BRXA\_SCREEN\_HEIGHT (44) BRARC 33  
BRXA\_SCREEN\_WIDTH (46) BRARC 33  
BRXA\_SECONDS (AC) BRARC 33  
BRXA\_START\_AFTER (B0) BRARC 33  
BRXA\_START\_AT (B1) BRARC 33  
BRXA\_STARTCODE 32  
BRXA\_STRFIELD\_INDICATOR (32) BRARC 38  
BRXA\_SYNC\_COMMAND (0) BRARC 40  
BRXA\_TC\_COMMAND (0) BRARC 38  
BRXA\_TEXT\_TYPE (50) BRARC 40

BRXA\_TIME (A0) BRARC 33  
BRXA\_TRACE (33) BRARC 32  
BRXA\_TRAN\_AREA\_EYECATCHER (0) BRARC 32  
BRXA\_TRANID (C) BRARC 32  
BRXA\_TRANSACTION\_AREA (0) BRARC 32  
BRXA\_TRANSACTION\_AREA\_LEN (14) BRARC 30  
BRXA\_TRANSACTION\_AREA\_PTR (10) BRARC 30  
BRXA\_USER\_ABEND\_CODE (C) BRARC 36  
BRXA\_USER\_AREA\_LEN (24) BRARC 30  
BRXA\_USER\_AREA\_PTR (20) BRARC 30  
BRXA\_USERID (20) BRARC 32  
BRXA\_WAIT\_INDICATOR (29) BRARC 36  
BRXA\_XM\_COMMAND (0) BRARC 38  
BSAM\_RSA\_PTR (24) DUA 93  
BSAM\_SAVE\_AREA (0) DUA 94  
BTB (0) DUA 91  
BTB\_ARROW (2) DUA 91  
BTB\_BLOCK\_NAME (8) DUA 91  
BTB\_DFH (3) DUA 91  
BTB\_DOMID (6) DUA 91  
BTB\_LENGTH (0) DUA 91  
BTB\_NEXT (10) DUA 91  
BTB\_PREFIX (0) DUA 91  
BTE (0) DUA 92  
BTE\_DUMPICODE (C) DUA 92  
BTE\_NEXT (0) DUA 92  
BTE\_PREV (4) DUA 92  
BTE\_TOKEN (8) DUA 92  
BTEBLOCK\_SIZE 4 DUA 95  
BTTBLOCK\_NAME 8 DUA 94  
buffer  
  shared ts queue server buffer statistics, XQS2D 570  
  transient data buffer control, MBCA 222  
BUFFER\_PTR (C8) DUA 89  
builder  
  builder parameter set, ZCQ 582  
BUSY\_MSG\_ISSUED (BIT) XCTRC 557

## C

CAVM  
  XRF CAVM file control block, WFG 521  
  XRF CAVM notify exit, WNF 532  
  XRF CAVM state manager parameter list, WSS 542  
  XRF CAVM state manager record description, WSM 538  
  XRF CAVM static control block, WCS 517  
  XRF CAVM surveillance exits, WSX 544  
  XRF CAVM surveillance status, WSA 534  
  XRF CAVM surveillance, WSR 541  
  XRF CAVM time-of-day clock difference, WSC 537  
CC\_DU\_STATE (0) DUA 92  
CCBFABTM (BIT) IRC 188  
CCBFABTQ (BIT) IRC 188  
CCBFNCNT (BIT) IRC 188  
CCBFDTNF (BIT) IRC 188  
CCBFDWP (BIT) IRC 188  
CCBFFTRM (BIT) IRC 188  
CCBFNWCN (BIT) IRC 188  
CCBFPRIM (BIT) IRC 188  
CCBFSDWT 188  
CCBFSWFS (BIT) IRC 188  
CCBFSWIT (BIT) IRC 188  
CCBFTERM (BIT) IRC 188  
CCBFUNEX (BIT) IRC 188  
CCBIRCWT (BIT) IRC 188  
CCIN\_ALREADY\_INSTALLED 2 ZCCPS 581  
CCIN\_APPLID (5) ZCCPS 578  
CCIN\_APPLID\_LENGTH (0) ZCCPS 578  
CCIN\_APPLID\_PARM (0) ZCCPS 578  
CCIN\_APPLID\_PARM\_TYPE (4) ZCCPS 578  
CCIN\_APPLID\_TYPE 1 ZCCPS 581  
CCIN\_BIGENDIAN (BIT) ZCCPS 579  
CCIN\_CAPABILITIES\_LENGTH (0) ZCCPS 578  
CCIN\_CAPABILITIES\_PARM (0) ZCCPS 578  
CCIN\_CAPABILITIES\_PARM\_TYPE (4) ZCCPS 579  
CCIN\_CAPABILITIES\_TYPE 1 ZCCPS 581  
CCIN\_CCINATTACH\_REQS (8) ZCCPS 579  
CCIN\_CLIENT\_CAPABILITIES (6) ZCCPS 579  
CCIN\_CLIENT\_FUNCTION 1 ZCCPS 581  
CCIN\_CLIENT\_INSTALL\_REQUEST 1 ZCCPS 581  
CCIN\_CLIENT\_INSTALL\_RESPONSE 1 ZCCPS 581  
CCIN\_CLIENT\_UNINSTALL\_REQUEST 1 ZCCPS 581

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CCIN\_CODEPAGE (5) ZCCPS 578  
 CCIN\_CODEPAGE\_LENGTH (0) ZCCPS 578  
 CCIN\_CODEPAGE\_PARM (0) ZCCPS 578  
 CCIN\_CODEPAGE\_PARM\_TYPE (4) ZCCPS 578  
 CCIN\_CODEPAGE\_TYPE 1 ZCCPS 581  
 CCIN\_DELETE\_ENTRIES (BIT) ZCCPS 579  
 CCIN\_DISASTER 1 ZCCPS 581  
 CCIN\_EBCDIC 579  
 CCIN\_ECIATTACH\_PASSWORD (6) ZCCPS 579  
 CCIN\_ECIATTACH\_USERID (5) ZCCPS 579  
 CCIN\_ENVIRON\_TYPE (5) ZCCPS 579  
 CCIN\_EPIATTACH\_PASSWORD (8) ZCCPS 579  
 CCIN\_EPIATTACH\_USERID (7) ZCCPS 579  
 CCIN\_ERROR 1 ZCCPS 581  
 CCIN\_EXCEPTION 1 ZCCPS 581  
 CCIN\_EXIT\_PROCESSING 579  
 CCIN\_FUNCTION (5) ZCCPS 578, 579  
 CCIN\_GROUP (4) ZCCPS 578, 579  
 CCIN\_HEADER (0) ZCCPS 578, 579  
 CCIN\_INSTALL\_CANCELLED 2 ZCCPS 581  
 CCIN\_INVALID\_CODEPAGE 2 ZCCPS 581  
 CCIN\_INVALID\_REQUEST 2 ZCCPS 581  
 CCIN\_LEN (0) ZCCPS 578, 579  
 CCIN\_NORMAL 1 ZCCPS 581  
 CCIN\_OK 2 ZCCPS 581  
 CCIN\_PARMNUM (A) ZCCPS 578, 579  
 CCIN\_REASON (8) ZCCPS 578, 579  
 CCIN\_RESPONSE (7) ZCCPS 578, 579  
 CCIN\_SECURITY\_LENGTH (0) ZCCPS 579  
 CCIN\_SECURITY\_PARM (0) ZCCPS 579  
 CCIN\_SECURITY\_PARM\_TYPE (4) ZCCPS 579  
 CCIN\_SECURITY\_TYPE 1 ZCCPS 581  
 CCIN\_SERVER\_BUSY 2 ZCCPS 581  
 CCIN\_TCTUA\_COMMAREA (BIT) ZCCPS 579  
 CCIN\_TRANSLATE\_CAPABLE (BIT) ZCCPS 579  
 CCIN\_VERSION (6) ZCCPS 578, 579  
 CDBCOMPL (0) CDBLK 45  
 CDBCONF (5) CDBLK 45  
 CDBERR (6) CDBLK 45  
 CDBERRCD (7) CDBLK 45  
 CDBFREE (2) CDBLK 45  
 CDBLK 45  
 CDBRECV (3) CDBLK 45  
 CDBRSVD (C) CDBLK 45  
 CDBSIG (4) CDBLK 45  
 CDBSYNC (1) CDBLK 45  
 CDBSYNRB (B) CDBLK 45  
 cegn  
 gntran stub parameter list for cegn, SNGN 319  
 CEGN\_EYECATCHER (0) SNGN 319  
 CEGN\_EYECATCHER\_VALUE 8 SNGN 319  
 CEGN\_TCTTE\_ADDR (10) SNGN 319  
 CEGN\_TIMEOUT\_REASON (14) SNGN 319  
 CEGN\_TIMEOUT\_TIME (8) SNGN 319  
 cf  
 cfdt server cf statistics, CFS6D 46  
 named counter server cf statistics, NCS4D 243  
 shared ts queue server cf statistics, XQS1D 569  
 cfdt  
 cfdt server cf statistics, CFS6D 46  
 cfdt server request statistics, CFS8D 48  
 cfdt server storage statistics, CFS9D 49  
 cfdt server table statistics, CFS7D 47  
 CFS6D 46  
 CFS7D 47  
 CFS8D 48  
 CFS9D 49  
 CHAIN\_PTR (8) ZGRP 602  
 CHKRLSAV (298) SIP 291  
 CICS  
 CICS client, ZCCPS 578  
 CICS VTAM rpl extension, ZRPL 608  
 cics-dbctl  
 cics-dbctl XRF user exit parameter list, DXUEP 105  
 CICS\_ERROR\_ACCESS\_REGISTERS (90) KERRD 197  
 CICS\_ERROR\_ACCESS\_REGST (90) KERRD 197  
 CICS\_ERROR\_AR\_MODE (BIT) KERRD 197  
 CICS\_ERROR\_BC\_PSW (30) KERRD 197  
 CICS\_ERROR\_DATA (30) KERRD 197  
 CICS\_ERROR\_EC\_ADD (40) KERRD 197  
 CICS\_ERROR\_EC\_BYTE3 197  
 CICS\_ERROR\_EC\_PSW (38) KERRD 197  
 CICS\_ERROR\_INSTRUCTION\_ADDR (48) KERRD 197  
 CICS\_ERROR\_KEY (4C) KERRD 197  
 CICS\_ERROR\_REGISTERS (50) KERRD 197  
 CICS\_ERROR\_REGST 197  
 cics/db2  
 cics/db2 global statistics, D2GDS 106  
 cics/db2 resource statistics, D2RDS 108  
 CINIT (BIT) CSA 57  
 CINTISA (BIT) LFM 202  
 CKDLTMAX (8) WSC 537  
 CKDLTMIN (0) WSC 537  
 CKDMVSI (14) WSC 537  
 CKDSHIFT (BIT) WSC 537  
 CKDTOD (10) WSC 537  
 CL\_UH\_END (C) LGGF 206  
 CL\_UH\_JOURNAL\_TYPE (4) LGGF 206  
 CL\_UH\_LENGTH 206  
 CL\_UH\_PREFIX\_LENGTH (8) LGGF 206  
 CL\_UH\_RSVD1 (6) LGGF 206  
 CL\_USER\_HEADER (0) LGGF 206  
 client  
 CICS client, ZCCPS 578  
 CLIENT\_STATE (70) RMUXC 279  
 clock  
 XRF CAVM time-of-day clock difference, WSC 537  
 CLOSE\_MSG (BIT) DUA 90  
 CLT 50  
 CLT1ADI2 (10) CLT 50  
 CLT1CANN (8) CLT 50  
 CLT1END (0) CLT 50  
 CLT1LEN (BIT) CLT 50  
 CLT1SAPL (0) CLT 50  
 CLT2ADDR (0) CLT 51  
 CLT2LEN (BIT) CLT 51  
 CLTCADDR 51  
 CLTCCEC (1) CLT 51  
 CLTCCOM (BIT) CLT 51  
 CLTCCOML (2) CLT 51  
 CLTCCSAM (BIT) CLT 51  
 CLTCCSEP (BIT) CLT 51  
 CLTCDATA (2) CLT 51  
 CLTCDS (0) CLT 51  
 CLTCTEXT (3) CLT 51  
 CLTCTYPE (0) CLT 51  
 CLTCWTO (BIT) CLT 51  
 CLTI1DS (0) CLT 50  
 CLTI2DS (0) CLT 51  
 CLTIIND1 (4) CLT 50  
 CLTIJCHR (3) CLT 50  
 CLTIJES2 (BIT) CLT 50  
 CLTIJES3 (BIT) CLT 50  
 CLTIJESX (2) CLT 50  
 CLTIVER 50  
 CLTIVER1 (BIT) CLT 50  
 CLTJJ2ID (10) CLT 50  
 CLTJJ3ID (10) CLT 50  
 CLTJJES (BIT) CLT 50  
 CLTJJESN (C) CLT 50  
 CLTJMVS (8) CLT 50  
 CLTJTAB (BIT) CLT 50  
 CLTJTBL2 (BIT) CLT 50  
 CLTJTBL3 (BIT) CLT 50  
 CMODCONN (E) MCTDR 229  
 CMODHEAD (12) MCTDR 229  
 CMODIDNT (9) MCTDR 229  
 CMODLENG (C) MCTDR 229  
 CMODNAME (0) MCTDR 229  
 CMODNEXT (BIT) MCTDR 229  
 CMODOFST (10) MCTDR 229  
 CMODTYPE (8) MCTDR 229  
 CNNDX (B0) SPI 324  
 COBINIT (BIT) CSA 57  
 code  
 system logical device code table, SLDC 309  
 tc local logical device code table, LLDC 211  
 CODXPTR (50) EICD1 114  
 COLDEX 302  
 COLDST (BIT) SIT 302  
 COMARG0LN (2) EICD1 117  
 COMEND (6) EICD1 117  
 COMFN (0) EICD1 117  
 COMIND (4) EICD1 117  
 COMINFO (0) EICD1 117  
 COMKEYS (3) EICD1 117

COMM\_PARMLIST (0) WBCDC 505  
COMM\_PARMLIST (0) WBTC 513  
command  
  command level interface dsects, EIPDS 118  
  command list table, CLT 50  
commarea  
  node error program commarea, NEPCA 245  
  program error program commarea, PEP 265  
  program manager autoinstall commarea, PGACC 269  
  TEP commarea mapper and descriptor, TEPCA 431  
  transaction restart program commarea, XMRSC 568  
COMMIT\_COMPLETE (BIT) RMUXC 279  
common  
  common system area generator, CSA 52  
  trace domain - common structures, TRA 447  
  trace domain - common structures, TRBL 450  
communication  
  EDF communication area, EDF 110  
communications  
  EXEC interface communications area, EIC 113  
COMPATF (5C) EICD1 114  
COMPATF0 (5C) EICD1 114  
COMPBIF (BIT) EICD1 114  
COMPKPAR (BIT) EICD1 114  
COMPNEWF (BIT) EICD1 114  
COMXPTR (0) EICD1 117  
CON1 (0) DUA 94  
CON1A (1) DUA 94  
CON2 (4) DUA 94  
CON3 (5) DUA 94  
CON4 (10) DUA 94  
condition  
  terminal abnormal condition line entry, TACLE 333  
connection  
  fepi connection statistics, A23 28  
CONNINPR (BIT) SPI 324  
CONT\_INDEX (0) DCR 67  
control  
  application file control table, AFCT 4  
  BMS message control block, MCB 226  
  BMS message control record DSECT, MCR 228  
  BMS page control area DSECT, PGA 268  
  destination control table, DCT 69  
  dump domain control blocks, DUA 89  
  event control area, ECA 109  
  EXEC terminal control, ETC 127  
  file control dataset name, DSN 87  
  file control EXEC argument list, FCE 128  
  file control log record format, FCLGC 135  
  file control shared resources, FCTSR 149  
  file control static storage, FCS 139  
  file control statistics, A17 23  
  file control table entry layout, FCT 145  
  file control transformer table entries, FCENT 134  
  function shipping request control block, XFR 563  
  interregion control blocks, IRC 187  
  interval control element, ICE 172  
  interval control EXEC parameter list, ICUE 174  
  journal control area, JCA 194  
  map control area description, MCA 224  
  persistent sessions control blocks, ZGRP 600  
  program control EXEC argument list, PCE 256  
  program control user exits DSECT, PCUES 260  
  receive any control element, TCPRA 357  
  recovery control static storage, RCS 277  
  set storage control, SETCC 289  
  skp subtask control area, SKA 304  
  task control area - system area, TCADY 353  
  task control area, TCA 334  
  terminal control table line entry, TCTLE 368  
  terminal control table prefix, TCTFX 359  
  trace formatting control area, TRFCA 452  
  transaction abend control block, TACB 332  
  transient data buffer control, MBCA 222  
  transient data control intervals, TDCI 421  
  transient data VSAM control, MRC 240  
  transient data wait control, MWCB 242  
  XRF CAVM file control block, WFG 521  
  XRF CAVM static control block, WCS 517  
  XRF global control block, WCG 515  
  XRF trace control area, WTG 550  
CONTROL\_BLOCK\_LENGTH 2 APSTG 10  
CONTROL\_BLOCK\_NAME 8 APSTG 10  
convdata  
  convdata block, CDBLK 45  
converter  
  web interface converter parms, WBCDC 505  
CONVERTER\_EYECATCHER (0) WBCDC 505  
CONVERTER\_FUNCTION (A) WBCDC 505  
CONVERTER\_PARMLIST (14) WBCDC 505  
CONVERTER\_PARAMS (0) WBCDC 505  
CONVERTER\_REASON (10) WBCDC 505  
CONVERTER\_RESPONSE (C) WBCDC 505  
CONVERTER\_VERSION (8) WBCDC 505  
CONVERTER\_VOLATILE (9) WBCDC 505  
COPY\_TAB\_LEN (70) DUA 93  
COPY\_TAB\_PTR (6C) DUA 93  
counter  
  named counter server of statistics, NCS4D 243  
  named counter server storage statistics, NCS5D 244  
CR\_1ST\_LEG 0 TCTTE 411  
CR\_2ND\_LEG 0 TCTTE 411  
CR\_2PC\_SESS\_FAIL 390, 394, 395  
CR\_2PC\_SESS\_FAIL (BIT) TCTTE 389  
CR\_3RD\_LEG 0 TCTTE 411  
CR\_ABORT\_FORBIDDEN (BIT) TCTTE 389, 390, 394, 395  
CR\_ABORT\_RECEIVED (BIT) TCTTE 389, 390, 394, 395  
CR\_BACKOUT\_SEQ\_INPUT (0) TCTTE 390  
CR\_BACKOUT\_SEQ\_INPUT (14) TCTTE 394  
CR\_BACKOUT\_SEQ\_INPUT (14C) TCTTE 395  
CR\_BACKOUT\_SEQ\_NOS (0) TCTTE 390  
CR\_BACKOUT\_SEQ\_NOS (14) TCTTE 394  
CR\_BACKOUT\_SEQ\_NOS (14C) TCTTE 395  
CR\_BACKOUT\_SEQ\_OUTPUT (14E) TCTTE 395  
CR\_BACKOUT\_SEQ\_OUTPUT (16) TCTTE 394  
CR\_BACKOUT\_SEQ\_OUTPUT (2) TCTTE 390  
CR\_BIND\_LEG\_NUM 392  
CR\_BIND\_LEG\_NUM (BIT) TCTTE 392, 396  
CR\_BIND\_LOGGING (BIT) TCTTE 392, 396  
CR\_COMMIT\_SEQ\_INPUT (150) TCTTE 395  
CR\_COMMIT\_SEQ\_INPUT (18) TCTTE 394  
CR\_COMMIT\_SEQ\_INPUT (4) TCTTE 390  
CR\_COMMIT\_SEQ\_NOS (150) TCTTE 395  
CR\_COMMIT\_SEQ\_NOS (18) TCTTE 394  
CR\_COMMIT\_SEQ\_NOS (4) TCTTE 390  
CR\_COMMIT\_SEQ\_OUTPUT (152) TCTTE 395  
CR\_COMMIT\_SEQ\_OUTPUT (1A) TCTTE 394  
CR\_COMMIT\_SEQ\_OUTPUT (6) TCTTE 390  
CR\_COMMON (138) TCTTE 395  
CR\_COMMON\_STG (138) TCTTE 381  
CR\_CONV\_CORRELATOR (1) TCTTE 392  
CR\_CONV\_CORRELATOR (15A) TCTTE 396  
CR\_CONV\_CORRELATOR (2) TCTTE 392  
CR\_CONV\_CORRELATOR\_LEN 392, 396  
CR\_CONV\_CORRELATOR\_LEN (0) TCTTE 392  
CR\_CURRENT\_LINK 389, 395  
CR\_CURRENT\_LINK (0) TCTTE 388, 394  
CR\_FORGET\_NEEDED (140) TCTTE 395  
CR\_FORGET\_NEEDED (8) TCTTE 389, 394  
CR\_IRC (158) TCTTE 395  
CR\_LOGNAME 390, 394, 395  
CR\_LOGNAME (0) TCTTE 389  
CR\_LOGNAME\_DATA (1) TCTTE 389  
CR\_LOGNAME\_DATA (143) TCTTE 395  
CR\_LOGNAME\_DATA (B) TCTTE 390, 394  
CR\_LOGNAME\_LEN (0) TCTTE 389  
CR\_LOGNAME\_LEN (142) TCTTE 395  
CR\_LOGNAME\_LEN (A) TCTTE 390, 394  
CR\_LU61 (158) TCTTE 395  
CR\_LU61\_INBOUND\_PREPARE 393  
CR\_LU61\_INBOUND\_PREPARE (BIT) TCTTE 393, 395  
CR\_LU61\_INBOUND\_SPR (BIT) TCTTE 393, 395  
CR\_LU61\_PARTNER\_COLD (BIT) TCTTE 393, 394, 395  
CR\_LU61\_RESYNC\_DONE (BIT) TCTTE 393, 394, 395  
CR\_LU61\_RESYNC\_REQUIRED 393, 395  
CR\_LU61\_RESYNC\_REQUIRED (BIT) TCTTE 393  
CR\_LU61\_SECOND\_STSN\_EXPECTED (BIT) TCTTE 393, 394, 395  
CR\_LU62 (158) TCTTE 395  
CR\_OVERLAY\_STG1 (14C) TCTTE 381  
CR\_OVERLAY\_STG2 (158) TCTTE 381  
CR\_PEND\_RECOVERY\_IGNORE 1 TCTTE 411  
CR\_PEND\_RECOVERY\_NECESSARY 1 TCTTE 411  
CR\_PEND\_RECOVERY\_STATUS 389, 390, 394, 395  
CR\_PEND\_RECOVERY\_UNNECESSARY 1 TCTTE 411  
CR\_PENDING\_LINK (13C) TCTTE 395  
CR\_PENDING\_LINK (4) TCTTE 389, 394



"Restricted Materials of IBM"  
 Licensed Materials – Property of IBM

CR_PROTOCOL	391, 394, 395	CSA_RQMDANCH (CC)	CSA	54
CR_PROTOCOL (BIT)	TCTTE	CSA_THREADSafe (BIT)	CSA	56
CR_RELIABILITY_VOTE	393	CSAABPSW (17C)	CSA	55
CR_RELIABILITY_VOTE (BIT)	TCTTE	CSAACPNA (174)	CSA	57
CR_RESYNC_MASK	0	CSAAID31 (2B4)	CSA	59
CR_RESYNC_NEW	0	CSAAIDBA (94)	CSA	53
CR_RESYNC_OLD	0	CSAAIINN (40)	CSA	56
CR_RESYNC_TYPE	391	CSAAINAC (120)	CSA	54
CR_RESYNC_TYPE (BIT)	TCTTE	CSAALIGN (BIT)	CSA	58
CR_RESYNC_UNKNOWN	0	CSAAPDSN (348)	CSA	60
CR_SEQ_NOS	390	CSAAPEPN (350)	CSA	60
CR_SEQ_NOS (0)	TCTTE	CSAAPJCN (34C)	CSA	60
CR_SEQ_NOS (14)	TCTTE	CSAAPRDA (1B0)	CSA	57
CR_SEQ_NOS (14C)	TCTTE	CSAAPSTG (380)	CSA	60
CR_SHUNT_RECEIVED (BIT)	TCTTE	CSAAPSTN	60	
CR_STORAGE (138)	TCTTE	CSAAPTIM (378)	CSA	60
CR_UOW_BACKED_OUT	0	CSAAPTIN	60	
CR_UOW_COLD	0	CSAAPTIX (37C)	CSA	60
CR_UOW_COMMITTED	0	CSAAPTTRN (364)	CSA	60
CR_UOW_DISPOSITION (154)	TCTTE	CSAAPXDS	60	
CR_UOW_DISPOSITION (1C)	TCTTE	CSAATMSP (2C)	CSA	56
CR_UOW_DISPOSITION (8)	TCTTE	CSAATTCH	56	
CR_UOW_DISPOSITION_MASK	0	CSAAUGWA (2FC)	CSA	60
CR_UOW_INDOUBT	0	CSABASCL (16C)	CSA	54
CRB	51	CSABASTU (170)	CSA	54
CRBABND (BIT)	CRB	CSABFNAC (2E8)	CSA	59
CRBDLQTK (48)	CRB	CSABMS (2EC)	CSA	59
CRBDSTOK (64)	CRB	CSABMSFL (20E)	CSA	58
CRBEYE (0)	CRB	CSABMSPT	59	
CRBFLG1	51	CSABRFMA	54	
CRBIMQTK (40)	CRB	CSABRICA (F4)	CSA	57
CRBSCSMT	52	CSABRMSA (EC)	CSA	57
CRBSLCB (3C)	CRB	CSABRSAA (114)	CSA	54
CRBSTASV (50)	CRB	CSABRSPA (C0)	CSA	56
CRBSVCIN (58)	CRB	CSABRTCA (F0)	CSA	57
CRBSVCLS (8)	CRB	CSABTCCB	54	
CRBSVCSB (C)	CRB	CSAC14	1	CSA 62
CRBUSID	51	CSAC15	1	CSA 62
CREATCOM	324	CSAC16	1	CSA 62
cross		CSAC17	1	CSA 62
cross region block,	CRB	CSAC21	1	CSA 62
CSA	52	CSAC31	1	CSA 62
CSA_ABEND_CANCEL (BIT)	CSA	CSAC32	1	CSA 62
CSA_CEL_SERVICE_FLAG_BYTE1 (504)	CSA	CSAC33	1	CSA 62
CSA_CEL_SERVICE_FLAG_BYTE2 (505)	CSA	CSAC41	1	CSA 62
CSA_CEL_SERVICE_FLAG_BYTE3 (506)	CSA	CSAC51	1	CSA 62
CSA_CEL_SERVICE_FLAG_BYTE4 (507)	CSA	CSAC52	1	CSA 62
CSA_CEL_SERVICE_FLAGS (504)	CSA	CSAC53	1	CSA 62
CSA_CEL_SERVICE_ROUTINES (508)	CSA	CSACATDF (BIT)	CSA	58
CSA_CEL_SERVICE_VECTOR (500)	CSA	CSACATFL (208)	CSA	58
CSA_CEL_SERVICE_VECTOR_LENGTH (500)	CSA	CSACBDAN (70)	CSA	53
CSA_DFHGCAA_ADDRESS (508)	CSA	CSACDTA (4C)	CSA	52
CSA_DFHGCAA_AVAIL (BIT)	CSA	CSACEEF1 (C8)	CSA	56
CSA_DFHLEAS_ADDRESS (518)	CSA	CSACEEFG (C8)	CSA	56
CSA_DFHLEAS_AVAIL (BIT)	CSA	CSACEEIL (C4)	CSA	56
CSA_DFHLEDS_ADDRESS (51C)	CSA	CSACEEIN (BIT)	CSA	56
CSA_DFHLEDS_AVAIL (BIT)	CSA	CSACEELD (BIT)	CSA	56
CSA_DFHLEDT_ADDRESS (52C)	CSA	CSACEEPI (BC)	CSA	56
CSA_DFHLEDT_AVAIL (BIT)	CSA	CSACEEPT	57	
CSA_DFHLEFM_ADDRESS (514)	CSA	CSACEERA (D4)	CSA	57
CSA_DFHLEFM_AVAIL (BIT)	CSA	CSACEETL (D8)	CSA	57
CSA_DFHLEFQ_ADDRESS (524)	CSA	CSACELF1 (284)	CSA	59
CSA_DFHLEFQ_AVAIL (BIT)	CSA	CSACELFG (284)	CSA	59
CSA_DFHLEGM_ADDRESS (510)	CSA	CSACELIL (280)	CSA	59
CSA_DFHLEGM_AVAIL (BIT)	CSA	CSACELIN (BIT)	CSA	59
CSA_DFHLEGQ_ADDRESS (520)	CSA	CSACELLD (BIT)	CSA	59
CSA_DFHLEGQ_AVAIL (BIT)	CSA	CSACELMS (BIT)	CSA	59
CSA_DFHLERO_ADDRESS (530)	CSA	CSACELPT	59	
CSA_DFHLERO_AVAIL (BIT)	CSA	CSACELRA (290)	CSA	59
CSA_DFHLETR_ADDRESS (528)	CSA	CSACELTL (294)	CSA	59
CSA_DFHLETR_AVAIL (BIT)	CSA	CSACICNA (258)	CSA	59
CSA_DFHSCAA_ADDRESS (50C)	CSA	CSACICS (9E)	CSA	53
CSA_DFHSCAA_AVAIL (BIT)	CSA	CSACIKEY (8B)	CSA	53
CSA_DUMP_SUPPRESS (BIT)	CSA	CSACIMOD	54	
CSA_GLBLOPTS_SET (BIT)	CSA	CSACIREL (9F)	CSA	53
CSA_INIT (DC)	CSA	CSACJVM (180)	CSA	57
CSA_LE_OTE	57	CSACJVMG (18C)	CSA	57
CSA_PLB_SPTOKEN (E4)	CSA	CSACMPAC (168)	CSA	57
CSA_PLI_SUPPORTED (BIT)	CSA	CSACOBFG (264)	CSA	59
CSA_PROG_TYPE3 (BIT)	CSA	CSACOBIZ (124)	CSA	54
CSA_PTR (0)	DUA	CSACOBIL	59	
CSA_QUASIRENT (BIT)	CSA	CSACOBIN	59	
CSA_REUSABLE_RUWA (BIT)	CSA	CSACOBPT (268)	CSA	59

CSACOBRA (270) CSA 59	CSAEIQPF (43C) CSA 61
CSACOBTK (3A8) CSA 60	CSAEIQPN (43B) CSA 61
CSACOMTK (90) CSA 56	CSAEIQRQ (4C4) CSA 61
CSACPINN (44) CSA 56	CSAEIQRN (424) CSA 60
CSACRASS (BIT) CSA 58	CSAEIQSA (458) CSA 61
CSACRBA (1D8) CSA 58	CSAEIQSC (460) CSA 61
CSACRFL1 (20C) CSA 58	CSAEIQSJ (470) CSA 61
CSACRFL2 (20D) CSA 58	CSAEIQSK (46C) CSA 61
CSACRNU (BIT) CSA 58	CSAEIQSL (4D4) CSA 61
CSACRNTC (BIT) CSA 58	CSAEIQSM (464) CSA 61
CSACRNXF (BIT) CSA 58	CSAEIQSO (4E8) CSA 61
CSACRSTF (BIT) CSA 58	CSAEIQSP (44C) CSA 61
CSACRWEA (BIT) CSA 58	CSAEIQSQ (468) CSA 61
CSACSAAD (7C) CSA 56	CSAEIQST (454) CSA 61
CSACSAEA 55	CSAEIQSV (474) CSA 61
CSACSCC (60) CSA 53	CSAEIQSX (450) CSA 61
CSACSDCT (274) CSA 59	CSAEIQSZ (4B8) CSA 61
CSACSDOP 52	CSAEIQTM 61
CSACSPQI (BIT) CSA 58	CSAEIQTR (4A0) CSA 61
CSACTODB (60) CSA 53	CSAEIQTS (4B0) CSA 61
CSACWAA (E4) CSA 54	CSAEIQUE (4C0) CSA 61
CSACWAL (E8) CSA 54	CSAEIQVT (480) CSA 61
CSADATFD (BIT) CSA 52	CSAEISO (42C) CSA 60
CSADATFM (BIT) CSA 52	CSAEISP (3DC) CSA 60
CSADATFT (5A) CSA 52	CSAEISR (F8) CSA 57
CSADATFY 52	CSAEITHG (68) CSA 53
CSADBCR (2DC) CSA 59	CSAEITS (3C4) CSA 60
CSADBLA (278) CSA 59	CSAEIUOW (4D0) CSA 61
CSADBSA (27C) CSA 59	CSAEIWB (420) CSA 60
CSADCNAC (B0) CSA 53	CSAEJC (3D8) CSA 60
CSADCTBA (130) CSA 54	CSAEKC (3D4) CSA 60
CSADINAC (70) CSA 56	CSAEMEX (4C8) CSA 61
CSADLDER 1 CSA 62	CSAEMS (3E0) CSA 60
CSADLECB (1F0) CSA 58	CSAEOP (488) CSA 61
CSADLI 59	CSAEPC (3CC) CSA 60
CSADLIM (2F8) CSA 59	CSAEPS (45C) CSA 61
CSADLNRM 1 CSA 62	CSAERMNA (FC) CSA 57
CSADLPST 58	CSAERMRS (16C) CSA 57
CSADLRR (1F4) CSA 58	CSAERMSG (BIT) CSA 58
CSADMRMP 56	CSAESC (3C8) CSA 60
CSADRPGN (308) CSA 60	CSAESE (484) CSA 61
CSADS24T (330) CSA 60	CSAESN (498) CSA 61
CSADSANT (340) CSA 60	CSAESZ (4B4) CSA 61
CSADSBEA (148) CSA 57	CSAETC (3B8) CSA 60
CSADU24T (39C) CSA 60	CSAETD (3C0) CSA 60
CSADWETK (328) CSA 60	CSAETLNA (100) CSA 57
CSADWEXA (144) CSA 57	CSAETR (3E4) CSA 60
CSAEBF (3F0) CSA 60	CSAETRX (440) CSA 61
CSAEBUNA (104) CSA 57	CSAEXECS (3B0) CSA 60
CSAECATK (B4) CSA 56	CSAEXNQA (2C0) CSA 59
CSAEDC (3E8) CSA 60	CSAEXNQG (2C4) CSA 59
CSAEDCP (4AC) CSA 61	CSAEXNQS (2BC) CSA 59
CSAEDFTK (2D4) CSA 59	CSAFASL (1C4) CSA 55
CSAEDI (3EC) CSA 60	CSAFCEP (310) CSA 60
CSAEI (3B4) CSA 60	CSAFCSBA (12C) CSA 54
CSAEEXNA (108) CSA 57	CSAFXCAD (78) CSA 56
CSAEGL (3F8) CSA 60	CSAFEAUX 56
CSAEIACQ (4BC) CSA 61	CSAFEOPT 56
CSAEIBAM 60	CSAFERST (BIT) CSA 56
CSAEICRE 60	CSAFEWST (BIT) CSA 56
CSAEIDH (428) CSA 60	CSAFNLTM (BIT) CSA 52
CSAEIDI (444) CSA 61	CSAFOLA (14C) CSA 54
CSAEIEM (41C) CSA 60	CSAFPURG (BIT) CSA 52
CSAEIFC (3BC) CSA 60	CSAFRCQR (BIT) CSA 54
CSAEIIC (3D0) CSA 60	CSAFTCAB (BIT) CSA 52
CSAEINAC (A8) CSA 56	CSAGCAAC (15C) CSA 57
CSAEIP (3B0) CSA 60	CSAHPOCT (388) CSA 60
CSAEIPAD (110) CSA 54	CSAICA31 (AC) CSA 56
CSAEIPRT (494) CSA 61	CSAICEBA (54) CSA 52
CSAEIPSE (478) CSA 61	CSAICEXP (C0) CSA 53
CSAEIPSH (49C) CSA 61	CSAICFNA 55
CSAEIQBA (4DC) CSA 61	CSAICIAJ (BIT) CSA 53
CSAEIQCF (4E0) CSA 61	CSAICIND (5B) CSA 52
CSAEIQD2 (4D8) CSA 61	CSAICITP (BIT) CSA 52
CSAEIQDE (4CC) CSA 61	CSAICNAC (AC) CSA 53
CSAEIQDH (4EC) CSA 61	CSAICRIC (1B4) CSA 55
CSAEIQDN (4A4) CSA 61	CSAICRIN 55
CSAEIQDS (448) CSA 61	CSAICRMF 1 CSA 62
CSAEIQDU (47C) CSA 61	CSAICRMN 1 CSA 62
CSAEIQIR (48C) CSA 61	CSAICRNX (1A4) CSA 55
CSAEIQMS (490) CSA 61	CSAICRUN (1B8) CSA 55
CSAEIQMT (4A8) CSA 61	CSAICSIC (58) CSA 52
CSAEIQOP (4E4) CSA 61	CSAIPEA (140) CSA 57

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CSAILBOC 58  
CSAINAKP 55  
CSAIRPNA (178) CSA 57  
CSAISPNNA (A0) CSA 56  
CSAJCNA1 (2F0) CSA 59  
CSAJCNA2 (2F4) CSA 59  
CSAJYDP (7C) CSA 53  
CSAKCCT 55  
CSAKCMI (49) CSA 52  
CSAKCMT (4A) CSA 52  
CSAKCMTA (1CE) CSA 55  
CSAKCNAC (A0) CSA 53  
CSAKCSC (4C) CSA 56  
CSAKCTOF (228) CSA 59  
CSAKCTTA (1D0) CSA 55  
CSAKELCL (240) CSA 59  
CSAKELCW (24C) CSA 59  
CSAKELW (248) CSA 59  
CSAKELRT (244) CSA 59  
CSAKPCNT (1C8) CSA 55  
CSAKPNAC (28) CSA 56  
CSAKPPVC (1E0) CSA 58  
CSALANG 56  
CSALEFUN (CA) CSA 57  
CSALEN (E2) CSA 54  
CSALFNAC 56  
CSALFXAC (2A0) CSA 59  
CSALIRNA (E0) CSA 57  
CSALOGDF (BIT) CSA 58  
CSALOGDI (BIT) CSA 58  
CSALOGFL (209) CSA 58  
CSALOGTP (BIT) CSA 58  
CSALTIME (9A) CSA 53  
CSAM32EA (134) CSA 57  
CSAMCXEA (138) CSA 57  
CSAMCYEA (184) CSA 57  
CSAMGNAC 56  
CSAMGTAC (8C) CSA 56  
CSAML1EA (150) CSA 57  
CSAMOD00 1 CSA 62  
CSAMOD01 1 CSA 62  
CSAMOD02 1 CSA 62  
CSAMOD03 1 CSA 62  
CSAMROQA 56  
CSAMROQP (1CC) CSA 58  
CSAMVS 1 CSA 62  
CSAMVX 1 CSA 62  
CSAMXTOF 1 CSA 62  
CSAMXTON (BIT) CSA 52  
CSANDDS (BIT) CSA 58  
CSANSKR (BIT) CSA 58  
CSANULLP (178) CSA 55  
CSAOPF0E (5C) CSA 56  
CSAOPF1E (7C) CSA 56  
CSAOPF1S (64) CSA 56  
CSAOPF3E (1B8) CSA 58  
CSAOPF4E (2A0) CSA 59  
CSAOPF4S 58  
CSAOPF5E (2FC) CSA 59  
CSAOPF5S (2A8) CSA 59  
CSAOPF6E (3B0) CSA 60  
CSAOPF6S (2FC) CSA 59  
CSAOPFL (0) CSA 56  
CSAOPFLA 54  
CSAOPREL (9D) CSA 53  
CSAOPSYS (9C) CSA 53  
CSAORSRA (0) CSA 52  
CSAPBPEA (130) CSA 57  
CSAPCNAC (A8) CSA 53  
CSAPCNNA (158) CSA 57  
CSAPCTTA (1D0) CSA 58  
CSAPFTRR (1DC) CSA 55  
CSAPFTRS (1E0) CSA 55  
CSAPHPEA (14C) CSA 57  
CSAPICA (160) CSA 54  
CSAPIEA 54  
CSAPINIT 57  
CSAPLBA (74) CSA 53  
CSAPLISL 56  
CSAPLISM (58) CSA 56  
CSAPLTCM (BIT) CSA 59  
CSAPLTID (2A9) CSA 59  
CSAPLTIL (2A9) CSA 59  
CSAPLTIV (2AA) CSA 59  
CSAPLTPI (BIT) CSA 52  
CSAPLTRS (BIT) CSA 59  
CSAPLTSC (2A8) CSA 59  
CSAPLTYS 59  
CSAPOLA 54  
CSAPPFN 55  
CSAPRINN (48) CSA 56  
CSAPROTL (238) CSA 59  
CSAPROTU (23C) CSA 59  
CSAPSCBA (1EC) CSA 58  
CSAPSNAC (190) CSA 57  
CSAPUBA (78) CSA 53  
CSAQRTCB (10C) CSA 54  
CSARDATC (1BA) CSA 55  
CSARLREA (12C) CSA 57  
CSARMRTT (338) CSA 60  
CSARMSBP (FC) CSA 54  
CSAROCBA (BC) CSA 53  
CSARTSUA (154) CSA 57  
CSARUNKC 55  
CSARUPBT (1FC) CSA 58  
CSASANAC (104) CSA 54  
CSASBTI (64) CSA 53  
CSASCAAC (160) CSA 57  
CSASCNAC (A4) CSA 53  
CSASCPXM 1 CSA 62  
CSASDTA (1DC) CSA 58  
CSASDTRN (BIT) CSA 52  
CSASECBL (1B8) CSA 58  
CSASETRW (BIT) CSA 55  
CSASISNO 58  
CSASISVC (222) CSA 58  
CSASITBA (8C) CSA 53  
CSASITOD (6C) CSA 53  
CSASKCEP (2E0) CSA 59  
CSASKMNA (194) CSA 57  
CSASMATK (390) CSA 60  
CSASMITK (394) CSA 60  
CSASNFLG (211) CSA 58  
CSASNSTA (8) CSA 56  
CSASNUSN (368) CSA 60  
CSASNXRFB (BIT) CSA 58  
CSASOSI (48) CSA 52  
CSASOSON (BIT) CSA 52  
CSASPA1 (1ED) CSA 55  
CSASPA2 (1EF) CSA 55  
CSASPA3 (1F1) CSA 55  
CSASPFP2 (17C) CSA 55  
CSASPFFA (80) CSA 53  
CSASPNNAC (198) CSA 55  
CSASRAA (5C) CSA 56  
CSASRNAC (20) CSA 56  
CSASRTBA (24) CSA 56  
CSASSA (1C0) CSA 58  
CSASSI1 (48) CSA 52  
CSASSI2 (49) CSA 52  
CSASSI3 (C4) CSA 53  
CSASTASK (BIT) CSA 53  
CSASTIM (BIT) CSA 52  
CSASTIME (98) CSA 53  
CSASTPRO (BIT) CSA 54  
CSASTRTA (1D4) CSA 58  
CSASTYDP (74) CSA 56  
CSASUSXN (36C) CSA 60  
CSASUWTN (370) CSA 60  
CSASUZXN (374) CSA 60  
CSASVSNO 58  
CSASVSVC 58  
CSASZADA (3A4) CSA 60  
CSATADJT (5C) CSA 53  
CSATBSDD 59  
CSATBSNA (1A4) CSA 57  
CSATCA24 (F4) CSA 54  
CSATCA31 54  
CSATCADF (108) CSA 54  
CSATCNAC (B4) CSA 53  
CSATCNCA (10C) CSA 57  
CSATCNCB (110) CSA 57  
CSATCNCC (114) CSA 57  
CSATCNCP (118) CSA 57  
CSATCNCR 60  
CSATCNCW (11C) CSA 57

CSATCNCX	(120)	CSA	57	CSAVSE	1	CSA	62
CSATCNCY	(124)	CSA	57	CSAWEBAN	(218)	CSA	58
CSATCNCZ	(128)	CSA	57	CSAWTOAD	(190)	CSA	55
CSATCNDT	(1B0)	CSA	55	CSAXFPNA	56		
CSATCPEV	(BIT)	CSA	52	CSAXFXNA	(188)	CSA	57
CSATCPQM	(BIT)	CSA	52	CSAXLTBA	(30)	CSA	56
CSATCRWE	(18C)	CSA	55	CSAXQONA	57		
CSATCSCN	(BIT)	CSA	52	CSAXRFNT	60		
CSATCSEA	(1C4)	CSA	58	CSAXRPNA	(31C)	CSA	60
CSATCTBA	(128)	CSA	54	CSAXSEX	(BIT)	CSA	54
CSATCTCA	(B8)	CSA	53	CSAXSI	(BIT)	CSA	54
CSATCTSV	(1D8)	CSA	55	CSAXSI1	(BIT)	CSA	54
CSATDNA2	(384)	CSA	60	CSAXSI2	(BIT)	CSA	54
CSATDNAC	55			CSAXSI3	54		
CSATDNT	(1F4)	CSA	55	CSAXSINC	55		
CSATDOLA	(150)	CSA	54	CSAXSQ1	(BIT)	CSA	54
CSATDSTA	(1E8)	CSA	58	CSAXSQ2	(BIT)	CSA	54
CSATMPNA	(164)	CSA	57	CSAXST	(174)	CSA	54
CSATMSVT	(14)	CSA	56	CSAXST1	(174)	CSA	54
CSATODB	(6C)	CSA	53	CSAXST2	(175)	CSA	54
CSATODP	(50)	CSA	52	CSAXST3	(176)	CSA	54
CSATODTU	55			CSAXSTM	54		
CSATOLA	54			CSAXSTMA	(22C)	CSA	59
CSATPPEA	(13C)	CSA	57	CSAXSTMC	54		
CSATQIM	(BIT)	CSA	52	CSAXSTMI	(BIT)	CSA	54
CSATRFEP	53			CSAXSTMX	(BIT)	CSA	54
CSATRISO	(BIT)	CSA	54	CSAXTPNA	(A4)	CSA	56
CSATRMAS	(BIT)	CSA	53	CSAZBANA	(1A0)	CSA	57
CSATRMBF	(BIT)	CSA	53	CSAZCQNA	(1B4)	CSA	57
CSATRMBM	(BIT)	CSA	53	CSAZCUTN	(38C)	CSA	60
CSATRMCR	(BIT)	CSA	53	CSD_NAME	(114)	SPI	324
CSATRMDC	(BIT)	CSA	53	CSXCRLBA	(170)	CSA	57
CSATRMDI	(BIT)	CSA	53	CTEABND	(BIT)	CTXPA	63
CSATRMEI	(BIT)	CSA	53	CTEASID	(23)	CTXPA	63
CSATRMF1	(84)	CSA	53	CTEBRST	(BIT)	CTXPA	63
CSATRMF2	53			CTECANC	(BIT)	CTXPA	63
CSATRMF3	(86)	CSA	53	CTECRC	(18)	CTXPA	63
CSATRMF4	(87)	CSA	53	CTEDBCC	(BIT)	CTXPA	63
CSATRMF5	(88)	CSA	53	CTEDBCF	(BIT)	CTXPA	63
CSATRMF6	53			CTEDBCL	(BIT)	CTXPA	63
CSATRMFC	(BIT)	CSA	53	CTEDBCO	(BIT)	CTXPA	63
CSATRMIC	(BIT)	CSA	53	CTEDBCTL	(4)	CTXPA	63
CSATRMIS	(BIT)	CSA	53	CTEDBCX	(BIT)	CTXPA	63
CSATRMJC	(BIT)	CSA	53	CTEDBNZ	(BIT)	CTXPA	63
CSATRMKC	(BIT)	CSA	53	CTEDRAA	(BIT)	CTXPA	63
CSATRMLF	(BIT)	CSA	53	CTEDRAF	(BIT)	CTXPA	63
CSATRMPC	(BIT)	CSA	53	CTEELMAX	(40)	CTXPA	63
CSATRMRE	(BIT)	CSA	53	CTEESTF	(BIT)	CTXPA	63
CSATRMS1	(BIT)	CSA	53	CTEFAIL	(BIT)	CTXPA	63
CSATRMS2	(BIT)	CSA	53	CTEFUNC	(8)	CTXPA	63
CSATRMS3	(BIT)	CSA	53	CTEGMF	(BIT)	CTXPA	63
CSATRMS4	(BIT)	CSA	53	CTEHIWAT	(44)	CTXPA	63
CSATRMS5	(BIT)	CSA	53	CTEIDFL	(BIT)	CTXPA	63
CSATRMSC	(BIT)	CSA	53	CTEIDLEN	(A)	CTXPA	63
CSATRMSP	(BIT)	CSA	53	CTEIDPTR	(C)	CTXPA	63
CSATRMTC	(BIT)	CSA	53	CTEINIT	(0)	CTXPA	63
CSATRMTD	(BIT)	CSA	53	CTEITCF	(BIT)	CTXPA	63
CSATRMTS	(BIT)	CSA	53	CTEJOBID	(25)	CTXPA	63
CSATRMUE	(BIT)	CSA	53	CTEJOBNM	(10)	CTXPA	63
CSATRNAC	(194)	CSA	55	CTELNGTH	(BIT)	CTXPA	63
CSATRRAT	54			CTEMATCB	(1C)	CTXPA	63
CSATRSYS	(BIT)	CSA	53	CTEMITCB	(1A)	CTXPA	63
CSATRUSE	(BIT)	CSA	53	CTENINT	(BIT)	CTXPA	63
CSATSASA	(1EA)	CSA	55	CTENOMATHD	(3C)	CTXPA	63
CSATSATA	(134)	CSA	54	CTENOMITHD	(38)	CTXPA	63
CSATSIEC	(138)	CSA	54	CTENOSS	(BIT)	CTXPA	63
CSATSITK	(398)	CSA	60	CTENTUP	(BIT)	CTXPA	63
CSATSKCR	53			CTEOFUNC	(8)	CTXPA	63
CSATSMSA	(1E7)	CSA	55	CTEOPC	(BIT)	CTXPA	63
CSATSNAC	(188)	CSA	55	CTEPARETC	(1F)	CTXPA	63
CSATSOLA	(154)	CSA	54	CTERCOD	(1E)	CTXPA	63
CSATSTBA	(3C)	CSA	56	CTERGY	(19)	CTXPA	63
CSAUEHNA	(17C)	CSA	57	CTERSEN	(2D)	CTXPA	63
CSAUEM	(3F4)	CSA	60	CTERST	(BIT)	CTXPA	63
CSAUETBA	(1C8)	CSA	58	CTERSTN	(BIT)	CTXPA	63
CSAUNQID	(90)	CSA	53	CTERSYN	(BIT)	CTXPA	63
CSAURDTK	58			CTESFUNC	(9)	CTXPA	63
CSAUSKEY	53			CTESSF	(BIT)	CTXPA	63
CSAUTA1	(1F7)	CSA	55	CTETKOV	(BIT)	CTXPA	63
CSAUTA2	(1FA)	CSA	55	CTIN_ALREADY_INSTALLED	2	ZCCPS	581
CSAUTA3	(1FD)	CSA	55	CTIN_APPLID	(5)	ZCCPS	580
CSAUTA4	(200)	CSA	55	CTIN_APPLID_LENGTH	(0)	ZCCPS	580
CSAVSCAA	(1E4)	CSA	58	CTIN_APPLID_PARM	(0)	ZCCPS	580

CTIN\_APPLID\_PARM\_TYPE (4) ZCCPS 580  
 CTIN\_APPLID\_TYPE 1 ZCCPS 581  
 CTIN\_CLIENT\_FUNCTION 1 ZCCPS 581  
 CTIN\_CODEPAGE (5) ZCCPS 580  
 CTIN\_CODEPAGE\_LENGTH (0) ZCCPS 580  
 CTIN\_CODEPAGE\_PARM (0) ZCCPS 580  
 CTIN\_CODEPAGE\_PARM\_TYPE (4) ZCCPS 580  
 CTIN\_CODEPAGE\_TYPE 1 ZCCPS 581  
 CTIN\_DISASTER 1 ZCCPS 581  
 CTIN\_ERROR 1 ZCCPS 581  
 CTIN\_EXCEPTION 1 ZCCPS 581  
 CTIN\_FUNCTION (5) ZCCPS 579, 580  
 CTIN\_GROUP (4) ZCCPS 579, 580  
 CTIN\_HEADER (0) ZCCPS 579, 580  
 CTIN\_INSTALL\_CANCELLED 2 ZCCPS 581  
 CTIN\_INVALID\_CODEPAGE 2 ZCCPS 581  
 CTIN\_INVALID\_REQUEST 2 ZCCPS 581  
 CTIN\_LEN (0) ZCCPS 579, 580  
 CTIN\_MODELID (5) ZCCPS 580  
 CTIN\_MODELID\_LENGTH (0) ZCCPS 580  
 CTIN\_MODELID\_PARM (0) ZCCPS 580  
 CTIN\_MODELID\_PARM\_TYPE (4) ZCCPS 580  
 CTIN\_MODELID\_TYPE 1 ZCCPS 581  
 CTIN\_NETNAME (5) ZCCPS 580  
 CTIN\_NETNAME\_LENGTH (0) ZCCPS 580  
 CTIN\_NETNAME\_PARM (0) ZCCPS 579  
 CTIN\_NETNAME\_PARM\_TYPE (4) ZCCPS 580  
 CTIN\_NETNAME\_TYPE 1 ZCCPS 581  
 CTIN\_NORMAL 1 ZCCPS 581  
 CTIN\_O\_TERM\_BPS 1 ZCCPS 581  
 CTIN\_PARMNUM (A) ZCCPS 579, 580  
 CTIN\_REASON (8) ZCCPS 579, 580  
 CTIN\_RESPONSE (7) ZCCPS 579, 580  
 CTIN\_SERVER\_BUSY 2 ZCCPS 581  
 CTIN\_TERMDetails (5) ZCCPS 580  
 CTIN\_TERMDetails\_LENGTH (0) ZCCPS 580  
 CTIN\_TERMDetails\_PARM (0) ZCCPS 580  
 CTIN\_TERMDetails\_PARM\_TYPE (4) ZCCPS 580  
 CTIN\_TERMDetails\_TYPE 1 ZCCPS 581  
 CTIN\_TERMID (5) ZCCPS 580  
 CTIN\_TERMID\_LENGTH (0) ZCCPS 580  
 CTIN\_TERMID\_PARM (0) ZCCPS 580  
 CTIN\_TERMID\_PARM\_TYPE (4) ZCCPS 580  
 CTIN\_TERMID\_TYPE 1 ZCCPS 581  
 CTIN\_TERMINAL\_INSTALL\_REQUEST 1 ZCCPS 581  
 CTIN\_TERMINAL\_INSTALL\_RESPONSE 1 ZCCPS 581  
 CTIN\_TERMINAL\_UNINSTALL\_REQUEST 1 ZCCPS 581  
 CTIN\_TERMSOC (5) ZCCPS 580  
 CTIN\_TERMSOC\_IND (BIT) ZCCPS 580  
 CTIN\_TERMSOC\_LENGTH (0) ZCCPS 580  
 CTIN\_TERMSOC\_PARM (0) ZCCPS 581  
 CTIN\_TERMSOC\_PARM (0) ZCCPS 580  
 CTIN\_TERMSOC\_PARM\_TYPE (4) ZCCPS 580  
 CTIN\_TERMSOC\_TYPE 1 ZCCPS 581  
 CTIN\_UNKNOWN\_MODEL 2 ZCCPS 581  
 CTIN\_UNKNOWN\_TERMINAL 2 ZCCPS 581  
 CTIN\_VERSION (6) ZCCPS 579, 580  
 CTLDDN 539  
 CTLGAPPL (10) WSM 539  
 CTLREC (0) WSM 539  
 CTLRECL (BIT) WSM 539  
 CTLUNQID (18) WSM 539  
 CTLVER 539  
 CTLXPTR (10) EICD1 114  
 CTXPA 63  
 CUR\_RECORD\_PTR (CC) DUA 89  
 CURRENT\_DDS (4) DUA 92  
 CV29\_PTR (4) ZGRP 603  
 CWE 64  
 CWEBCHN (8) CWE 64  
 CWEDUMMY 64  
 CWEFCHN (4) CWE 64  
 CWEFLAG (C) CWE 64  
 CWEINUSE (BIT) CWE 64  
 CWELN (0) CWE 64  
 CWETERM (BIT) CWE 64  
 CWETYPE (D) CWE 64

## D

D2G\_ACCOUNTREC\_NONE (BIT) D2GDS 107  
 D2G\_ACCOUNTREC\_TASK (BIT) D2GDS 107  
 D2G\_ACCOUNTREC\_TXID (BIT) D2GDS 107  
 D2G\_ACCOUNTREC\_UOW (BIT) D2GDS 107  
 D2G\_AUTHTYPE\_GROUP (BIT) D2GDS 107  
 D2G\_AUTHTYPE\_NA (BIT) D2GDS 107  
 D2G\_AUTHTYPE\_OPID (BIT) D2GDS 107  
 D2G\_AUTHTYPE\_SIGNID (BIT) D2GDS 107  
 D2G\_AUTHTYPE\_TERM (BIT) D2GDS 107  
 D2G\_AUTHTYPE\_TXID (BIT) D2GDS 107  
 D2G\_AUTHTYPE\_USERID (BIT) D2GDS 107  
 D2G\_COMD\_AUTHID (F0) D2GDS 107  
 D2G\_COMD\_AUTHTYPE (F8) D2GDS 107  
 D2G\_COMD\_CALLS 107  
 D2G\_COMD\_SIGNONS (100) D2GDS 107  
 D2G\_COMD\_THREAD\_CURRENT (110) D2GDS 107  
 D2G\_COMD\_THREAD\_HWM (114) D2GDS 107  
 D2G\_COMD\_THREAD\_LIMIT (10C) D2GDS 107  
 D2G\_COMD\_THREAD\_OVERF (108) D2GDS 107  
 D2G\_COMD\_THREAD\_TERM (104) D2GDS 107  
 D2G\_COMMAND\_STATS 107  
 D2G\_CONNECT\_TIME\_GMT (18) D2GDS 106  
 D2G\_CONNECT\_TIME\_LOCAL (20) D2GDS 106  
 D2G\_DB2\_ID (10) D2GDS 106  
 D2G\_DB2\_RELEASE (14) D2GDS 106  
 D2G\_DB2CONN\_NAME (8) D2GDS 106  
 D2G\_DISCONNECT\_TIME\_GMT (28) D2GDS 106  
 D2G\_DISCONNECT\_TIME\_LOCAL (30) D2GDS 106  
 D2G\_END 107  
 D2G\_GLOBAL\_STATS 106  
 D2G\_LENGTH (118) D2GDS 107  
 D2G\_POOL\_ABORTS (A0) D2GDS 106  
 D2G\_POOL\_ACCOUNTREC (91) D2GDS 106  
 D2G\_POOL\_AUTHID (88) D2GDS 106  
 D2G\_POOL\_AUTHTYPE (90) D2GDS 106  
 D2G\_POOL\_CALLS (94) D2GDS 106  
 D2G\_POOL\_COMMITS (9C) D2GDS 106  
 D2G\_POOL\_PLAN\_NAME (78) D2GDS 106  
 D2G\_POOL\_PLANEXIT\_NAME (80) D2GDS 106  
 D2G\_POOL\_PRIORITY (93) D2GDS 106  
 D2G\_POOL\_READYQ\_CURRENT (CC) D2GDS 107  
 D2G\_POOL\_READYQ\_HWM (D0) D2GDS 107  
 D2G\_POOL\_SIGNONS (98) D2GDS 106  
 D2G\_POOL\_SINGLE\_PHASE (A4) D2GDS 107  
 D2G\_POOL\_STATS 106  
 D2G\_POOL\_TASK\_CURRENT (C0) D2GDS 107  
 D2G\_POOL\_TASK\_HWM (C4) D2GDS 107  
 D2G\_POOL\_TASK\_TOTAL (C8) D2GDS 107  
 D2G\_POOL\_THREAD\_CURRENT (B8) D2GDS 107  
 D2G\_POOL\_THREAD\_HWM (BC) D2GDS 107  
 D2G\_POOL\_THREAD\_LIMIT (B4) D2GDS 107  
 D2G\_POOL\_THREAD\_REUSE (A8) D2GDS 107  
 D2G\_POOL\_THREAD\_TERM (AC) D2GDS 107  
 D2G\_POOL\_THREAD\_WAITS (B0) D2GDS 107  
 D2G\_POOL\_THREADWAIT (92) D2GDS 106  
 D2G\_PRIORITY\_EQUAL (BIT) D2GDS 107  
 D2G\_PRIORITY\_HIGH (BIT) D2GDS 107  
 D2G\_PRIORITY\_LOW (BIT) D2GDS 107  
 D2G\_TCB\_CURRENT (3C) D2GDS 106  
 D2G\_TCB\_FREE (44) D2GDS 106  
 D2G\_TCB\_HWM (40) D2GDS 106  
 D2G\_TCB\_LIMIT (38) D2GDS 106  
 D2G\_TCB\_READYQ\_CURRENT (48) D2GDS 106  
 D2G\_TCB\_READYQ\_HWM (4C) D2GDS 106  
 D2G\_THREADWAIT\_NO (BIT) D2GDS 107  
 D2G\_THREADWAIT\_YES (BIT) D2GDS 107  
 D2GDS 106  
 D2GDVERS (4) D2GDS 106  
 D2GID (2) D2GDS 106  
 D2GIDE (BIT) D2GDS 106  
 D2GLEN 106  
 D2GVERS (BIT) D2GDS 106  
 D2R\_ABORTS (38) D2RDS 108  
 D2R\_ACCOUNTREC (29) D2RDS 108  
 D2R\_ACCOUNTREC\_NONE (BIT) D2RDS 109  
 D2R\_ACCOUNTREC\_TASK (BIT) D2RDS 109  
 D2R\_ACCOUNTREC\_TXID (BIT) D2RDS 109  
 D2R\_ACCOUNTREC\_UOW (BIT) D2RDS 109  
 D2R\_AUTHID (20) D2RDS 108  
 D2R\_AUTHTYPE (28) D2RDS 108  
 D2R\_AUTHTYPE\_GROUP (BIT) D2RDS 108

D2R\_AUTHTYPE\_NA (BIT) D2RDS 108  
D2R\_AUTHTYPE\_OPID (BIT) D2RDS 108  
D2R\_AUTHTYPE\_SIGNID (BIT) D2RDS 108  
D2R\_AUTHTYPE\_TERM (BIT) D2RDS 109  
D2R\_AUTHTYPE\_TXID (BIT) D2RDS 109  
D2R\_AUTHTYPE\_USERID (BIT) D2RDS 108  
D2R\_CALLS (2C) D2RDS 108  
D2R\_COMMITS (34) D2RDS 108  
D2R\_DB2ENTRY\_NAME 108  
D2R\_END 108  
D2R\_LENGTH (BIT) D2RDS 108  
D2R\_PLAN\_NAME (10) D2RDS 108  
D2R\_PLANEXIT\_NAME (18) D2RDS 108  
D2R\_PRIORITY (2B) D2RDS 108  
D2R\_PRIORITY\_EQUAL (BIT) D2RDS 109  
D2R\_PRIORITY\_HIGH (BIT) D2RDS 109  
D2R\_PRIORITY\_LOW (BIT) D2RDS 109  
D2R\_PTHREAD\_CURRENT (5C) D2RDS 108  
D2R\_PTHREAD\_HWM (60) D2RDS 108  
D2R\_PTHREAD\_LIMIT (58) D2RDS 108  
D2R\_READYQ\_CURRENT (70) D2RDS 108  
D2R\_READYQ\_HWM (74) D2RDS 108  
D2R\_SIGNONS (30) D2RDS 108  
D2R\_SINGLE\_PHASE (3C) D2RDS 108  
D2R\_TASK\_CURRENT (64) D2RDS 108  
D2R\_TASK\_HWM (68) D2RDS 108  
D2R\_TASK\_TOTAL (6C) D2RDS 108  
D2R\_THREAD\_CURRENT (50) D2RDS 108  
D2R\_THREAD\_HWM (54) D2RDS 108  
D2R\_THREAD\_LIMIT (4C) D2RDS 108  
D2R\_THREAD\_REUSE (40) D2RDS 108  
D2R\_THREAD\_TERM (44) D2RDS 108  
D2R\_THREAD\_WAIT\_OR\_OVERFL (48) D2RDS 108  
D2R\_THREADWAIT (2A) D2RDS 108  
D2R\_THREADWAIT\_NO (BIT) D2RDS 109  
D2R\_THREADWAIT\_POOL (BIT) D2RDS 109  
D2R\_THREADWAIT\_YES (BIT) D2RDS 109  
D2RDS 108  
D2RDVERS (4) D2RDS 108  
D2RID (2) D2RDS 108  
D2RIDE (BIT) D2RDS 108  
D2RLEN 108  
D2RVERS (BIT) D2RDS 108  
DAFPB (0) DUAFB 98  
DAFPB\_ARROW (2) DUAFB 98  
DAFPB\_BLOCK\_ID (8) DUAFB 98  
DAFPB\_CSVYDYNEX\_ADD\_DFHDUMPX 2 DUAFB 98  
DAFPB\_CSVYDYNEX\_FAILED 2 DUAFB 99  
DAFPB\_CSVYDYNEX\_REASON (40) DUAFB 98  
DAFPB\_CSVYDYNEX\_RETURN\_CODE (3C) DUAFB 98  
DAFPB\_DATA (10) DUAFB 98  
DAFPB\_DFH (3) DUAFB 98  
DAFPB\_DFHDUMPX\_NOT\_FOUND 2 DUAFB 99  
DAFPB\_DOMAIN (6) DUAFB 98  
DAFPB\_DUMPCODE (20) DUAFB 98  
DAFPB\_DUMPID (28) DUAFB 98  
DAFPB\_END (4C) DUAFB 98  
DAFPB\_FESTAE\_FAILED 2 DUAFB 99  
DAFPB\_FUNCTION (10) DUAFB 98  
DAFPB\_GETMAIN\_FAILED 2 DUAFB 99  
DAFPB\_INVALID\_PROBDESC 2 DUAFB 99  
DAFPB\_IWMWQWRK\_FAILED 2 DUAFB 99  
DAFPB\_IWMWQWRK\_REASON (48) DUAFB 98  
DAFPB\_IWMWQWRK\_RETURN\_CODE (44) DUAFB 98  
DAFPB\_LENGTH (0) DUAFB 98  
DAFPB\_NOT\_AUTHORIZED 2 DUAFB 99  
DAFPB\_NOT\_SUPPORTED 2 DUAFB 99  
DAFPB\_OK 2 DUAFB 99  
DAFPB\_PREFIX (0) DUAFB 98  
DAFPB\_REMOTE\_MSG\_PTR (38) DUAFB 98  
DAFPB\_RESPONSE (12) DUAFB 98  
DAFPB\_SDUMPX\_FAILED 2 DUAFB 99  
DAFPB\_SDUMPX\_RESPONSE (14) DUAFB 98  
DAFPB\_SYMREC\_LEN (1C) DUAFB 98  
DAFPB\_SYMREC\_PTR (18) DUAFB 98  
DAFPB\_TAKE\_RELATED\_SDUMPX 2 DUAFB 98  
DAFPB\_TAKE\_SDUMPX 2 DUAFB 98  
data  
data interchange block, DIB 78  
kernel error data, KERRD 196  
monitoring performance data record, PDA 261  
system recovery error data, SRED 328

data (continued)  
transaction monitoring data, MNT 236  
transient data buffer control, MBCA 222  
transient data control intervals, TDCI 421  
transient data EXEC parameter list, TDUE 426  
transient data global statistics, TQG 444  
transient data input area, TDIA 422  
transient data output area, TDOA 423  
transient data static storage, TDST 424  
transient data statistics, TQR 445  
transient data VSAM control, MRC 240  
transient data wait control, MWCB 242  
DATA\_START (28) DUA 93  
dataset  
file control dataset name, DSN 87  
user exit file and dataset information, UEFD 471  
DATASET\_LOCK\_TOKEN (BC) DUA 89  
DBCTL  
DBCTL scheduling block, DSB 81  
DBCTL unsolicited statistics, DBU 64  
DBCTL-CICS  
DBCTL-CICS global block, DGB 75  
DBCTL\_CONN 1 DBWMS 66  
DBCTL\_DISC 1 DBWMS 66  
DBCTL\_MCONN 1 DBWMS 66  
DBCTL\_RST (BIT) DXPS 103  
DBU 64  
DBUCLN (BIT) DBU 65  
DBUDVERS (4) DBU 64  
DBUEND (BIT) DBU 64  
DBUID (2) DBU 64  
DBUIDE (BIT) DBU 64  
DBULEN 64  
DBUVERS (BIT) DBU 64  
DBWMS 65  
DCADDR (0) DCR 66  
DCAPPLID (28) DCR 67  
DCB\_PTR (C4) DUA 89  
DCBADCHN 66  
DCBADSA (BIT) DCR 66  
DCBADSEG (BIT) DCR 66  
DCBLKLEN (0) DCR 66  
DCCBEND (A) DCR 67  
DCCBHDR (A) DCR 67  
DCCBNAME (4) DCR 67  
DCCBST (0) DCR 67  
DCCOMIC 1 DCR 68  
DCCONTN (BIT) DCR 66  
DCCSAIC 1 DCR 68  
DCDATA 66  
DCDATE (20) DCR 67  
DCDATFM (1F) DCR 67  
DCDATST (8) DCR 66  
DCDBLIC 1 DCR 68  
DCDCB (8) DUA 94  
DCDCTIC 1 DCR 68  
DCDGB 1 DCR 69  
DCDGBCT 1 DCR 69  
DCDSB 1 DCR 69  
DCDSBRESP 1 DCR 69  
DCDTIC 1 DCR 68  
DCDUMPC (C) DCR 67  
DCDUMPST (10) DCR 67  
DCDUPLS (BIT) DCR 66  
DCECBIOA (C) DUA 94  
DCECBIOL (6) DUA 94  
DCFCADIC 1 DCR 68  
DCFCATIC 1 DCR 68  
DCFCCTIC 1 DCR 68  
DCFCDCIND 1 DCR 69  
DCFDDSA 1 DCR 69  
DCFDERR 1 DCR 69  
DCFDHDR 1 DCR 69  
DCFDHEX 1 DCR 69  
DCFDLINE 1 DCR 69  
DCFDMIND 1 DCR 69  
DCFDPSW 1 DCR 69  
DCFDPTN 1 DCR 69  
DCFDREGS 1 DCR 69  
DCFDSUP 1 DCR 69  
DCFDTLR 1 DCR 69  
DCHDRA (20) DCR 67  
DCIDRC (0) DCR 67

"Restricted Materials of IBM"  
 Licensed Materials – Property of IBM

DCIND1 (5) DCR 66  
 DCIND2 (6) DCR 66  
 DCINDX (8) DCR 66  
 DCINT 67  
 DCIRTSI 66  
 DCISBIC 1 DCR 69  
 DCLAST 66  
 DCLENG (4) DCR 66  
 DCLIFOFF (37) DCR 67  
 DCLIFOIC 1 DCR 69  
 DCLIFOP1 (0) DCR 67  
 DCLIFOP2 (22) DCR 67  
 DCLIFOP3 (2D) DCR 67  
 DCLIFOWN (1A) DCR 67  
 DCLINE (0) DCR 67  
 DCLRIC 1 DCR 69  
 DCMCBIC 1 DCR 68  
 DCMVFAIL (BIT) DCR 66  
 DCNCICIC (BIT) DCR 66  
 DCNONCIC (BIT) DCR 66  
 DCOPLFIC 1 DCR 68  
 DCOVRLN (BIT) DCR 66  
 DCPCBIC 1 DCR 69  
 DCPCTIC 1 DCR 68  
 DCPGMCHK (BIT) DCR 66  
 DCPPTIC 1 DCR 68  
 DCPROGAB 1 DCR 68  
 DCPROGIC 1 DCR 68  
 DCPSNTIC 1 DCR 69  
 DCPSTIC 1 DCR 69  
 DCPSW (0) DCR 67  
 DCR 66  
 DCRECLEN (0) DCR 66  
 DCRECST 66  
 DCRESTRT (BIT) DCR 66  
 DCRSAIC 1 DCR 69  
 DCSCDIC 1 DCR 69  
 DCSITIC 1 DCR 68  
 DCSPACE (7) DCR 66  
 DCSSIC 1 DCR 68  
 DCT 69  
 DCTASKID (8) DCR 67  
 DCTC24IC 1 DCR 68  
 DCTC31IC 1 DCR 68  
 DCTCAPP 1 DCR 68  
 DCTCBMEX 1 DCR 68  
 DCTCLCRB 1 DCR 68  
 DCTCLCSB 1 DCR 68  
 DCTCLUC 1 DCR 68  
 DCTCTIC 1 DCR 68  
 DCTCUA 1 DCR 68  
 DCTDIAA 74  
 DCTDIAL (24) DCT 74  
 DCTERMIC 1 DCR 68  
 DCTHDR (0) DCR 67  
 DCTIE 1 DCR 69  
 DCTIME (19) DCR 67  
 DCTLRIC 1 DCR 68  
 DCTRHEAD 1 DCR 69  
 DCTRREC 1 DCR 69  
 DCTRTAIL 1 DCR 69  
 DCTSDDCB 74  
 DCTSDDOM (2B) DCT 74  
 DCTSDDOMD (BIT) DCT 74  
 DCTSDDOMI (BIT) DCT 74  
 DCTSDDOMR (BIT) DCT 74  
 DCTSDDRC (2A) DCT 74  
 DCTSDDRW (14) DCT 74  
 DCTSDDSBL (1A) DCT 74  
 DCTSDDSB 74  
 DCTSDDSCA 74  
 DCTSDDSCC (28) DCT 74  
 DCTSDDSCM (BIT) DCT 74  
 DCTSDDSDA 74  
 DCTSDDSFF (BIT) DCT 74  
 DCTSDDSIP (BIT) DCT 74  
 DCTSDDSLE (BIT) DCT 74  
 DCTSDDSLN 74  
 DCTSDDSOC (C) DCT 74  
 DCTSDDSOO (C) DCT 74  
 DCTSDDSOP (BIT) DCT 74  
 DCTSDDSPS (0) DCT 74  
 DCTSDDSQP (4) DCT 74  
 DCTSDDSRB (BIT) DCT 74  
 DCTSDDSRE (BIT) DCT 74  
 DCTSDDSRF 74  
 DCTSDDSRRL (1C) DCT 74  
 DCTSDDSRP (8) DCT 74  
 DCTSDDSU (BIT) DCT 74  
 DCTSDDSVF (BIT) DCT 74  
 DCTSDDTDF 74  
 DCTU24IC 1 DCR 68  
 DCTU31IC 1 DCR 68  
 DCUEPAR 1 DCR 69  
 DCUIB 1 DCR 69  
 DDS\_BUFFER\_LEN (D4) DUA 89  
 DDS\_SUFFIX 92  
 DECODE\_CLIENT\_ADDRESS (14) WBCDC 507  
 DECODE\_CLIENT\_ADDRESS\_STRING (18) WBCDC 508  
 DECODE\_DATA\_PTR 508  
 DECODE\_ENTRY\_COUNT (64) WBCDC 508  
 DECODE\_EYECATCHER (0) WBCDC 507  
 DECODE\_FUNCTION (A) WBCDC 507  
 DECODE\_HTTP\_VERSION\_LENGTH (42) WBCDC 508  
 DECODE\_HTTP\_VERSION\_PTR (30) WBCDC 508  
 DECODE\_INPUT\_DATA\_LEN (48) WBCDC 508  
 DECODE\_METHOD\_LENGTH (40) WBCDC 508  
 DECODE\_METHOD\_PTR (2C) WBCDC 508  
 DECODE\_OUTPUT\_DATA\_LEN (50) WBCDC 508  
 DECODE\_PARAMS (0) WBCDC 507  
 DECODE\_REASON (10) WBCDC 507  
 DECODE\_REQUEST\_HEADER\_LENGTH (46) WBCDC 508  
 DECODE\_REQUEST\_HEADER\_PTR (38) WBCDC 508  
 DECODE\_RESOURCE\_LENGTH (44) WBCDC 508  
 DECODE\_RESOURCE\_PTR (34) WBCDC 508  
 DECODE\_RESPONSE (C) WBCDC 507  
 DECODE\_SERVER\_PROGRAM (54) WBCDC 508  
 DECODE\_USER\_DATA\_LENGTH (4C) WBCDC 508  
 DECODE\_USER\_DATA\_PTR (3C) WBCDC 508  
 DECODE\_USER\_TOKEN (5C) WBCDC 508  
 DECODE\_VERSION (8) WBCDC 507  
 DECODE\_VOLATILE (9) WBCDC 507  
 deferred  
 deferred work element, DWE 102  
 definition  
 brxa definition, BRARC 30  
 language definition table, EICD1 114  
 parameter list definition, XCTRC 556  
 partition set definition block, PSD 272  
 task local storage definition, SPI 323  
 XRF static storage definition, XRS 574  
 XRF work element definition, XRW 577  
 zcp local userid table definition, ZLUIT 606  
 description  
 map control area description, MCA 224  
 XRF CAVM state manager record description, WSM 538  
 descriptor  
 automatic initiate descriptor, AID 6  
 TEP commarea mapper and descriptor, TEPCA 431  
 destination  
 destination control table, DCT 69  
 DETACHED (BIT) DXQEL 104  
 device  
 system logical device code table, SLDC 309  
 tc local logical device code table, LLDC 211  
 DEVPHYSA 602  
 DFHA03DS (0) A03 14  
 DFHA04DS (0) A04 15  
 DFHA06DS (0) A06 16  
 DFHA08DS (0) A08 17  
 DFHA09DS (0) A09 19  
 DFHA14DS (0) A14 20  
 DFHA16DS (0) A16 22  
 DFHA17DS (0) A17 23  
 DFHA20DS (0) A20 25  
 DFHA21PS (0) A21 26  
 DFHA22DS (0) A22 27  
 DFHA23DS (0) A23 28  
 DFHA24DS (0) A24 29  
 DFHABND (0) TACB 332  
 DFHAFCB (0) AFCB 2  
 DFHAFCS (0) AFCB 3  
 DFHAFCTE (0) AFCT 4  
 DFHAIDDS (0) AID 6  
 DFHAPT (14) SIT 292  
 DFHAPT\_X (BIT) SIT 298

DFHAPXDC	(0)	APXDC	11
DFHBCDCS	(BIT)	DSN	87
DFHBCEND	(CC)	DSN	88
DFHBCLEN	(BIT)	DSN	88
DFHCDBLK	(0)	CDBLK	45
DFHCF6D	(0)	CFS6D	46
DFHCF7D	(0)	CFS7D	47
DFHCF8D	(0)	CFS8D	48
DFHCF9D	(0)	CFS9D	49
DFHCLTDS	(0)	CLT	50
DFHCOMMAREA	(0)	WBDCD	505
DFHCOMMAREA	(0)	WBTDC	512
DFHCRBDS	(0)	CRB	51
DFHCRESL_STATE	(0)	TCTTE	388
DFHCSABA	(0)	CSA	52
DFHCSADS	(0)	CSA	52
DFHCTXPA	(0)	CTXPA	63
DFHCWE	(0)	CWE	64
DFHD2GDS	(0)	D2GDS	106
DFHD2RDS	(0)	D2RDS	108
DFHDBUDS	(0)	DBU	64
DFHDBWMS_DXMSG	(0)	DBWMS	65
DFHDGB	(0)	DGB	75
DFHDGBCTA	(0)	DGB	76
DFHDIBDS	(0)	DIB	78
DFHDL			292
DFHDLX	(BIT)	SIT	298
DFHDLPS	(0)	DLP	80
DFHDMPA_INITIAL	(BIT)	DUA	92
DFHDMPB_INITIAL	(BIT)	DUA	92
DFHDMTSL	(0)	SPI	323
DFHDSB	(0)	DSB	81
DFHDSGDS	(0)	DSG	85
DFHDSNDS	(0)	DSN	87
DFHDWEDS	(0)	DWE	102
DFHDXPS	(0)	DXPS	103
DFHDXUEP	(0)	DXUEP	105
DFHECAPS	(0)	ECA	109
DFHEDFDS	(0)	EDF	110
DFHEIBLK	(0)	EIB	112
DFHEIBP	(5C)	EISTG	125
DFHEICAP	(60)	EISTG	125
DFHEICDS	(0)	EIC	113
DFHEICDS	(0)	EIPDS	119
DFHEILWS	(48)	EISTG	125
DFHEINAB	(4C)	EISTG	125
DFHEIPL	(68)	EISTG	125
DFHEIR13	(54)	EISTG	125
DFHEIRS0	(50)	EISTG	125
DFHEIRS1	(58)	EISTG	125
DFHEIRS2	(66)	EISTG	125
DFHEIRS3			125
DFHEIRS4	(16C)	EISTG	125
DFHEISA	(0)	EISTG	125
DFHEISDS	(0)	EIS	122
DFHEISTG	(0)	EISTG	125
DFHEITP1	(170)	EISTG	125
DFHEITP2	(174)	EISTG	125
DFHEITP3	(178)	EISTG	125
DFHEITP4	(17C)	EISTG	125
DFHEIUS	(0)	EIUS	125
DFHEIUSR	(180)	EISTG	125
DFHEIV00	(64)	EISTG	125
DFHEPB	(0)	UEPB	497
DFHEPL	(0)	UEPL	498
DFHETCDS	(0)	ETC	127
DFHFCENT	(0)	FCENT	134
DFHFCTDS	(0)	FCT	145
DFHFCTSR	(0)	FCTSR	149
DFHFFLE	(0)	FFL	151
DFHFIOA	(0)	FIOA	152
DFHFLAB	(0)	FLABC	154
DFHFMHDS	(0)	FMH	156
DFHFPFDS	(0)	FCT	149
DFHFRAB	(0)	FRABC	168
DFHFRTE	(0)	FRTEC	170
DFHGMMS	(0)	SIT	302
DFHICEDS	(0)	ICE	172
DFHIMSDS	(0)	IMSDS	186
DFHIRRDS	(0)	IRRDS	193
DFHIRSDS			187
DFHIRSPS			187
DFHJCADS	(0)	JCA	194
DFHKCSPS	(0)	KCS	195
DFHLDGDS	(0)	LDGDS	200
DFHLDRDS	(0)	LDRDS	201
DFHLFS	(0)	LFM	202,203
DFHLGRDS	(0)	LGRDS	209
DFHLGSDS	(0)	LGSDS	210
DFHLLISTA	(0)	SIT	301
DFHLLDC	(0)	LLDC	211
DFHLPDFG	(2)	LFM	202
DFHLPDLN	(4)	LFM	202
DFHLPLEN	(0)	LFM	202
DFHLPST	(0)	LFM	202
DFHLPMDL	(E)	LFM	202
DFHLPMDS	(6)	LFM	202
DFHLPMDL	(C)	LFM	202
DFHLPREC	(18)	LFM	202
DFHLPRS3	(12)	LFM	202
DFHLPRS4	(13)	LFM	202
DFHLPS24	(BIT)	LFM	202
DFHLPS31	(BIT)	LFM	202
DFHLPSMD	(14)	LFM	202
DFHLPTR2	(11)	LFM	202
DFHLPTRC	(8)	LFM	202
DFHLPTRF	(10)	LFM	202
DFHLUCDS	(0)	LUC	211
DFHLLUMDS	(0)	LUM	217
DFHLUSPS	(0)	LUSDS	218
DFHMAPDS	(0)	MAP	219
DFHMBCA	(0)	MBCA	223
DFHMBCB	(0)	MBCA	223
DFHMCADS	(0)	MCA	224
DFHMCB	(0)	MCB	226
DFHMCRDS	(0)	MCR	228
DFHMNEMP	(0)	MNEMP	232
DFHMNGDS	(0)	MNG	234
DFHMNOPT	(0)	MNEMP	232
DFHMNPDA	(0)	PDA	261
DFHMNTDS	(0)	MNT	236
DFHMQCB	(0)	MBCA	224
DFHMRCB	(0)	MRC	240
DFHMRCB	(0)	MRC	241
DFHMRSB	(0)	MRC	241
DFHMWCB	(0)	MWCB	242
DFHNCS4D	(0)	NCS4D	243
DFHNCS5D	(0)	NCS5D	244
DFHNEPCA	(0)	NEPCA	245
DFHNQGD	(0)	NQG	247
DFHOSPWA	(0)	OSPWA	251
DFHPCENT			281, 284, 563
DFHPQUES	(0)	PCUES	260
DFHPEP_COMMAREA	(0)	PEP	265
DFHPGADS	(0)	PGA	268
DFHPGGPS	(0)	PGGPC	271
DFHPLTDS	(0)	PLT	271
DFHPPFPS	(0)	PFT	266
DFHPRVMD	(0)	SIT	302
DFHPSDDS	(0)	PSD	272
DFHPSGPS	(0)	PSG	273
DFHPSPPS	(0)	PSP	275
DFHRMGDS	(0)	RMG	278
DFHRPD	(0)	RPD	279
DFHRSBDS	(0)	RSB	280, 283
DFHSAADS	(0)	SAA	286
DFHSABDS	(0)	SAB	286
DFHSDGDS	(0)	SDG	287
DFHSDRDS	(0)	SDR	288
DFHSIPDS	(0)	SIP	290
DFHSITEA	(850)	SIT	301
DFHSITPS	(0)	SIT	292
DFHSKAPS	(0)	SKA	304
DFHSKRQ	(0)	SKRQ	307
DFHSHKWS	(0)	SKW	308
DFHSLDC	(0)	SLDC	309
DFHSMDDS	(0)	SMD	310
DFHSMFDS	(0)	SMF	311
DFHSMSDS	(0)	SMS	313
DFHSMTDS	(0)	SMT	315
DFHSNEX	(0)	SNEX	316
DFHSNGN	(0)	SNGN	319
DFHSNGS	(0)	SNGS	320
DFHSNGS_FIXED	(0)	SNGS	320
DFHSNGS_VARIABLE	(40)	SNGS	320
DFHSNSTA	(0)	SNSTA	321



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DFHSORDS (0) SORDS 322	DFHWXBPS (0) WXB 554
DFHSRADS (0) SRA 325	DFHWXLPS (0) WXL 556
DFHSRTDS (0) SRT 329	DFHXFIOA (0) XFIOA 561
DFHSRXDS (BIT) SRB 327	DFHXFRDS (0) XFR 563
DFHSSADS (0) SSA 329	DFHXLTDS (0) XLT 565
DFHSSC (0) SETCC 289	DFHXMCDSDS (0) XMCDSDS 565
DFHSTGDS (0) STG 330	DFHXMGDS (0) XMGDS 566
DFHSTIDS (0) STI 331	DFHXRMRDS (0) XMRDS 567
DFHSYTCA (0) TCADY 353	DFHXQS1D (0) XQS1D 569
DFHSYTCA (100) TCA 336	DFHXQS2D (0) XQS2D 570
DFHTCADY 336	DFHXQS3D (0) XQS3D 571
DFHTCADY (0) TCADY 353	DFHXRHPS (0) XRH 572
DFHTCPRA (0) TCPRA 357	DFHXRSND (B0) XRS 575
DFHTCTFX (0) TCTFX 359	DFHXRSPS (0) XRS 574
DFHTCTLE (0) TACLE 333	DFHXRWPS (0) XRW 577
DFHTCTLE (0) TCTLE 368	DFHXTSPS (0) ATD 12
DFHTCTME (0) TCTTE 402	DFHZABDA (38) ZEPD 589
DFHTCTRS (0) TCTTE 408	DFHZACTA (70) ZEPD 589
DFHTCTSE (0) TCTTE 397	DFHZAITA (80) ZEPD 589
DFHTCTSK (0) TCTTE 407	DFHZANDA (110) ZEPD 590
DFHTCTTE (0) TCTTE 370	DFHZARLA (128) ZEPD 590
DFHTCTWA (0) TCTWA 414	DFHZARMA (12C) ZEPD 590
DFHTCTWE (0) TCTWE 416	DFHZARQA (4) ZEPD 589
DFHTCV29 (0) TCV29 419	DFHZASXA (84) ZEPD 589
DFHTCXDS (0) TCX 421	DFHZATIA 589
DFHTDCI (0) TDCI 421	DFHZATTA (44) ZEPD 589
DFHTDGDS (0) DUGS 100	DFHZBKTA (148) ZEPD 590
DFHTDIA (0) TDIA 422	DFHZBTNA (10) ZEPD 589
DFHTDOA (0) TDOA 423	DFHZCHRA (154) ZEPD 590
DFHTDRDS (0) DUTD 101	DFHZCHSA (150) ZEPD 590
DFHTDST (0) TDST 424	DFHZCLSA (88) ZEPD 589
DFHTEPCA (0) TEPCA 431	DFHZCLXA (8C) ZEPD 589
DFHTIEDS (0) TIE 432	DFHZCNAA (114) ZEPD 590
DFHTIOA (0) TIOA 435	DFHZCNCA (11C) ZEPD 590
DFHTMELD (0) TMELD 438	DFHZCNRA (118) ZEPD 590
DFHTPE (0) TPE 443	DFHZCNTA (14C) ZEPD 590
DFHTQGDS (0) TQG 444	DFHZCQPS (0) ZCQ 582
DFHTQRDS (0) TQR 445	DFHZCRQA 589
DFHTRA (0) TRA 447	DFHZCRTA (194) ZEPD 590
DFHTRADS (0) TRAP 449	DFHZDETA (C) ZEPD 589
DFHTRBL (0) TRBL 450	DFHZDSPA (0) ZEPD 589
DFHTREN (0) TREN 451	DFHZDSTA (15C) ZEPD 590
DFHTRFCA (0) TRFCA 452	DFHZEMWA (104) ZEPD 590
DFHTRGTW (0) TRGTW 459	DFHZEPD (0) ZEPD 589
DFHTRIP (0) TRFCA 455	DFHZERHA (140) ZEPD 590
DFHTSGDS (0) TSG 460	DFHZEV1A (160) ZEPD 590
DFHTSIOA (0) TSIOA 461	DFHZEV2A (164) ZEPD 590
DFHTSTDS (0) TST 461	DFHZFREA (48) ZEPD 589
DFHTTPCM (0) TTP 467	DFHZGETA (4C) ZEPD 589
DFHTTPRE (0) TTP 469	DFHZHPSA (78) ZEPD 589
DFHUEFDS (0) UEFD 471	DFHZHPXA (28) ZEPD 589
DFHUEFLG (0) UEPAR 474	DFHZINTA (184) ZEPD 590
DFHUEPAR (0) UEPAR 473, 476	DFHZIS1A (30) ZEPD 589
DFHUERTR (0) UEPAR 474	DFHZIS2A (34) ZEPD 589
DFHUETE (0) UETE 499	DFHZISPA (2C) ZEPD 589
DFHUETH (0) UETH 500	DFHZLENG 589
DFHURLDS (0) URL 501	DFHZLEXA 589
DFHUSTCA (0) TCA 334	DFHZLGXA (98) ZEPD 589
DFHVMDS (0) VMID 502	DFHZLOCA (8) ZEPD 589
DFHVSWA (0) VSWA 502	DFHZLRPA (9C) ZEPD 589
DFHWBTL_ARG (0) WBTL_C 514	DFHZLTXA (A0) ZEPD 589
DFHWCGPS (0) WCG 515	DFHZLZLSA (144) ZEPD 590
DFHWCIIPS (0) WCG 516	DFHZNSPA (BC) ZEPD 589
DFHWCSDS (0) WCS 517	DFHZOPAA (F8) ZEPD 589
DFHWDGFS (0) WDG 518	DFHZOPNA (A4) ZEPD 589
DFHWDIPS (0) WDI 519	DFHZOPXA (A8) ZEPD 589
DFHWDSPS (0) WDI 519	DFHZQUEA (100) ZEPD 590
DFHWFSDS (0) WFG 521	DFHZRACA (50) ZEPD 589
DFHWLGPS (0) WDL 520	DFHZRAQA (AC) ZEPD 589
DFHWMGPS (0) WMG 522	DFHZRARA (B0) ZEPD 589
DFHWMIPS (0) WMI 524	DFHZRASA (198) ZEPD 590
DFHWMMP (0) WMM 526	DFHZRLPA (190) ZEPD 590
DFHWMQPS (0) WMQ 527	DFHZRLXA (134) ZEPD 590
DFHWMRPS (0) WMR 528	DFHZRPLA (7C) ZEPD 589
DFHWMSPS (0) WMS 529	DFHZRPXA (B4) ZEPD 589
DFHWMTPS (0) WMT 531	DFHZRRXA (B8) ZEPD 589
DFHWNFPS (0) WNF 532	DFHZRSTA (54) ZEPD 589
DFHWSADS (0) WSA 534	DFHZRSYA (C0) ZEPD 589
DFHWSSDS (0) WSS 542	DFHZRVLA (130) ZEPD 590
DFHWSXDS (0) WSX 544	DFHZRVSA (58) ZEPD 589
DFHWTADS (0) WTA 547	DFHZRVXA (5C) ZEPD 589
DFHWTGFS (0) WTG 550	DFHZRWNA (4) ZEPD 589
DFHWTRPS (0) WTR 551	DFHZSAXA (C4) ZEPD 589

DFHZSCXA	(C8)	ZEPD	589	DGBDXBA	(14)	DGB	75
DFHZSDAA	(CC)	ZEPD	589	DGBDXERR	(BIT)	DGB	75
DFHZSDLA	(138)	ZEPD	590	DGBELMAX	(E8)	DGB	76
DFHZSDRA	(74)	ZEPD	589	DGBHIWAT	(EC)	DGB	76
DFHZSDSA	(60)	ZEPD	589	DGBIDBID	(32)	DGB	75
DFHZSDXA	(64)	ZEPD	589	DGBIECB	(44)	DGB	75
DFHZSESA	(D4)	ZEPD	589	DGBIMMDI	1	DGB	76
DFHZSEXA	(D8)	ZEPD	589	DGBINITT	(40)	DGB	75
DFHZSHUA	(FC)	ZEPD	589	DGBJOBI	(BE)	DGB	76
DFHZSIMA	(DC)	ZEPD	589	DGBJOBN	(B4)	DGB	76
DFHZSIXA	(E0)	ZEPD	589	DGBMATHD	(CA)	DGB	76
DFHZSKRA	(D0)	ZEPD	589	DGBMITHD	(C8)	DGB	76
DFHZSLSA	(E4)	ZEPD	589	DGBMNPND1	(BIT)	DGB	75
DFHZSLXA	(13C)	ZEPD	590	DGBMNPND2	(BIT)	DGB	75
DFHZSSXA	(E8)	ZEPD	589	DGBMOXA	(74)	DGB	76
DFHZSTAA	590			DGBMOXE	(6C)	DGB	76
DFHZSTUA	(20)	ZEPD	589	DGBNOMATHD	76		
DFHZSYNA	(108)	ZEPD	590	DGBNOMITHD	(E4)	DGB	76
DFHZSYXA	(EC)	ZEPD	589	DGBNOPSK	(BIT)	DGB	75
DFHZTAXA	(F0)	ZEPD	589	DGBORDDI	1	DGB	76
DFHZTCPA	(10)	ZEPD	589	DGBPSBSU	(2C)	DGB	75
DFHZTDNA	(0)	ZEPD	589	DGBREXA	(5C)	DGB	75
DFHZTPXA	(F4)	ZEPD	589	DGBREXE	(54)	DGB	75
DFHZTRAA	(10C)	ZEPD	590	DGBRGTY	(C7)	DGB	76
DFHZTSNA	(8)	ZEPD	589	DGBRSEN	(CC)	DGB	76
DFHZTSPA	(24)	ZEPD	589	DGBSMTOK	(18)	DGB	75
DFHZUAXA	(120)	ZEPD	590	DGBSPXA	(50)	DGB	75
DFHZUCTA	(68)	ZEPD	589	DGBSPXE	(48)	DGB	75
DFHZUIXA	(6C)	ZEPD	589	DGBSSXA	(98)	DGB	76
DFHZUOXA	(124)	ZEPD	590	DGBSSXE	(90)	DGB	76
DFHZUSRA	(158)	ZEPD	590	DGBSTSU	(30)	DGB	75
DFHZXPSA	(19C)	ZEPD	590	DGBSTXA	(8C)	DGB	76
DFHZXRCA	(178)	ZEPD	590	DGBSTXE	(84)	DGB	76
DFHZXRLA	590			DGBTOXA	(80)	DGB	76
DFS690SW	(BIT)	DXPS	103	DGBTXE	(78)	DGB	76
DGB	75			DHTX	77		
	XRF/DBCTL	DGB extension,	DXPS 103	DHTX_APPEND_CRLF	(24)	DHTX	77
DGBABORTRC	(3E)	DGB	75	DHTX_BUFFER_LEN	(14)	DHTX	77
DGBALOAD	(F0)	DGB	76	DHTX_BUFFER_PTR	(10)	DHTX	77
DGBASID	(BC)	DGB	76	DHTX_EYECATCHER	(2)	DHTX	77
DGBATA	(A4)	DGB	76	DHTX_LENGTH	(0)	DHTX	77
DGBATE	(9C)	DGB	76	DHTX_MESSAGE_LEN	(2C)	DHTX	77
DGBATEN	(BIT)	DGB	75	DHTX_MESSAGE_PTR	(28)	DHTX	77
DGBCABORT	(BIT)	DGB	75	DHTX_PLIST	(0)	DHTX	77
DGBCAPLD	(36)	DGB	75	DHTX_PREFIX	(0)	DHTX	77
DGBCECB	(8)	DGB	76	DHTX_RETURN_CODE	(1C)	DHTX	77
DGBCFLAG	(28)	DGB	75	DHTX_TEMPLATE_FLAGS	(24)	DHTX	77
DGBCRC	(C6)	DGB	76	DHTX_TEMPLATE_LEN	(18)	DHTX	77
DGBCSA	(8)	DGB	75	DHTX_TEMPLATE_NAME_PTR	(20)	DHTX	77
DGBCTA	(10)	DGB	75	DHTX_VERSION	(F)	DHTX	77
DGBCTIME	(A8)	DGB	76	DIB	78		
DGBCTL	(4)	DGB	76	DIBDESEL	(2B)	DIB	79
DGBCTLATT	(BIT)	DGB	76	DIBDIRRD	(C)	DIB	78
DGBCTOKN	(1C)	DGB	75	DIBDNAM	(31)	DIB	79
DGBCTXA	(68)	DGB	76	DIBDNL	(30)	DIB	79
DGBCTXE	(60)	DGB	76	DIBDSDSP	(2B)	DIB	79
DGBCWEERR	(14)	DGB	76	DIBDSF	(2C)	DIB	79
DGBCWEERRA	(14)	DGB	76	DIBDSP	(2B)	DIB	79
DGBCWEHD	(0)	DGB	76	DIBDSPBA	(BIT)	DIB	79
DGBCWETERM	76			DIBDSPDE	(BIT)	DIB	79
DGBCWETERMA	(24)	DGB	76	DIBDSP1	(BIT)	DIB	79
DGBDBCID	(B0)	DGB	76	DIBDSP2	(BIT)	DIB	79
DGBDBCO	1	DGB	76	DIBDSP3	(BIT)	DIB	79
DGBDBCT	1	DGB	76	DIBDSPJB	(BIT)	DIB	79
DGBDBCX	1	DGB	76	DIBDSPRW	(BIT)	DIB	79
DGBDDEAD	1	DGB	76	DIBERCI	(2D)	DIB	79
DGBDESC	(0)	DGB	75	DIBFMHLN	(28)	DIB	79
DGBDFAIL	(BIT)	DGB	75	DIBFMHTY	(29)	DIB	79
DGBDIMMT	1	DGB	76	DIBIDDSP	(19)	DIB	78
DGBDISTY	(D4)	DGB	76	DIBIDNAM	(1F)	DIB	79
DGBDLP	(C)	DGB	75	DIBIDNL	(1E)	DIB	79
DGBDORDT	1	DGB	76	DIBIDSEL	(19)	DIB	78
DGBDPHS1	1	DGB	76	DIBIDSF	(1A)	DIB	78
DGBDPHS2	1	DGB	76	DIBIDSP	(19)	DIB	78
DGBDREDY	1	DGB	76	DIBIERCI	(1B)	DIB	78
DGBDRMCT	75			DIBIFDAI	(BIT)	DIB	78
DGBDSENO	(20)	DGB	75	DIBIFDAO	(BIT)	DIB	78
DGBDSSHUT	1	DGB	76	DIBIFDIN	(BIT)	DIB	78
DGBDSTAT	(24)	DGB	75	DIBIFDIS	(BIT)	DIB	78
DGBDSTATCS	(24)	DGB	75	DIBIFDSI	(BIT)	DIB	78
DGBDSTCT	(25)	DGB	75	DIBIFDSO	(BIT)	DIB	78
DGBDTIM	(C)	DGB	76	DIBIFDSS	(BIT)	DIB	78
DGBDTIME	(D5)	DGB	76	DIBIFMLN	(16)	DIB	78

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DIBIFMTY (17) DIB 78  
 DIBIFOSL (11) DIB 78  
 DIBIFOSP (12) DIB 78  
 DIBIFSEL (10) DIB 78  
 DIBIMSB (18) DIB 78  
 DIBIRSV2 (1C) DIB 78  
 DIBISDNL (27) DIB 79  
 DIBISRI (19) DIB 78  
 DIBKYD (41) DIB 79  
 DIBKYL (40) DIB 79  
 DIBMSB (2A) DIB 79  
 DIBNICFN 78  
 DIBNINRS (15) DIB 78  
 DIBRSVD2 (2E) DIB 79  
 DIBSCFGS (0) DIB 78  
 DIBSCNTL (2) DIB 78  
 DIBSENSE (8) DIB 78  
 DIBSRI (2B) DIB 79  
 DIBSSI (8) DIB 78  
 DIBTSLGN (4) DIB 78  
 DIBTSRES (6) DIB 78  
 DIBUSI (A) DIB 78  
 DIBVNAM (3A) DIB 79  
 DIBVNL (39) DIB 79  
 dictionary  
   monitoring dictionary entry, MCTDR 229  
 DICTNTRY (0) MCTDR 229  
 difference  
   XRF CAVM time-of-day clock difference, WSC 537  
 DIRARRW (2) TMDSG 437  
 DIRBADD 436  
 DIRBALI (BIT) TMDEL 436  
 DIRBDEL (BIT) TMDEL 436  
 DIRBFIXD (BIT) TMDEL 436  
 DIRBFREE (BIT) TMDEL 436  
 DIRBINDX (BIT) TMDEL 436  
 DIRBPRIM (BIT) TMDEL 436  
 DIRBTEAQ (BIT) TMDEL 436  
 DIRDFH (3) TMDSG 437  
 directory  
   table manager directory element, TMDEL 436  
   table manager directory segment, TMDSG 437  
 DIREINFO (0) TMDEL 436  
 DIRELEM (0) TMDEL 436  
 DIRELEMA (18) TMDSG 437  
 DIRETTC (18) TMDEL 436  
 DIREYEC (8) TMDSG 437  
 DIRGNCHN (10) TMDEL 436  
 DIRGPCHN (14) TMDEL 436  
 DIRHDR (0) TMDSG 437  
 DIRHSCHN (4) TMDEL 436  
 DIRINFO (10) TMDSG 437  
 DIRKEY (1C) TMDEL 436  
 DIRLNTH (0) TMDSG 437  
 DIROWCHN (8) TMDEL 436  
 DIRPRIME (C) TMDEL 436  
 DIRSEG (0) TMDSG 437  
 DIRSGCHN (10) TMDSG 437  
 DIRSTATS (19) TMDEL 436  
 DIRTEA (0) TMDEL 436  
 DIRTM (6) TMDSG 437  
 DIRTYPE (1A) TMDEL 436  
 dispatcher  
   dispatcher statistics, DSG 85  
   XRF dispatcher interface, WDI 519  
 DISPKWA (104) SPI 324  
 DISPLAYAC (BIT) SPI 324  
 DISPLAYTY (100) SPI 324  
 DL/I  
   DL/I general purpose macro, CTXPA 63  
   DL/I general purpose macro, CWE 64  
   DL/I general purpose macro, DLP 80  
   DL/I general purpose macro, RPD 279  
   DL/I general purpose macro, RSB 280, 283  
 DLIFLG (0) SIT 301  
 DLIPSBCK (BIT) SIT 302  
 DLP 80  
 DLPDFEND 80  
 DLPDGB 80  
 DLPDIRSF (2) SIT 302  
 DLPDISPL (BIT) DLP 80  
 DLPDLFLG (10) DLP 80  
 DLPDLI 80  
 DLPDLRE (BIT) DLP 80  
 DLPDPEP (18) DLP 80  
 DLPDPEP 80  
 DLPEYE (0) DLP 80  
 DLPFLG 80  
 DLPPSBCK (BIT) DLP 80  
 DLPRPDIR (28) DLP 80  
 DLPRPEP (1C) DLP 80  
 DLPXRF (BIT) DLP 80  
 DLXDF\_ENTRY 2 DUA 96  
 DLXDF\_EXIT 2 DUA 96  
 DLXDF\_RECOVERY 2 DUA 96  
 document  
   document handler template exitpgm interface, DHTX 77  
 domain  
   application domain global statistics, APSTG 9  
   application domain trandef extension, APXDC 11  
   domain subpool storage statistics, SMD 310  
   domain subroutine equates, ZGDC 591  
   dump domain authorised parameter block, DUAFB 98  
   dump domain control blocks, DUA 89  
   dump domain global statistics, SDG 287  
   dump domain global statistics, DUGS 100  
   dump domain system dump statistics, SDR 288  
   dump domain transaction dump statistics, DUTD 101  
   monitoring domain statistics, MNG 234  
   monitoring domain user EMP structure, MNEMP 232  
   recovery manager domain inline access, RMUXC 279  
   statistics domain statistics, STG 330  
   temporary storage domain statistics, TSG 460  
   trace domain - common structures, TRA 447  
   trace domain - common structures, TRBL 450  
 DRXASM (BIT) RSB 282, 285  
 DRXATPN (EC) RSB 282, 285  
 DRXBUFAL (BIT) RSB 282, 285  
 DRXCALL (BIT) RSB 282, 285  
 DRXCHAIN (D0) RSB 282, 285  
 DRXCHKP (BIT) RSB 282, 285  
 DRXCMPPT (BIT) RSB 282, 285  
 DRXCOB (BIT) RSB 282, 285  
 DRXDLTR (DE) RSB 282, 285  
 DRXDPCB (BIT) RSB 282, 285  
 DRXFCTR (DD) RSB 282, 285  
 DRXFLG1 (E0) RSB 282, 285  
 DRXFUNC (BIT) RSB 282, 285  
 DRXHPLI (BIT) RSB 282, 285  
 DRXINDEX (D8) RSB 282, 285  
 DRXIOAWK (D4) RSB 282, 285  
 DRXIOLEN (E8) RSB 282, 285  
 DRXISC (DA) RSB 282, 285  
 DRXISCI (DC) RSB 282, 285  
 DRXISCO (DB) RSB 282, 285  
 DRXLANG (DF) RSB 282, 285  
 DRXLEN (BIT) RSB 282, 285  
 DRXLNKNA (BIT) RSB 282, 285  
 DRXLNKSH (BIT) RSB 282, 285  
 DRXNOSTT (BIT) RSB 282, 285  
 DRXPCBAL (CC) RSB 282, 285  
 DRXPCBM (BIT) RSB 282, 285  
 DRXPLI (BIT) RSB 282, 285  
 DRXRCDE1 (ED) RSB 282, 285  
 DRXRCDE2 (EE) RSB 282, 285  
 DRXRCDE3 (EF) RSB 282, 285  
 DRXRCDE4 (F0) RSB 282, 285  
 DRXRCDE5 (F1) RSB 282, 285  
 DRXRCDE6 (F2) RSB 282, 285  
 DRXRCODE (ED) RSB 282, 285  
 DRXRETAD (E4) RSB 282, 285  
 DRXRPSB (C4) RSB 282, 285  
 DRXSPIE (BIT) RSB 282, 285  
 DRXSSASZ (C0) RSB 282, 285  
 DRXSTRT (C0) RSB 282, 285  
 DRXSYNC (BIT) RSB 282, 285  
 DS1050 (BIT) TTP 469  
 DS2740 (BIT) TTP 470  
 DS2740BR (BIT) TTP 470  
 DS2741 (BIT) TTP 470  
 DS2770 (BIT) TTP 470  
 DS2780 (BIT) TTP 470  
 DS2980 (BIT) TTP 470  
 DS2980M4 (BIT) TTP 470  
 DS3270HC (BIT) TTP 470  
 DS3270M1 (BIT) TTP 470

```

DS3270M2 (BIT) TTP 470
DS327PHC (BIT) TTP 470
DS327PM1 (BIT) TTP 470
DS327PM2 (BIT) TTP 470
DS3601 (BIT) TTP 470
DS3650UP (BIT) TTP 470
DS3653 (BIT) TTP 470
DS3780 (BIT) TTP 470
DSA
  LIFO parameter list and standard DSA, LFM 202
DSB 81
DSB_OFF 0 DSB 84
DSB_ON 0 DSB 84
DSB_WAIT (BIT) DSB 81
DSBADDIS 4 DSB 84
DSBADGMA (3C) DSB 81
DSBADNRY 4 DSB 84
DSBALTY (45) DSB 81
DSBCADUP 4 DSB 84
DSBCANCD 4 DSB 84
DSBCHLU (BIT) TTP 470
DSBCTLCT 81
DSBDBPCB (30) DSB 81
DSBDESC (0) DSB 81
DSBDGB (C) DSB 81
DSBDLALTYA (14) DSB 83
DSBDLAPR1A 83
DSBDLI_REQ 1 DSB 84
DSBDLIP (0) DSB 83
DSBDLIR (0) DSB 83
DSBDLPRETC (4) DSB 83
DSBDLRESPA (8) DSB 83
DSBDLRESPL (0) DSB 83
DSBDLRTYPA (0) DSB 83
DSBDLSEGL (8) DSB 83
DSBDLTTOKA (4) DSB 83
DSBFLAGS (21) DSB 81
DSBGTRACE (190) DSB 82
DSBIFDUP 4 DSB 84
DSBINAGNA (10) DSB 82
DSBINAPLID (18) DSB 82
DSBINCTLXA (24) DSB 82
DSBINCTOKN (C) DSB 82
DSBINDBCID (8) DSB 82
DSBINDBID (C) DSB 82
DSBININTKA (28) DSB 82
DSBINIP (0) DSB 82
DSBINIR (0) DSB 82
DSBINIT_REQ 1 DSB 84
DSBINMONXA (2C) DSB 82
DSBINNLD 4 DSB 84
DSBINPCTOKN (3C) DSB 82
DSBINPRETC (4) DSB 82
DSBINRESPA (8) DSB 82
DSBINRESPL (0) DSB 82
DSBINRESXA (20) DSB 82
DSBINRMC (BIT) DSB 81
DSBINRTYPA (0) DSB 82
DSBINSTAXA (34) DSB 82
DSBINSTSUA (14) DSB 82
DSBINSTSXA (38) DSB 82
DSBINSUSXA (1C) DSB 82
DSBINTOKXA (30) DSB 82
DSBINTTOKA (4) DSB 82
DSBIOREQ (BIT) DSB 81
DSBLAIB 1 DSB 84
DSBLASM 1 DSB 84
DSBLATFM (40) DSB 81
DSBLCOB 1 DSB 84
DSBLFOR 1 DSB 84
DSBLPLI 1 DSB 84
DSBLSFL (2B) DSB 81
DSBLSFL_CICS 1 DSB 84
DSBMAXIO (34) DSB 81
DSBMAXKE (38) DSB 81
DSBMONI (90) DSB 82
DSBPARMS (50) DSB 82
DSBPCBL (2C) DSB 81
DSBPLTY (44) DSB 81
DSBPRETC (4) DSB 84
DSBPRETC_ABEND 1 DSB 84
DSBPRETC_ABEND_DRASNAP 1 DSB 84
DSBPRETC_ABEND_SNAP 1 DSB 84
DSBPRETC_FLAGS (4) DSB 84
DSBPRETC_RETURN 1 DSB 84
DSBPRETC_STATUS 1 DSB 84
DSBPRETC_SYSTEM (5) DSB 84
DSBPRETC_USER (6) DSB 84
DSBPSALTYA (14) DSB 83
DSBPSB_REQ 1 DSB 84
DSBPSBNM (22) DSB 81
DSBPSBP (0) DSB 83
DSBPSBR (0) DSB 83
DSBPSDBPCB (C) DSB 83
DSBPSDEADA (18) DSB 83
DSBPSFLAGS (3) DSB 83
DSBPSK 81
DSBPSLSFLA (1C) DSB 83
DSBPSMAXIO (10) DSB 83
DSBPSMAXKE (14) DSB 83
DSBPSMONIA (10) DSB 83
DSBPSPCBL (8) DSB 83
DSBPSPLTY (2) DSB 83
DSBPSPRETC (4) DSB 83
DSBPSPSBNA (20) DSB 83
DSBPSPSK 83
DSBPSRESPA (8) DSB 83
DSBPSRESPL (0) DSB 83
DSBPSRTYPA (0) DSB 83
DSBPSTTOKA (4) DSB 83
DSBPSUSERA (C) DSB 83
DSBRES_REQ 1 DSB 84
DSBRESPW (18) DSB 81
DSBRTYP (20) DSB 81
DSBSCHED (BIT) DSB 81
DSBSEGA (4C) DSB 81
DSBSEGL 81
DSBSHU_REQ 1 DSB 84
DSBSSX (1C) DSB 81
DSBTCA (8) DSB 81
DSBTECB (14) DSB 81
DSBTEELMAX (10) DSB 83
DSBTEHIWAT (14) DSB 83
DSBTEMATHD (8) DSB 83
DSBTEMITHD (C) DSB 83
DSBTEPRETC (4) DSB 83
DSBTERESPA (8) DSB 82
DSBTERESPL (0) DSB 82
DSBTERM_REQ 1 DSB 84
DSBTERP (0) DSB 82
DSBTERR (0) DSB 82
DSBTERT_ABND 1 DSB 84
DSBTERT_IMM 1 DSB 84
DSBTERT_ORD 1 DSB 84
DSBTERTYPA (0) DSB 82
DSBTETTOKA (4) DSB 82
DSBTETTYYP_CHKPT 1 DSB 84
DSBTETTYYP_FAST 1 DSB 84
DSBTETTYYP_SLOW 1 DSB 84
DSBTETTYYP 82
DSBTIMEO (2C) DSB 81
DSBTRLV2 (BIT) DSB 81
DSBTRPRE 4 DSB 84
DSBTOK (10) DSB 81
DSBUNSUP 4 DSB 84
DSBWRTH (2A) DSB 81
DSBWRTH_CICS 1 DSB 84
DSCRLP (BIT) TTP 469
DSDISK (BIT) TTP 469
DSECT
  BMS map object DSECT, MAP 219
  BMS message control record DSECT, MCR 228
  BMS page control area DSECT, PGA 268
  program control user exits DSECT, PCUES 260
dsects
  command level interface dsects, EIPDS 118
DSET_TRLR_PTR (14) DJA 93
DSF22601 (BIT) TTP 469
DSF22602 (BIT) TTP 469
DSG 85
DSGACT (48) DSG 86
DSGASIZE 85
DSGCLEN (BIT) DSG 86
DSGCNT (E) DSG 85
DSGCNUAT (58) DSG 85
DSGCNUUS (60) DSG 85

```

"Restricted Materials of IBM"  
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DSGCURNW (4C) DSG 85  
 DSGCURWT (40) DSG 85  
 DSGDVERS (4) DSG 85  
 DSGEJST (28) DSG 85  
 DSGEND 86  
 DSGICVRT (6C) DSG 85  
 DSGICVSD (C) DSG 85  
 DSGICVT 85  
 DSGID (2) DSG 85  
 DSGIDE (BIT) DSG 85  
 DSGLEN 85  
 DSGLSTRT (20) DSG 85  
 DSGMAXOP (54) DSG 85  
 DSGMCLN (BIT) DSG 85  
 DSGMEND (BIT) DSG 85  
 DSGNTCBA (10) DSG 86  
 DSGNTCBL (68) DSG 85  
 DSGPEANW (50) DSG 85  
 DSGPNT (10) DSG 85  
 DSGPNUAT (5C) DSG 85  
 DSGPNUUS (64) DSG 85  
 DSGPRIAG (70) DSG 85  
 DSGSRBT (30) DSG 85  
 DSGSTART 85  
 DSGSYSW (C) DSG 86  
 DSGTCB (0) DSG 86  
 DSGTCBCA 86  
 DSGTCBDO (1C) DSG 86  
 DSGTCBDS (18) DSG 86  
 DSGTCBDU (14) DSG 86  
 DSGTCBNM (0) DSG 86  
 DSGTCBPA (8) DSG 86  
 DSGTCBST (20) DSG 86  
 DSGTCT (40) DSG 86  
 DSGTDT (38) DSG 86  
 DSGTOTNW (48) DSG 85  
 DSGTOTWL (38) DSG 85  
 DSGTWT 86  
 DSGVERS (BIT) DSG 85  
 DSINTLU (BIT) TTP 470  
 DSN 87  
 DSTAPE (BIT) TTP 469  
 DSTWX (BIT) TTP 469  
 DTB (0) DUA 90  
 DTB\_ARROW (2) DUA 90  
 DTB\_BLOCK\_NAME (8) DUA 90  
 DTB\_DFH (3) DUA 90  
 DTB\_DOMID (6) DUA 90  
 DTB\_LENGTH (0) DUA 90  
 DTB\_NEXT (10) DUA 90  
 DTB\_PREFIX (0) DUA 90  
 DTCADVB (28) EICD1 117  
 DTCARG0 (0) EICD1 117  
 DTCEND (34) EICD1 117  
 DTCIND (1A) EICD1 117  
 DTCINFO (0) EICD1 117  
 DTCKEYS (18) EICD1 117  
 DTCVERB (1C) EICD1 117  
 DTE (0) DUA 91  
 DTE\_COUNT (18) DUA 91  
 DTE\_DAEOP (2C) DUA 91  
 DTE\_DUMPSCOPE (8) DUA 91  
 DTE\_DUMPSCOPE (10) DUA 91  
 DTE\_LOCAL 1 DUA 95  
 DTE\_MAXIMUM\_DUMPS (14) DUA 91  
 DTE\_NEXT (0) DUA 91  
 DTE\_PREV (4) DUA 91  
 DTE\_RELATED 1 DUA 95  
 DTE\_SYS\_DUMPS\_SUPPRESSED (28) DUA 91  
 DTE\_SYS\_DUMPS\_TAKEN (24) DUA 91  
 DTE\_SYSTEM\_DUMP (12) DUA 91  
 DTE\_TERMINATE\_CICS (13) DUA 91  
 DTE\_TRAN\_DUMPS\_SUPPRESSED (20) DUA 91  
 DTE\_TRAN\_DUMPS\_TAKEN (1C) DUA 91  
 DTE\_TRANSACTION\_DUMP (11) DUA 91  
 DTEBLOCK\_SIZE 4 DUA 95  
 DU\_ABEND\_MSG 4 DUA 97  
 DU\_ERROR\_MSG 4 DUA 97  
 DU\_LOOP\_MSG 4 DUA 97  
 DUA 89  
 DUA (0) DUA 89  
 DUA\_APPLID (10) DUA 89  
 DUA\_ARROW (2) DUA 89  
 DUA\_BLOCK\_NAME (8) DUA 89  
 DUA\_BTTBLOCKHEAD (138) DUA 90  
 DUA\_BTTFIRST (140) DUA 90  
 DUA\_BTTFREEHEAD (13C) DUA 90  
 DUA\_BTTHEAD (140) DUA 90  
 DUA\_BTTLAST (144) DUA 90  
 DUA\_CALLER\_LEN (48) DUA 89  
 DUA\_CALLER\_PTR (4C) DUA 89  
 DUA\_COLD\_START (BIT) DUA 89  
 DUA\_CSVDYNEX\_RC 89  
 DUA\_CSVDYNEX\_REASON (60) DUA 89  
 DUA\_DAE\_DEFAULT (BIT) DUA 92  
 DUA\_DFH (3) DUA 89  
 DUA\_DOMID (6) DUA 89  
 DUA\_DUMP\_NO (108) DUA 90  
 DUA\_DUMP\_STR (10C) DUA 90  
 DUA\_DUMP\_TABLE\_INIT (BIT) DUA 89  
 DUA\_DUMP\_TRACE\_FLAG (14) DUA 92  
 DUA\_DUMP\_TRACE\_SIZE (10) DUA 92  
 DUA\_DUMP\_TRACE\_TYPE (BIT) DUA 92  
 DUA\_FLAGS 89  
 DUA\_FT\_COUNT (170) DUA 90  
 DUA\_FTBLOCKHEAD (160) DUA 90  
 DUA\_FTFIRST (168) DUA 90  
 DUA\_FTFREEHEAD (164) DUA 90  
 DUA\_FTHEAD (168) DUA 90  
 DUA\_FTLAST (16C) DUA 90  
 DUA\_FTLOCK\_TOKEN (15C) DUA 90  
 DUA\_LAST\_RESET\_TIME (30) DUA 89  
 DUA\_LENGTH (0) DUA 89  
 DUA\_MESSAGE\_LEN (38) DUA 89  
 DUA\_MESSAGE\_PTR (3C) DUA 89  
 DUA\_PREFIX (0) DUA 89  
 DUA\_REMOTE\_DUMPS (BIT) DUA 89  
 DUA\_RETRY\_TIME 92  
 DUA\_RUN\_NO (0) DUA 92  
 DUA\_SDMLOCK\_TOKEN (14C) DUA 90  
 DUA\_SDTBLOCKHEAD 90  
 DUA\_SDTFIRST (128) DUA 90  
 DUA\_SDTFREEHEAD (120) DUA 90  
 DUA\_SDTHEAD (128) DUA 90  
 DUA\_SDTLAST (12C) DUA 90  
 DUA\_SDUMP\_IN\_PROGRESS (BIT) DUA 89  
 DUA\_SSS\_LEN (50) DUA 89  
 DUA\_SSS\_PTR (54) DUA 89  
 DUA\_STATS\_BUFFER\_PTR (148) DUA 90  
 DUA\_SYDUMAX\_DEFAULT (1C) DUA 92  
 DUA\_SYS\_DUMPS\_SUPPRESSED (24) DUA 89  
 DUA\_SYS\_DUMPS\_TAKEN (20) DUA 89  
 DUA\_SYSTEM\_DUMPSCOPE (18) DUA 89  
 DUA\_TABLOCK\_TOKEN 90  
 DUA\_TDTBLOCKHEAD (11C) DUA 90  
 DUA\_TDTFIRST (130) DUA 90  
 DUA\_TDTFREEHEAD (124) DUA 90  
 DUA\_TDTHEAD (130) DUA 90  
 DUA\_TDTLAST (134) DUA 90  
 DUA\_TERMINATING (BIT) DUA 89  
 DUA\_TITLE\_LEN (40) DUA 89  
 DUA\_TITLE\_PTR (44) DUA 89  
 DUA\_TRAN\_DUMPS\_SUPPRESSED (2C) DUA 89  
 DUA\_TRAN\_DUMPS\_TAKEN (28) DUA 89  
 DUA\_TRDUMAX\_DEFAULT (18) DUA 92  
 DUA\_XD\_AREA 89  
 DUAFB 98  
 DUCAT 90  
 DUDD\_PLIST (8) DUA 93  
 DUGS 100  
 DUID\_DUA 4 DUA 95  
 DUID\_DUMP\_HEADER 4 DUA 95  
 DUIO\_CHK 2 DUA 96  
 DUIO\_CHK\_RET 2 DUA 96  
 DUIO\_CLOSED 2 DUA 96  
 DUIO\_CLOSED\_RET 2 DUA 96  
 DUIO\_DCB\_ABEND 2 DUA 96  
 DUIO\_DEVTYPE 2 DUA 96  
 DUIO\_DEVTYPE\_RET 2 DUA 96  
 DUIO\_DOPEN 2 DUA 96  
 DUIO\_DOPEN\_RET 2 DUA 96  
 DUIO\_DWRITE 2 DUA 96  
 DUIO\_DWRITE\_RET 2 DUA 96  
 DUIO\_ENTRY 2 DUA 96  
 DUIO\_ENTRY\_POINT (B8) DUA 89  
 DUIO\_EXIT 2 DUA 96

DUIO\_FRMAIN 2 DUA 96  
DUIO\_FRMAIN\_RET 2 DUA 96  
DUIO\_FRPOOL 2 DUA 96  
DUIO\_FRPOOL\_RET 2 DUA 96  
DUIO\_GMAIN 2 DUA 96  
DUIO\_GMAIN\_RET 2 DUA 96  
DUIO\_LOAD\_ERROR 4 DUA 97  
DUIO\_NOTE 2 DUA 96  
DUIO\_NOTERET 2 DUA 96  
DUIO\_POINT 2 DUA 96  
DUIO\_POINTRET 2 DUA 96  
DUIO\_RECOVERY 2 DUA 96  
dump  
  dump domain authorised parameter block, DUAFB 98  
  dump domain control blocks, DUA 89  
  dump domain global statistics, SDG 287  
  dump domain global statistics, DUGS 100  
  dump domain system dump statistics, SDR 288  
  dump domain transaction dump statistics, DUTD 101  
  transaction dump record formats, DCR 66  
DUMP\_HEADER\_RECORD (0) DCR 67  
DUMP\_TRACE\_ALL 0 DUA 94  
DUMP\_TRACE\_TRAN 0 DUA 94  
DUMPX\_ENTRY\_ID 2 DUA 97  
DUMPX\_EXIT\_ID 2 DUA 97  
DUMPX\_WLM\_CALL 2 DUA 97  
DUMPX\_WLM\_ERROR 2 DUA 97  
DUMPX\_WLM\_RET 2 DUA 97  
DUNM\_DUA 8 DUA 95  
DUPFND 1 TMRQ 440  
DUSU\_DYNALLOC\_ENTER 2 DUA 96  
DUSU\_DYNALLOC\_RETURN 2 DUA 96  
DUSU\_ENTRY 2 DUA 96  
DUSU\_EXIT 2 DUA 96  
DUSU\_FRMAIN 2 DUA 96  
DUSU\_FRMAIN\_RET 2 DUA 96  
DUSU\_MSG 97  
DUSU\_MSG#1 97  
DUSU\_REASON\_FLAGS (DC) DUA 89  
DUSU\_RECOVERY 2 DUA 96  
DUSVC\_INVALID\_PROBDESC 2 DUA 97  
DUSVC\_REMOTE\_SDUMP 2 DUA 97  
DUTD 101  
DUXD\_ACTIVE (BIT) DUA 90  
DUXD\_ACTIVE\_NO 0 DUA 94  
DUXD\_ACTIVE\_YES 0 DUA 94  
DUXD\_ENTRY 2 DUA 96  
DUXD\_EXIT 2 DUA 96  
DUXD\_RECOVERY 2 DUA 96  
DUXW\_ENTRY 2 DUA 96  
DUXW\_EXIT 2 DUA 96  
DUXW\_RECOVERY 2 DUA 96  
DUXWREC\_COUNT (DE) DUA 90  
DWE 102  
DWEAD (BIT) DWE 102  
DWECHAN (8) DWE 102  
DWECHMNEA (1C) DWE 102  
DWECLNM (BIT) DWE 102  
DWEDYNB (BIT) DWE 102  
DWEEEXT (BIT) DWE 102  
DWEEYECA (2) DWE 102  
DWELENG (0) DWE 102  
DWELXDA 102  
DWEODFN (11) DWE 102  
DWEPHS2 (BIT) DWE 102  
DWEPSAD (BIT) DWE 102  
DWEPSRCV (1E) DWE 102  
DWEPSRNM (1C) DWE 102  
DWEPSSTT (1F) DWE 102  
DWEPTOK (20) DWE 102  
DWESHUNT (BIT) DWE 102  
DWESKAD (BIT) DWE 102  
DWESKWQE (1C) DWE 102  
DWESMF 102  
DWESMFNT (BIT) DWE 102  
DWESTAT (10) DWE 102  
DWESVMID (12) DWE 102  
DWESVMNA (C) DWE 102  
DWEVTNO (BIT) DWE 102  
DWEVTYES (BIT) DWE 102  
DX\_CB\_ID (4) DXQEL 104  
DX\_CC 104  
DX\_EOT\_ECB (14) DXQEL 104

DX\_EP\_ADDR (18) DXQEL 104  
DX\_FLGS1 (10) DXQEL 104  
DX\_LOCK (BIT) DXQEL 104  
DX\_NEXT\_Q (0) DXQEL 104  
DX\_PARM\_LEN (1C) DXQEL 104  
DX\_PARAMS (20) DXQEL 104  
DX\_Q\_ELEMENT (0) DXQEL 104  
DX\_TCB (C) DXQEL 104  
DXALTFND (43) DXUEP 105  
DXAPPLID (41) DXUEP 105  
DXAXIBA (8) DXPS 103  
DXAXIGP (C) DXPS 103  
DXAXIPT (10) DXPS 103  
DXCMDISS (44) DXUEP 105  
DXDBCID (18) DXPS 103  
DXDBCTL (BIT) DXUEP 105  
DXDBDC (BIT) DXUEP 105  
DXEQJES (42) DXUEP 105  
DXERECMP 103  
DXEREECB 103  
DXEREF LG (BIT) DXPS 103  
DXFLGS1 (1C) DXPS 103  
DXHOTSBY (BIT) DXUEP 105  
DXLSTMSG (0) DXPS 103  
DXMSG\_ALT (BIT) DBWMS 65  
DXMSG\_APPLID (BIT) DBWMS 65  
DXMSG\_CATCH (BIT) DBWMS 65  
DXMSG\_CMD (BIT) DBWMS 65  
DXMSG\_CON (BIT) DBWMS 65  
DXMSG\_DBCF (BIT) DBWMS 65  
DXMSG\_DISC (BIT) DBWMS 65  
DXMSG\_DRAF (BIT) DBWMS 65  
DXMSG\_ERROR (BIT) DBWMS 65  
DXMSG\_FLGS1 (4C) DBWMS 65  
DXMSG\_FLGS2 65  
DXMSG\_JES (BIT) DBWMS 65  
DXMSG\_MVSID (BIT) DBWMS 65  
DXMSG\_WMSASID (3A) DBWMS 65  
DXMSG\_WMSCTIME (44) DBWMS 65  
DXMSG\_WMSDBCID (0) DBWMS 65  
DXMSG\_WMSDTIME (48) DBWMS 65  
DXMSG\_WMSJTYPE (3C) DBWMS 65  
DXMSG\_WMSJESID (35) DBWMS 65  
DXMSG\_WMSJNAME (C) DBWMS 65  
DXMSG\_WMSJOBID (14) DBWMS 65  
DXMSG\_WMSRSENEM (4) DBWMS 65  
DXMSG\_WMSSIND (20) DBWMS 65  
DXMSG\_WMSSMFD (1C) DBWMS 65  
DXMSG\_WMSSNAM (29) DBWMS 65  
DXMSG\_WMSSPLX 65  
DXMSG\_WMSSTOK (31) DBWMS 65  
DXMSG\_WMSUERC (40) DBWMS 65  
DXMSG\_XCFA (BIT) DBWMS 65  
DXMVSID (40) DXUEP 105  
DXPS 103  
DXQEL 104  
DXRTRCNT (14) DXPS 103  
DXSQHDR (4) DXPS 103  
DXUEP 105  
DXXCFA (BIT) DXUEP 105  
dynamic  
  EXEC interface dynamic storage, EISTG 125

## E

ECA 109  
ECA\_LENGTH 4 ECA 110  
ECA\_POSTBIT 4 ECA 110  
ECATECB (0) ECA 109  
ECB (0) DUA 94  
ECB\_PTR (18) DUA 93  
EDF 110  
  EDF communication area, EDF 110  
EDF\_APPL\_STATIC\_STG\_LEN (94) EDF 111  
EDF\_APPL\_STATIC\_STG\_PTR (90) EDF 111  
EDF\_DLA\_CEDF\_TASK\_USE (10C) EDF 111  
EDF\_DLA\_USAGE 111  
EDF\_DLA\_USER\_TASK\_USE (108) EDF 111  
EDF\_USRTASK\_SUSPTOK (88) EDF 111  
EDFABRA (38) EDF 110  
EDFACP (40) EDF 110  
EDFBDAM (BIT) EDF 110

"Restricted Materials of IBM"  
 Licensed Materials – Property of IBM

EDFCALEN 110  
 EDFCOMAA (60) EDF 110  
 EDFCTL1 (15) EDF 110  
 EDFCTL2 (16) EDF 110  
 EDFCTL3 (17) EDF 110  
 EDFCTL4 (18) EDF 110  
 EDFCTL5 (C0) EDF 111  
 EDFCTL6 (C1) EDF 111  
 EDFDBCNT (BIT) EDF 110  
 EDFDSLEN (10C) EDF 111  
 EDFDTMOK (BIT) EDF 110  
 EDFENV (30) EDF 110  
 EDFFERMSA (B4) EDF 111  
 EDFFCF (BIT) EDF 110  
 EDFFCKL (36) EDF 110  
 EDFFCRF 110  
 EDFFCRL (34) EDF 110  
 EDFFCV (BIT) EDF 110  
 EDFINT (A0) EDF 111  
 EDFISAM (BIT) EDF 110  
 EDFIVPS (BIT) EDF 110  
 EDFLINK (BIT) EDF 110  
 EDFMSA (74) EDF 110  
 EDFNIS (BIT) EDF 110  
 EDFOPSYS (1B) EDF 110  
 EDFOUTD (BIT) EDF 110  
 EDFPAGD (BIT) EDF 110  
 EDFPGMID (28) EDF 110  
 EDFPGLN (6C) EDF 110  
 EDFPLBA (48) EDF 110  
 EDFPSW (98) EDF 111  
 EDFPUBA (4C) EDF 110  
 EDFRABND (BIT) EDF 111  
 EDFREGS 111  
 EDFRPEND (BIT) EDF 111  
 EDFSECCL (8C) EDF 111  
 EDFSECV (BIT) EDF 110  
 EDFSITOD (B8) EDF 111  
 EDFSTKCM (BIT) EDF 111  
 EDFSTRT (BIT) EDF 110  
 EDFSYST 111  
 EDFTCAAD 111  
 EDFTOS (19) EDF 110  
 EDFTSADR (70) EDF 110  
 EDFUACP (3C) EDF 110  
 EDFUARSA (58) EDF 110  
 EDFUASTG (1C) EDF 110  
 EDFUCDB (24) EDF 110  
 EDFUEIA (0) EDF 110  
 EDFUEIBP (10) EDF 110  
 EDFUEIDL (A8) EDF 111  
 EDFUEIEX (68) EDF 110  
 EDFUEILR (7C) EDF 111  
 EDFUEISP (C) EDF 110  
 EDFUJSA (AB) EDF 111  
 EDFUOPT2 (AA) EDF 111  
 EDFUQTID (54) EDF 110  
 EDFUR1 (8) EDF 110  
 EDFUR1SA (78) EDF 111  
 EDFURE (20) EDF 110  
 EDFURM (BIT) EDF 110  
 EDFURSAP (44) EDF 110  
 EDFUTCA (4) EDF 110  
 EDFUTCTA (50) EDF 110  
 EDFUTCTR (37) EDF 110  
 EDFUTEDA (64) EDF 110  
 EDFUTPG (BIT) EDF 110  
 EDFUTRTO (1A) EDF 110  
 EDFUTXID (BC) EDF 111  
 EDFUTXNO (B0) EDF 111  
 EDFVSAM (BIT) EDF 110  
 EDFWSLN (AC) EDF 111  
 EDFXA (14) EDF 110  
 EIA (0) EIPDS 119  
 EIAARG0 (0) EIPDS 119  
 EIAARG1 (4) EIPDS 119  
 EIAARG10 (28) EIPDS 119  
 EIAARG11 (2C) EIPDS 119  
 EIAARG12 (30) EIPDS 119  
 EIAARG13 (34) EIPDS 119  
 EIAARG14 (38) EIPDS 119  
 EIAARG15 (3C) EIPDS 119  
 EIAARG16 (40) EIPDS 119  
 EIAARG2 (8) EIPDS 119  
 EIAARG3 (C) EIPDS 119  
 EIAARG4 (10) EIPDS 119  
 EIAARG5 (14) EIPDS 119  
 EIAARG6 (18) EIPDS 119  
 EIAARG7 (1C) EIPDS 119  
 EIAARG8 (20) EIPDS 119  
 EIAARG9 (24) EIPDS 119  
 EIB 112  
 EIBAID (1A) EIB 112  
 EIBATT (3F) EIB 112  
 EIBCALEN (18) EIB 112  
 EIBCOMPL (42) EIB 112  
 EIBCONF (44) EIB 112  
 EIBCPOSN (16) EIB 112  
 EIBDATE (4) EIB 112  
 EIBDS (23) EIB 112  
 EIBEOC (40) EIB 112  
 EIBERR (45) EIB 112  
 EIBERRCD (46) EIB 112  
 EIBFMH (41) EIB 112  
 EIBFN (1B) EIB 112  
 EIBFREE (3C) EIB 112  
 EIBLENG (BIT) EIB 112  
 EIBNODAT (4B) EIB 112  
 EIBRCODE (1D) EIB 112  
 EIBRECV (3D) EIB 112  
 EIBREQID (2B) EIB 112  
 EIBRESP (4C) EIB 112  
 EIBRESP2 (50) EIB 112  
 EIBRLDBK (54) EIB 112  
 EIBRSRCE (33) EIB 112  
 EIBRSVD1 (14) EIB 112  
 EIBSEND (3E) EIB 112  
 EIBSIG (43) EIB 112  
 EIBSYNC (3B) EIB 112  
 EIBSYNRB (4A) EIB 112  
 EIBTASKN (C) EIB 112  
 EIBTIME (0) EIB 112  
 EIBTRMID (10) EIB 112  
 EIBTRNID (8) EIB 112  
 EIC 113  
 EIC (0) EIC 113  
 EIC (0) EIPDS 119  
 EIC\_APCOMM31 (BIT) EIPDS 119  
 EIC\_APCOMM31 1 EIC 113  
 EIC\_COMMAREA\_ADDRESS (0) EIC 113  
 EIC\_COMMAREA\_ADDRESS (0) EIPDS 119  
 EIC\_SUBPOOL (4) EIC 113  
 EIC\_SUBPOOL (4) EIPDS 119  
 EICBB (E) EIC 113  
 EICBB (E) EIPDS 119  
 EICBEG (0) EIC 113  
 EICBEG (0) EIPDS 119  
 EICD1 114  
 EICDBA (10) EIC 113  
 EICDBA (10) EIPDS 119  
 EICLL (C) EIC 113  
 EICLL (C) EIPDS 119  
 EID (0) EIPDS 120  
 EIDACAL (BIT) EIPDS 120  
 EIDALLOC (BIT) EIPDS 120  
 EIDBMSGP (BIT) EIPDS 120  
 EIDBUF (BIT) EIPDS 121  
 EIDCANCEL (BIT) EIPDS 120  
 EIDCANCL (BIT) EIPDS 121  
 EIDCOMM (BIT) EIPDS 120  
 EIDCOND (BIT) EIPDS 120  
 EIDCONFM (BIT) EIPDS 121  
 EIDCONV (BIT) EIPDS 120  
 EIDDDATAL (BIT) EIPDS 120  
 EIDDISC (BIT) EIPDS 120  
 EIDDLIGP (BIT) EIPDS 120  
 EIDDLIIN (BIT) EIPDS 120  
 EIDEAU (BIT) EIPDS 120  
 EIDELUW (BIT) EIPDS 120  
 EIDEOTR (BIT) EIPDS 120  
 EIDEXIST (2) EIPDS 120  
 EIDFMH (BIT) EIPDS 121  
 EIDFML31 (BIT) EIPDS 120  
 EIDFN (0) EIPDS 120  
 EIDFREE (BIT) EIPDS 120  
 EIDFUNC (1) EIPDS 120

EIDGDDP	(BIT)	EIPDS	120	EIDSYNC	(BIT)	EIPDS	121
EIDGENER	(BIT)	EIPDS	121	EIDSYNCP	(BIT)	EIPDS	120
EIDGROUP	(0)	EIPDS	120	EIDTCALT	(BIT)	EIPDS	121
EIDGTEQ	(BIT)	EIPDS	121	EIDTCDEF	(BIT)	EIPDS	121
EIDICGP	(BIT)	EIPDS	120	EIDTCGP	(BIT)	EIPDS	120
EIDICHDR	(BIT)	EIPDS	121	EIDTCWRI	(BIT)	EIPDS	121
EIDICPUT	(BIT)	EIPDS	121	EIDTERM	(BIT)	EIPDS	121
EIDITEM	(BIT)	EIPDS	121	EIDTOL31	(BIT)	EIPDS	120
EIDLABEL	(BIT)	EIPDS	121	EIDTPN32	(BIT)	EIPDS	121
EIDLAST	(BIT)	EIPDS	121	EIDTRALL	(BIT)	EIPDS	121
EIDLNNO	(10)	EIPDS	121	EIDTRAN	(BIT)	EIPDS	120
EIDMAPO	(BIT)	EIPDS	121	EIDTRLST	(BIT)	EIPDS	121
EIDMASSI	(BIT)	EIPDS	120	EIDTROFF	(BIT)	EIPDS	121
EIDMSALT	(BIT)	EIPDS	121	EIDTRSIN	(BIT)	EIPDS	121
EIDMSDEF	(BIT)	EIPDS	121	EIDTRSYS	(BIT)	EIPDS	121
EIDMXL31	(BIT)	EIPDS	120	EIDTRUSE	(BIT)	EIPDS	121
EIDNCAL	(BIT)	EIPDS	120	EIDUPDT	(BIT)	EIPDS	121
EIDNEXT	(BIT)	EIPDS	120	EIDWAIT	(BIT)	EIPDS	121
EIDNOCHK	(BIT)	EIPDS	121	EIDWT	(BIT)	EIPDS	121
EIDNOEDF	(BIT)	EIPDS	120	EII	(0)	EIPDS	119
EIDNOHAN	(BIT)	EIPDS	120	EIIBEG	119		
EIDNTRNC	(BIT)	EIPDS	120	EIIDES	(9)	EIPDS	119
EIDNVIT	(BIT)	EIPDS	121	EIIDESL	(8)	EIPDS	119
EIDOPT0	(0)	EIPDS	120	EIEND	(59)	EIPDS	119
EIDOPT1	(1)	EIPDS	120	EIIKEY	(19)	EIPDS	119
EIDOPT10	(A)	EIPDS	121	EIIKEYL	(18)	EIPDS	119
EIDOPT11	(B)	EIPDS	121	EIIVOL	(12)	EIPDS	119
EIDOPT12	(C)	EIPDS	121	EIIVOLL	(11)	EIPDS	119
EIDOPT13	(D)	EIPDS	121	EIL	(0)	EIPDS	118
EIDOPT14	(E)	EIPDS	121	EIL_CONDITION_EXECKEY	(3)	EIPDS	118
EIDOPT15	(F)	EIPDS	121	EILBEG	(0)	EIPDS	118
EIDOPT16	(10)	EIPDS	121	EILFCHNP	(0)	EIPDS	118
EIDOPT17	(11)	EIPDS	121	EILINDEX	(6)	EIPDS	118
EIDOPT18	(12)	EIPDS	121	EILL1G	(BIT)	EIPDS	118
EIDOPT19	(13)	EIPDS	121	EILL1ON	(BIT)	EIPDS	118
EIDOPT2	(2)	EIPDS	120	EILL1SA	(BIT)	EIPDS	118
EIDOPT20	(14)	EIPDS	121	EILL2ASM	(BIT)	EIPDS	118
EIDOPT21	(15)	EIPDS	121	EILL2COB	(BIT)	EIPDS	118
EIDOPT22	(16)	EIPDS	121	EILL2PLI	(BIT)	EIPDS	118
EIDOPT23	(17)	EIPDS	121	EILLAB	(0)	EIPDS	118
EIDOPT24	(18)	EIPDS	121	EILLAB1	(4)	EIPDS	118
EIDOPT25	(19)	EIPDS	121	EILLAB1F	(0)	EIPDS	118
EIDOPT26	(1A)	EIPDS	121	EILLAB2	(8)	EIPDS	118
EIDOPT27	(1B)	EIPDS	121	EILLAB2F	(1)	EIPDS	118
EIDOPT3	(3)	EIPDS	120	EILLABPM	(2)	EIPDS	118
EIDOPT4	(4)	EIPDS	120	EILLEN	(4)	EIPDS	118
EIDOPT5	(5)	EIPDS	120	EILLLEN	(BIT)	EIPDS	118
EIDOPT6	(6)	EIPDS	121	EIPDS	118		
EIDOPT7	(7)	EIPDS	121	EIR	(0)	EIPDS	118
EIDOPT8	(8)	EIPDS	121	EIR13	(3C)	EIPDS	118
EIDOPT9	(9)	EIPDS	121	EIR14	(0)	EIPDS	118
EIDPRINT	(BIT)	EIPDS	120	EIRBEG	(0)	EIPDS	118
EIDPROG	(BIT)	EIPDS	121	EIREND	(40)	EIPDS	118
EIDPROT	(BIT)	EIPDS	121	EIS	122		
EIDPRVFN	(BIT)	EIPDS	120	EIS_ABEND_EXECKEY	(CE)	EIS	124
EIDPSBKR	(BIT)	EIPDS	120	EIS_APLI_SAVEAREA	(B8)	EIS	123
EIDPSBKW	(BIT)	EIPDS	121	EIS_CICS_DATAKEY	(BIT)	EIS	124
EIDRBA	(BIT)	EIPDS	121	EIS_CICS_EXECKEY	(BIT)	EIS	124
EIDRECV	(BIT)	EIPDS	120	EIS_CURRENT_EXECKEY	(CD)	EIS	124
EIDRECVMAP	(BIT)	EIPDS	120	EIS_EID_SAVE	123		
EIDRECVPARTN	(BIT)	EIPDS	120	EIS_EYE	(2)	EIS	122
EIDRETRIEVE	(BIT)	EIPDS	120	EIS_FASTPATH	(C9)	EIS	124
EIDREWR	(BIT)	EIPDS	121	EIS_LENGTH	(0)	EIS	122
EIDRLSE	(BIT)	EIPDS	121	EIS_LOWER_LEVEL_ABENDED	(BIT)	EIS	122
EIDRMGP	(BIT)	EIPDS	120	EIS_PLB_ADDRESS	(B4)	EIS	123
EIDRMID	(8)	EIPDS	121	EIS_PROGRAM_ABENDED	(BIT)	EIS	124
EIDRRMA	(BIT)	EIPDS	120	EIS_PROGRAM_MODE	(C0)	EIS	123
EIDRRN	(BIT)	EIPDS	121	EIS_SYS_EIB_ADDR	(50)	EIS	123
EIDRSYNC	(BIT)	EIPDS	120	EIS_TEMP_EXECKEY	(9D)	EIS	123
EIDRTAIN	(BIT)	EIPDS	121	EIS_USER_EIB_ADDR	(8)	EIS	122
EIDRTST	(BIT)	EIPDS	121	EIS_USERKEY	(BIT)	EIS	124
EIDSEND	(BIT)	EIPDS	120	EIS_XCTL	(BIT)	EIS	124
EIDSENDCONTROL	(BIT)	EIPDS	120	EIS24STG	124		
EIDSENDMAP	(BIT)	EIPDS	120	EISABDMP	(BIT)	EIS	122
EIDSENDTEXT	(BIT)	EIPDS	120	EISABNDG	(BIT)	EIS	122
EIDSET	(BIT)	EIPDS	120	EISAPM	(C2)	EIS	123
EIDSGST	(BIT)	EIPDS	121	EISASM	(BIT)	EIS	124
EIDSHRD	(BIT)	EIPDS	121	EISASTG	(BC)	EIS	123
EIDSOTR	(BIT)	EIPDS	120	EISATABN	(2C)	EIS	122
EIDSPGP	(BIT)	EIPDS	120	EISBAIOA	(D8)	EIS	124
EIDSTART	(BIT)	EIPDS	120	EISBIBP	(100)	EIS	124
EIDSTRF	(BIT)	EIPDS	121	EISC	(BIT)	EIS	124
EIDSYEIB	(BIT)	EIPDS	120	EISCAHCB	(30)	EIS	122



"Restricted Materials of IBM"  
 Licensed Materials – Property of IBM

EISCBUFC (F4) EIS 124	EISRETRY (BIT) EIS 122
EISCEDFY (BIT) EIS 123	EISRORX (BIT) EIS 124
EISCKEYL (88) EIS 123	EISRPG (BIT) EIS 124
EISCOBOL (BIT) EIS 124	EISRTDST (BIT) EIS 123
EISCSETL (6C) EIS 123	EISRUNIN (BIT) EIS 124
EISDAT31 (BIT) EIS 124	EISRUSTG (A8) EIS 123
EISDITAB (E8) EIS 124	EISRUTER (BIT) EIS 122
EISDPL (BIT) EIS 123	EISSAVE0 (5C) EIS 123
EISDRESP (3B) EIS 122	EISSAVE1 (60) EIS 123
EISEDFAF (BIT) EIS 123	EISSAVE6 (64) EIS 123
EISEDFAF (BIT) EIS 123	EISSAVE7 (68) EIS 123
EISEDFAF (BIT) EIS 124	EISSPCIN (BIT) EIS 122
EISEDFAF (BIT) EIS 123	EISSPCOB (BIT) EIS 124
EISEDFDL (34) EIS 122	EISSPEX (BIT) EIS 124
EISEDFOF (3D) EIS 122	EISSRPAB (BIT) EIS 123
EISEDFOF (BIT) EIS 122	EISSTKCM (BIT) EIS 123
EISEDFFA (BIT) EIS 123	EISSYEIB (BIT) EIS 123
EISEDFFC (BIT) EIS 124	EISSYSNM (84) EIS 123
EISEDFIN (BIT) EIS 123	EISTACKA 123
EISEDFFT (BIT) EIS 123	EISTACKL (BIT) EIS 124
EISEDFRB (9C) EIS 123	EISTAID (BIT) EIS 122
EISEDFRE (BIT) EIS 123	EISTCACA 123
EISEDFRM (BIT) EIS 123	EISTCTSE (10) EIS 122
EISEDFRN (BIT) EIS 123	EISTCTTE (10) EIS 122
EISEDFRQ (BIT) EIS 123	EISTDIA (DC) EIS 124
EISEDFRS (BIT) EIS 123	EISTEMP 123
EISEDNSE (BIT) EIS 122	EISTEMP2 (90) EIS 123
EISEDNST (BIT) EIS 122	EISTEMP3 (94) EIS 123
EISEDFTA (14) EIS 122	EISTEMP4 (98) EIS 123
EISEDFTT (BIT) EIS 123	EISTG 125
EISEDFOA (BIT) EIS 123	EISTIOA 122
EISEDFOF (BIT) EIS 123	EISTIOAL (44) EIS 123
EISEDFOF (BIT) EIS 123	EISTITLE 124
EISEDFX (BIT) EIS 122	EISTMPTT (BIT) EIS 124
EISEIECR (BIT) EIS 124	EISTRACE (58) EIS 123
EISEIPB8 (54) EIS 123	EISTRDATA 122
EISEIPB9 (C) EIS 122	EISTRFLDA (18) EIS 122
EISEIPR1 (FC) EIS 124	EISTRFLDAB (18) EIS 122
EISENLT (6E) EIS 123	EISTRFLDB (1C) EIS 122
EISEOF (BIT) EIS 122	EISTRREQ (28) EIS 122
EISERM31 (BIT) EIS 123	EISTRREQ1 (28) EIS 122
EISERMDA (F8) EIS 124	EISTRREQ2 (29) EIS 122
EISERMSA (AC) EIS 123	EISTRRES (20) EIS 122
EISESBSY (BIT) EIS 122	EISTSIOA (E0) EIS 124
EISEXEC (BIT) EIS 124	EISTWAIT (BIT) EIS 122
EISEXITT (4C) EIS 123	EISUPERB (D4) EIS 124
EISFCPTR (F0) EIS 124	EISUPERC (48) EIS 123
EISFCTAB (EC) EIS 124	EISUPERE (104) EIS 124
EISFLAG1 (C8) EIS 124	EISVSPLI (BIT) EIS 124
EISFLAG2 (38) EIS 122	EISWRBRK (BIT) EIS 122
EISFLAG3 (39) EIS 122	EISYNCOK (BIT) EIS 123
EISFLAG4 (3C) EIS 122	EISYSBSY (BIT) EIS 122
EISFLAG5 (3A) EIS 122	EIU (0) EIPDS 119
EISFLAG6 (C9) EIS 124	EIU_ABEND_EXECKEY (20) EIPDS 120
EISFLAG7 (CA) EIS 124	EIUCHAIN (0) EIPDS 119
EISFLAG8 (C3) EIS 123	EIUERTAB (4) EIPDS 119
EISFLAG9 (C4) EIS 123	EIUFLAG6 (1D) EIPDS 120
EISFLAGA (CC) EIS 124	EIUFLAG7 (1E) EIPDS 120
EISICIOA (E4) EIS 124	EIUKYTAB (8) EIPDS 119
EISICIOAL (D4) EIS 124	EIULEN 120
EISIGNAL (BIT) EIS 122	EIUPCAXI (1C) EIPDS 120
EISIN1 (BIT) EIS 122	EIUPCXRA (18) EIPDS 120
EISINITA 124	EIUS 125
EISINITL (BIT) EIS 124	EIUS_ARG_LIST (A4) EIUS 126
EISLANG (CB) EIS 124	EIUS_ARROW (2) EIUS 126
EISLANGS (BIT) EIS 124	EIUS_BLOCK_NAME (6) EIUS 126
EISLERR (BIT) EIS 122	EIUS_CEE_RUNUNIT_TK (14) EIUS 126
EISNOJBS (BIT) EIS 122	EIUS_CEE_TWA (10) EIUS 126
EISNOSPA (BIT) EIS 122	EIUS_CIL_ARG_LIST (24) EIUS 126
EISNOSTG (BIT) EIS 122	EIUS_CIL_ARG1 (24) EIUS 126
EISNQBSY (BIT) EIS 122	EIUS_CIL_ARG2 (28) EIUS 126
EISOFLOW (BIT) EIS 122	EIUS_CIL_ARG3 (2C) EIUS 126
EISPGOTO (BIT) EIS 124	EIUS_CIL_ARG4 (30) EIUS 126
EISPLI (BIT) EIS 124	EIUS_CIL_ARG5 (34) EIUS 126
EISPLS (BIT) EIS 124	EIUS_COMMA_ADDR_PTR (A8) EIUS 126
EISQBUSY (BIT) EIS 122	EIUS_CURR_COMMA_ADDR (4C) EIUS 126
EISQMAIN (BIT) EIS 122	EIUS_DFH (3) EIUS 126
EISQRECV (BIT) EIS 122	EIUS_EIB_ADDR (48) EIUS 126
EISRDATA (BIT) EIS 122	EIUS_EIB_ADDR_PTR (A4) EIUS 126
EISRECF (BIT) EIS 122	EIUS_HLL_RUNUNIT_TK (40) EIUS 126
EISRECU (BIT) EIS 122	EIUS_LENGTH (0) EIUS 126
EISRET 123	EIUS_PREFIX (0) EIUS 126
EISRETP (B0) EIS 123	EIUS_RSA (54) EIUS 126

EIUS\_RSA\_ADDR (50) EIUS 126  
 EIUS\_STACK\_AREA 126  
 EIUS\_STACK\_ASIS (24) EIUS 126  
 EIUS\_STACK\_INIT (14) EIUS 126  
 EIUS\_SUPER\_END (B4) EIUS 126  
 EIUS\_SUPER\_STACK 126  
 EIUSXD (10) EIPDS 120  
 EIUSXDI (14) EIPDS 120  
 EIUSXRSA (C) EIPDS 120  
 EIUXLANG (1F) EIPDS 120  
 element  
   deferred work element, DWE 102  
   file request thread element, FRTEC 170  
   interval control element, ICE 172  
   keypoint list element, KPLEC 199  
   receive any control element, TCPRA 357  
   remote install work element, TCRWE 358  
   skp work queue element, SKW 308  
   table manager directory element, TMDL 436  
   task interface element, TIE 432  
   VTAM autoinstall work element, TCTWE 415  
   XRF work element definition, XRW 577  
 EMEREX 302  
 EMP  
   monitoring domain user EMP structure, MNEMP 232  
 ENCODE\_DATA\_PTR (14) WBCDC 510  
 ENCODE\_ENTRY\_COUNT (24) WBCDC 510  
 ENCODE\_EYECATCHER (0) WBCDC 510  
 ENCODE\_FUNCTION (A) WBCDC 510  
 ENCODE\_INPUT\_DATA\_LEN (18) WBCDC 510  
 ENCODE\_PARMS (0) WBCDC 510  
 ENCODE\_REASON (10) WBCDC 510  
 ENCODE\_RESPONSE (C) WBCDC 510  
 ENCODE\_USER\_TOKEN (1C) WBCDC 510  
 ENCODE\_VERSION (8) WBCDC 510  
 ENCODE\_VOLATILE (9) WBCDC 510  
 enq/deq  
   enq/deq EXEC parameter list, NQUE 248  
 enqueue  
   enqueue manager global statistics, NQG 247  
 entries  
   file control transformer table entries, FCENT 134  
 entry  
   feature trace entry header, TRFTE 458  
   file control table entry layout, FCT 145  
   ISC/IRC mode entry statistics, A20 25  
   monitoring dictionary entry, MCTDR 229  
   profile table entry, PFT 266  
   program list table entry, PLT 271  
   TCT terminal entry, TCTTE 370  
   terminal abnormal condition line entry, TACLE 333  
   terminal control table line entry, TCTLE 368  
   trace entry, TREN 451  
   user exit table entry, UETE 499  
   user supplied route list entry, URL 501  
   XRF entry points table, WSN 540  
 ENTRY\_LEN (200) XCTRC 557  
 ENTRY\_POINT (C) DCR 68  
 ENTRY\_PTR (1FC) XCTRC 557  
 EPBACNT (30) UEPB 497  
 EPBBIND (38) UEPB 497  
 EPBCHAIN (4) UEPB 497  
 EPBCNTS\_CDS (28) UEPB 497  
 EPBEMN (3C) UEPB 497  
 EPBEND (68) UEPB 497  
 EPBENTIM (5C) UEPB 497  
 EPBEPA (10) UEPB 497  
 EPBEPN (8) UEPB 497  
 EPBFLAGS (34) UEPB 497  
 EPBGAA (14) UEPB 497  
 EPBGAL (18) UEPB 497  
 EPBGCNT (1A) UEPB 497  
 EPBGPMM (66) UEPB 497  
 EPBICNT (2C) UEPB 497  
 EPBINST (28) UEPB 497  
 EPBLEN 2 UEPB 498  
 EPBPGTKN (58) UEPB 497  
 EPBQUAL (44) UEPB 497  
 EPBSAA (0) UEPB 497  
 EPBTAL (32) UEPB 497  
 EPBTCNT (1C) UEPB 497  
 EPBTICHN (20) UEPB 497  
 EPBTICHN\_CDS (20) UEPB 497  
 EPBTICHN\_CT (24) UEPB 497  
 EPBTIEA (54) UEPB 497  
 EPBTPGMM (64) UEPB 497  
 EPBTSPTK (4C) UEPB 497  
 EPLEND (18) UEPL 498  
 EPLENTIM (8) UEPL 498  
 EPLEPBA (10) UEPL 498  
 EPLINST (14) UEPL 498  
 EPLNEPL (4) UEPL 498  
 EPLSAA (0) UEPL 498  
 equates  
   domain subroutine equates, ZGDC 591  
 ERM\_ABOUT\_TO\_CALL\_TRUE 2 TIE 433  
 ERM\_ADD\_LINK\_FAIL 2 TIE 433  
 ERM\_CHAIR\_MODIFIED 2 TIE 434  
 ERM\_ENTRY 2 TIE 433  
 ERM\_EXIT 2 TIE 433  
 ERM\_PGEX\_ERROR\_AFTER 2 TIE 434  
 ERM\_PGEX\_ERROR\_BEFORE 2 TIE 434  
 ERM\_PGEX\_ERROR\_RECOV 2 TIE 434  
 ERM\_RECOVERY\_ENTERED 2 TIE 434  
 ERM\_RETURN\_FROM\_TRUE 2 TIE 433  
 ERM\_RM\_NOT\_AVAILABLE 2 TIE 433  
 ERM\_RMUWI\_INQ\_FAIL 2 TIE 433  
 ERM\_RMWTL\_SET\_FAIL 2 TIE 433  
 ERM\_SET\_LINK\_FAIL 2 TIE 433  
 ERM\_SET\_UOW\_FAIL 2 TIE 434  
 ERMRS\_BAD\_RMLN\_RESPONSE 2 TIE 434  
 ERMRS\_ENTRY 2 TIE 434  
 ERMRS\_EXIT 2 TIE 434  
 ERMRS\_INV\_EIP\_FUNCTION 2 TIE 434  
 ERMRS\_INV\_FUNCTION 2 TIE 434  
 ERMRS\_RECOVERY 2 TIE 434  
 ERMRS\_RMLN\_END\_LINK\_BROWSE\_FAIL 2 TIE 434  
 ERMRS\_RMLN\_GET\_NEXT\_LINK\_FAIL 2 TIE 434  
 ERMRS\_RMLN\_SET\_MARK\_FAIL 2 TIE 434  
 ERMRS\_RMLN\_START\_LINK\_FAIL 2 TIE 434  
 ERMRS\_RMLN\_TERMINATE\_FAIL 2 TIE 434  
 ERMRS\_RMUWM\_INQ\_UOW\_FAIL 2 TIE 434  
 ERMRS\_UNEXPECTED\_RMLN\_REASON 2 TIE 434  
 ERMRS\_XMAT\_ATTACH\_FAIL 2 TIE 434  
 ERMSP\_ENTRY 2 TIE 433  
 ERMSP\_EXIT 2 TIE 433  
 ERMSP\_INV\_FORMAT 2 TIE 433  
 ERMSP\_INV\_RMLK\_FUNCTION 2 TIE 433  
 ERMSP\_INV\_RMRO\_FUNCTION 2 TIE 433  
 ERMSP\_RECOVERY 2 TIE 433  
 ERMSP\_RML\_AFTER 2 TIE 433  
 ERMSP\_RML\_BEFORE 2 TIE 433  
 ERMSP\_RMUWM\_INQ\_UOW\_FAIL 2 TIE 433  
 ERMSP\_RMWTL\_SET\_FAIL 2 TIE 433  
 ERMSP\_XMAT\_ATTACH\_FAIL 2 TIE 433  
 error  
   kernel error data, KERRD 196  
   node error program commarea, NEPCA 245  
   program error program commarea, PEP 265  
   system recovery error data, SRED 328  
 ETC 127  
 ETCBBILD (23) ETC 127  
 ETCBBUAT (BIT) ETC 127  
 ETCBBUPR (BIT) ETC 127  
 ETCBCLR (BIT) ETC 127  
 ETCBEND (58) ETC 127  
 ETCBERR (55) ETC 127  
 ETCBEXAT (BIT) ETC 127  
 ETCBEXNO (BIT) ETC 127  
 ETCBEXPR (BIT) ETC 127  
 ETCBFCHN 127  
 ETCBFLGS (20) ETC 127  
 ETCBFMH (54) ETC 127  
 ETCBID (18) ETC 127  
 ETCBLEN (BIT) ETC 127  
 ETCBLU6 (52) ETC 127  
 ETCBLUC (53) ETC 127  
 ETCBNDDA (14) ETC 127  
 ETCBPRE (51) ETC 127  
 ETCBREM (22) ETC 127  
 ETCBSTDA (10) ETC 127  
 ETCBTCID (BIT) ETC 127  
 ETCBTEAR (C) ETC 127  
 ETCBUFMH (BIT) ETC 127  
 ETCBUSID (BIT) ETC 127  
 ETCBXTOP (21) ETC 127

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ETMDDUMP (BIT) MGM 230  
 ETMDNNUM (BIT) MGM 230  
 ETMDRETN (BIT) MGM 230  
 ETMDTERM (BIT) MGM 230  
 ETMDTIOA (BIT) MGM 230  
 ETMG1CID (BIT) MGM 230  
 ETMG3PID (BIT) MGM 230  
 ETMGCOMP (9) MGM 230  
 ETMGCTYP (0) MGM 230  
 ETMGDEST (1) MGM 230  
 ETMGDESX (8) MGM 230  
 ETMGDSCT (0) MGM 230  
 ETMGINS2 (5) MGM 230  
 ETMGLEN (1) MGM 230  
 ETMGMCDA (BIT) MGM 230  
 ETMGMCDI (BIT) MGM 230  
 ETMGMCNE (BIT) MGM 230  
 ETMGMCNL (BIT) MGM 230  
 ETMGMCNX (BIT) MGM 230  
 ETMGMCOD (4) MGM 230  
 ETMGMGDA (2) MGM 230  
 ETMGMGNO (2) MGM 230  
 ETMGMNLS (BIT) MGM 230  
 ETMGPROD (B) MGM 230  
 ETMGPTN3 (6) MGM 230  
 ETMGRESP (BIT) MGM 230  
 ETMGTEXT (0) MGM 230  
 ETMGLEN (E) MGM 230  
 ETMGTSRT (10) MGM 230  
 ETMGTYPE (0) MGM 230  
 ETMGTYPL (0) MGM 230  
 ETMOFFV (7) MGM 230  
 event  
 event control area, ECA 109  
 exception  
 monitoring exception record, MNEXC 233  
 EXCMNBTR (9C) MNEXC 233  
 EXCMNBWT (BIT) MNEXC 233  
 EXCMNCPN (94) MNEXC 233  
 EXCMNEXN 233  
 EXCMNFCN (90) MNEXC 233  
 EXCMNLLUN 233  
 EXCMNPNX (6C) MNEXC 233  
 EXCMNNSX (80) MNEXC 233  
 EXCMNRID (48) MNEXC 233  
 EXCMNRIL (B0) MNEXC 233  
 EXCMNRIX (B4) MNEXC 233  
 EXCMNRPT (64) MNEXC 233  
 EXCMNRTY (40) MNEXC 233  
 EXCMNSRV (5C) MNEXC 233  
 EXCMNSTA (14) MNEXC 233  
 EXCMNSTO (1C) MNEXC 233  
 EXCMNSWT (BIT) MNEXC 233  
 EXCMNTCN 233  
 EXCMNTER (4) MNEXC 233  
 EXCMNTNO (24) MNEXC 233  
 EXCMNTPR (28) MNEXC 233  
 EXCMNTRF (88) MNEXC 233  
 EXCMNTRN (0) MNEXC 233  
 EXCMNTST (10) MNEXC 233  
 EXCMNTYP (50) MNEXC 233  
 EXCMNURI (A0) MNEXC 233  
 EXCMNUSR (8) MNEXC 233  
 EXCMNWT (BIT) MNEXC 233  
 EXEC  
 enq/deq EXEC parameter list, NQUE 248  
 EXEC interface block, EIB 112  
 EXEC interface communications area, EIC 113  
 EXEC interface dynamic storage, EISTG 125  
 EXEC interface structure, EIS 122  
 EXEC interface user structure, EIUS 125  
 EXEC terminal control, ETC 127  
 file control EXEC argument list, FCE 128  
 interval control EXEC parameter list, ICUE 174  
 program control EXEC argument list, PCE 256  
 temporary storage EXEC parameter list, TSUE 462  
 transient data EXEC parameter list, TDUE 426  
 exit  
 cics-dbctl XRF user exit parameter list, DXUEP 105  
 global user exit plist, UEPAR 476  
 task related user exit plist, UEPAR 473  
 user exit file and dataset information, UEFD 471

exit (continued)  
 user exit program block, UEPB 497  
 user exit program link, UEPL 498  
 user exit table entry, UETE 499  
 user exit table header, UETH 500  
 XRF CAVM notify exit, WNF 532  
 exitpgm  
 document handler template exitpgm interface, DHTX 77  
 exits  
 program control user exits DSECT, PCUES 260  
 XRF CAVM surveillance exits, WSX 544  
 EXPANDAC 324  
 EXPANDNX (BIT) SPI 324  
 EXPANDTY 324  
 EXPKWA (F4) SPI 324  
 EXPNAME (F8) SPI 324  
 EXT\_SEC\_MECH\_STRUCT (0) ZGRP 605  
 extended  
 extended recovery facility, XRH 572  
 extension  
 application domain trandef extension, APXDC 11  
 CICS VTAM rpl extension, ZRPL 608  
 signon extension block, SNEX 316  
 TCA extension for LU6.2, TCX 421  
 terminal partition extension, TPE 443  
 XRF/DBCTL DGB extension, DXPS 103  
 EYECATCHER (0) ZGRP 602

## F

facility  
 extended recovery facility, XRH 572  
 fast  
 fast file locate, FFL 151  
 fc  
 fc VSAM work area, VSWA 502  
 FC\_ACUCB\_SUPPORTED (BIT) FCS 142  
 FC\_ADDR\_LIST (0) FCE 129  
 FC\_ADDR0 (0) FCE 129  
 FC\_ADDR1 (4) FCE 129  
 FC\_ADDR2 (8) FCE 129  
 FC\_ADDR3 (C) FCE 129  
 FC\_ADDR4 (10) FCE 129  
 FC\_ADDR5 (14) FCE 129  
 FC\_ADDR6 (18) FCE 129  
 FC\_ADDR7 (1C) FCE 129  
 FC\_ADDR8 (20) FCE 129  
 FC\_ADDR9 (24) FCE 129  
 FC\_ADDRA (28) FCE 129  
 FC\_ADDRB (2C) FCE 129  
 FC\_AFMT\_ADDRESS (F4) FCS 140  
 FC\_BDAM\_ENTRY\_ADDRESS 140  
 FC\_BITS1 (2) FCE 129  
 FC\_BITS2 (3) FCE 129  
 FC\_BRWS\_UPD\_X (BIT) FCE 130  
 FC\_BUFFER\_BASE (1BC) FCS 141  
 FC\_CACHE\_MSG\_SENT (BIT) FCS 142  
 FC\_CATALOG\_SUPPORTED (BIT) FCS 142  
 FC\_CFDT\_LOADER\_ID (2B4) FCS 143  
 FC\_CFDT\_NOTABLE\_EIBRESP2 (BIT) FCE 134  
 FC\_CFDT\_SYSIDERR\_EIBRESP2 (BIT) FCE 133  
 FC\_CFDTPOOL\_FULL\_EIBRESP2 (BIT) FCE 133  
 FC\_CFQR\_TERM (BIT) FCS 143  
 FC\_CFQS\_ECBLIST (294) FCS 143  
 FC\_CFQS\_TERM (BIT) FCS 143  
 FC\_CHANGED\_EIBRCODE (BIT) FCE 131  
 FC\_CHANGED\_EIBRESP (BIT) FCE 132  
 FC\_CHANGED\_EIBRESP2 (BIT) FCE 133  
 FC\_CONNECT\_COUNT (F0) FCS 140  
 FC\_CR\_X (BIT) FCE 130  
 FC\_CTL\_ACB\_ACT\_STRINGS (254) FCS 142  
 FC\_CTL\_ACB\_ADDRESS (240) FCS 142  
 FC\_CTL\_ACB\_CURRENT\_WAITS (24C) FCS 142  
 FC\_CTL\_ACB\_HWM\_WAITS (250) FCS 142  
 FC\_CTL\_ACB\_LAST\_RQST\_ECB (258) FCS 142  
 FC\_CTL\_ACB\_MAX\_STRINGS 4 FCS 144  
 FC\_CTL\_ACB\_RPL\_CHAIN (244) FCS 142  
 FC\_CTL\_ACB\_STRING\_ECB (256) FCS 142  
 FC\_CTL\_ACB\_TOTAL\_WAITS (248) FCS 142  
 FC\_CTL\_ACB\_UNREG\_ECB (257) FCS 142  
 FC\_DATA1 (0) FCE 130  
 FC\_DATA2 (0) FCE 130

FC_DATA3 (0) FCE 130	FC_FCDT_ADDRESS (128) FCS 140
FC_DATA4 (0) FCE 130	FC_FCDU_ADDRESS (124) FCS 140
FC_DATA5 (0) FCE 131	FC_FCDY_ADDRESS (120) FCS 140
FC_DATA6 (0) FCE 131	FC_FCES_ADDRESS (154) FCS 140
FC_DATA7 (0) FCE 131	FC_FCFL_ADDRESS (16C) FCS 140
FC_DATAB (0) FCE 131	FC_FCFS_ADDRESS (104) FCS 140
FC_DEBKEY_X (BIT) FCE 130	FC_FCIR_ADDRESS (14C) FCS 140
FC_DEBLOCK_X (BIT) FCE 130	FC_FCLF_ADDRESS (164) FCS 140
FC_DEBREC_X (BIT) FCE 130	FC_FCLJ_ADDRESS (150) FCS 140
FC_DELETE (BIT) FCE 129	FC_FCMT_ADDRESS (F8) FCS 140
FC_DFP_REL (C0) FCS 140	FC_FCNQ_ADDRESS (170) FCS 140
FC_DFP_REL_2 140	FC_FCQI_ADDRESS (158) FCS 140
FC_DISABLED_EIBRCODE (BIT) FCE 131	FC_FCQRE_CHAIN_DATA 143
FC_DISABLED_EIBRESP (BIT) FCE 132	FC_FCQRE_ECB (28C) FCS 143
FC_DISABLED_EIBRESP2 (BIT) FCE 133	FC_FCQRE_ERROR (290) FCS 143
FC_DS_ESDS_WRITE_NQ_POOL_NAME 8 FCS 144	FC_FCQRE_FIRST (284) FCS 143
FC_DS_ESDS_WRITE_NQ_POOL_TOKEN (2AC) FCS 143	FC_FCQRE_ISOLATE (288) FCS 143
FC_DS_LOAD_MODE_NQ_POOL_NAME 8 FCS 144	FC_FCQSE_CHAIN_DATA (274) FCS 143
FC_DS_LOAD_MODE_NQ_POOL_TOKEN (2A8) FCS 143	FC_FCQSE_ECB (27C) FCS 143
FC_DS_RANGE_NQ_POOL_NAME 8 FCS 144	FC_FCQSE_FIRST (274) FCS 143
FC_DS_RANGE_NQ_POOL_TOKEN (2A4) FCS 143	FC_FCQSE_LAST (278) FCS 143
FC_DS_RECORD_NQ_POOL_NAME 8 FCS 144	FC_FCQU_ADDRESS (15C) FCS 140
FC_DS_RECORD_NQ_POOL_TOKEN (29C) FCS 143	FC_FCQX_ADDRESS (160) FCS 140
FC_DSNBLK_HWM (190) FCS 141	FC_FCRC_ADDRESS (148) FCS 140
FC_DSS_BACKLEVEL (BIT) FCS 141	FC_FCRL_ADDRESS (FC) FCS 140
FC_DSS_REL (CC) FCS 140	FC_FCRO_ADDRESS (134) FCS 140
FC_DT_2 (1F0) FCS 142	FC_FCRR_ADDRESS (140) FCS 140
FC_DT_AOR_NOSHARING (BIT) FCS 142	FC_FCRRS_ADDRESS (138) FCS 140
FC_DT_BF (210) FCS 142	FC_FCRV_ADDRESS (13C) FCS 140
FC_DT_CLOSE_CHAIN (1F4) FCS 142	FC_FCSD_ADDRESS (130) FCS 140
FC_DT_CLOSE_ECB (1F8) FCS 142	FC_FCST_ADDRESS (110) FCS 140
FC_DT_CONNECT (204) FCS 142	FC_FCVR_ENTRY 140
FC_DT_FOR_LOGGED_ON (BIT) FCS 142	FC_FCVS_ADDRESS (11C) FCS 140
FC_DT_FOR_NOSHARING 142	FC_FILE (0) FCE 130
FC_DT_FOR_NOTAUTH (BIT) FCS 142	FC_FILE_GROUP (BIT) FCE 129
FC_DT_LAST_INIT (1E8) FCS 141	FC_FILE_RECORD_NQ_POOL_NAME 8 FCS 144
FC_DT_LH_LAST_INIT (1E8) FCS 142	FC_FILE_RECORD_NQ_POOL_TOKEN (2A0) FCS 143
FC_DT_LOG (1B4) FCS 141	FC_FILE_UMT_LOAD_NQ_POOL_NAME 8 FCS 144
FC_DT_READ (1AC) FCS 141	FC_FILE_UMT_LOAD_NQ_POOL_TOKEN (2B0) FCS 143
FC_DT_REMOTE_GLOBAL (1FC) FCS 142	FC_FILENOTFOUND_EIBRCODE (BIT) FCE 131
FC_DT_REMOTE_READ (208) FCS 142	FC_FILENOTFOUND_EIBRESP (BIT) FCE 132
FC_DT_REMOTE_USE (20C) FCS 142	FC_FILENOTFOUND_EIBRESP2 (BIT) FCE 132
FC_DT_SIGNAL (200) FCS 142	FC_FRAB_CHAIN (1C0) FCS 141
FC_DT_USE (1B8) FCS 141	FC_FROM (0) FCE 130
FC_DTLD (1A8) FCS 141	FC_FUNCT (1) FCE 129
FC_DTLLOC (1AC) FCS 141	FC_FUZZY_ALLOWED 141
FC_DTMOD (1B0) FCS 141	FC_FUZZY_VALUES (1C8) FCS 141
FC_DTOC (1A4) FCS 141	FC_GENERIC_X (BIT) FCE 130
FC_DTRGL (1A0) FCS 141	FC_GROUP (0) FCE 129
FC_DTTKN (19C) FCS 141	FC_GTEQ_X (BIT) FCE 130
FC_DUPKEY_EIBRCODE (BIT) FCE 131	FC_HSM_BACKLEVEL (BIT) FCS 141
FC_DUPKEY_EIBRESP (BIT) FCE 132	FC_HSM_DSS_WARNMSG (BIT) FCS 141
FC_DUPKEY_EIBRESP2 (BIT) FCE 134	FC_HSM_REL (C8) FCS 140
FC_DUPREC_EIBRCODE (BIT) FCE 131	FC_IGWABWO (1D8) FCS 141
FC_DUPREC_EIBRESP (BIT) FCE 132	FC_IGWABWO_LOAD_FAILED (BIT) FCS 141
FC_DUPREC_EIBRESP2 (BIT) FCE 134	FC_IGWABWO_LOADED (BIT) FCS 141
FC_DYRRE_COMPLETED_ECB (25A) FCS 143	FC_IGWARLS 141
FC_DYRRE_IN_PROGRESS 143	FC_ILLOGIC_EIBRCODE (BIT) FCE 131
FC_EID (0) FCE 129	FC_ILLOGIC_EIBRESP (BIT) FCE 132
FC_EIDOPT5 129	FC_ILLOGIC_EIBRESP2 (BIT) FCE 133
FC_EIDOPT6 (6) FCE 129	FC_INQRECOV_ADDRESS (21C) FCS 142
FC_EIDOPT7 (7) FCE 130	FC_INQRECOV_LENGTH (220) FCS 142
FC_EIDOPT8 (8) FCE 130	FC_INT0 (0) FCE 130
FC_ENDBR (BIT) FCE 129	FC_INVREQ_EIBRCODE (BIT) FCE 131
FC_ENDFILE_EIBRCODE (BIT) FCE 131	FC_INVREQ_EIBRESP (BIT) FCE 132
FC_ENDFILE_EIBRESP (BIT) FCE 132	FC_INVREQ20_EIBRESP2 (BIT) FCE 132
FC_ENDFILE_EIBRESP2 (BIT) FCE 133	FC_INVREQ21_EIBRESP2 (BIT) FCE 132
FC_EXIST1 (BIT) FCE 129	FC_INVREQ22_EIBRESP2 (BIT) FCE 132
FC_EXIST2 (BIT) FCE 129	FC_INVREQ23_EIBRESP2 (BIT) FCE 132
FC_EXIST3 (BIT) FCE 129	FC_INVREQ24_EIBRESP2 (BIT) FCE 132
FC_EXIST4 (BIT) FCE 129	FC_INVREQ25_EIBRESP2 (BIT) FCE 132
FC_EXIST5 (BIT) FCE 129	FC_INVREQ26_EIBRESP2 (BIT) FCE 132
FC_EXIST6 (BIT) FCE 129	FC_INVREQ27_EIBRESP2 (BIT) FCE 132
FC_EXIST7 (BIT) FCE 129	FC_INVREQ28_EIBRESP2 (BIT) FCE 132
FC_EXIST8 (BIT) FCE 129	FC_INVREQ29_EIBRESP2 (BIT) FCE 132
FC_EXIST9 (BIT) FCE 129	FC_INVREQ30_EIBRESP2 (BIT) FCE 132
FC_EXISTA (BIT) FCE 129	FC_INVREQ31_EIBRESP2 (BIT) FCE 132
FC_EXISTB (BIT) FCE 129	FC_INVREQ32_EIBRESP2 (BIT) FCE 132
FC_FCAT_ADDRESS (12C) FCS 140	FC_INVREQ33_EIBRESP2 (BIT) FCE 133
FC_FCCA_ADDRESS (144) FCS 140	FC_INVREQ34_EIBRESP2 (BIT) FCE 133
FC_FCDN_ADDRESS (100) FCS 140	FC_INVREQ35_EIBRESP2 (BIT) FCE 133
FC_FCDO_ADDRESS (168) FCS 140	FC_INVREQ36_EIBRESP2 (BIT) FCE 133
FC_FCDR_ADDRESS (174) FCS 140	FC_INVREQ37_EIBRESP2 (BIT) FCE 133

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FC_INVREQ38_EIBRESP2 (BIT) FCE	133	FC_REWRITE (BIT) FCE	129
FC_INVREQ39_EIBRESP2 (BIT) FCE	133	FC_RIDFLD (0) FCE	130
FC_INVREQ40_EIBRESP2 (BIT) FCE	133	FC_RLS_ACB_CHAIN (218) FCS	142
FC_INVREQ41_EIBRESP2 (BIT) FCE	133	FC_RLS_ACCESS_DISABLED	142
FC_INVREQ42_EIBRESP2 (BIT) FCE	133	FC_RLS_CTL_EXIT_LIST_PTR (26C) FCS	143
FC_INVREQ43_EIBRESP2 (BIT) FCE	133	FC_RLS_EXIT_LIST_PTR (268) FCS	143
FC_INVREQ44_EIBRESP2 (BIT) FCE	133	FC_RLS_LAST_ACB_ECB	142
FC_INVREQ45_EIBRESP2 (BIT) FCE	133	FC_RLS_RECOVERY_ONLY (BIT) FCS	142
FC_INVREQ46_EIBRESP2 (BIT) FCE	133	FC_RLS_SUPPORTED (BIT) FCS	142
FC_INVREQ47_EIBRESP2 (BIT) FCE	133	FC_RNP_REQID (0) FCE	131
FC_INVREQ48_EIBRESP2 (BIT) FCE	133	FC_RR_X (BIT) FCE	130
FC_INVREQ51_EIBRESP2 (BIT) FCE	133	FC_RRN_X (BIT) FCE	129
FC_INVREQ52_EIBRESP2 (BIT) FCE	133	FC_SERVER_SEQUENCE	143
FC_INVREQ53_EIBRESP2 (BIT) FCE	133	FC_SET (0) FCE	130
FC_INVREQ54_EIBRESP2 (BIT) FCE	133	FC_SET_X (BIT) FCE	129
FC_INVREQ55_EIBRESP2 (BIT) FCE	133	FC_SHRCTL_VECTORS (D0) FCS	140
FC_INVREQ56_EIBRESP2 (BIT) FCE	133	FC_STARTBR (BIT) FCE	129
FC_IOERR_EIBRCODE (BIT) FCE	131	FC_STATIC_ARROW (2) FCS	139
FC_IOERR_EIBRESP (BIT) FCE	132	FC_STATIC_BLOCK_ID (8) FCS	139
FC_IOERR_EIBRESP2 (BIT) FCE	133	FC_STATIC_DFH (3) FCS	139
FC_ISCINVREQ_EIBRCODE (BIT) FCE	131	FC_STATIC_DOMAIN_ID (6) FCS	139
FC_ISCINVREQ_EIBRESP (BIT) FCE	132	FC_STATIC_END	143
FC_ISCINVREQ_EIBRESP2 (BIT) FCE	133	FC_STATIC_FFLE_FREE_CHAIN (188) FCS	141
FC_KEYLENGTH (0) FCE	131	FC_STATIC_FLAB_FREE_CHAIN (180) FCS	141
FC_KEYPOINT_TAKEN (BIT) FCS	141	FC_STATIC_FRAB_FREE_CHAIN	140
FC_KEYPOINT_TIME (1CC) FCS	141	FC_STATIC_FRTE_FREE_CHAIN (184) FCS	141
FC_KEYPOINT_WK1 (1CC) FCS	141	FC_STATIC_ID 8 FCS	144
FC_KEYPOINT_WK2 (1D0) FCS	141	FC_STATIC_LENGTH 2 FCS	144
FC_KPLE_CHAIN (1D4) FCS	141	FC_STATIC_PREFIX (0) FCS	139
FC LENGERR_EIBRCODE (BIT) FCE	131	FC_STATIC_RPL_FREE_CHAIN (18C) FCS	141
FC LENGERR_EIBRESP (BIT) FCE	132	FC_STATIC_STORAGE (0) FCS	139
FC LENGERR10_EIBRESP2 (BIT) FCE	132	FC_STATIC_STORAGE_LENGTH (0) FCS	139
FC LENGERR11_EIBRESP2 (BIT) FCE	132	FC_STORE_FAIL_EIBRESP2 (BIT) FCE	133
FC LENGERR12_EIBRESP2 (BIT) FCE	132	FC_SUBPOOL_TOKEN_ABOVE (60) FCS	139
FC LENGERR13_EIBRESP2 (BIT) FCE	132	FC_SUBPOOL_TOKEN_ACB (38) FCS	139
FC LENGERR14_EIBRESP2 (BIT) FCE	132	FC_SUBPOOL_TOKEN_AFCTE (48) FCS	139
FC_LENGTH (0) FCE	130	FC_SUBPOOL_TOKEN_BDAM (20) FCS	139
FC_LOADING_EIBRCODE (BIT) FCE	132	FC_SUBPOOL_TOKEN_CICS_BELOW (10) FCS	139
FC_LOADING_EIBRESP (BIT) FCE	132	FC_SUBPOOL_TOKEN_DCB (40) FCS	139
FC_LOADING_EIBRESP2 (BIT) FCE	133	FC_SUBPOOL_TOKEN_DSNAME (30) FCS	139
FC_LOCKED_EIBRCODE (BIT) FCE	131	FC_SUBPOOL_TOKEN_FCPE (88) FCS	139
FC_LOCKED_EIBRESP (BIT) FCE	132	FC_SUBPOOL_TOKEN_FCPW (98) FCS	140
FC_LOCKED_EIBRESP2 (BIT) FCE	133	FC_SUBPOOL_TOKEN_FCUP (A0) FCS	140
FC_LSR_INCLUDE_RLS_FCTES (BIT) FCS	142	FC_SUBPOOL_TOKEN_FFLE (70) FCS	139
FC_MASSINSERT_X (BIT) FCE	129	FC_SUBPOOL_TOKEN_FLAB (58) FCS	139
FC_NO_ENVIRONMENT (BIT) FCS	140	FC_SUBPOOL_TOKEN_FLLB (80) FCS	139
FC_NO_SUSPEND (BIT) FCE	130	FC_SUBPOOL_TOKEN_FRAB (50) FCS	139
FC_NON_RECOV_ALLOWED_ECB (BE) FCS	140	FC_SUBPOOL_TOKEN_FRTE (68) FCS	139
FC_NOSPACE_EIBRCODE (BIT) FCE	131	FC_SUBPOOL_TOKEN_IFGLUWID (90) FCS	139
FC_NOSPACE_EIBRESP (BIT) FCE	132	FC_SUBPOOL_TOKEN_RPL (78) FCS	139
FC_NOSPACE_EIBRESP2 (BIT) FCE	133	FC_SUBPOOL_TOKEN_SHRCTL (28) FCS	139
FC_NOTAUTH_EIBRCODE (BIT) FCE	131	FC_SUBPOOL_TOKEN_VSAM (18) FCS	139
FC_NOTAUTH_EIBRESP (BIT) FCE	132	FC_SUBSYSNM	142
FC_NOTAUTH_EIBRESP2 (BIT) FCE	133	FC_SUBTASKS (198) FCS	141
FC_NOTFND_EIBRCODE (BIT) FCE	131	FC_SUPPRESSED_EIBRCODE (BIT) FCE	131
FC_NOTFND_EIBRESP (BIT) FCE	132	FC_SUPPRESSED_EIBRESP (BIT) FCE	132
FC_NOTFND_EIBRESP2 (BIT) FCE	133	FC_SUPPRESSED_EIBRESP2 (BIT) FCE	133
FC_NOTOPEN_EIBRCODE (BIT) FCE	131	FC_SYSID (0) FCE	131
FC_NOTOPEN_EIBRESP (BIT) FCE	132	FC_SYSIDERR_EIBRCODE (BIT) FCE	131
FC_NOTOPEN_EIBRESP2 (BIT) FCE	133	FC_SYSIDERR_EIBRESP (BIT) FCE	132
FC_NQ_POOL_TOKENS (29C) FCS	143	FC_SYSIDERR_EIBRESP2 (BIT) FCE	133
FC_NRI_X (BIT) FCE	130	FC_TABLE_FULL_EIBRESP2 (BIT) FCE	133
FC_NUMREC (0) FCE	130	FC_TASK_ID (199) FCS	141
FC_OFFSITE_RESTART (BIT) FCS	140	FC_TIMEOUT (214) FCS	142
FC_OK_EIBRCODE (4) FCE	131	FC_TOKEN (0) FCE	131
FC_OK_EIBRESP (BIT) FCE	132	FC_TOKEN_X (BIT) FCE	130
FC_OK_EIBRESP2 (BIT) FCE	132	FC_UNLOCK (BIT) FCE	129
FC_POOL_ELEM_CHAIN (1C4) FCS	141	FC_UPDATE_X (BIT) FCE	130
FC_QR_COUNT (194) FCS	141	FC_VSAM_EXIT_LIST_PTR	143
FC_QUIESCE_DATA	143	FC_WRITE (BIT) FCE	129
FC_QUIESCE_FLAGS (298) FCS	143	FCADD (BIT) SPI	323
FC_QUIESTIM (224) FCS	142	FCBUFFAD (20) FCENT	134
FC_RBA_X (BIT) FCE	129	FCBUFFLN (24) FCENT	134
FC_READ (BIT) FCE	129	FCCHAIN (8) FCENT	134
FC_READNEXT (BIT) FCE	129	FCDELETE (BIT) SPI	323
FC_READPREV (BIT) FCE	129	FCDS01D (60) FIOA	152
FC_RECORDBUSY_EIBRCODE (BIT) FCE	131	FCDSNAM (10) FCENT	134
FC_RECORDBUSY_EIBRESP (BIT) FCE	132	FCE	128
FC_RECORDBUSY_EIBRESP2 (BIT) FCE	133	FCCEIND (BIT) FIOA	152
FC_RECOV_ALLOWED_ECB (BF) FCS	140	FCENT	134
FC_REQID (0) FCE	130	FCENTBEG (BIT) FCENT	134
FC_RESETBR (BIT) FCE	129	FCENTEYE (0) FCENT	134
FC_RESTART_LOG_SCAN_ECB (259) FCS	142	FCFIOAA (10) FIOA	152

FCFIOBEX (4) FIOA 152  
FCFIOBRF (1C) FIOA 152  
FCFIODCB (C) FIOA 152  
FCFIODEC (4) FIOA 152  
FCFIOECB (4) FIOA 152  
FCFIOFCT (34) FIOA 152  
FCFIOIOB (14) FIOA 152  
FCFIOKA (18) FIOA 152  
FCFIOLNG (A) FIOA 152  
FCFIOLRA (2C) FIOA 152  
FCFIOLRL (30) FIOA 152  
FCFIOTYP (8) FIOA 152  
FCFLAGS1 (26) FCENT 134  
FCFLAGS2 (27) FCENT 134  
FCFNXADR (20) FIOA 152  
FCIOEXB (24) FIOA 152  
FCLEN 134  
FCLGC 135  
FCREQID (18) FCENT 134  
FCRIDFLD (1C) FCENT 134  
FCRIDLEN (1A) FCENT 134  
FCS 139  
FCSCMPLT 140  
FCSRSCMP (B8) FCS 140  
FCSYSNM (C) FCENT 134  
FCT 145  
FCT\_BC\_CONN\_CHAIN (F4) FCT 148  
FCT\_IMMEDIATE\_CLOSE (BIT) FCT 147  
FCT\_NEXT\_RLS\_FCTE (F0) FCT 148  
FCT\_RLS\_TIMEOUTS (F8) FCT 148  
FCT\_SET\_AFTER (BIT) FCT 145  
FCTADDIM (BIT) FCT 145  
FCTADR (BIT) FCT 147  
FCTAFTCT (8) FCT 145  
FCTAFTOK (8) FCT 145  
FCTALTIX (BIT) FCT 147  
FCTBACKO (BIT) FCT 146  
FCTBASE (BIT) FCT 147  
FCTBASEN (B0) FCT 148  
FCTBC\_0890\_COUNT (A8) DSN 88  
FCTBC\_BWO\_STAMP (C4) DSN 88  
FCTBC\_CONN\_CHAIN (B4) DSN 88  
FCTBC\_FLLB\_CHAIN 88  
FCTBC\_LOST\_LOCKS (BIT) DSN 88  
FCTBC\_OWNING\_FRAB (B8) DSN 88  
FCTBC\_QCOUNT (C0) DSN 88  
FCTBC\_QSTATE (A7) DSN 88  
FCTBC\_QSTATE\_BWO\_CANCELLING (BIT) DSN 88  
FCTBC\_QSTATE\_BWOING (BIT) DSN 88  
FCTBC\_QSTATE\_COPY\_CANCELLING (BIT) DSN 88  
FCTBC\_QSTATE\_COPY\_POLICING (BIT) DSN 88  
FCTBC\_QSTATE\_COPYING (BIT) DSN 88  
FCTBC\_QSTATE\_NORMAL (BIT) DSN 88  
FCTBC\_QSTATE\_QUIESCE\_CANCELLING (BIT) DSN 88  
FCTBC\_QSTATE\_QUIESCING (BIT) DSN 88  
FCTBC\_QTOKEN (AC) DSN 88  
FCTBC\_RLS\_INDS (74) DSN 88  
FCTBC\_SAFE\_RBA (BC) DSN 88  
FCTBCACB (64) DSN 88  
FCTBCAS (4A) DSN 87  
FCTBCCAT (BIT) DSN 88  
FCTBCCHN (EC) FCT 148  
FCTBCCIS (50) DSN 87  
FCTBCCRL (8D) DSN 88  
FCTBCDTK (80) DSN 88  
FCTBCFIC (61) DSN 87  
FCTBCFL1 (48) DSN 87  
FCTBCFL2 (8C) DSN 88  
FCTBCFR (BIT) DSN 87  
FCTBCFRL (49) DSN 87  
FCTBCFUC (62) DSN 87  
FCTBCFUZ (BIT) DSN 87  
FCTBCKVL (BIT) DSN 87  
FCTBCKYL (4B) DSN 87  
FCTBCLOG (BIT) DSN 87  
FCTBCLSR (60) DSN 87  
FCTBCMIS (BIT) DSN 87  
FCTBCNRA (BIT) DSN 88  
FCTBCPUC (5C) DSN 87  
FCTBCRA (BIT) DSN 88  
FCTBCRCV (BIT) DSN 87  
FCTBCRKP (4C) DSN 87  
FCTBCRLS (BIT) DSN 88  
FCTBCRUC (5E) DSN 87  
FCTBCSHP (BIT) DSN 87  
FCTBCSRB (58) DSN 87  
FCTBCSRP (BIT) DSN 87  
FCTBCTKN 88  
FCTBCUC (44) DSN 87  
FCTBCUNA (BIT) DSN 87  
FCTBCUUC (46) DSN 87  
FCTBCVAL (BIT) DSN 87  
FCTBCVFS (BIT) DSN 87  
FCTBCVSC (54) DSN 87  
FCTBDAMI (BIT) FCT 146  
FCTBFLGS (1C) FCT 146  
FCTBLKIM (BIT) FCT 145  
FCTBRWSE (BIT) FCT 145  
FCTBRZIM (BIT) FCT 145  
FCTBSH24 (BIT) DSN 87  
FCTBSH34 (BIT) DSN 87  
FCTBSH4 (BIT) DSN 87  
FCTBUFND (9C) FCT 148  
FCTBUFNI (9E) FCT 148  
FCTBWO (BIT) FCT 148  
FCTCF\_DT\_TOKEN (114) FCT 148  
FCTCF\_FLAGS (118) FCT 148  
FCTCF\_LOADER\_ID (11C) FCT 148  
FCTCF\_LOADREQ (BIT) FCT 148  
FCTCF\_NEXT\_IN\_POOL\_CHAIN (110) FCT 148  
FCTCF\_POOL\_ELEM\_ADDR (10C) FCT 148  
FCTCF\_POOL\_NAME (104) FCT 148  
FCTCF\_REOPEN (BIT) FCT 148  
FCTCF\_SOURCE (BIT) FCT 148  
FCTCF\_UM\_CONTENT (BIT) FCT 148  
FCTCFDT (BIT) FCT 146  
FCTCFKL (1D) FCT 146  
FCTCFRLN (98) FCT 148  
FCTCLECB (2E) FCT 147  
FCTCLUN (BIT) FCT 146  
FCTCPCIS (BIT) FCTSR 149  
FCTCPKYL (BIT) FCTSR 149  
FCTCPSTN (BIT) FCTSR 149  
FCTCQENA (BIT) FCT 148  
FCTCR (BIT) FCT 148  
FCTDAEXT (68) FCT 148  
FCTDELIM (BIT) FCT 145  
FCTDIECB (2D) FCT 147  
FCTDIINP (BIT) FCT 147  
FCTDISIN (BIT) FCT 147  
FCTDLFLG (BIT) FCT 147  
FCTDNAME (8) DSN 87  
FCTDNBCN (38) DSN 87  
FCTDNFL1 (40) DSN 87  
FCTDNINC (BIT) DSN 87  
FCTDNLEN (3E) DSN 87  
FCTDNNUM (34) DSN 87  
FCTDNRLS (BIT) DSN 87  
FCTDNRN (0) DSN 87  
FCTDNNTYP (3F) DSN 87  
FCTDNUC (3C) DSN 87  
FCTDNVAL (BIT) DSN 87  
FCTDPOLD (BIT) FCT 146  
FCTDPSHR (BIT) FCT 146  
FCTDREUS (BIT) FCT 147  
FCTDRTIM (BIT) FCT 145  
FCTDSACB (A0) FCT 148  
FCTDSADD (BIT) FCT 145  
FCTDSADR (BIT) FCT 147  
FCTDSALT (BIT) FCT 147  
FCTDSASC (80) FCT 148  
FCTDSBCP (60) FCT 147  
FCTDSBDM (BIT) FCT 146  
FCTDSBFP (64) FCT 147  
FCTDSBLK (6E) FCT 149  
FCTDSBR (48) FCT 147  
FCTDSBRU (4C) FCT 147  
FCTDSBWC (68) FCT 147  
FCTDSBWE (A4) FCT 148  
FCTDSCBW (6C) FCT 147  
FCTDSCLX (BIT) FCT 146  
FCTDSCRQ (BIT) FCT 146  
FCTDSCWC (82) FCT 148  
FCTSDA (BIT) FCT 146  
FCTSDBN (78) FCT 147  
FCTSDCB (68) FCT 148

"Restricted Materials of IBM"  
 Licensed Materials – Property of IBM

FCTDSDEL	(8C)	FCT	148	FCTFCTKN	(10)	FCT	145
FCTDSDI	(BIT)	FCT	145	FCTFIXIM	(BIT)	FCT	145
FCTSDSP	(5C)	FCT	147	FCTFOPEN	(BIT)	FCT	146
FCTSDSRT	(BIT)	FCT	145	FCTFRLOG			148
FCTDSENI	(BIT)	FCT	146	FCTFUZZY	(BIT)	FCT	148
FCTDSESD	(BIT)	FCT	147	FCTILFLG	(BIT)	FCT	147
FCTDSEXC	(BIT)	FCT	145	FCTINPFL			147
FCTDSFRT	(58)	FCT	147	FCTIPOOL	(7C)	FCT	147
FCTDSGU	(44)	FCT	147	FCTJASY	(BIT)	FCT	146
FCTDShBW	(6E)	FCT	147	FCTJDSN	(BIT)	FCT	146
FCTDShSW	(90)	FCT	148	FCTJFR	(BIT)	FCT	147
FCTDSIBN	(79)	FCT	147	FCTJRO	(BIT)	FCT	146
FCTDSID	(0)	FCT	145	FCTJRU	(BIT)	FCT	146
FCTDSIMP	(BIT)	FCT	146	FCTJSYN	(BIT)	FCT	146
FCTDSIXP	(40)	FCT	147	FCTJWA	(BIT)	FCT	146
FCTDSJAS	(BIT)	FCT	146	FCTJWAC	(BIT)	FCT	147
FCTDSJDS	(BIT)	FCT	146	FCTJWU	(BIT)	FCT	146
FCTDSJID	(28)	FCT	146	FCTKEYIM	(BIT)	FCT	146
FCTDSJRO	(BIT)	FCT	146	FCTKSDS	(BIT)	FCT	147
FCTDSJRU	(BIT)	FCT	146	FCTLGTKN	(20)	FCT	146
FCTDSJSY	(BIT)	FCT	146	FCTLOG	(BIT)	FCT	146
FCTDSJWA	(BIT)	FCT	146	FCTMAXLN	(94)	FCT	148
FCTDSJWU	(BIT)	FCT	146	FCTMTYRQ	(BIT)	FCT	147
FCTDSKEY	(BIT)	FCT	145	FCTNODSN	(BIT)	FCT	147
FCTDSKL	(1B)	FCT	146	FCTNVEL	(BIT)	FCT	149
FCTDSKSD	(BIT)	FCT	147	FCTOPECB	(2C)	FCT	147
FCTDSLOG	(BIT)	FCT	146	FCTOPENT	(50)	FCT	147
FCTDSMSC	(84)	FCT	148	FCTOPNIM	(BIT)	FCT	146
FCTDSMSW	(24)	FCT	146	FCTPATH	(BIT)	FCT	147
FCTDSNBK	(BIT)	FCT	145	FCTRDIM	(BIT)	FCT	145
FCTDSOBJ	(7B)	FCT	147	FCTREMOT	(BIT)	FCT	146
FCTDSOPI	(BIT)	FCT	146	FCTRLS	(BIT)	FCT	146
FCTDSOPN	(BIT)	FCT	146	FCTRR	(BIT)	FCT	148
FCTDSOPX	(BIT)	FCT	146	FCTRRDS	(BIT)	FCT	147
FCTDSPAT	(BIT)	FCT	147	FCTSHBG	(BIT)	FCT	147
FCTDSPMS	(86)	FCT	148	FCTSHRIM	(BIT)	FCT	147
FCTDSPSW	(25)	FCT	146	FCTSHRSP	(BIT)	FCT	147
FCTDSRD	(30)	FCT	147	FCTSR			149
FCTDSREC	(6C)	FCT	148	FCTSR12K_DATA	(14C)	FCTSR	150
FCTDSRI	(BIT)	FCT	145	FCTSR12K_INDX	(35C)	FCTSR	150
FCTDSRKP	(26)	FCT	146	FCTSR16K_DATA	(17C)	FCTSR	150
FCTDSRRD	(BIT)	FCT	147	FCTSR16K_INDX	(38C)	FCTSR	150
FCTDSSGF	(BIT)	FCT	147	FCTSR1K_DATA	(8C)	FCTSR	150
FCTDSSHR	(BIT)	FCT	147	FCTSR1K_INDX	(29C)	FCTSR	150
FCTDSTAT	(1A)	FCT	146	FCTSR20K_DATA	(1AC)	FCTSR	150
FCTDSTBW	(70)	FCT	147	FCTSR20K_INDX	(3BC)	FCTSR	150
FCTDSTEL	(14)	FCT	145	FCTSR24K_DATA	(1DC)	FCTSR	150
FCTDSTSW	(88)	FCT	148	FCTSR24K_INDX	(3EC)	FCTSR	150
FCTDSUPD	(BIT)	FCT	145	FCTSR28K_DATA	(20C)	FCTSR	150
FCTDSVLI	(BIT)	FCT	145	FCTSR28K_INDX	(41C)	FCTSR	150
FCTDSVR1	(16)	FCT	145	FCTSR2K_DATA	(BC)	FCTSR	150
FCTDSVR2	(17)	FCT	145	FCTSR2K_INDX	(2CC)	FCTSR	150
FCTDSVR3	(18)	FCT	146	FCTSR32K_DATA	(23C)	FCTSR	150
FCTDSVR4	(19)	FCT	146	FCTSR32K_INDX	(44C)	FCTSR	150
FCTDSVR5	(29)	FCT	146	FCTSR4K_DATA	(EC)	FCTSR	150
FCTDSVR6	(7E)	FCT	147	FCTSR4K_INDX	(2FC)	FCTSR	150
FCTDSVR7	(7F)	FCT	148	FCTSR512_DATA	(5C)	FCTSR	150
FCTDSVSM	(BIT)	FCT	146	FCTSR512_INDX	(26C)	FCTSR	150
FCTDSWRA	(34)	FCT	147	FCTSR8K_DATA	(11C)	FCTSR	150
FCTDSWRU	(38)	FCT	147	FCTSR8K_INDX	(32C)	FCTSR	150
FCTDSXCP	(3C)	FCT	147	FCTSRBFF	(6C)	FCTSR	150
FCTDT_NAME	(FC)	FCT	148	FCTSRBLT	(BIT)	FCTSR	149
FCTDTADS	(CC)	FCT	148	FCTSRBSZ	(5C)	FCTSR	150
FCTDTARJ	(D0)	FCT	148	FCTSRBWC	(C)	FCTSR	150
FCTDTATF	(D4)	FCT	148	FCTSRCCI	(8)	FCTSR	149
FCTDTAVR	(C8)	FCT	148	FCTSRCHN	(20)	FCTSR	150
FCTDTBL	(BIT)	FCT	146	FCTSRCIL	(BIT)	FCTSR	150
FCTDTCLS	(BIT)	FCT	146	FCTSRCIS			150
FCTDTDLS	(DC)	FCT	148	FCTSRCKL	(8)	FCTSR	149
FCTDTLDC	(2F)	FCT	147	FCTSRCRF	(84)	FCTSR	150
FCTDTLDS	(E0)	FCT	148	FCTSRCRS	(7C)	FCTSR	150
FCTDTOPN	(BIT)	FCT	147	FCTSRCSN			149
FCTDTPTH	(E8)	FCT	148	FCTSRCSW	(1A)	FCTSR	150
FCTDTRDS	(C0)	FCT	148	FCTSRCTD	(24)	FCTSR	150
FCTDTRNF	(C4)	FCT	148	FCTSRCWF	(88)	FCTSR	150
FCTDTRWS	(D8)	FCT	148	FCTSRCWS	(80)	FCTSR	150
FCTDTSHI	(E4)	FCT	148	FCTSRDMP	(BIT)	FCTSR	149
FCTDTSIZ	(B8)	FCT	148	FCTSRDTD	(2C)	FCTSR	150
FCTDTTKN	(BC)	FCT	148	FCTSRERR	(8)	FCTSR	149
FCTDTUM	(BIT)	FCT	146	FCTSRFRD	(70)	FCTSR	150
FCTDYNAL	(5C)	FCT	147	FCTSRGRP	(0)	FCTSR	149
FCTESDS	(BIT)	FCT	147	FCTSRHAS	(38)	FCTSR	150
FCTEXCIM	(BIT)	FCT	145	FCTSRHBN	(64)	FCTSR	150

FCTSRHBX (68) FCTSR	150
FCTSRHSW (3A) FCTSR	150
FCTSRKYL (34) FCTSR	150
FCTSRNLG (47C) FCTSR	150
FCTSRMAP (40) FCTSR	150
FCTSRNAS	150
FCTSRNCI (BIT) FCTSR	150
FCTSRNKL (1C) FCTSR	150
FCTSRNST (1E) FCTSR	150
FCTSRNUW (78) FCTSR	150
FCTSRORG (8) FCTSR	149
FCTSRPCT (14) FCTSR	150
FCTSRPID	149
FCTSRPST (8) FCTSR	149
FCTSRRFL (23C) FCTSR	150
FCTSRSDI (8) FCTSR	149
FCTSRSEP (BIT) FCTSR	149
FCTSRSTN (36) FCTSR	150
FCTSRSTC (10) FCTSR	150
FCTSRTSW (3C) FCTSR	150
FCTSRUC (A) FCTSR	150
FCTSRUIW (74) FCTSR	150
FCTSRUSR (BIT) FCTSR	149
FCTSRVBN (5E) FCTSR	150
FCTSRVBX (60) FCTSR	150
FCTUPDIM (BIT) FCT	145
FCTUPSTG (92) FCT	148
FCTUQENA (BIT) FCT	148
FCTVRLIM (BIT) FCT	145
FCTVRRDS (BIT) FCT	147
FCTVSAMI (BIT) FCT	146
FCTVSEL	148
FCTVSEXT (68) FCT	147
FCTVSPWD (A8) FCT	148
FCTVSPWL (A7) FCT	148
FCTVSVR1 (7A) FCT	147
FCTVSVR2 (7D) FCT	147
FCTVSWA (74) FCT	147
FCUPDATE (BIT) SPI	323
FCXDF_ENTRY 2 DUA	96
FCXDF_EXIT 2 DUA	96
FCXDF_RECOVERY 2 DUA	96
feature	
feature trace entry header, TRFTE	458
fepi	
fepi connection statistics, A23	28
fepi pool statistics, A22	27
fepi target statistics, A24	29
FFL	151
FFL_AFCTE_ADDRESS (C) FFL	151
FFL_FILE_NAME (4) FFL	151
FFL_NEXT_FFLE (0) FFL	151
FFL_READ_ALLOWED (BIT) FFL	151
FFL_SECURITY_ACCESS (10) FFL	151
FFL_UPDATE_ALLOWED (BIT) FFL	151
file	
application file control table, AFCT	4
fast file locate, FFL	151
file control dataset name, DSN	87
file control EXEC argument list, FCE	128
file control log record format, FCLGC	135
file control shared resources, FCTSR	149
file control static storage, FCS	139
file control statistics, A17	23
file control table entry layout, FCT	145
file control transformer table entries, FCENT	134
file input/output area, FIOA	152
file lasting access block, FLABC	153
file request anchor block, FRABC	167
file request thread element, FRTEC	170
file specific statistics, A09	19
user exit file and dataset information, UEFD	471
XRF CAVM file control block, WFG	521
FIOA	152
FIOA_BLOCK_END	152
FIOA_BROWSE_FLAGS (58) FIOA	152
FIOA_BROWSE_IN_PROGRESS (BIT) FIOA	152
FIOA_BROWSE_KEYLENGTH (44) FIOA	152
FIOA_BROWSE_RRN (46) FIOA	152
FIOA_DEBKEY_BROWSE (BIT) FIOA	152
FIOA_DEBLOCK_REQUIRED (BIT) FIOA	152
FIOA_DEBREC_BROWSE (BIT) FIOA	152
FIOA_INDICATORS (59) FIOA	152
FIOA_JOURNAL_ECN (50) FIOA	152
FIOA_KEY_ADDRESS (38) FIOA	152
FIOA_KEY_WORKAREA (48) FIOA	152
FIOACAD (BIT) FIOA	152
FIOACAE (60) FIOA	152
FIOADBA (BIT) FIOA	152
FIOAFRTE	152
FIOAIND (2) FIOA	152
FIOAL (BIT) FIOA	152
FIOALGTH (0) FIOA	152
FIOAM (BIT) FIOA	152
FLAB_AIX_FULL 1 FLABC	155
FLAB_BACKOUT_ATTEMPTS_DISABLED (BIT) FLABC	154
FLAB_CACHE_FAILURE 1 FLABC	155
FLAB_CICS_FAILURE 1 FLABC	155
FLAB_COMMIT_FAILURE 1 FLABC	155
FLAB_COPY_ACTIVE 1 FLABC	155
FLAB_DEADLOCK 1 FLABC	155
FLAB_DO_NOT_CLOSE (BIT) FLABC	154
FLAB_DO_NOT_REALLOCATE (BIT) FLABC	154
FLAB_DUP_RECORD 1 FLABC	155
FLAB_ENVIRONMENT_ID (24) FLABC	154
FLAB_EYE_CATCHER (0) FLABC	154
FLAB_EYE1 (2) FLABC	154
FLAB_EYE2 (8) FLABC	154
FLAB_FCTE_ADDRESS (20) FLABC	154
FLAB_FILE_BACKOUT_FAILURE 1 FLABC	155
FLAB_FILENAME (18) FLABC	154
FLAB_FLAGS (2C) FLABC	154
FLAB_FRAB_ADDRESS (14) FLABC	154
FLAB_FREE_FLAB_ADDRESS (10) FLABC	154
FLAB_FRTE_CHAIN_ADDRESS (28) FLABC	154
FLAB_INDOUBT 1 FLABC	155
FLAB_IO_ERROR 1 FLABC	155
FLAB_LENGTH (0) FLABC	154
FLAB_LOCK_STRUC_FULL 1 FLABC	155
FLAB_MAIN_PART (10) FLABC	154
FLAB_ML_COMPLETE_SEEN (BIT) FLABC	154
FLAB_NEXT_FLAB_ADDRESS (10) FLABC	154
FLAB_NO_LDEL 1 FLABC	155
FLAB_NO_SPACE 1 FLABC	155
FLAB_NO_SUBREASON 1 FLABC	155
FLAB_NOT_RETAINED 1 FLABC	155
FLAB_OPEN_ERROR 1 FLABC	155
FLAB_QUICMP_PENDING (BIT) FLABC	155
FLAB_READ_ALLOWED (BIT) FLABC	155
FLAB_RECOVERABLE_WORK_DONE (BIT) FLABC	154
FLAB_REPEATABLE_READS 1 FLABC	155
FLAB_RETAIN_REASON	155
FLAB_RETAIN_REASON2 (2F) FLABC	155
FLAB_RETAINABLE_LOCKS 1 FLABC	155
FLAB_RLS_CATASTROPHE 1 FLABC	155
FLAB_SECURITY_ACCESS	155
FLAB_SET_CONTROL (30) FLABC	155
FLAB_SETU_CONTROL (38) FLABC	155
FLAB_SEVERE_ERROR 1 FLABC	155
FLAB_UPDATE_ALLOWED (BIT) FLABC	155
FLAB_WA_COMPLETE_SEEN (BIT) FLABC	155
FLABC	153
FLJB_AUTOJOURNAL (BIT) FCLGC	136
FLJB_BITS (1) FCLGC	136
FLJB_CD_BASE_ESDS_RBA (0) FCLGC	137
FLJB_CD_BITS (C) FCLGC	137
FLJB_CD_DATA_LENGTH	137
FLJB_CD_FIXED_RECFCM (BIT) FCLGC	137
FLJB_CD_KEY_LENGTH (4) FCLGC	137
FLJB_CD_MASS_INSERT (BIT) FCLGC	137
FLJB_CD_ML_FIRST (BIT) FCLGC	137
FLJB_CD_ML_LAST (BIT) FCLGC	137
FLJB_CD_SHUNTED (BIT) FCLGC	137
FLJB_COMMON_DATA (0) FCLGC	137
FLJB_FCD_AUTOJOURNAL (BIT) FCLGC	137
FLJB_FCD_BITS (1A) FCLGC	137
FLJB_FCD_FWD_RECOVERY (BIT) FCLGC	137
FLJB_FCD_FWDRECOVLOG_NAME (0) FCLGC	137
FLJB_FILE_CLOSE 1 FCLGC	138
FLJB_FILE_CLOSE_DATA (0) FCLGC	137
FLJB_FILE_NAME	136
FLJB_FWD_RECOVERY (BIT) FCLGC	136
FLJB_GENERAL_DATA (0) FCLGC	136
FLJB_LOG_OF_LOGS (BIT) FCLGC	136
FLJB_READ_ONLY 1 FCLGC	138
FLJB_READ_UPDATE 1 FCLGC	138



"Restricted Materials of IBM"  
 Licensed Materials – Property of IBM

FLJB_RECORD_TYPE (0) FCLGC	136	FMHBAC_EPN (BIT) FMH	159
FLJB_SYSTEM_LOG (BIT) FCLGC	136	FMHBAC_EPT (BIT) FMH	159
FLJB_TIE_UP 1 FCLGC	138	FMHBAC_PRI (BIT) FMH	159
FLJB_TIE_UP_RECORD (0) FCLGC	137	FMHBAC_RRS (BIT) FMH	159
FLJB_TUR_AUTOJOURNAL (BIT) FCLGC	138	FMHBAC_SRC (BIT) FMH	159
FLJB_TUR_BASE_CL_SIZE (0) FCLGC	137	FMHBACC (1) FMH	159
FLJB_TUR_BASE_DSNAME (12) FCLGC	138	FMHBACCL (0) FMH	158
FLJB_TUR_BASE_DSNAME_LENGTH (10) FCLGC	138	FMHBACPA (BIT) FMH	159
FLJB_TUR_BASE_KEY_LENGTH (C) FCLGC	138	FMHBACPR (BIT) FMH	159
FLJB_TUR_BASE_KEY_POSITION (8) FCLGC	138	FMHBACSD (2) FMH	159
FLJB_TUR_BITS (86) FCLGC	138	FMHBACSL (0) FMH	159
FLJB_TUR_DATASET_COPY (BIT) FCLGC	138	FMHBACST (1) FMH	159
FLJB_TUR_DATASET_TYPE (E) FCLGC	138	FMHBACUS (BIT) FMH	159
FLJB_TUR_FWD_RECOVERY (BIT) FCLGC	138	FMHBAVER (BIT) FMH	158
FLJB_TUR_FWDRECOVLOG_NAME (6C) FCLGC	138	FMHBCCS (1) FMH	159
FLJB_TUR_MAXIMUM_LRECL (4) FCLGC	137	FMHBCCSL (0) FMH	159
FLJB_TUR_OPEN (BIT) FCLGC	138	FMHBCMD (0) FMH	158
FLJB_TUR_PATH_DSNAME (40) FCLGC	138	FMHBCVT (6) FMH	158
FLJB_TUR_PATH_DSNAME_LENGTH (3E) FCLGC	138	FMHBFXCT (BIT) FMH	158
FLJB_TUR_RECORD_FORMAT (F) FCLGC	138	FMHBFXT1 (6) FMH	158
FLJB_TUR_RLS (BIT) FCLGC	138	FMHBFXT2 (7) FMH	158
FLJB_TUR_TAKE_KEYPOINT (BIT) FCLGC	138	FMHBFXT3 (8) FMH	158
FLJB_WDD_BASE_ESDS_RBA (0) FCLGC	137	FMHBLUIN (BIT) FMH	156
FLJB_WDD_BASE_KEY_LENGTH (4) FCLGC	137	FMHBMAPD (BIT) FMH	158
FLJB_WDD_BITS (8) FCLGC	137	FMHBODS (BIT) FMH	156
FLJB_WDD_FIXED_RECFCM (BIT) FCLGC	137	FMHBPPIP (BIT) FMH	158
FLJB_WDD_PATH_KEY_LENGTH (6) FCLGC	137	FMHBPV2 (BIT) FMH	158
FLJB_WDD_SHUNTED (BIT) FCLGC	137	FMHBPVER (BIT) FMH	158
FLJB_WRITE_ADD 1 FCLGC	138	FMHBRNO (BIT) FMH	158
FLJB_WRITE_ADD_COMPLETE 1 FCLGC	138	FMHBRSTL (8) FMH	158
FLJB_WRITE_DELETE 1 FCLGC	138	FMHBRYES (BIT) FMH	158
FLJB_WRITE_DELETE_DATA (0) FCLGC	137	FMHBSEQ (1) FMH	159
FLJB_WRITE_UPDATE 1 FCLGC	138	FMHBSEQL (0) FMH	159
FMH	156	FMHBSPL (8) FMH	158
FMH_CONSOLE (BIT) FMH	159	FMHBSPL0 (BIT) FMH	158
FMH_VTAM_TERMINAL (BIT) FMH	159	FMHBSPL1 (BIT) FMH	158
FMH2DAT1 (3) FMH	157	FMHBSPL2 (BIT) FMH	158
FMH2DAT2	157	FMHBSPMK (BIT) FMH	158
FMH2FADD (BIT) FMH	157	FMHBTPN (1) FMH	158
FMH2FERA (BIT) FMH	157	FMHBTPNL (0) FMH	158
FMH2FNOT (BIT) FMH	157	FMHBTTFN (BIT) FMH	158
FMH2FQUE (BIT) FMH	157	FMHBUCLK (0) FMH	159
FMH2FREP (BIT) FMH	157	FMHBULU (2) FMH	159
FMH2FRID (BIT) FMH	157	FMHBULUL (1) FMH	159
FMH2FVOL (BIT) FMH	157	FMHBUNMP (BIT) FMH	158
FMH2NTRY (BIT) FMH	157	FMHBUOW (1) FMH	159
FMH2NURC (3) FMH	157	FMHBUOWL (0) FMH	159
FMH2OPCD (2) FMH	157	FMHBUSEQ (6) FMH	159
FMH2RIAK (BIT) FMH	157	FMHBXSEC (BIT) FMH	158
FMH2RIAP (BIT) FMH	157	FMHCARGL (0) FMH	166
FMH2RICC (BIT) FMH	157	FMHCARGN (2) FMH	166
FMH2RID1 (BIT) FMH	157	FMHCARGV (3) FMH	166
FMH2RID2 (BIT) FMH	157	FMHCAT (BIT) FMH	158
FMH2RITY (3) FMH	157	FMHCINVP (0) FMH	165
FMH5_PS_DATA (5B) ZGRP	601	FMHCNDRQ (BIT) FMH	160
FMH5_PSRH (5D) ZGRP	601	FMHCOPTS (0) FMH	165
FMH5_PSRU (60) ZGRP	601	FMHCRUDE (0) FMH	165
FMH5_PSSEQ (5B) ZGRP	601	FMHCT (1) FMH	157
FMH5_PTR (10) ZGRP	603	FMHCTRRC (0) FMH	166
FMH5_SP_DATA (70) ZGRP	601	FMHDAIB (BIT) FMH	162
FMH5_SPRH (72) ZGRP	602	FMHDAREA (3) FMH	162
FMH5_SPRU (75) ZGRP	602	FMHDBORG (0) FMH	162
FMH5_SPSEQ (70) ZGRP	602	FMHDCONF (BIT) FMH	162
FMHALARM (BIT) FMH	156	FMHDDBDN (0) FMH	162
FMHARDPN (0) FMH	158	FMHDEFAB (BIT) FMH	157
FMHARLEN (BIT) FMH	158	FMHDEFBD (BIT) FMH	157
FMHARMAX (BIT) FMH	158	FMHDEFBG (BIT) FMH	157
FMHARPRN (0) FMH	158	FMHDEFEN (BIT) FMH	157
FMHARU (BIT) FMH	158	FMHDEFRE (BIT) FMH	157
FMHARUC (BIT) FMH	158	FMHDEFSU (BIT) FMH	157
FMHASCSC (BIT) FMH	158	FMHDESEL (4) FMH	157
FMHASCSD (BIT) FMH	158	FMHDESTC	164
FMHATDBA (7) FMH	158	FMHDFAIL (BIT) FMH	162
FMHATDPL (0) FMH	158	FMHDIOA (BIT) FMH	162
FMHATDPN (0) FMH	158	FMHDIOMX (0) FMH	162
FMHATDPV (1) FMH	158	FMHDIOPC (3) FMH	164
FMHATDQN (0) FMH	158	FMHDIPCB (BIT) FMH	162
FMHATDS (6) FMH	158	FMHDKEY (BIT) FMH	162
FMHATPRN (0) FMH	158	FMHDLENG (0) FMH	162
FMHATTFN (BIT) FMH	158	FMHDMKYL (7) FMH	162
FMHAU (BIT) FMH	158	FMHDNACT (BIT) FMH	162
FMHAV (BIT) FMH	158	FMHDNAUT (BIT) FMH	162
FMHBAC_APL (BIT) FMH	159	FMHDNBA (C) FMH	164

FMHDFND	(BIT)	FMH	162	FMHMEWM1	(BIT)	FMH	156
FMHDFNOPN	(BIT)	FMH	162	FMHMEWM2	(BIT)	FMH	156
FMHDFNTNT	(3)	FMH	162	FMHMEWM3	(BIT)	FMH	156
FMHDFNVRQ	(BIT)	FMH	163	FMHMEWM4	(BIT)	FMH	156
FMHDFDOBA	(E)	FMH	164	FMHMEXDC	(BIT)	FMH	156
FMHDFPARM	(3)	FMH	162	FMHPPGPPR	(BIT)	FMH	165
FMHDFPCB	(BIT)	FMH	162	FMHPPGPSY	(BIT)	FMH	165
FMHDFPCBI	(6)	FMH	162	FMHPPPTCD	(BIT)	FMH	165
FMHDFPCBN	(0)	FMH	162	FMHPPTEB	(BIT)	FMH	165
FMHDFPKEY	(3)	FMH	162	FMHPPPTFL	(BIT)	FMH	165
FMHDFPPCB	(3)	FMH	162	FMHPPPTYP	(5)	FMH	165
FMHDFPSBN	(0)	FMH	162	FMHPRSV1	(4)	FMH	165
FMHDFPSCH	(3)	FMH	164	FMHQCURS		160	
FMHDFPSRT	(0)	FMH	164	FMHQDISA	(BIT)	FMH	161
FMHDFPSSA	(3)	FMH	162	FMHQDISP	(BIT)	FMH	161
FMHDFPSTA	(3)	FMH	164	FMHQEMPT	(BIT)	FMH	161
FMHDFRCD1	(6)	FMH	163	FMHQEMSG	(BIT)	FMH	161
FMHDFRCD2	(7)	FMH	163	FMHQERRO	(BIT)	FMH	161
FMHDFRCDS	(6)	FMH	163	FMHQHIER	(BIT)	FMH	160
FMHDFSAMX	(0)	FMH	162	FMHQINVC	(BIT)	FMH	161
FMHDFSCHD	(BIT)	FMH	162	FMHQINVL	(BIT)	FMH	161
FMHDFSDSP	(3)	FMH	157	FMHQINVN	(BIT)	FMH	161
FMHDFSEGL	(8)	FMH	163	FMHQINVR	(BIT)	FMH	161
FMHDFSEGN	(0)	FMH	163	FMHQIORG	(BIT)	FMH	161
FMHDFSEGS	(B)	FMH	162	FMHQLINE	(BIT)	FMH	160
FMHDFSINH	(9)	FMH	157	FMHQLOCK	(BIT)	FMH	161
FMHDFSNL	(8)	FMH	157	FMHQNAME	(0)	FMH	160
FMHDFSP	(3)	FMH	156	FMHQNAUT	(BIT)	FMH	161
FMHDFSPBA	(BIT)	FMH	157	FMHQNAVL	(BIT)	FMH	161
FMHDFSPDE	(BIT)	FMH	156	FMHQNSPE	(BIT)	FMH	160
FMHDFSPI1	(BIT)	FMH	157	FMHQQORG	(6)	FMH	160
FMHDFSPI2	(BIT)	FMH	157	FMHQRCLN	(0)	FMH	161
FMHDFSPI3	(BIT)	FMH	157	FMHQRCNT		161	
FMHDFSPJB	(BIT)	FMH	157	FMHQRNVL	(BIT)	FMH	161
FMHDFSPRW	(BIT)	FMH	157	FMHQSENS		161	
FMHDFSPSF	(BIT)	FMH	157	FMHQSEQL	(BIT)	FMH	160
FMHDFSRC1	(6)	FMH	162	FMHQSPAC	(BIT)	FMH	161
FMHDFSRC2	(7)	FMH	162	FMHQSTA1	(7)	FMH	161
FMHDFSRCS	(6)	FMH	162	FMHQSTA2	(8)	FMH	161
FMHDFSRTK	(BIT)	FMH	162	FMHQSTAT		161	
FMHDFSSA	(BIT)	FMH	162	FMHQSYSI	(BIT)	FMH	161
FMHDFSSCD		164		FMHQTRSZ	(0)	FMH	160
FMHDFSTC	(0)	FMH	162	FMHQXFST		161	
FMHDFSTCD	(A)	FMH	163	FMHRESV1	(5)	FMH	157
FMHDFSTFN	(BIT)	FMH	162	FMHRESV2	(6)	FMH	157
FMHDFSTFO	(7)	FMH	164	FMHRTST	(BIT)	FMH	159
FMHDFSTRE	(8)	FMH	164	FMHSCDPN		160	
FMHDFSTTY	(3)	FMH	164	FMHSDELY	(0)	FMH	159
FMHDFSTYP	(2)	FMH	162	FMHSERR	(BIT)	FMH	160
FMHDFHELOG	(6)	FMH	165	FMHSIDPN	(BIT)	FMH	160
FMHDFHELOG0	(BIT)	FMH	165	FMHSIEXP	(BIT)	FMH	160
FMHDFHELOG1	(BIT)	FMH	165	FMHSINAU	(BIT)	FMH	160
FMHDFHEODS	(BIT)	FMH	156	FMHSINV	(BIT)	FMH	160
FMHDFHERCI	(5)	FMH	157	FMHSIPRN	(BIT)	FMH	160
FMHDFHERDPN	(0)	FMH	159	FMHSIPSBNM	(6)	FMH	164
FMHDFHERPRN	(0)	FMH	159	FMHSIREQ	(0)	FMH	160
FMHDFHCONC	(BIT)	FMH	156	FMHSMCCD	(8)	FMH	165
FMHDFHFD	(BIT)	FMH	156	FMHSMDCD	(C)	FMH	165
FMHDFHLAG3	(3)	FMH	156	FMHSMNUM	(6)	FMH	165
FMHDFHLAGS		156		FMHSMSTD	(8)	FMH	165
FMHDFHFN	(3)	FMH	158	FMHSNFD	(BIT)	FMH	160
FMHDFHFORG	(6)	FMH	158	FMHSPNAU	(BIT)	FMH	160
FMHDFHTYP1	(BIT)	FMH	156	FMHSPRN	(0)	FMH	159
FMHDFHTYP2	(BIT)	FMH	156	FMHSPSTS	(6)	FMH	160
FMHDFHTYP3	(BIT)	FMH	156	FMHSPSYS	(BIT)	FMH	160
FMHDFHGROUP	(2)	FMH	158	FMHSQNME	(0)	FMH	159
FMHDFHHD	(1)	FMH	156	FMHSRDPN	(0)	FMH	159
FMHDFHHL	(0)	FMH	157	FMHSREQN	(0)	FMH	159
FMHDFH3600	(BIT)	FMH	156	FMHSRPRN	(0)	FMH	159
FMHDFHBLU	(BIT)	FMH	156	FMHSRQST	(6)	FMH	159
FMHDFHLC	(2)	FMH	156	FMHSSDPN	(0)	FMH	159
FMHDFHLEN		156		FMHSSST2	(7)	FMH	160
FMHDFHLENG	(0)	FMH	156	FMHSSSTS	(6)	FMH	160
FMHDFHLLU4	(BIT)	FMH	156	FMHSSYSI	(BIT)	FMH	160
FMHDFHMEDIA	(2)	FMH	156	FMHSTIME	(BIT)	FMH	159
FMHDFHMEFAN	(BIT)	FMH	156	FMHSUSP	(BIT)	FMH	156
FMHDFHMEFCD	(BIT)	FMH	156	FMHSYSNE	(0)	FMH	159
FMHDFHMEFCN	(BIT)	FMH	156	FMHT05	(BIT)	FMH	158
FMHDFHMEFDI	(BIT)	FMH	156	FMHT06	(BIT)	FMH	158
FMHDFHMEFEX	(BIT)	FMH	156	FMHT07	(BIT)	FMH	158
FMHDFHMEFPD	(BIT)	FMH	156	FMHT0A	(BIT)	FMH	158
FMHDFHMEFPR	(BIT)	FMH	156	FMHTOC	(BIT)	FMH	158
FMHDFHMENCI	(BIT)	FMH	156	FMHT1STK	(BIT)	FMH	156

"Restricted Materials of IBM"  
 Licensed Materials – Property of IBM

FMHT43 (BIT) FMH 158  
 FMHT5ATT (BIT) FMH 158  
 FMHTBLU (BIT) FMH 156  
 FMHTRMNE (0) FMH 159  
 FMHTYPE (1) FMH 156  
 FMHUIDER (BIT) FMH 160  
 FMHUSID (0) FMH 159  
 FMHVTPW (2) FMH 165  
 FMHXCMD (2) FMH 158  
 FMHXDELY (BIT) FMH 159  
 FMHFXCT (5) FMH 158  
 FMHXLNSZ (BIT) FMH 158  
 FMHXMMD (4) FMH 158  
 FMHXPROT (BIT) FMH 159  
 FMHXRPLY (BIT) FMH 159  
 FMHXSS (2) FMH 158  
 FMHXTOS (BIT) FMH 158  
 FMHXUS (4) FMH 158  
 FMI 166  
 FOOTPRINTS (6C) XCTRC 556  
 format  
   file control log record format, FCLGC 135  
   general log format, LGGF 204  
   MGM format of prototype messages, MGM 230  
   SMF log format, LGMS 207  
 formats  
   transaction dump record formats, DCR 66  
 formatting  
   trace formatting control area, TRFCA 452  
 PPFACFTA 149  
 PPFATTR (0) FCT 149  
 PPFPRFL 149  
 PFPVADR 149  
 PPFSELFA (8) FCT 149  
 FRAB\_DT\_UOW\_TOKEN (2C) FRABC 169  
 FRAB\_EXCL\_VSWA (20) FRABC 169  
 FRAB\_EYE\_CATCHER (0) FRABC 168  
 FRAB\_EYE1 (2) FRABC 168  
 FRAB\_EYE2 (8) FRABC 168  
 FRAB\_FCUP\_CHAIN\_ADDRESS (34) FRABC 169  
 FRAB\_FLAB\_CHAIN\_ADDRESS (18) FRABC 168  
 FRAB\_FLAGS (30) FRABC 169  
 FRAB\_FLLB\_CHAIN\_ADDRESS (1C) FRABC 169  
 FRAB\_FREE\_FRAB\_ADDRESS (10) FRABC 168  
 FRAB\_HAS\_BEEN\_SHUNTED (BIT) FRABC 169  
 FRAB\_LENGTH (0) FRABC 168  
 FRAB\_LUWID (48) FRABC 169  
 FRAB\_MAIN\_PART (10) FRABC 168  
 FRAB\_NEXT\_FRAB\_ADDRESS (10) FRABC 168  
 FRAB\_NON\_RLS\_LOCKS\_HELD (BIT) FRABC 169  
 FRAB\_PHASE\_2\_SYNC (BIT) FRABC 169  
 FRAB\_PREV\_FRAB\_ADDRESS (14) FRABC 168  
 FRAB\_REQUEST\_FORGET (BIT) FRABC 169  
 FRAB\_RLS\_LOCKS\_HELD (BIT) FRABC 169  
 FRAB\_RLS\_TIMEOUT 169  
 FRAB\_SERVER\_SEQUENCE (3C) FRABC 169  
 FRAB\_TRANID (44) FRABC 169  
 FRAB\_TRANNUM (40) FRABC 169  
 FRAB\_TRANSACTION\_TOKEN (24) FRABC 169  
 FRAB\_UOWID\_SET (BIT) FRABC 169  
 FRAB\_UPDATE\_TOKEN (28) FRABC 169  
 FRAB\_VSAM\_WORKAREA (A8) FRABC 169  
 FRABC 167  
 FRRPISDW (BIT) SRB 327  
 FRRPRSA (BIT) SRB 327  
 FRRPRSCS (BIT) SRB 327  
 FRRPSDW (BIT) SRB 327  
 FRRPSRX (BIT) SRB 327  
 FRT\_ACCMETH\_MODULE\_ACTIVE (BIT) FRTEC 171  
 FRT\_BACKOUT (BIT) FRTEC 171  
 FRT\_BCB\_ADDRESS (54) FRTEC 171  
 FRT\_CF\_CONNECTION\_TOKEN (4C) FRTEC 171  
 FRT\_CF\_INSTANCE\_NUMBER (50) FRTEC 171  
 FRT\_CONTINUATION (BIT) FRTEC 171  
 FRT\_DATA\_BUFFER (1C) FRTEC 171  
 FRT\_DELETE 1 FRTEC 172  
 FRT\_DT\_RECORD\_TOKEN (40) FRTEC 171  
 FRT\_EYE\_CATCHER (0) FRTEC 170  
 FRT\_EYE1 (2) FRTEC 170  
 FRT\_EYE2 (8) FRTEC 170  
 FRT\_FBWA\_ADDRESS (40) FRTEC 171  
 FRT\_FLAB\_ADDRESS (14) FRTEC 171  
 FRT\_FLAGS (19) FRTEC 171

FRT\_FORCE\_TOKEN (58) FRTEC 171  
 FRT\_FREE\_FRTE\_ADDRESS (10) FRTEC 171  
 FRT\_FUNCTION (18) FRTEC 171  
 FRT\_IFGLUWID\_POINTER (68) FRTEC 171  
 FRT\_INITIAL\_LOAD (BIT) FRTEC 171  
 FRT\_KEY\_COPY (3C) FRTEC 171  
 FRT\_LENGTH (0) FRTEC 170  
 FRT\_MAIN\_PART (10) FRTEC 170  
 FRT\_NEXT\_FRTE\_ADDRESS (10) FRTEC 170  
 FRT\_PRIVILEGED (BIT) FRTEC 171  
 FRT\_READ 1 FRTEC 172  
 FRT\_READ\_UPDATE 1 FRTEC 172  
 FRT\_REQID 171  
 FRT\_SET\_CONTROL (34) FRTEC 171  
 FRT\_START\_BROWSE 1 FRTEC 172  
 FRT\_UMT\_LOCK\_HELD (BIT) FRTEC 171  
 FRT\_UPDATE\_TOKEN (20) FRTEC 171  
 FRT\_USE\_FCDT (BIT) FRTEC 171  
 FRT\_WORK\_AREA\_ADDRESS (24) FRTEC 171  
 FRT\_WORK\_AREA\_LENGTH (28) FRTEC 171  
 FRT\_WORK\_AREA\_SUBPOOL (2C) FRTEC 171  
 FRT\_WRITE 1 FRTEC 172  
 FRT\_WRMI\_COUNT (5C) FRTEC 171  
 FRT\_WRMI\_START\_TIME (60) FRTEC 171  
 FRTEC 170  
 FT\_DEREGISTERED 2 DUA 94  
 FT\_REGISTERED 2 DUA 94  
 FTB (0) DUA 91  
 FTB\_ARROW (2) DUA 91  
 FTB\_BLOCK\_NAME (8) DUA 91  
 FTB\_DFH (3) DUA 91  
 FTB\_DOMID (6) DUA 91  
 FTB\_LENGTH (0) DUA 91  
 FTB\_NEXT (10) DUA 91  
 FTB\_PREFIX (0) DUA 91  
 FTBLOCK\_NAME 8 DUA 94  
 FTE (0) DUA 91  
 FTE\_BLOCK\_SIZE 4 DUA 95  
 FTE\_COMPANY\_NAME (12) DUA 91  
 FTE\_COUNT 92  
 FTE\_DUMP\_FORMATTING\_ROUTINE (58) DUA 91  
 FTE\_FEATURE\_LEVEL (4E) DUA 91  
 FTE\_FEATURE\_NAME (30) DUA 91  
 FTE\_FEATURE\_TOKEN (8) DUA 91  
 FTE\_FEATURE\_TRACE\_TOKEN (74) DUA 92  
 FTE\_NEXT (0) DUA 91  
 FTE\_PREV (4) DUA 91  
 FTE\_STATUS (10) DUA 91  
 FTE\_TRACE\_ABBREVIATED\_NAME (68) DUA 92  
 FTE\_TRACE\_FORMATTING\_ROUTINE (60) DUA 92  
 function  
   authorized function blocks, AFCB 2  
   function and module identifiers, FMI 166  
   function management headers, FMH 156  
   function request shipping message, IMSDS 186  
   function shipping request control block, XFR 563  
   transformed MRO function, XFIOA 561

## G

general  
   DL/I general purpose macro, CTXPA 63  
   DL/I general purpose macro, CWE 64  
   DL/I general purpose macro, DLP 80  
   DL/I general purpose macro, RPD 279  
   DL/I general purpose macro, RSB 280, 283  
   general log format, LGGF 204  
 generator  
   common system area generator, CSA 52  
 GET (BIT) SIP 291  
 GL\_SOR\_BODY (0) LGGF 205  
 GL\_SYS\_SUP (BIT) DUA 92  
 GL\_SYS\_SUP\_OFF 0 DUA 97  
 GL\_SYS\_SUP\_ON 0 DUA 97  
 global  
   application domain global statistics, APSTG 9  
   cics/db2 global statistics, D2GDS 106  
   DBCTL-CICS global block, DGB 75  
   dump domain global statistics, SDG 287  
   dump domain global statistics, DUGS 100  
   enqueue manager global statistics, NQG 247

global (continued)

global trap working storage, TRGTW 459  
 global user exit plist, UEPAR 476  
 recovery manager global statistics, RMG 278  
 transaction manager global stats, XMGDS 566  
 transient data global statistics, TQG 444  
 VTAM global statistics, A03 14  
 XRF global control block, WCG 515  
 XRF message manager global area, WMG 522  
 GLOBMISC (18) SPI 323  
 GLRH\_GMT (C) LGGF 205  
 GLRH\_HEADER\_LENGTH (4) LGGF 205  
 GLRH\_LGSSI (34) LGGF 205  
 GLRH\_LGSSI\_FLAGS (34) LGGF 205  
 GLRH\_LGSSI\_RSVD (35) LGGF 205  
 GLRH\_LOCAL (14) LGGF 205  
 GLRH\_REC\_COMPID (2A) LGGF 205  
 GLRH\_REC\_DATA (38) LGGF 205  
 GLRH\_REC\_DATA\_LEN (8) LGGF 205  
 GLRH\_REC\_JOURNAL (2C) LGGF 205  
 GLRH\_REC\_TYPE (28) LGGF 205  
 GLRH\_RECORD\_HEADER (0) LGGF 205  
 GLRH\_RECORD\_ID (28) LGGF 205  
 GLRH\_RECORD\_LENGTH (0) LGGF 205  
 GLRH\_START\_OF\_TASK (BIT) LGGF 205  
 GLRH\_START\_OF\_UOW (BIT) LGGF 205  
 GLRH\_TASK\_ID (20) LGGF 205  
 GLRH\_TASK\_INFO (1C) LGGF 205  
 GLRH\_TERM\_ID (24) LGGF 205  
 GLRH\_TIMESTAMPS (C) LGGF 205  
 GLRH\_TRAN\_ID (1C) LGGF 205  
 GMAIN\_DATA (0) DCR 68  
 gntran  
 gntran stub parameter list for cegn, SNGN 319  
 GNTRAN\_CURSOR\_POSITION (2A) SNGS 320  
 GNTRAN\_PSEUDO\_CONV\_FLAG (4) SNGS 320  
 GNTRAN\_PSEUDO\_CONV\_TRANSID 320  
 GNTRAN\_SCREEN\_BUFFER (40) SNGS 320  
 GNTRAN\_SCREEN\_HEIGHT (2E) SNGS 320  
 GNTRAN\_SCREEN\_LENGTH (28) SNGS 320  
 GNTRAN\_SCREEN\_TRUNCATED (5) SNGS 320  
 GNTRAN\_SCREEN\_WIDTH (2C) SNGS 320  
 GNTRAN\_START\_TRANSID (0) SNGS 320  
 GNTRAN\_TIMEOUT\_REASON (18) SNGS 320  
 GNTRAN\_TIMEOUT\_TIME 320  
 GNTRAN\_TRANSLATE\_TIOA (6) SNGS 320  
 GNTRAN\_USER\_FIELD (30) SNGS 320  
 goodnight  
 goodnight transaction parameter list, SNGS 320  
 GTF\_BUF\_FREEMAIN\_REQ (BIT) XCTRC 556  
 GTF\_LEN (1F8) XCTRC 557  
 GTF\_LTG (1FA) XCTRC 557  
 GTF\_MAX 2 TRBL 450  
 GTF\_PTR (1F4) XCTRC 557  
 GTF\_TYPE\_NUM 1 TRFCA 457  
 GTRACE\_AUTO (202) XCTRC 557

## H

handler  
 document handler template exitpgm interface, DHTX 77  
 header  
 feature trace entry header, TRFTE 458  
 SMF header and SMF product section, MNSMF 235  
 SMF header and SMF product section, SMF 311  
 user exit table header, UETH 500  
 XRF tracking record header, ZXTR 610  
 headers  
 function management headers, FMH 156  
 HIGH\_WORD (8) SNEK 317

## I

I (54) XCTRC 556  
 IC\_ABSTIME\_GROUP 1 ICUE 185  
 IC\_ADDR\_LIST (0) ICUE 177  
 IC\_ADDR0 (0) ICUE 177  
 IC\_ADDR1 (4) ICUE 177  
 IC\_ADDR10 (40) ICUE 177  
 IC\_ADDR11 (44) ICUE 177  
 IC\_ADDR12 (48) ICUE 177  
 IC\_ADDR13 (4C) ICUE 177

IC\_ADDR14 (50) ICUE 177  
 IC\_ADDR15 (54) ICUE 177  
 IC\_ADDR16 (58) ICUE 177  
 IC\_ADDR1D (74) ICUE 177  
 IC\_ADDR1E (78) ICUE 177  
 IC\_ADDR2 (8) ICUE 177  
 IC\_ADDR3 (C) ICUE 177  
 IC\_ADDR4 (10) ICUE 177  
 IC\_ADDR5 (14) ICUE 177  
 IC\_ADDR6 (18) ICUE 177  
 IC\_ADDR7 (1C) ICUE 177  
 IC\_ADDR8 (20) ICUE 177  
 IC\_ADDR9 (24) ICUE 177  
 IC\_ADDRRA (28) ICUE 177  
 IC\_ADDRRB (2C) ICUE 177  
 IC\_ADDRRC (30) ICUE 177  
 IC\_ADDRD (34) ICUE 177  
 IC\_ADDRE (38) ICUE 177  
 IC\_ADDRF (3C) ICUE 177  
 IC\_ASKTIME 1 ICUE 185  
 IC\_ASKTIME\_ABSTIME (0) ICUE 181  
 IC\_ASKTIME\_ABSTIME\_X (BIT) ICUE 179  
 IC\_ATTACH\_FAILED\_EIBRESP2 1 ICUE 186  
 IC\_ATUNTIL\_X (BIT) ICUE 180  
 IC\_BITS1 (2) ICUE 177  
 IC\_BITS2 (3) ICUE 178  
 IC\_CANCEL 1 ICUE 185  
 IC\_CANCEL\_REQID (0) ICUE 181  
 IC\_CANCEL\_REQID\_V (BIT) ICUE 177  
 IC\_CANCEL\_REQID\_X (BIT) ICUE 180  
 IC\_CANCEL\_SYSID (0) ICUE 182  
 IC\_CANCEL\_SYSID\_V (BIT) ICUE 178  
 IC\_CANCEL\_TRANSID (0) ICUE 182  
 IC\_CANCEL\_TRANSID\_V (BIT) ICUE 178  
 IC\_DATA1 (0) ICUE 181  
 IC\_DATA10 (0) ICUE 183  
 IC\_DATA11 (0) ICUE 183  
 IC\_DATA12 (0) ICUE 183  
 IC\_DATA13 (0) ICUE 183  
 IC\_DATA14 (0) ICUE 183  
 IC\_DATA15 (0) ICUE 184  
 IC\_DATA16 (0) ICUE 184  
 IC\_DATA17 (0) ICUE 184  
 IC\_DATA18 (0) ICUE 184  
 IC\_DATA19 (0) ICUE 184  
 IC\_DATA2 (0) ICUE 181  
 IC\_DATA20 (0) ICUE 184  
 IC\_DATA21 (0) ICUE 184  
 IC\_DATA22 (0) ICUE 185  
 IC\_DATA29 (0) ICUE 185  
 IC\_DATA3 (0) ICUE 182  
 IC\_DATA30 (0) ICUE 185  
 IC\_DATA4 (0) ICUE 182  
 IC\_DATA5 (0) ICUE 182  
 IC\_DATA6 (0) ICUE 182  
 IC\_DATA7 (0) ICUE 182  
 IC\_DATA8 (0) ICUE 182  
 IC\_DATA9 (0) ICUE 183  
 IC\_DELAY 1 ICUE 185  
 IC\_DELAY\_FOR\_X (BIT) ICUE 180  
 IC\_DELAY\_HOURS (0) ICUE 183  
 IC\_DELAY\_HOURS\_V (BIT) ICUE 179  
 IC\_DELAY\_INTERVAL (0) ICUE 181  
 IC\_DELAY\_MINUTES (0) ICUE 183  
 IC\_DELAY\_MINUTES\_V (BIT) ICUE 179  
 IC\_DELAY\_REQID (0) ICUE 181  
 IC\_DELAY\_REQID\_V (BIT) ICUE 177  
 IC\_DELAY\_REQID\_X (BIT) ICUE 180  
 IC\_DELAY\_SECONDS (0) ICUE 183  
 IC\_DELAY\_SECONDS\_V (BIT) ICUE 179  
 IC\_DELAY\_TIME (0) ICUE 181  
 IC\_DELAY\_TIME\_INTERVAL\_V (BIT) ICUE 177  
 IC\_DELAY\_TIME\_X (BIT) ICUE 180  
 IC\_DELAY\_UNTIL\_X (BIT) ICUE 180  
 IC\_EID (0) ICUE 177  
 IC\_EIDOPT4 (4) ICUE 179  
 IC\_EIDOPT5 (5) ICUE 179  
 IC\_EIDOPT6 (6) ICUE 180  
 IC\_EIDOPT7 (7) ICUE 180  
 IC\_EIDOPT8 (8) ICUE 180  
 IC\_ENDDATA\_EIBRCODE 1 ICUE 185  
 IC\_ENDDATA\_EIBRESP 1 ICUE 185  
 IC\_ENVDEFERR\_EIBRCODE 1 ICUE 185

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IC\_ENVDEFERR\_EIBRESP 1 ICUE 185  
IC\_EXIST1 (BIT) ICUE 177  
IC\_EXIST10 (BIT) ICUE 179  
IC\_EXIST2 (BIT) ICUE 177  
IC\_EXIST3 (BIT) ICUE 178  
IC\_EXIST4 (BIT) ICUE 178  
IC\_EXIST5 (BIT) ICUE 178  
IC\_EXIST6 (BIT) ICUE 178  
IC\_EXIST7 (BIT) ICUE 178  
IC\_EXIST8 (BIT) ICUE 178  
IC\_EXIST9 (BIT) ICUE 178  
IC\_EXISTA (BIT) ICUE 178  
IC\_EXISTB (BIT) ICUE 179  
IC\_EXISTC (BIT) ICUE 179  
IC\_EXISTD (BIT) ICUE 179  
IC\_EXISTE (BIT) ICUE 179  
IC\_EXISTF (BIT) ICUE 179  
IC\_EXPIRED\_EIBRCODE 1 ICUE 185  
IC\_EXPIRED\_EIBRESP 1 ICUE 185  
IC\_FORAFTER\_X (BIT) ICUE 180  
IC\_FORMATTIME 1 ICUE 185  
IC\_FORMATTIME\_DATESEP\_X (BIT) ICUE 180  
IC\_FORMATTIME\_DAYOFWEEK\_X (BIT) ICUE 180  
IC\_FORMATTIME\_DDMYYYY\_X (BIT) ICUE 180  
IC\_FORMATTIME\_TIME\_X (BIT) ICUE 180  
IC\_FORMATTIME\_TIMESEP\_X (BIT) ICUE 180  
IC\_FORMATTIME\_YYYYDDMM\_X (BIT) ICUE 180  
IC\_FORMATTIME\_ABSTIME (0) ICUE 181  
IC\_FORMATTIME\_ABSTIME\_X (BIT) ICUE 179  
IC\_FORMATTIME\_DATE (0) ICUE 182  
IC\_FORMATTIME\_DATE\_X (BIT) ICUE 179  
IC\_FORMATTIME\_DATEFORM (0) ICUE 182  
IC\_FORMATTIME\_DATEFORM\_X (BIT) ICUE 180  
IC\_FORMATTIME\_DATESEP (0) ICUE 183  
IC\_FORMATTIME\_DATESEP\_V (BIT) ICUE 178  
IC\_FORMATTIME\_DAYCOUNT (0) ICUE 183  
IC\_FORMATTIME\_DAYCOUNT\_X (BIT) ICUE 180  
IC\_FORMATTIME\_DAYOFMONTH (0) ICUE 183  
IC\_FORMATTIME\_DAYOFMONTH\_X (BIT) ICUE 180  
IC\_FORMATTIME\_DAYOFWEEK (0) ICUE 183  
IC\_FORMATTIME\_DDMYY (0) ICUE 182  
IC\_FORMATTIME\_DDMYY\_X (BIT) ICUE 179  
IC\_FORMATTIME\_DDMYYYY (0) ICUE 184  
IC\_FORMATTIME\_FULLDATE (0) ICUE 185  
IC\_FORMATTIME\_FULLDATE\_X (BIT) ICUE 180  
IC\_FORMATTIME\_MMDDYY (0) ICUE 182  
IC\_FORMATTIME\_MMDDYY\_X (BIT) ICUE 179  
IC\_FORMATTIME\_MMDDYYYY (0) ICUE 184  
IC\_FORMATTIME\_MMDDYYYY\_X (BIT) ICUE 180  
IC\_FORMATTIME\_MONTHOFYEAR (0) ICUE 183  
IC\_FORMATTIME\_MONTHOFYEAR\_X (BIT) ICUE 180  
IC\_FORMATTIME\_TIME (0) ICUE 184  
IC\_FORMATTIME\_TIMESEP (0) ICUE 184  
IC\_FORMATTIME\_TIMESEP\_V (BIT) ICUE 179  
IC\_FORMATTIME\_YEAR (0) ICUE 183  
IC\_FORMATTIME\_YEAR\_X (BIT) ICUE 180  
IC\_FORMATTIME\_YYDDD (0) ICUE 181  
IC\_FORMATTIME\_YYDDD\_X (BIT) ICUE 179  
IC\_FORMATTIME\_YYDDMM (0) ICUE 182  
IC\_FORMATTIME\_YYDDMM\_X (BIT) ICUE 179  
IC\_FORMATTIME\_YYMMDD (0) ICUE 182  
IC\_FORMATTIME\_YYMMDD\_X (BIT) ICUE 179  
IC\_FORMATTIME\_YYYYDDD (0) ICUE 184  
IC\_FORMATTIME\_YYYYDDD\_X (BIT) ICUE 180  
IC\_FORMATTIME\_YYYYDDMM (0) ICUE 184  
IC\_FORMATTIME\_YYYYMMDD (0) ICUE 184  
IC\_FORMATTIME\_YYYYMMDD\_X (BIT) ICUE 180  
IC\_FUNCT (1) ICUE 177  
IC\_GROUP (0) ICUE 177  
IC\_HOURS (0) ICUE 183  
IC\_HOURS\_V (BIT) ICUE 179  
IC\_INTERVAL (0) ICUE 181  
IC\_INTERVAL\_GROUP 1 ICUE 185  
IC\_INVHRS\_EIBRESP2 1 ICUE 186  
IC\_INVMINS\_EIBRESP2 1 ICUE 186  
IC\_INVREQ\_EIBRCODE 1 ICUE 185  
IC\_INVREQ\_EIBRESP 1 ICUE 185  
IC\_INVSECS\_EIBRESP2 1 ICUE 186  
IC\_IOERR\_EIBRCODE 1 ICUE 185  
IC\_IOERR\_EIBRESP 1 ICUE 185  
IC\_ISCINVREQ\_EIBRCODE 1 ICUE 185  
IC\_ISCINVREQ\_EIBRESP 1 ICUE 185  
IC\_LENGERR\_EIBRCODE 1 ICUE 185

IC\_LENGERR\_EIBRESP 1 ICUE 185  
IC\_MINUTES (0) ICUE 183  
IC\_MINUTES\_V (BIT) ICUE 179  
IC\_NO\_BREXIT\_EIBRESP2 1 ICUE 186  
IC\_NOEDF (BIT) ICUE 179  
IC\_NOHANDLE (BIT) ICUE 179  
IC\_NOT\_AUTH\_BREXIT\_EIBRESP2 1 ICUE 186  
IC\_NOTAUTH\_EIBRCODE 1 ICUE 185  
IC\_NOTAUTH\_EIBRESP 1 ICUE 186  
IC\_NOTAUTH\_EIBRESP2 1 ICUE 186  
IC\_NOTFND\_EIBRCODE 1 ICUE 185  
IC\_NOTFND\_EIBRESP 1 ICUE 185  
IC\_OK\_EIBRCODE 1 ICUE 185  
IC\_OK\_EIBRESP 1 ICUE 185  
IC\_OK\_EIBRESP2 1 ICUE 186  
IC\_PGMIDERR\_EIBRCODE 1 ICUE 185  
IC\_PGMIDERR\_EIBRESP 1 ICUE 185  
IC\_POST 1 ICUE 185  
IC\_POST\_AFTER\_X (BIT) ICUE 180  
IC\_POST\_AT\_X (BIT) ICUE 180  
IC\_POST\_HOURS (0) ICUE 183  
IC\_POST\_HOURS\_V (BIT) ICUE 179  
IC\_POST\_INTERVAL (0) ICUE 181  
IC\_POST\_MINUTES (0) ICUE 183  
IC\_POST\_MINUTES\_V (BIT) ICUE 179  
IC\_POST\_REQID (0) ICUE 181  
IC\_POST\_REQID\_V (BIT) ICUE 177  
IC\_POST\_REQID\_X (BIT) ICUE 180  
IC\_POST\_SECONDS (0) ICUE 183  
IC\_POST\_SECONDS\_V (BIT) ICUE 179  
IC\_POST\_SET (0) ICUE 182  
IC\_POST\_SET\_V (BIT) ICUE 178  
IC\_POST\_TIME (0) ICUE 181  
IC\_POST\_TIME\_INTERVAL\_V (BIT) ICUE 177  
IC\_POST\_TIME\_X (BIT) ICUE 180  
IC\_QUEUE (0) ICUE 183  
IC\_QUEUE\_V (BIT) ICUE 178  
IC\_REMOTE\_ATTACH\_EIBRESP2 1 ICUE 186  
IC\_REQID (0) ICUE 181  
IC\_REQID\_V (BIT) ICUE 177  
IC\_RETRIEVE 1 ICUE 185  
IC\_RETRIEVE\_INT0 (0) ICUE 181  
IC\_RETRIEVE\_LENGTH (0) ICUE 181  
IC\_RETRIEVE\_LENGTH\_V (BIT) ICUE 178  
IC\_RETRIEVE\_QUEUE (0) ICUE 183  
IC\_RETRIEVE\_QUEUE\_V (BIT) ICUE 178  
IC\_RETRIEVE\_RTERMID (0) ICUE 183  
IC\_RETRIEVE\_RTERMID\_V (BIT) ICUE 178  
IC\_RETRIEVE\_RTRANSID (0) ICUE 182  
IC\_RETRIEVE\_RTRANSID\_V (BIT) ICUE 178  
IC\_RETRIEVE\_SET (0) ICUE 181  
IC\_RETRIEVE\_SET\_INT0\_V (BIT) ICUE 177  
IC\_RETRIEVE\_SET\_X (BIT) ICUE 180  
IC\_RETRIEVE\_WAIT\_X (BIT) ICUE 180  
IC\_ROUTER\_REJECTED\_EIBRESP2 1 ICUE 186  
IC\_RTERMID (0) ICUE 183  
IC\_RTERMID\_V (BIT) ICUE 178  
IC\_RTRANSID (0) ICUE 182  
IC\_RTRANSID\_V (BIT) ICUE 178  
IC\_SECONDS (0) ICUE 183  
IC\_SECONDS\_V (BIT) ICUE 179  
IC\_SECURITY\_INACTIVE\_EIBRESP2 1 ICUE 186  
IC\_START 1 ICUE 185  
IC\_START\_AFTER\_X (BIT) ICUE 180  
IC\_START\_AT\_X (BIT) ICUE 180  
IC\_START\_ATTACH\_X (BIT) ICUE 180  
IC\_START\_BRDATA (0) ICUE 185  
IC\_START\_BRDATA\_X (BIT) ICUE 180  
IC\_START\_BRDATALENGTH (0) ICUE 185  
IC\_START\_BRDATALENGTH\_X (BIT) ICUE 180  
IC\_START\_BREXIT (0) ICUE 184  
IC\_START\_BREXIT\_V (BIT) ICUE 179  
IC\_START\_BREXIT\_X (BIT) ICUE 180  
IC\_START\_DATA\_X (BIT) ICUE 180  
IC\_START\_FMH\_X (BIT) ICUE 180  
IC\_START\_FROM (0) ICUE 182  
IC\_START\_FROM\_V (BIT) ICUE 178  
IC\_START\_HEADER\_X (BIT) ICUE 180  
IC\_START\_HOURS (0) ICUE 183  
IC\_START\_HOURS\_V (BIT) ICUE 179  
IC\_START\_INTERVAL (0) ICUE 181  
IC\_START\_LENGTH (0) ICUE 182  
IC\_START\_LENGTH\_V (BIT) ICUE 178

IC\_START\_MINUTES (0) ICUE 183  
IC\_START\_MINUTES\_V (BIT) ICUE 179  
IC\_START\_NOCHECK\_X (BIT) ICUE 180  
IC\_START\_PROTECT\_X (BIT) ICUE 180  
IC\_START\_QUEUE (0) ICUE 183  
IC\_START\_QUEUE\_V (BIT) ICUE 178  
IC\_START\_REQID (0) ICUE 181  
IC\_START\_REQID\_V (BIT) ICUE 177  
IC\_START\_REQID\_X (BIT) ICUE 180  
IC\_START\_ROUTABLE (BIT) ICUE 180  
IC\_START\_RTERMID (0) ICUE 183  
IC\_START\_RTERMID\_V (BIT) ICUE 178  
IC\_START\_RTRANSID (0) ICUE 182  
IC\_START\_RTRANSID\_V (BIT) ICUE 178  
IC\_START\_SECONDS (0) ICUE 183  
IC\_START\_SECONDS\_V (BIT) ICUE 179  
IC\_START\_SYSID (0) ICUE 182  
IC\_START\_SYSID\_V (BIT) ICUE 178  
IC\_START\_SYSNET (0) ICUE 184  
IC\_START\_SYSNET\_V (BIT) ICUE 179  
IC\_START\_TERMID (0) ICUE 182  
IC\_START\_TERMID\_V (BIT) ICUE 178  
IC\_START\_TERMID\_X (BIT) ICUE 180  
IC\_START\_TIME (0) ICUE 181  
IC\_START\_TIME\_INTERVAL\_V (BIT) ICUE 177  
IC\_START\_TIME\_X (BIT) ICUE 180  
IC\_START\_TRANSID (0) ICUE 182  
IC\_START\_TRANSID\_V (BIT) ICUE 178  
IC\_START\_USERID (0) ICUE 183  
IC\_START\_USERID\_V (BIT) ICUE 179  
IC\_SURROGATE\_FAILURE\_EIBRESP2 1 ICUE 186  
IC\_SYSEIB (BIT) ICUE 179  
IC\_SYSID (0) ICUE 182  
IC\_SYSID\_V (BIT) ICUE 178  
IC\_SYSIDERR\_EIBRCODE 1 ICUE 185  
IC\_SYSIDERR\_EIBRESP 1 ICUE 185  
IC\_TIME (0) ICUE 181  
IC\_TIME\_INTERVAL\_V (BIT) ICUE 177  
IC\_TRANSID (0) ICUE 182  
IC\_TRANSID\_DISABLED\_EIBRESP2 1 ICUE 186  
IC\_TRANSID\_NOT\_FOUND\_EIBRESP2 1 ICUE 186  
IC\_TRANSID\_SHUTDOWN\_EIBRESP2 1 ICUE 186  
IC\_TRANSID\_SYSTEM\_EIBRESP2 1 ICUE 186  
IC\_TRANSID\_V (BIT) ICUE 178  
IC\_TRANSIDERR\_EIBRCODE 1 ICUE 185  
IC\_TRANSIDERR\_EIBRESP 1 ICUE 185  
IC\_USERID\_NOT\_DEFINED\_EIBRESP2 1 ICUE 186  
IC\_USERID\_NOT\_DETERMINED\_EIBRESP2 1 ICUE 186  
IC\_USERIDERR\_EIBRCODE 1 ICUE 185  
IC\_USERIDERR\_EIBRESP 1 ICUE 185  
ICE 172  
ICE\_BEING\_PROCESSED (BIT) ICE 172  
ICE\_CREATION\_TIME 173  
ICE\_DATA\_RECOVERABLE (BIT) ICE 173  
ICE\_EXPIRY\_DATE (88) ICE 173  
ICE\_EXPIRY\_DT (88) ICE 173  
ICE\_EXPIRY\_STCK (88) ICE 173  
ICE\_EXPIRY\_TIME (8C) ICE 173  
ICE\_EXPIRY\_TIMES (88) ICE 173  
ICE\_GW\_DATA 1 ICE 173  
ICE\_GW\_SHUTDOWN 1 ICE 173  
ICE\_PROTECTED (BIT) ICE 173  
ICE\_QUALIFIED\_EXPIRY\_TIME (88) ICE 173  
ICE\_ROUTER\_COMM\_ADDR (B4) ICE 173  
ICE\_ROUTER\_COMM\_LEN (B8) ICE 173  
ICE\_START\_DATA\_LEN (94) ICE 173  
ICE\_TERMINAL\_NETNAME 173  
ICE\_TOR\_NETNAME (AC) ICE 173  
ICE\_UNIQUE\_ID (30) ICE 172  
ICE\_USER\_TOKEN 173  
ICE\_ZERO\_INTERVAL (BIT) ICE 173  
ICEAD 4 ICE 173  
ICEBLKID (2) ICE 172  
ICEBLKNM (8) ICE 172  
ICEBODY (10) ICE 172  
ICECHNAD (10) ICE 172  
ICECURTR (54) ICE 173  
ICEDFTRN (BA) ICE 173  
ICEDSRP (BE) ICE 173  
ICEDYNTR (BIT) ICE 173  
ICEFLAG2 (4F) ICE 173  
ICEFLAGS (4E) ICE 173  
ICEFLATU (58) ICE 173  
ICEFLATX (BIT) ICE 173  
ICEFSS (4D) ICE 172  
ICEINT 1 ICE 173  
ICELEN (0) ICE 172  
ICEMODEN (44) ICE 172  
ICENETSY (3C) ICE 172  
ICEPRFX (0) ICE 172  
ICEPST 1 ICE 173  
ICEPUT 1 ICE 173  
ICERQCLS (2F) ICE 172  
ICERQID (34) ICE 172  
ICERTST (BIT) ICE 173  
ICESECSF (20) ICE 172  
ICESHSYS (A8) ICE 173  
ICESTATI (2E) ICE 172  
ICESTCHN 172  
ICESTCNL (BIT) ICE 172  
ICESTNRL (BIT) ICE 172  
ICESTRES (BIT) ICE 172  
ICESTXTE (BIT) ICE 172  
ICESTXTM (BIT) ICE 172  
ICESZ (BIT) ICE 173  
ICETCAAD (18) ICE 172  
ICETEGAA (14) ICE 172  
ICETIMST (90) ICE 173  
ICETR (4C) ICE 172  
ICETRMID (18) ICE 172  
ICETRNID (1C) ICE 172  
ICETYPE 172  
ICEUSIDL (20) ICE 172  
ICEUSRID (21) ICE 172  
ICEUSSSET (BIT) ICE 173  
ICEUSSYS (BIT) ICE 173  
ICEWTM 1 ICE 173  
ICEXTOD (30) ICE 172  
ICUE 174  
ID\_STATS\_UNAVAILABLE 1 APSTG 10  
identifier  
    module identifier, VMID 502  
identifiers  
    function and module identifiers, FMI 166  
    statistics record identifiers, STI 331  
IFGLUWID (0) FRABC 169  
IFGYSYNSM (0) FCS 144  
IMSDS 186  
IN (0) ZCCPS 579  
INDEX 557  
INDEX\_AREA (0) DCR 66  
information  
    user exit file and dataset information, UEFD 471  
INITCPTR (0) SIT 302  
INITIAL DDS 92  
initialisation  
    system initialisation program, SIP 290  
    system initialisation table, SIT 292  
initiate  
    automatic initiate descriptor, AID 6  
initiation  
    XRF takeover initiation argument block, WTA 547  
INITPGMID (4) SIT 302  
INITPSLEN (C) SIT 302  
INITPSTRG (D) SIT 302  
inline  
    recovery manager domain inline access, RMUXC 279  
input  
    transient data input area, TDIA 422  
input/output  
    file input/output area, FIOA 152  
    temporary storage input/output area, TSIOA 461  
    terminal input/output area, TIOA 435  
install  
    remote install work element, TCRWE 358  
INSTANCE\_USE\_COUNT (14) DCR 68  
INT\_DATA (0) DCR 68  
INT\_PSW (0) DCR 68  
INT\_REGS (10) DCR 68  
interchange  
    data interchange block, DIB 78  
interface  
    command level interface dsects, EIPDS 118  
    document handler template exitpgm interface, DHTX 77  
    EXEC interface block, EIB 112

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interface (*continued*)  
 EXEC interface communications area, EIC 113  
 EXEC interface dynamic storage, EISTG 125  
 EXEC interface structure, EIS 122  
 EXEC interface user structure, EIUS 125  
 SRB interface mapping, SRA 325  
 system spooling interface, PSG 273  
 task interface element, TIE 432  
 web interface analyzer parms, WBTDC 510  
 web interface converter parms, WBCDC 505  
 web interface template manager, WBTLC 514  
 XRF dispatcher interface, WDI 519  
 XRF internal interface block, WMI 524  
 XRF trace interface, WTR 551

internal  
 XRF internal interface block, WMI 524

interregion  
 interregion control blocks, IRC 187  
 interregion session recovery, IRRDS 193

interval  
 interval control element, ICE 172  
 interval control EXEC parameter list, ICUE 174

intervals  
 transient data control intervals, TDCI 421

INVREQ 1 TMRQ 440  
 IRC 187  
 IRC\_BIND\_STATE (0) TCTTE 392  
 IRC\_CONV\_CORRELATOR (0) TCTTE 392  
 IRCNT (0) IRRDS 193  
 IRCNT\_DATA (4) IRRDS 194  
 IRCNT\_FLAG (2) IRRDS 194  
 IRCNT\_JOBID (BIT) IRRDS 194  
 IRCNT\_LTH (0) IRRDS 194  
 IRCNT\_MORE (BIT) IRRDS 194  
 IRCNT\_TYPE (2) IRRDS 194  
 IRCNT\_XLN (BIT) IRRDS 194  
 IRERQ 193  
 IRERQAUT 1 IRC 192  
 IRERQDNM 1 IRC 193  
 IRERQEXC 1 IRC 193  
 IRERQFAU 1 IRC 192  
 IRERQGXW 1 IRC 192  
 IRERQJSB 1 IRC 192  
 IRERQLCC 1 IRC 192  
 IRERQLCD 1 IRC 192  
 IRERQLCV 1 IRC 192  
 IRERQLCX 1 IRC 192  
 IRERQPHB 1 IRC 192  
 IRERQPNU 1 IRC 193  
 IRERQSW 1 IRC 192  
 IRERQRTT 1 IRC 192  
 IRERQRXW 1 IRC 192  
 IRERQSCA 1 IRC 192  
 IRERQSCC 1 IRC 192  
 IRERQSCW 1 IRC 192  
 IRERQSDW 1 IRC 192  
 IRERQSLC 1 IRC 192  
 IRERQSRW 1 IRC 192  
 IRERQVFW 1 IRC 192  
 IRERQXTT 1 IRC 192  
 IRERRABN 2 IRC 193  
 IRERRAUT 2 IRC 191  
 IRERRAX 2 IRC 192  
 IRERRCAT 2 IRC 192  
 IRERRCCP 2 IRC 192  
 IRERRCCR 2 IRC 192  
 IRERRCCS 2 IRC 192  
 IRERRCFT 2 IRC 191  
 IRERRCSB 2 IRC 192  
 IRERRDPL 2 IRC 192  
 IRERRDSC 2 IRC 192  
 IRERRENV 2 IRC 192  
 IRERRGM1 2 IRC 192  
 IRERRGM2 2 IRC 192  
 IRERRGM3 2 IRC 192  
 IRERRGM4 2 IRC 192  
 IRERRGM5 2 IRC 192  
 IRERRGM7 2 IRC 192  
 IRERRGM8 2 IRC 192  
 IRERRGM9 2 IRC 192  
 IRERRGMA 2 IRC 192  
 IRERRGMD 2 IRC 192  
 IRERRGMX 2 IRC 192

IRERRIA0 2 IRC 193  
 IRERRIA1 2 IRC 193  
 IRERRIA2 2 IRC 193  
 IRERRIA3 2 IRC 193  
 IRERRIDL 2 IRC 192  
 IRERRILE 2 IRC 193  
 IRERRINE 2 IRC 191  
 IRERRINF 2 IRC 191  
 IRERRIQP 2 IRC 192  
 IRERRIQS 2 IRC 192  
 IRERRKEY 2 IRC 191  
 IRERRLCL 2 IRC 193  
 IRERRLGN 2 IRC 191  
 IRERRLIQ 2 IRC 192  
 IRERRLNC 2 IRC 192  
 IRERRLVE 2 IRC 191  
 IRERRMPD 2 IRC 192  
 IRERRMTM 2 IRC 193  
 IRERRMXL 2 IRC 192  
 IRERRNCT 2 IRC 192  
 IRERRNDP 2 IRC 192  
 IRERRNFL 2 IRC 191  
 IRERRNLG 2 IRC 192  
 IRERRNOS 2 IRC 191  
 IRERRNPP 2 IRC 192  
 IRERRNSK 2 IRC 192  
 IRERRNSP 2 IRC 192  
 IRERRNSS 2 IRC 192  
 IRERRNSW 2 IRC 192  
 IRERRPL1 2 IRC 192  
 IRERRPL2 2 IRC 192  
 IRERRPST 2 IRC 192  
 IRERRRSM 2 IRC 193  
 IRERRSCF 2 IRC 192  
 IRERRSCH 2 IRC 192  
 IRERRSCV 2 IRC 193  
 IRERRSIZ 2 IRC 193  
 IRERRSN 193  
 IRERRSP 2 IRC 192  
 IRERRSWI 2 IRC 192  
 IRERRTHD 2 IRC 191  
 IRERRTHN 2 IRC 191  
 IRERRTKN 2 IRC 193  
 IRERRTSW 2 IRC 193  
 IRERRUID 2 IRC 191  
 IRERRUKS 2 IRC 192  
 IRERRUNM 2 IRC 191  
 IRERRWEF 2 IRC 192  
 IRERRWEL 2 IRC 192  
 IRERRWEN 2 IRC 192  
 IRERRXCQ 2 IRC 193  
 IRERRXME 2 IRC 192  
 IRFLBREJ (BIT) IRRDS 193  
 IRFLBSND (BIT) IRRDS 193  
 IRFLCONT (BIT) IRRDS 193  
 IRFLFACC (BIT) IRRDS 193  
 IRFLFCTK (BIT) IRRDS 193  
 IRFLG1 (0) IRRDS 193  
 IRFLG2 (1) IRRDS 193  
 IRFLGFX (BIT) IRRDS 193  
 IRFLGS (0) IRRDS 193  
 IRFLRSYN (BIT) IRRDS 193  
 IRFLRTST (BIT) IRRDS 193  
 IRFRRS (BIT) IRRDS 193  
 IRLN (BIT) IRRDS 193  
 IRLINO (12) IRRDS 193  
 IRLONO (10) IRRDS 193  
 IRNXTHRD 1 IRC 191  
 IRRDS 193  
 IRRELNO 193  
 IRRNAM (C) IRRDS 193  
 IRRSTR (0) IRRDS 193  
 IRSNAM (8) IRRDS 193  
 IRSVCADS (0) IRC 189  
 IRSVCFDS (0) IRC 189  
 IRVCAARG (0) IRC 189  
 IRVCALCL (14) IRC 190  
 IRVCALST (C) IRC 189  
 IRVCALVL 190  
 IRVCANM 190  
 IRVCATOK (10) IRC 190  
 IRVCCNSC (10) IRC 190  
 IRVCCNTO 190

IRVCEND (18) IRC 189  
 IRVCEOAS 190  
 IRVCEOSC (14) IRC 190  
 IRVCEOTA 190  
 IRVCEQAD 1 IRC 191  
 IRVCEQCK 1 IRC 191  
 IRVCEQCL 1 IRC 191  
 IRVCEQCM 1 IRC 191  
 IRVCEQCN 1 IRC 191  
 IRVCEQDA 1 IRC 191  
 IRVCEQDC 1 IRC 191  
 IRVCEQDF 1 IRC 191  
 IRVCEQDN 1 IRC 191  
 IRVCEQEC 1 IRC 191  
 IRVCEQEM 1 IRC 191  
 IRVCEQEO 1 IRC 191  
 IRVCEQET 1 IRC 191  
 IRVCEQIN 1 IRC 191  
 IRVCEQLF 1 IRC 191  
 IRVCEQLG 1 IRC 191  
 IRVCEQMX 1 IRC 191  
 IRVCEQPL 1 IRC 191  
 IRVCEQPR 1 IRC 191  
 IRVCEQQI 1 IRC 191  
 IRVCEQQN 1 IRC 191  
 IRVCEQQU 1 IRC 191  
 IRVCEQRA 1 IRC 191  
 IRVCEQRC 1 IRC 191  
 IRVCEQRL 1 IRC 191  
 IRVCEQRP 1 IRC 191  
 IRVCEQSF 1 IRC 191  
 IRVCEQSS 1 IRC 191  
 IRVCEQSW 1 IRC 191  
 IRVCINTO 190  
 IRVCLDOK (BIT) IRC 189  
 IRVCLELT (BIT) IRC 189  
 IRVCLEN (0) IRC 189  
 IRVCLEXM (BIT) IRC 189  
 IRVCLGBT (BIT) IRC 189  
 IRVCLGBV (A) IRC 189  
 IRVCLGBX (BIT) IRC 189  
 IRVCLGEX (18) IRC 189  
 IRVCLGF1 (8) IRC 189  
 IRVCLGF2 189  
 IRVCLGFL (8) IRC 189  
 IRVCLGGM (B) IRC 189  
 IRVCLGIM 189  
 IRVCLGLT (1C) IRC 189  
 IRVCLGMU (14) IRC 189  
 IRVCLGSL (10) IRC 189  
 IRVCLGSP (BIT) IRC 189  
 IRVCLODS 190  
 IRVCLSV (BIT) IRC 189  
 IRVCLVL1 4 IRC 191  
 IRVCLVL2 4 IRC 191  
 IRVCMAXM 4 IRC 191  
 IRVCQUTO 190  
 IRVCRCRS (10) IRC 190  
 IRVCRCSA (14) IRC 190  
 IRVCSTYP (2) IRC 189  
 IRVCSWPM 190  
 IRVCTHID (8) IRC 189  
 IRVCTYP (1) IRC 189  
 IRVCUSID (4) IRC 189  
 IRXMTHRD 1 IRC 191  
 ISC

ISC LUIT & sna management statistics, A21 26  
 ISC/IRC

ISC/IRC mode entry statistics, A20 25

ISC/IRC statistics, A14 20

ISMDESC (2C) IMSDS 186  
 ISMEND (BIT) IMSDS 187  
 ISMISTM (34) IMSDS 186  
 ISMKP (34) IMSDS 187  
 ISMKPL (BIT) IMSDS 187  
 ISMLN (BIT) IMSDS 187  
 ISMMODID (63) IMSDS 186  
 ISMMSGNO 186  
 ISMOPID (4C) IMSDS 186  
 ISMOPTM (46) IMSDS 186  
 ISMRSYS (3A) IMSDS 186  
 ISMTIME (58) IMSDS 186  
 ISMTKNO (51) IMSDS 186

ISMTRAN (40) IMSDS 186  
 ISMUOWID (67) IMSDS 186  
 ISMUWC1 (7A) IMSDS 187  
 ISMUWC2 (89) IMSDS 187  
 ISMUWLEN (67) IMSDS 186  
 ISMUWLUN (69) IMSDS 186  
 ISMUWSEQ (8B) IMSDS 187  
 ISMUWTKN (7D) IMSDS 187

## J

J (58) XCTRC 556  
 JCA 194  
 JCAADATA (C) JCA 194  
 JCAAPREFX (10) JCA 194  
 JCADOMID (29) JCA 194  
 JCAEYE (2) JCA 194  
 JCAFLEN (18) JCA 194  
 JCAFTOK (14) JCA 194  
 JCAJCRC (B) JCA 194  
 JCAJFID (20) JCA 194  
 JCAJNAME (21) JCA 194  
 JCAJNMAX 1 JCA 195  
 JCAJNUM (1E) JCA 194  
 JCAJRTID (2C) JCA 194  
 JCALDATA 194  
 JCALEN (0) JCA 194  
 JCALPRFX (1C) JCA 194  
 JCAMODFN (2C) JCA 194  
 JCARCCR 1 JCA 195  
 JCARCEOF 1 JCA 195  
 JCARCIDE 1 JCA 195  
 JCARCIOE 1 JCA 195  
 JCARCIRE 1 JCA 195  
 JCARCLE 1 JCA 195  
 JCARCNOE 1 JCA 195  
 JCARCNR 1 JCA 195  
 JCARCSE 1 JCA 195  
 JCASVMID (2D) JCA 194  
 JCATR1 (A) JCA 194  
 JCATR2 (9) JCA 194  
 JCATR3 (8) JCA 194  
 JCATRANY 1 JCA 195  
 JCATRRCR 1 JCA 195  
 JCATRIN 1 JCA 195  
 JCATRL 1 JCA 195  
 JCATROUT 1 JCA 195  
 JCATRPFX 1 JCA 195  
 JCATRPUT 1 JCA 195  
 JCATRSIO 1 JCA 195  
 JCATRW 1 JCA 195  
 JCATRWR 1 JCA 195  
 JCAUPTC (2C) JCA 194  
 JCAUPTID (32) JCA 194  
 JCAVSPIN (2E) JCA 194  
 JCAVSPON (30) JCA 194  
 JOBNAM2 414  
 journal  
 journal control area, JCA 194  
 log manager journal statistics, LGRDS 209

## K

KCS 195  
 KCSCPECB (4) KCS 195  
 KCSCPPST (BIT) KCS 195  
 KCSFLAGS (8) KCS 195  
 KCSNQPAD (10) KCS 195  
 KCSNQPCH (C) KCS 195  
 KCSOBECB (0) KCS 195  
 KCSOBPST (BIT) KCS 195  
 KCSREASN (A) KCS 195  
 KCSRSTIN (BIT) KCS 195  
 KCSRSTRC (9) KCS 195  
 KCSTLEN (14) KCS 195  
 KE2BIT (BIT) EICD1 116  
 KEADIM (BIT) EICD1 115  
 KEARGFI (BIT) EICD1 115  
 KEARGMAN (BIT) EICD1 116  
 KEARGNU (BIT) EICD1 115  
 KEARGOM (BIT) EICD1 115  
 KEARGSH (BIT) EICD1 115



KEARGSYN (BIT) EICD1 115  
 KEBITS (D) EICD1 115  
 KECOMM (BIT) EICD1 115  
 KECONST (BIT) EICD1 115  
 KEDEFT (BIT) EICD1 115  
 KEDTYP (11) EICD1 115  
 KEDTYPL (12) EICD1 116  
 KEDUMMY (BIT) EICD1 116  
 KEEND (16) EICD1 116  
 KEEXPTR (18) EICD1 114  
 KEFLAGS 115  
 KEFLG1 (C) EICD1 115  
 KEFLGS (C) EICD1 116  
 KEHEX 116  
 KEID (BIT) EICD1 115  
 KEINQO (BIT) EICD1 116  
 KELIST (BIT) EICD1 116  
 KENAME (BIT) EICD1 115  
 KENARG (10) EICD1 115  
 KEP (13) EICD1 116  
 KEPNUM (BIT) EICD1 115  
 KEPXPTR (28) EICD1 114  
 KEQUIV (BIT) EICD1 115  
 KEREFL (BIT) EICD1 115  
 KERELSYN (BIT) EICD1 115  
 KEREPEAT (BIT) EICD1 115  
 kernel  
   kernel error data, KERRD 196  
 KERNEL\_ERROR\_ABEND 1 KERRD 198  
 KERNEL\_ERROR\_ABEND\_PERCOLATE 1 KERRD 198  
 KERNEL\_ERROR\_ABEND\_REQUESTED 1 KERRD 198  
 KERNEL\_ERROR\_ADDRESS (18) KERRD 197  
 KERNEL\_ERROR\_ALET (1A0) KERRD 198  
 KERNEL\_ERROR\_CICS\_RB 0 KERRD 198  
 KERNEL\_ERROR\_CICS\_RB\_NOT\_ACTIVE (BIT) KERRD 196  
 KERNEL\_ERROR\_CODE (0) KERRD 196  
 KERNEL\_ERROR\_DATA (0) KERRD 196  
 KERNEL\_ERROR\_DEFERRED\_ABEND 1 KERRD 198  
 KERNEL\_ERROR\_DUMP\_REQUESTED (BIT) KERRD 196  
 KERNEL\_ERROR\_EXECUTING\_RB (BIT) KERRD 196  
 KERNEL\_ERROR\_FLAGS (9) KERRD 196  
 KERNEL\_ERROR\_FP\_REG\_0 (178) KERRD 198  
 KERNEL\_ERROR\_FP\_REG\_2 (180) KERRD 198  
 KERNEL\_ERROR\_FP\_REG\_4 (188) KERRD 198  
 KERNEL\_ERROR\_FP\_REG\_6 (190) KERRD 198  
 KERNEL\_ERROR\_FP\_REGS (178) KERRD 198  
 KERNEL\_ERROR\_IN\_SUBSPACE (BIT) KERRD 198  
 KERNEL\_ERROR\_IRB (BIT) KERRD 196  
 KERNEL\_ERROR\_KERNERROR 1 KERRD 198  
 KERNEL\_ERROR\_LINKAGE 1 KERRD 198  
 KERNEL\_ERROR\_NUMBER (28) KERRD 197  
 KERNEL\_ERROR\_OFFSET (E) KERRD 197  
 KERNEL\_ERROR\_PERCOLATE 1 KERRD 198  
 KERNEL\_ERROR\_PROGRAM (10) KERRD 197  
 KERNEL\_ERROR\_PROGRAM\_CHECK 1 KERRD 198  
 KERNEL\_ERROR\_REASON (2C) KERRD 197  
 KERNEL\_ERROR\_REASON\_PRESENT 197  
 KERNEL\_ERROR\_REQUESTED 1 KERRD 198  
 KERNEL\_ERROR\_RUNAWAY 1 KERRD 198  
 KERNEL\_ERROR\_RUNNING\_CANCEL 1 KERRD 198  
 KERNEL\_ERROR\_SRB\_MODE (BIT) KERRD 196  
 KERNEL\_ERROR\_STOKEN (198) KERRD 198  
 KERNEL\_ERROR\_SUBSPACE\_FLAGS (1A4) KERRD 198  
 KERNEL\_ERROR\_SYSTEM\_INT 197  
 KERNEL\_ERROR\_TAS\_ADDRESS (24) KERRD 197  
 KERNEL\_ERROR\_TASROTOK (1C) KERRD 197  
 KERNEL\_ERROR\_TASTRTOK (20) KERRD 197  
 KERNEL\_ERROR\_TIMESTAMP (170) KERRD 198  
 KERNEL\_ERROR\_TYPE (8) KERRD 196  
 KERNEL\_ERROR\_USER\_INT (C) KERRD 197  
 KERRD 196  
 KESECD (BIT) EICD1 115  
 KESET (BIT) EICD1 115  
 KESETO (BIT) EICD1 116  
 KETIME (BIT) EICD1 115  
 KETUNOFF (BIT) EICD1 116  
 KETYPE (F) EICD1 115  
 KEUSED (BIT) EICD1 115  
 KEYARG (3) EICD1 117  
 KEYARGL (4) EICD1 117  
 KEYARGO (0) EICD1 117  
 KEYBIT1 (1) EICD1 117  
 KEYBIT2 (2) EICD1 117  
 KEYBITM (8) EICD1 118  
 KEYCODE (0) EICD1 117  
 KEYDATAD (E) EICD1 118  
 KEYDTC (0) EICD1 118  
 KEYDTYP (5) EICD1 117  
 KEYEND1 (6) EICD1 117  
 KEYEND2 (F) EICD1 117  
 KEYENDD (18) EICD1 118  
 KEYENDO (C) EICD1 118  
 KEYITEM (0) EICD1 117  
 KEYITEMO (0) EICD1 117  
 KEYNUMD (0) EICD1 118  
 keypoint  
   keypoint list element, KPLEC 199  
 KEYSAVED (2) EICD1 118  
 KEYWORD (0) EICD1 115  
 KEYWORD1 (0) EICD1 116  
 KEYWORDA (0) EICD1 115  
 KEYWORDD (2) EICD1 118  
 KEYWORDO (4) EICD1 118  
 KEYXPTR (8) EICD1 117  
 KKKXPTR (70) EICD1 114  
 KPLE (0) KPLEC 199  
 KPLE\_END\_WRITE\_DAY (C) KPLEC 199  
 KPLE\_END\_WRITE\_PACKED (C) KPLEC 199  
 KPLE\_END\_WRITE\_TIME (10) KPLEC 199  
 KPLE\_NEXT (0) KPLEC 199  
 KPLE\_START\_WRITE\_DAY (4) KPLEC 199  
 KPLE\_START\_WRITE\_PACKED (4) KPLEC 199  
 KPLE\_START\_WRITE\_TIME (8) KPLEC 199  
 KPLEC 199  
 L  
 LA0 (64) EICD1 114  
 language  
   language definition table, EICD1 114  
   program language block, APLI 8  
 last  
   XRF/DBCTL last message sent, DBWMS 65  
 lasting  
   file lasting access block, FLABC 153  
 layout  
   file control table entry layout, FCT 145  
 LCBFAM31 (BIT) IRC 187  
 LCBFBEXL (BIT) IRC 187  
 LCBFBTCH (BIT) IRC 187  
 LCBFBTCP (BIT) IRC 187  
 LCBFDSCR (BIT) IRC 187  
 LCBFJOIN (BIT) IRC 187  
 LCBFLVIP (BIT) IRC 187  
 LCBFNWCN (BIT) IRC 187  
 LCBFQUCM (BIT) IRC 187  
 LCBFQUIM (BIT) IRC 187  
 LCBFQUIP (BIT) IRC 187  
 LCBFSPST (BIT) IRC 187  
 LCBFSWFS (BIT) IRC 187  
 LCBFUNIQ (BIT) IRC 187  
 LCBSRBSE (BIT) IRC 187  
 LCL (0) IRC 188  
 LCLFLG (14) IRC 189  
 LCLFLGCN (BIT) IRC 189  
 LCLFLGLS (BIT) IRC 189  
 LCLFLGSK (BIT) IRC 189  
 LCLFLGXM (BIT) IRC 189  
 LCLLENG 4 IRC 191  
 LCLNAME (0) IRC 189  
 LCLPRMNO (12) IRC 189  
 LCLSECNO (10) IRC 189  
 LCLUSRID (8) IRC 189  
 LCWETERM (BIT) CWE 64  
 LDGCDSA (BIT) LDGDS 200  
 LDGDPSCR (C) LDGDS 200  
 LDGDPSCS (10) LDGDS 200  
 LDGDREBS (1C) LDGDS 200  
 LDGDS 200  
 LDGDSAEND (BIT) LDGDS 200  
 LDGDSAINDEX (18) LDGDS 200  
 LDGDSALEN (BIT) LDGDS 200  
 LDGDSASTAT (0) LDGDS 200  
 LDGDVERS (4) LDGDS 200  
 LDGECDSA (BIT) LDGDS 201



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LGBH\_GENERIC\_APPLID (8) LGGF 204  
 LGBH\_GLOBAL\_INFO 204  
 LGBH\_LOG\_TYPE 204  
 LGBH\_LOG\_TYPE\_GENERAL 1 LGGF 206  
 LGBH\_LOG\_TYPE\_SYSTEM 1 LGGF 206  
 LGBH\_START\_GMT (10) LGGF 204  
 LGBH\_START\_LOCAL (18) LGGF 204  
 LGGF 204  
 LGMS 207  
 LGRBUFLSH (38) LGRDS 209  
 LGRBYTES (30) LGRDS 209  
 LGRDS 209  
 LGRDSLEN (BIT) LGRDS 209  
 LGRDVERS (4) LGRDS 209  
 LGREND 209  
 LGRID (2) LGRDS 209  
 LGRIDR (BIT) LGRDS 209  
 LGRJNLNAME 209  
 LGRJTYPE (10) LGRDS 209  
 LGRJTYPEPMY (BIT) LGRDS 209  
 LGRJTYPEMVS (BIT) LGRDS 209  
 LGRJTYPEPMF (BIT) LGRDS 209  
 LGRLEN (0) LGRDS 209  
 LGRSTREAM 209  
 LGRVERS (BIT) LGRDS 209  
 LGRWRITES (2C) LGRDS 209  
 LGSADNO (BIT) LGSDS 210  
 LGSADYES (BIT) LGSDS 210  
 LGSAUTOD (70) LGSDS 210  
 LGSBRWREAD (44) LGSDS 210  
 LGSBRWSTRT (40) LGSDS 210  
 LGSBUFAPP (50) LGSDS 210  
 LGSBUFWAIT (3C) LGSDS 210  
 LGSBYTES (28) LGSDS 210  
 LGSCUFWTRS (30) LGSDS 210  
 LGSDELETES (48) LGSDS 210  
 LGSDONLY (55) LGSDS 210  
 LGSDONO (BIT) LGSDS 210  
 LGSDOYES (BIT) LGSDS 210  
 LGSDS 210  
 LGSDSLEN (BIT) LGSDS 210  
 LGSVERS (4) LGSDS 210  
 LGSEND 210  
 LGSID (2) LGSDS 210  
 LGSIDR (BIT) LGSDS 210  
 LGSLEN (0) LGSDS 210  
 LGSMAXBL (68) LGSDS 210  
 LGSFKFWTRS (34) LGSDS 210  
 LGSRETPD (6C) LGSDS 210  
 LGSRTYERRS (4C) LGSDS 210  
 LGSSSLNO (BIT) LGSDS 210  
 LGSSSLYES (BIT) LGSDS 210  
 LGSSTRNAM 210  
 LGSSTRUC 210  
 LGSYSYLG (54) LGSDS 210  
 LGSTFCWAIT (38) LGSDS 210  
 LGSVERS (BIT) LGSDS 210  
 LGSWRITES 210  
 LIFO  
 LIFO parameter list and standard DSA, LFM 202  
 XRF LIFO stack area, WXL 555  
 XRF LIFO workspace, WDL 520  
 LIFO\_INT (0) DCR 67  
 line  
 terminal abnormal condition line entry, TACLE 333  
 terminal control table line entry, TCTLE 368  
 LINE\_SEG (0) DCR 67  
 LINEOS (BIT) TEPCA 431  
 link  
 user exit program link, UEPL 498  
 list  
 cics-dbctl XRF user exit parameter list, DXUEP 105  
 command list table, CLT 50  
 enq/deq EXEC parameter list, NQUE 248  
 file control EXEC argument list, FCE 128  
 gntran stub parameter list for cegn, SNGN 319  
 goodnight transaction parameter list, SNGS 320  
 interval control EXEC parameter list, ICUE 174  
 keypoint list element, KPLEC 199  
 LIFO parameter list and standard DSA, LFM 202  
 parameter list definition, XCTRC 556  
 parameter list, LUC 211

list (continued)  
 parameter list, LUM 217  
 program control EXEC argument list, PCE 256  
 program list table entry, PLT 271  
 static storage area address list, SSA 329  
 table manager parameter list, TMRQ 439  
 TCP modules address list, ZEPD 589  
 temporary storage EXEC parameter list, TSUE 462  
 trace parameter list, TRAP 449  
 transaction list table, XLT 565  
 transient data EXEC parameter list, TDUE 426  
 user supplied route list entry, URL 501  
 XRF CAVM state manager parameter list, WSS 542  
 XRF parameter list, WS2 545  
 XRF parameter list, WS3 546  
 LLDC 211  
 LLDCCD (2) LLDC 211  
 LLDCEND (BIT) LLDC 211  
 LLDCEXT (BIT) LLDC 211  
 LLDCFLGS (0) LLDC 211  
 LLDCLEN (BIT) LLDC 211  
 LLDCMN (0) LLDC 211  
 LNAME (44) EICD1 114  
 LNGTHSAV 290  
 LOAD\_POINT (10) DCR 68  
 loader  
 loader statistics for programs, LDRDS 201  
 loader statistics, LDGDS 200  
 local  
 task local storage definition, SPI 323  
 tc local logical device code table, LLDC 211  
 zcp local userid table definition, ZLUIT 606  
 LOCAL\_USERID\_TABLE\_AREA (0) ZLUIT 606  
 LOCAL\_USERID\_TABLE\_ELEMENT (0) ZLUIT 607  
 locate  
 fast file locate, FFL 151  
 LOCATION (1D) DCR 68  
 lock  
 table manager read lock block, TMELD 438  
 log  
 file control log record format, FCLGC 135  
 general log format, LGGF 204  
 log manager journal statistics, LGRDS 209  
 log manager logstream statistics, LGSDS 210  
 SMF log format, LGMS 207  
 logical  
 system logical device code table, SLDC 309  
 tc local logical device code table, LLDC 211  
 logstream  
 log manager logstream statistics, LGSDS 210  
 LOW\_WORD (C) SNEX 317  
 LSR  
 LSR pool statistics, A08 17  
 LU  
 zcp LU services manager parameter, LUSDS 218  
 LU6.2  
 TCA extension for LU6.2, TCX 421  
 LU61\_RESYNC\_CONTROL (0) TCTTE 393  
 LU61\_SYNCPOINT\_CONTROL (0) TCTTE 393  
 LU6DBA (27) ETC 127  
 LU6DPN (29) ETC 127  
 LU6DPNX (BIT) ETC 127  
 LU6DQN (49) ETC 127  
 LU6DQNX (BIT) ETC 127  
 LU6DS (26) ETC 127  
 LU6EXIST (28) ETC 127  
 LU6MTYP (25) ETC 127  
 LU6PRN (31) ETC 127  
 LU6PRNX (BIT) ETC 127  
 LU6PTYP 127  
 LU6RDPN (39) ETC 127  
 LU6RDPNX (BIT) ETC 127  
 LU6RPRN (41) ETC 127  
 LU6RPRNX (BIT) ETC 127  
 LUC 211  
 LUCABUSE 212  
 LUCALLOC 1 LUC 216  
 LUCALUNM 214  
 LUCAMSG 214  
 LUCAMSGV (BIT) LUC 212  
 LUCAPRFV (BIT) LUC 211  
 LUCAPROF (28) LUC 213  
 LUCASTG 214

LUCASYS	213	LUCMODNM	(1C) LUC	213	
LUCASYSV	(BIT) LUC	211	LUCMODNV	212	
LUCATI	(BIT) LUC	212	LUCMSGNO	(1A) LUC	214
LUCBELOW	(BIT) LUC	212	LUCMSGNV	(BIT) LUC	212
LUCBFPTR	(1C) LUC	215	LUCNETNL	(34) LUC	213
LUCBUFR	(BIT) LUC	212	LUCNETNM	(38) LUC	213
LUCCDRCD	(C) LUC	213	LUCNETV	(BIT) LUC	212
LUCCICON	(BIT) LUC	213	LUCNOCHK	(BIT) LUC	212
LUCCIDCM	(BIT) LUC	213	LUCNOLA	(BIT) LUC	212
LUCCIERR	(BIT) LUC	213	LUCNOQ	211	
LUCCIFRE	(BIT) LUC	213	LUCNOSF	(BIT) LUC	213
LUCCINEG	(BIT) LUC	213	LUCNOSIG	(BIT) LUC	213
LUCCINSU	(BIT) LUC	213	LUCNPRFV	(BIT) LUC	211
LUCCIRBK	(BIT) LUC	213	LUCNPROF	(2C) LUC	213
LUCCIREC	(BIT) LUC	213	LUCNSYS	(18) LUC	213
LUCCISIG	(BIT) LUC	213	LUCNVIT	(BIT) LUC	212
LUCCISYN	(BIT) LUC	213	LUCOPN0	(0) LUC	211
LUCCMTD	1 LUC	216	LUCOPN1	(1) LUC	211
LUCCONF	(BIT) LUC	212	LUCOPN2	212	
LUCEINVR	1 LUC	216	LUCOPN3	(3) LUC	213
LUCELENG	1 LUC	217	LUCORG	(14) LUC	213
LUCENTAL	1 LUC	217	LUCPIP	(57) LUC	214
LUCEPCON	213	LUCPIPDA	214		
LUCEPROF	1 LUC	217	LUCPIPDL	(5C) LUC	214
LUCEPSYN	(15) LUC	214	LUCPIPI	214	
LUCERC00	1 LUC	216	LUCPREP	1 LUC	216
LUCERC01	1 LUC	216	LUCPRGSD	1 LUC	216
LUCERC02	1 LUC	216	LUCPRIV	(BIT) LUC	212
LUCERC03	1 LUC	216	LUCPRVAL	1 LUC	216
LUCERC04	1 LUC	216	LUCRBCK	1 LUC	216
LUCERC05	1 LUC	216	LUCRCOD1	(4) LUC	213
LUCERC06	1 LUC	216	LUCRCOD2	(5) LUC	213
LUCERC08	1 LUC	216	LUCRCOD3	(6) LUC	213
LUCERC0C	1 LUC	216	LUCRCOD4	(7) LUC	213
LUCERC0D	1 LUC	216	LUCRCOD5	(8) LUC	213
LUCERC10	1 LUC	216	LUCRCOD6	(9) LUC	213
LUCERC14	1 LUC	216	LUCRCODE	213	
LUCERC18	1 LUC	217	LUCRECV	1 LUC	216
LUCERC1C	1 LUC	217	LUCRERP	1 LUC	216
LUCERC20	1 LUC	217	LUCRFMH	1 LUC	216
LUCERC24	1 LUC	217	LUCRNEG	1 LUC	216
LUCERLLE	1 LUC	217	LUCRQCM	1 LUC	216
LUCERLLI	1 LUC	217	LUCRQCON	214	
LUCESYSB	1 LUC	216	LUCRQSYN	(15) LUC	214
LUCESYSI	1 LUC	216	LUCSCFGT	(BIT) LUC	216
LUCEXP	(BIT) LUC	212	LUCSCHM	(BIT) LUC	216
LUCEXTP	1 LUC	216	LUCSCNVL	(BIT) LUC	216
LUCFDATA	215	LUCSCRET	216		
LUCFDATL	(18) LUC	215	LUCSDBLK	(A) LUC	213
LUCFDBK1	(A) LUC	213	LUCSEND	1 LUC	216
LUCFDBK2	(B) LUC	213	LUCSENSE	(1C) LUC	214
LUCFGET	1 LUC	216	LUCSENSV	(BIT) LUC	212
LUCFLSH	(BIT) LUC	212	LUCSET	(BIT) LUC	212
LUCFREE	1 LUC	216	LUCSFMH	1 LUC	216
LUCFRIMP	212	LUCSPFGT	(BIT) LUC	215	
LUCFROM	212	LUCSPHM	(BIT) LUC	215	
LUCFRST	1 LUC	216	LUCSPRET	215	
LUCFTPN	(17) LUC	214	LUCSPRQD	(BIT) LUC	215
LUCFTPNL	(16) LUC	214	LUCSPVUR	(BIT) LUC	215
LUCGLUN	1 LUC	216	LUCSRDR2	(BIT) LUC	215
LUCIABN	1 LUC	216	LUCSRECV	(BIT) LUC	212
LUCIATT	1 LUC	216	LUCSRHM	(BIT) LUC	215
LUCICAL	1 LUC	216	LUCSRNVL	(BIT) LUC	215
LUCICON	1 LUC	216	LUCSRRET	215	
LUCIERR	1 LUC	216	LUCSSEND	212	
LUCIMMED	(BIT) LUC	212	LUCSYNC0	1 LUC	217
LUCIMPF	(BIT) LUC	212	LUCSYNC1	1 LUC	217
LUCISIG	1 LUC	216	LUCSYNC2	1 LUC	217
LUCISP	1 LUC	216	LUCSYSCL	213	
LUCLAST	(BIT) LUC	212	LUCTAREA	215	
LUCLISTA	(1C) LUC	215	LUCTAREL	(18) LUC	215
LUCLISTS	(20) LUC	215	LUCTDATL	(20) LUC	215
LUCLISTV	(BIT) LUC	212	LUCTSIG	1 LUC	216
LUCLLID	212	LUCTTEAL	(24) LUC	213	
LUCLMSG	(18) LUC	214	LUCTTERQ	(10) LUC	213
LUCLSDST	1 LUC	216	LUCTTPN	(17) LUC	214
LUCLSTG	4 LUC	217	LUCTTPNL	(16) LUC	214
LUCLUNAM	(68) LUC	214	LUCUNBDC	1 LUC	216
LUCLUNML	(66) LUC	214	LUCUNMP	1 LUC	217
LUCMAPD	1 LUC	217	LUCWAIT	1 LUC	216
LUCMGAL	(40) LUC	213	LUIT		
LUCMNPRF	(BIT) LUC	212	ISC LUIT & sna management statistics, A21	26	
LUCMODEN	(5E) LUC	214			

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LUIT (continued)  
 sign-on LUIT and SNT statistics, SNSTA 321  
 LUIT\_AV\_REUSE\_TIME (8) SNSTA 321  
 LUIT\_BACKWARD\_POINTER (4) ZLUIT 607  
 LUIT\_FLAGS (E) ZLUIT 607  
 LUIT\_FORWARD\_POINTER (0) ZLUIT 607  
 LUIT\_LOGICALLY\_DELETED (BIT) ZLUIT 607  
 LUIT\_PENDING\_TIME\_OUT (BIT) ZLUIT 607  
 LUIT\_TIME\_LAST\_END\_BRACKET (8) ZLUIT 607  
 LUIT\_TOTAL\_REUSES (0) SNSTA 321  
 LUIT\_TOTAL\_TIMEOUTS (4) SNSTA 321  
 LUIT\_USE\_COUNT (C) ZLUIT 607  
 LUIT\_USERID 607  
 LUIT\_USERID\_LENGTH (F) ZLUIT 607  
 LUIT\_USERID\_TEXT (10) ZLUIT 607  
 LUITA\_FLAGS (8) ZLUIT 606  
 LUITA\_HEAD\_POINTER (0) ZLUIT 606  
 LUITA\_SYSDID (4) ZLUIT 606  
 LUITA\_TIME\_OUT\_IN\_PROGRESS (BIT) ZLUIT 606  
 LUM 217  
 LUMBDID 1 LUM 218  
 LUMCDRCD (8) LUM 217  
 LUMFREE 1 LUM 218  
 LUMGDSID (C) LUM 217  
 LUMOPN0 (0) LUM 217  
 LUMOPN1 (1) LUM 217  
 LUMOPN2 (2) LUM 217  
 LUMOPN3 (3) LUM 217  
 LUMPARMS (C) LUM 217  
 LUMRECV 1 LUM 218  
 LUMRSET 1 LUM 218  
 LUMSEND 1 LUM 218  
 LUMSIGN 1 LUM 218  
 LUMTTERQ (4) LUM 217  
 LUMWAIT 1 LUM 218  
 LUS\_CONNECTION (6) LUSDS 218  
 LUS\_CURRENT\_UUID (A) LUSDS 218  
 LUS\_DCE 4 LUSDS 219  
 LUS\_DCE\_PARM\_LIST (0) LUSDS 218  
 LUS\_DCE\_TICKET 1 LUSDS 219  
 LUS\_IDENTIFIER (0) LUSDS 218  
 LUS\_ITEM\_COUNT (4) LUSDS 218  
 LUS\_MECHANISM\_ID (3A) LUSDS 218  
 LUS\_PARTNER\_UUIDS (1A) LUSDS 218  
 LUS\_PV\_PARM\_LIST (0) LUSDS 218  
 LUS\_SIGNED\_ON\_FROM 1 LUSDS 219  
 LUS\_SIGNED\_ON\_TO 1 LUSDS 219  
 LUS\_TABLE\_FLAG (5) LUSDS 218  
 LUSDS 218  
 LUSNSYS (4) LUSDS 218  
 LUSRSYNC 1 LUSDS 219  
 LUSOFF 1 LUSDS 219  
 LUSTOUT 1 LUSDS 219  
 LUSTYPE (0) LUSDS 218  
 LUSURDA (10) LUSDS 218  
 LUSUSER (8) LUSDS 218  
 LUSUSERL 218  
 LUWIDCPU (40) FRABC 170  
 LUWIDFL1 (18) FRABC 169  
 LUWIDHDR (0) FRABC 169  
 LUWIDID (0) FRABC 169  
 LUWIDIDC 8 FRABC 170  
 LUWIDLEN (8) FRABC 169  
 LUWIDNDL (BIT) FRABC 169  
 LUWIDNUL 8 FRABC 170  
 LUWIDPD 169  
 LUWIDPDI (18) FRABC 169  
 LUWIDVA (48) FRABC 170  
 LUWIDVAL 169  
 LUWIDVER (C) FRABC 169  
 LUWIDVRC 1 FRABC 170  
 LUWIDWLM (3C) FRABC 170

**M**

macro  
 DL/I general purpose macro, CTXPA 63  
 DL/I general purpose macro, CWE 64  
 DL/I general purpose macro, DLP 80  
 DL/I general purpose macro, RPD 279  
 DL/I general purpose macro, RSB 280, 283  
 management

management (continued)  
 function management headers, FMH 156  
 ISC LUIT & sna management statistics, A21 26  
 subtask management parameter block, SKRQ 307  
 manager  
 enqueue manager global statistics, NQG 247  
 log manager journal statistics, LGRDS 209  
 log manager logstream statistics, LGSDS 210  
 program manager autoinstall commarea, PGACC 269  
 program manager statistics, PGGPC 271  
 recovery manager domain inline access, RMUXC 279  
 recovery manager global statistics, RMG 278  
 table manager directory element, TMDEL 436  
 table manager directory segment, TMDSG 437  
 table manager parameter list, TMRQ 439  
 table manager read lock block, TMELD 438  
 table manager scatter table, TMSKT 442  
 table manager static storage area, TMS 440  
 table manager statistics, A16 22  
 transaction manager global stats, XMGDS 566  
 transaction manager static storage, KCS 195  
 transaction manager TCLASS stats, XMCDs 565  
 transaction manager transaction stats, XMRDS 567  
 web interface template manager, WBTLc 514  
 XRF CAVM state manager parameter list, WSS 542  
 XRF CAVM state manager record description, WSM 538  
 XRF message manager global area, WMG 522  
 XRF message manager message, WMT 531  
 XRF message manager request, WMS 529  
 zcp LU sevices manager parameter, LUSDS 218  
 MAP 219  
 BMS map object DSECT, MAP 219  
 map control area description, MCA 224  
 mapper  
 TEP commarea mapper and descriptor, TEPCA 431  
 mapping  
 SRB interface mapping, SRA 325  
 XRF mapping session state vector '29', TCV29 418  
 MAX\_DUXWREC\_COUNT 1 DUA 95  
 MAXBUFF 4 DUA 97  
 MAXLDVD (BIT) FMH 162  
 MBCA 222  
 MBCA\_ARROW (2) MBCA 223  
 MBCA\_BLOCK (8) MBCA 223  
 MBCA\_DFH (3) MBCA 223  
 MBCA\_DOMID (6) MBCA 223  
 MBCA\_LENGTH (0) MBCA 223  
 MBCA\_MWCB\_P (4C) MBCA 223  
 MBCA\_PREFIX (0) MBCA 223  
 MBCA\_SRC (48) MBCA 223  
 MBCA\_TCA\_P (48) MBCA 223  
 MBCABCN1 (24) MBCA 223  
 MBCABCN2 (2C) MBCA 223  
 MBCABCN3 (34) MBCA 223  
 MBCABCN4 (44) MBCA 223  
 MBCABFAL (BIT) MBCA 223  
 MBCABFRQ (BIT) MBCA 223  
 MBCABFSZ (1C) MBCA 223  
 MBCACHN1 223  
 MBCACHN2 (28) MBCA 223  
 MBCACHN3 (30) MBCA 223  
 MBCACHNQ (40) MBCA 223  
 MBCACHNS (38) MBCA 223  
 MBCACNAL (54) MBCA 223  
 MBCACNIU 223  
 MBCACNWT (60) MBCA 223  
 MBCAFCN1 (20) MBCA 223  
 MBCAFCN2 (28) MBCA 223  
 MBCAFCN3 (30) MBCA 223  
 MBCAFCNQ (40) MBCA 223  
 MBCAFCNS (38) MBCA 223  
 MBCAFLG0 223  
 MBCAFLG1 223  
 MBCAFLG2 223  
 MBCAFLG3 223  
 MBCAMXAL (58) MBCA 223  
 MBCAMXIU (6C) MBCA 223  
 MBCAMXWT (64) MBCA 223  
 MBCANBFA (18) MBCA 223  
 MBCANBFR (14) MBCA 223  
 MBCATNAL (50) MBCA 223  
 MBCATNWT 223  
 MBCB\_DCTE\_P (24) MBCA 224

MBCB_MQCB_P	224
MBCB_MRCB_P (2C)	MBCA 224
MBCB_MWCB_P (34)	MBCA 224
MBCB_SRC (30)	MBCA 224
MBCB_TCA_P (30)	MBCA 224
MBCBABFR	224
MBCBACDF (18)	MBCA 224
MBCBBCHN (4)	MBCA 223
MBCBCRBA	224
MBCBFCHN (0)	MBCA 223
MBCBFLG0	223
MBCBFLG1	223
MBCBFLG2	223
MBCBFLG3	223
MBCBGTRQ (BIT)	MBCA 223
MBCBLBFR (14)	MBCA 224
MBCBLCKD (BIT)	MBCA 223
MBCBMRCA (20)	MBCA 224
MBCBPTRQ (BIT)	MBCA 223
MBCBSCHN	223
MBCBVALD (BIT)	MBCA 223
MCA	224
MCACBID (0)	MCA 224
MCACHAIN (4)	MCA 224
MCADAL (2A)	MCA 225
MCADATA (18)	MCA 225
MCADAEA (14)	MCA 224
MCADDEL (BIT)	MCA 224
MCADP (6A)	MCA 225
MCADXAT	225
MCADXAT0 (51)	MCA 225
MCAEL (BIT)	MCA 225
MCAEXF (64)	MCA 225
MCAEXL (66)	MCA 225
MCAEXT (68)	MCA 225
MCAFIELD (1C)	MCA 225
MCAFLAG	225
MCAFPF	224
MCAGMF (BIT)	MCA 225
MCAMAL (28)	MCA 225
MCAMAP (C)	MCA 224
MCAMHLL (26)	MCA 225
MCAMHSA (BIT)	MCA 225
MCAMI (22)	MCA 225
MCAMI2 (23)	MCA 225
MCAMODE (20)	MCA 225
MCAMP (6E)	MCA 225
MCAMSTDM (BIT)	MCA 225
MCAMSTDT (BIT)	MCA 225
MCAMSTR4 (21)	MCA 225
MCAMXAT	225
MCAMXAT0 (44)	MCA 225
MCANOSC (BIT)	MCA 225
MCANXF	225
MCAPP (68)	MCA 225
MCATERMD (38)	MCA 225
MCATERMM (2C)	MCA 225
MCATERSO (31)	MCA 225
MCATIOA (10)	MCA 224
MCB	226
MCBACT (BIT)	MCB 227
MCBAPDUN (BIT)	MCB 227
MCBAPSET (1C)	MCB 226
MCBCBID (8)	MCB 226
MCBCDSN (32)	MCB 227
MCBCDSP (3A)	MCB 227
MCBCEND (48)	MCB 227
MCBCHCNT (3C)	MCB 227
MCBCHN (28)	MCB 226
MCBCLDCD (2E)	MCB 227
MCBCLDCI	227
MCBCLDCM (2C)	MCB 227
MCBCOMN (4)	MCB 226
MCBCPID (42)	MCB 227
MCBCPRTN	227
MCBCUREP (10)	MCB 226
MCBCURPG (14)	MCB 226
MCBCURR (BIT)	MCB 227
MCBDLDCP (BIT)	MCB 227
MCBDRLDC (BIT)	MCB 227
MCBEODOP (BIT)	MCB 226
MCBEXEND	227
MCBEXLEN (BIT)	MCB 227
MCBFLAGS (29)	MCB 226
MCBFSUN (BIT)	MCB 227
MCBIND02	227
MCBLDCF (2F)	MCB 227
MCBLDCL (BIT)	MCB 227
MCBLDCLL (48)	MCB 227
MCBLEN (BIT)	MCB 227
MCBMCRCCK (BIT)	MCB 227
MCBMSGID (20)	MCB 226
MCBNEXT (4)	MCB 226
MCBOPCHK (BIT)	MCB 227
MCBPAG (2A)	MCB 227
MCBPGCNT (30)	MCB 227
MCBPGLDC (18)	MCB 226
MCBPNDUN (BIT)	MCB 227
MCBPSTAT (BIT)	MCB 227
MCBQKPRG (BIT)	MCB 227
MCBRCPAG (48)	MCB 227
MCBRDSN (50)	MCB 227
MCBRDSP (58)	MCB 227
MCBRDSPL (BIT)	MCB 227
MCBRLCD (4C)	MCB 227
MCBRLDCE	227
MCBRLDCE (4D)	MCB 227
MCBRLCDM (4A)	MCB 227
MCBRLN (BIT)	MCB 227
MCBRTPC (4E)	MCB 227
MCBSAA (0)	MCB 226
MCBSCHED (BIT)	MCB 227
MCBSCSA (BIT)	MCB 227
MCBTITLE (BIT)	MCB 226
MCBTRAN (BIT)	MCB 227
MCBTREV (BIT)	MCB 227
MCBTSID (20)	MCB 226
MCBTSPFX (20)	MCB 226
MCBTSPKY (22)	MCB 226
MCBTSQUL (27)	MCB 226
MCBTTS (26)	MCB 226
MCBUNQID (23)	MCB 226
MCBWBALL (BIT)	MCB 226
MCWBBCUR (BIT)	MCB 226
MCR	228
MCRAUTOP (BIT)	MCR 228
MCRBMSSM (BIT)	MCR 228
MCRCBID (C)	MCR 228
MCRDSN (3A)	MCR 228
MCRDSP	229
MCREODOP (BIT)	MCR 228
MCRERRID (20)	MCR 228
MCRETLD (1E)	MCR 228
MCRFLAGS (28)	MCR 228
MCRIDCNT (16)	MCR 228
MCRIDLST (BIT)	MCR 228
MCRIDNXT	229
MCRLDCCD (34)	MCR 228
MCRLDCCM (30)	MCR 228
MCRLDPCG (32)	MCR 228
MCRLLFAIL (BIT)	MCR 228
MCRLLBB (8)	MCR 228
MCRLNTRY (BIT)	MCR 229
MCRLSTRM (18)	MCR 228
MCRMLDC (BIT)	MCR 228
MCROPCL (24)	MCR 228
MCROPID (35)	MCR 228
MCRPAGE (BIT)	MCR 228
MCRPGCHN (27)	MCR 228
MCRPGCNT (14)	MCR 228
MCRPLTD (1C)	MCR 228
MCRQKPRG (BIT)	MCR 228
MCRRTAIN (BIT)	MCR 228
MCRSAAP (0)	MCR 228
MCRSCSA (BIT)	MCR 228
MCRSF (38)	MCR 228
MCRSFPG (BIT)	MCR 228
MCRSTART (BIT)	MCR 228
MCRSTAT (29)	MCR 228
MCRSYSID (3A)	MCR 229
MCRTEREM (BIT)	MCR 228
MCRTEYYP (39)	MCR 228
MCRTITLE (BIT)	MCR 228
MCRTRAN (BIT)	MCR 228
MCRTRMID (2C)	MCR 228
MCRTTLD (1A)	MCR 228

"Restricted Materials of IBM"  
 Licensed Materials – Property of IBM

MCRWBALL (BIT) MCR 228  
 MCRWBBCUR (BIT) MCR 228  
 MCTDR 229  
 message  
   BMS message control block, MCB 226  
   BMS message control record DSECT, MCR 228  
   function request shipping message, IMSDS 186  
   XRF message manager global area, WMG 522  
   XRF message manager message, WMT 531  
   XRF message manager request, WMS 529  
   XRF message queue anchor block, WMM 526  
   XRF message record, WMR 528  
   XRF message request queue, WMQ 527  
   XRF/DBCTL last message sent, DBWMS 65  
 messages  
   MGM format of prototype messages, MGM 230  
 MF050202 (BIT) FMH 158  
 MF0502FF (BIT) FMH 159  
 MF060404 (BIT) FMH 159  
 MF060802 (BIT) FMH 159  
 MF060804 (BIT) FMH 160  
 MF060806 (BIT) FMH 160  
 MF060A02 (BIT) FMH 160  
 MF060A04 (BIT) FMH 160  
 MF060A06 160  
 MF060A08 (BIT) FMH 161  
 MF060A0A 161  
 MF060A0C (BIT) FMH 161  
 MF060A10 (BIT) FMH 161  
 MF064002 (BIT) FMH 162  
 MF06401C (BIT) FMH 163  
 MF06401E 163  
 MF064020 164  
 MF064024 (BIT) FMH 164  
 MF064028 (BIT) FMH 164  
 MGINSERT (0) MGM 231  
 MGINSRD (2) MGM 231  
 MGINSRL (0) MGM 231  
 MGM 230  
   MGM format of prototype messages, MGM 230  
 MGMAMAP (0) MGM 230  
 MGMAMLST (BIT) MGM 231  
 MGMAMSG (0) MGM 230  
 MGMAPARM (4) MGM 231  
 MGMD1CDA (BIT) MGM 231  
 MGMD1CDI (BIT) MGM 231  
 MGMD1CID (BIT) MGM 231  
 MGMD1CNE (BIT) MGM 231  
 MGMD1CNL (BIT) MGM 231  
 MGMD1CNX (BIT) MGM 231  
 MGMD1NLS (BIT) MGM 231  
 MGMDDDUMP (BIT) MGM 231  
 MGMDNNUM (BIT) MGM 231  
 MGMDOFFS (BIT) MGM 231  
 MGMDRESP (BIT) MGM 231  
 MGMDRETN (BIT) MGM 231  
 MGMDTERM (BIT) MGM 231  
 MGMDTIOA (BIT) MGM 231  
 MGMGCOMP (A) MGM 231  
 MGMGDEST (1) MGM 231  
 MGMGDESX (8) MGM 231  
 MGMGNO (2) MGM 231  
 MGMGPROD (C) MGM 231  
 MGMGTCTE (BIT) MGM 231  
 MGMGTYP (0) MGM 231  
 MGMMDEST (0) MGM 231  
 MGMMDLN (BIT) MGM 231  
 MGMO3PID (BIT) MGM 231  
 MGMOFFV (7) MGM 231  
 MGMOPTN1 (4) MGM 231  
 MGMOPTN2 (5) MGM 231  
 MGMOPTN3 (6) MGM 231  
 MGRRESP (9) MGM 231  
 MGMTCONV (BIT) MGM 231  
 MGMTERAS (BIT) MGM 231  
 MGMTFMHP (BIT) MGM 231  
 MGMTLAST (BIT) MGM 231  
 MGMTUNLK (BIT) MGM 231  
 MGMTWAIT (BIT) MGM 231  
 MIN\_RLS\_DFP\_LEVEL1 2 FCS 144  
 MIN\_RLS\_DFP\_LEVEL2 4 FCS 144  
 MIN\_TABLE\_SIZE 2 TRBL 450  
 MMNDX (38) SPI 324

MNEMP 232  
 MNEMP\_ADDCNT 2 MNEMP 232  
 MNEMP\_CONSTANT 2 MNEMP 232  
 MNEMP\_DATA1 2 MNEMP 232  
 MNEMP\_DATA2 2 MNEMP 232  
 MNEMP\_DELIVER 2 MNEMP 232  
 MNEMP\_END 2 MNEMP 232  
 MNEMP\_EXCNT 2 MNEMP 232  
 MNEMP\_MLTCNT 2 MNEMP 232  
 MNEMP\_MOVE 2 MNEMP 232  
 MNEMP\_NACNT 2 MNEMP 232  
 MNEMP\_NEXT\_EMP\_FOR\_ID (0) MNEMP 232  
 MNEMP\_OPTION\_CNSTANT (8) MNEMP 232  
 MNEMP\_OPTION\_OFFSET (4) MNEMP 232  
 MNEMP\_OPTION\_SOURCE (2) MNEMP 232  
 MNEMP\_OPTION\_TYPE (0) MNEMP 232  
 MNEMP\_ORCNT 2 MNEMP 232  
 MNEMP\_PCLOCK 2 MNEMP 232  
 MNEMP\_PCPUCLK 2 MNEMP 232  
 MNEMP\_QUALIFIER\_PTR (4) MNEMP 232  
 MNEMP\_SCLOCK 2 MNEMP 232  
 MNEMP\_SCPUCLK 2 MNEMP 232  
 MNEMP\_SUBCNT 2 MNEMP 232  
 MNEXC 233  
 MNEXCDS (0) MNEXC 233  
 MNG 234  
 MNGCLEN (BIT) MNG 234  
 MNGDVERS (4) MNG 234  
 MNGEND (BIT) MNG 234  
 MNGER 234  
 MNGERS (C) MNG 234  
 MNGID (2) MNG 234  
 MNGIDE (BIT) MNG 234  
 MNGLEN 234  
 MNGPR (10) MNG 234  
 MNGPRS (14) MNG 234  
 MNGSMFE (1C) MNG 234  
 MNGSMFR (18) MNG 234  
 MNGSYSEE (24) MNG 234  
 MNGSYSER (20) MNG 234  
 MNGVERS (BIT) MNG 234  
 MNPDRLEN (564) PDA 264  
 MNSMF 235  
 MNSMFDS (0) MNSMF 235  
 MNT 236  
 MNTCLEN (508) MNT 239  
 MNTDVERS (4) MNT 236  
 MNTID (2) MNT 236  
 MNTIDE (BIT) MNT 236  
 MNTLEN 236  
 MNTVERS (BIT) MNT 236  
 mode  
   ISC/IRC mode entry statistics, A20 25  
 MODENAME (2) ZGRP 604  
 MODENAME\_KEY (1) ZGRP 604  
 MODENAME\_LENGTH (0) ZGRP 604  
 MODENAME\_PTR (8) ZGRP 603  
 MODENAME\_STRUCT (0) ZGRP 604  
 module  
   function and module identifiers, FMI 166  
   module identifier, VMID 502  
 MODULE\_INDEX (0) DCR 68  
 modules  
   TCP modules address list, ZEPD 589  
 monitoring  
   monitoring dictionary entry, MCTDR 229  
   monitoring domain statistics, MNG 234  
   monitoring domain user EMP structure, MNEMP 232  
   monitoring exception record, MNEXC 233  
   monitoring performance data record, PDA 261  
   transaction monitoring data, MNT 236  
 MOVING\_DATA (BIT) XCTRC 556  
 MQCB\_MBCB\_P 224  
 MQCBBCHN (4) MBCA 224  
 MQCBFCHN 224  
 MRC 240  
 MRCA\_ACB 240  
 MRCA\_ARROW (2) MRC 240  
 MRCA\_BLOCK (8) MRC 240  
 MRCA\_CIL (54) MRC 240  
 MRCA\_CSM (6C) MRC 240  
 MRCA\_DDNAME (14) MRC 240  
 MRCA\_DFH (3) MRC 240

MRCA\_DFP (10) MRC 240  
 MRCA\_DFP\_21 1 MRC 242  
 MRCA\_DFP\_22 1 MRC 242  
 MRCA\_DFP\_23 1 MRC 242  
 MRCA\_DFP\_M0 (11) MRC 240  
 MRCA\_DFP\_VR (10) MRC 240  
 MRCA\_DOMID (6) MRC 240  
 MRCA\_DS (54) MRC 240  
 MRCA\_DSNAME (1C) MRC 240  
 MRCA\_H\_RBA (68) MRC 240  
 MRCA\_I\_RBA (60) MRC 240  
 MRCA\_LENGTH (0) MRC 240  
 MRCA\_MAX\_L (5C) MRC 240  
 MRCA\_MIN\_L (58) MRC 240  
 MRCA\_MRSD\_N (70) MRC 240  
 MRCA\_MRSD\_P (6C) MRC 240  
 MRCA\_MWCB\_P (78) MRC 240  
 MRCA\_N\_RBA (64) MRC 240  
 MRCA\_OACB\_P (50) MRC 240  
 MRCA\_PREFIX (0) MRC 240  
 MRCA\_SRC\_1 (74) MRC 240  
 MRCA\_SRC\_2 (7C) MRC 240  
 MRCA\_STR\_N (48) MRC 240  
 MRCA\_TCA\_P (74) MRC 240  
 MRCA\_UACB\_P (4C) MRC 240  
 MRCABCN1 (90) MRC 241  
 MRCACHN1 (8C) MRC 241  
 MRCACHNS (94) MRC 241  
 MRCACNAL (A0) MRC 241  
 MRCACNWT (AC) MRC 241  
 MRCACSMC (BIT) MRC 241  
 MRCACSMI 240  
 MRCACSMP (BIT) MRC 241  
 MRCACSMR (BIT) MRC 241  
 MRCACTCI (B8) MRC 241  
 MRCACTFT (CC) MRC 241  
 MRCACTGT (C8) MRC 241  
 MRCACTIO (D0) MRC 241  
 MRCACTPT (C4) MRC 241  
 MRCADDST (BIT) MRC 241  
 MRCAECB (84) MRC 240  
 MRCAERC1 241  
 MRCAESDS (BIT) MRC 241  
 MRCAFCN1 (8C) MRC 241  
 MRCAF CNS (94) MRC 241  
 MRCAFLG0 241  
 MRCAFLG1 241  
 MRCAFLG2 241  
 MRCAFLG3 241  
 MRCAFULL (BIT) MRC 241  
 MRCAMPTY (BIT) MRC 241  
 MRCAMXAL (A4) MRC 241  
 MRCAMXCI (BC) MRC 241  
 MRCAMXWT (B0) MRC 241  
 MRCANCIS 241  
 MRCANOSP (C0) MRC 241  
 MRCAOPEN (BIT) MRC 241  
 MRCATNAL 241  
 MRCATNWT 241  
 MRCB\_MBCB\_P (18) MRC 241  
 MRCB\_MWCB\_P (1C) MRC 241  
 MRCB\_RPL\_P (10) MRC 241  
 MRCB\_VEVA\_P (14) MRC 241  
 MRCBBCHN (4) MRC 241  
 MRCBFCHN 241  
 MRCBSCHN (8) MRC 241  
 MRO  
   transformed MRO function, XFIOA 561  
 MRSD\_ARROW (2) MRC 241  
 MRSD\_BLOCK (8) MRC 241  
 MRSD\_CIS\_ALLOCATED (10) MRC 242  
 MRSD\_DFH (3) MRC 241  
 MRSD\_DOMID (6) MRC 241  
 MRSD\_LENGTH (0) MRC 241  
 MRSD\_PREFIX (0) MRC 241  
 MRSD\_STATS (10) MRC 241  
 MRSDPFCN (28) MRC 242  
 MRSDPFID (18) MRC 242  
 MRSDPFIX 242  
 MRSDPFLL (20) MRC 242  
 MRSDPFLN (1C) MRC 242  
 MRSDPFUL (24) MRC 242  
 MRSDSARB (12C) MRC 242

MRSDSARM (2C) MRC 242  
 MRSDSEGB (12C) MRC 242  
 MRSDSEGM 242  
 MRSDSFCN (23C) MRC 242  
 MRSDSFID (22C) MRC 242  
 MRSDSFIX (22C) MRC 242  
 MRSDSFLL (234) MRC 242  
 MRSDSFLN (230) MRC 242  
 MRSDSFUL (238) MRC 242  
 MS1050 (BIT) TTP 469  
 MS2740 (BIT) TTP 470  
 MS2740BR (BIT) TTP 470  
 MS2741 (BIT) TTP 470  
 MS2770 (BIT) TTP 470  
 MS2780 (BIT) TTP 470  
 MS2980 (BIT) TTP 470  
 MS2980M4 (BIT) TTP 470  
 MS3270HC (BIT) TTP 470  
 MS3270M1 (BIT) TTP 470  
 MS3270M2 (BIT) TTP 470  
 MS327PHC (BIT) TTP 470  
 MS327PM1 (BIT) TTP 470  
 MS327PM2 (BIT) TTP 470  
 MS3601 (BIT) TTP 470  
 MS3650UP (BIT) TTP 470  
 MS3653 (BIT) TTP 470  
 MS3780 (BIT) TTP 470  
 MSBCHLU (BIT) TTP 470  
 MSCRLP (BIT) TTP 469  
 MSDISK (BIT) TTP 469  
 MSF22601 (BIT) TTP 469  
 MSF22602 (BIT) TTP 469  
 MSG\_PARAM\_AREA (B8) XCTRC 557  
 MSG\_PLIST\_PTR (B0) XCTRC 557  
 MSG302 4 DUA 97  
 MSG306 97  
 MSG307 4 DUA 97  
 MSGE0001 (BIT) TCTWA 414  
 MSGNTNM (5C) TCTWA 414  
 MSGNTNME (BIT) TCTWA 414  
 MSINTLU (BIT) TTP 470  
 MSTAPE (BIT) TTP 469  
 MSTWX (BIT) TTP 469  
 MWCB 242  
 MWCB\_ARROW (2) MWCB 242  
 MWCB\_BLOCK (8) MWCB 242  
 MWCB\_DFH (3) MWCB 242  
 MWCB\_DOMID (6) MWCB 242  
 MWCB\_LENGTH (0) MWCB 242  
 MWCB\_MWCB\_P (10) MWCB 243  
 MWCB\_PREFIX (0) MWCB 242  
 MWCB\_SR\_TOK (18) MWCB 243  
 MWCB\_TASK\_TOKEN (14) MWCB 243  
 MWCB\_TXN\_NUMBER (1C) MWCB 243

## N

NAB (BIT) LFM 202  
 NAIBS (4C) EICD1 114  
 name  
   file control dataset name, DSN 87  
 named  
   named counter server of statistics, NCS4D 243  
   named counter server storage statistics, NCS5D 244  
 NAMXPTR (40) EICD1 114  
 NBYTES 114  
 NCODS (54) EICD1 114  
 NCS4D 243  
 NCS5D 244  
 NCTLS (14) EICD1 114  
 NEPCA 245  
 NEPCABEG (0) NEPCA 245  
 NEPCACMP (1) NEPCA 245  
 NEPCAFNC (0) NEPCA 245  
 NEPCAHDR (0) NEPCA 245  
 NEPCALEN (BIT) NEPCA 246  
 NETNAME2 414  
 NEW\_END\_PTR (84) DUA 93  
 NEW\_TAB\_BASE (7C) DUA 93  
 NEW\_TAB\_PTR (78) DUA 93  
 NEW\_TAB\_SIZE (80) DUA 93  
 NEW\_TAB\_WRAP (BIT) DUA 93



"Restricted Materials of IBM"  
 Licensed Materials – Property of IBM

NIB (0) ZGRP 602  
 NIB\_COUNT (C) ZGRP 602  
 NIB\_DATA\_LENGTH 4 ZGRP 605  
 NIB\_START (18) ZGRP 602  
 NIBCID (4) ZGRP 602  
 NIBCON (BIT) ZGRP 602  
 NIBDEVCH (1C) ZGRP 602  
 NIBEXLST 602  
 NIBFLGO 602  
 NIBFLG1 (28) ZGRP 602  
 NIBFLG2 (29) ZGRP 602  
 NIBGENN (30) ZGRP 602  
 NIBLAST (BIT) ZGRP 602  
 NIBLEN 602  
 NIBLIST (0) ZGRP 602  
 NIBLIST\_HEADER (0) ZGRP 602  
 NIBLMODE (30) ZGRP 602  
 NIBM0DE (14) ZGRP 602  
 NIBNET (14) ZGRP 602  
 NIBNNAMS (BIT) ZGRP 602  
 NIBPROCD (24) ZGRP 602  
 NIBPSDFA (BIT) ZGRP 602  
 NIBPSDFS (BIT) ZGRP 602  
 NIBPSPLU 602  
 NIBPSRSP (BIT) ZGRP 602  
 NIBRPARM 602  
 NIBSYM (C) ZGRP 602  
 NIBUSER (8) ZGRP 602  
 NKEPS (2C) EICD1 114  
 NKEYS (1C) EICD1 114  
 NO 0 DUA 94  
 NO 0 TRBL 450  
 NO\_STATS\_AVAILABLE 1 APSTG 10  
 node  
 node error program commarea, NEPCA 245  
 NONPRGT (BIT) TEPCA 431  
 NORLHELD 1 TMRQ 440  
 NORMRESP 1 TMRQ 440  
 NOTFND 1 TMRQ 440  
 notify  
 XRF CAVM notify exit, WNF 532  
 NQ\_ADDR\_LIST (0) NQUE 250  
 NQ\_ADDR0 (0) NQUE 250  
 NQ\_ADDR1 (4) NQUE 250  
 NQ\_ADDR2 (8) NQUE 250  
 NQ\_ADDR3 (C) NQUE 250  
 NQ\_BITS1 (2) NQUE 250  
 NQ\_DATA1 (0) NQUE 250  
 NQ\_DATA2 (0) NQUE 250  
 NQ\_DATA3 (0) NQUE 250  
 NQ\_DEQ 1 NQUE 251  
 NQ\_EID (0) NQUE 250  
 NQ\_EIDOPT5 (5) NQUE 250  
 NQ\_EIDOPT6 250  
 NQ\_EIDOPT7 250  
 NQ\_ENQ 1 NQUE 251  
 NQ\_ENQBUSY\_EIBRCODE 1 NQUE 251  
 NQ\_ENQBUSY\_EIBRESP 1 NQUE 251  
 NQ\_ENQDEQ\_GROUP 1 NQUE 251  
 NQ\_EXIST1 (BIT) NQUE 250  
 NQ\_EXIST2 (BIT) NQUE 250  
 NQ\_EXIST3 (BIT) NQUE 250  
 NQ\_FUNCT (1) NQUE 250  
 NQ\_GROUP (0) NQUE 250  
 NQ\_INVREQ\_EIBRCODE 1 NQUE 251  
 NQ\_INVREQ\_EIBRESP 1 NQUE 251  
 NQ\_INVREQ\_EIBRESP2 1 NQUE 251  
 NQ\_LENGERR\_EIBRCODE 1 NQUE 251  
 NQ\_LENGERR\_EIBRESP 1 NQUE 251  
 NQ\_LENGERR\_EIBRESP2 1 NQUE 251  
 NQ\_LENGTH (0) NQUE 250  
 NQ\_LENGTH\_V (BIT) NQUE 250  
 NQ\_MAXLIFETIME (0) NQUE 250  
 NQ\_MAXLIFETIME\_V (BIT) NQUE 250  
 NQ\_NOSUSPEND\_X 250  
 NQ\_OK\_EIBRCODE 1 NQUE 251  
 NQ\_OK\_EIBRESP 1 NQUE 251  
 NQ\_OK\_EIBRESP2 1 NQUE 251  
 NQ\_RESOURCE (0) NQUE 250  
 NQ\_RESOURCE\_V (BIT) NQUE 250  
 NQG 247  
 NQGBEND (BIT) NQG 248  
 NQGBLEN (BIT) NQG 248

NQGBODY (0) NQG 247  
 NQGCNQRT (4C) NQG 247  
 NQGCNQSR (48) NQG 247  
 NQGCNQSW (18) NQG 247  
 NQGCNQWT (1C) NQG 247  
 NQGDVERS (4) NQG 247  
 NQGGEND (BIT) NQG 247  
 NQGGLEN (BIT) NQG 247  
 NQGGNQSW (24) NQG 247  
 NQGGNQWT (28) NQG 247  
 NQGID (2) NQG 247  
 NQGIDE (BIT) NQG 247  
 NQGLLEN 247  
 NQGNPOOL 247  
 NQGPOOL (0) NQG 247  
 NQGSNQSW (30) NQG 247  
 NQGSNQWT (34) NQG 247  
 NQGTIRJB (54) NQG 247  
 NQGTIRJR (58) NQG 247  
 NQGTNQRT (40) NQG 247  
 NQGTNQSI (8) NQG 247  
 NQGTNQSR (3C) NQG 247  
 NQGTNQSW (C) NQG 247  
 NQGTNQWT (10) NQG 247  
 NQGTWPOP (60) NQG 247  
 NQGTWPTO (64) NQG 248  
 NQGTWRJR (5C) NQG 247  
 NQGVERS (BIT) NQG 247  
 NQUE 248  
 NSPOOL 1 SIT 303  
 NSTTS (C) EICD1 114  
 NSYNS (34) EICD1 114  
 NTABS (4) EICD1 114  
 NUMCMDS (4) EICD1 117  
 NUMKYS (C) EICD1 117  
 NVBPS (24) EICD1 114

**O**

OB\_CON1 (2) DUA 93  
 OB\_CON2 (8) DUA 93  
 OB\_DCB\_PTR (1C) DUA 93  
 object  
 BMS map object DSECT, MAP 219  
 OCLOCK (58) TCTWA 414  
 OFDR (BIT) LFM 202  
 OFF 0 TRBL 450  
 OFF0 (BIT) LFM 202  
 OFF1 (BIT) LFM 202  
 OFLN (BIT) LFM 202  
 OFLR (BIT) LFM 202  
 OFNB (BIT) LFM 202  
 OFR1 (BIT) LFM 202  
 OFTASN (BIT) LFM 202  
 ON 0 TRBL 450  
 OP 117  
 OP1 116  
 OP11 (2) EICD1 117  
 OP1FLAGS (1) EICD1 117  
 OP1FLG (1) EICD1 116  
 OP1KE (BIT) EICD1 116  
 OP1NULL (BIT) EICD1 116  
 OP1OPL (BIT) EICD1 116  
 OP1PAREN (BIT) EICD1 116  
 OP1SYNI (BIT) EICD1 116  
 OP2 117  
 OP21 (5) EICD1 117  
 OP2FLAGS (4) EICD1 117  
 OP2FLG (4) EICD1 116  
 OP2KE (BIT) EICD1 116  
 OP2NULL (BIT) EICD1 116  
 OP2OPL (BIT) EICD1 116  
 OP2PAREN (BIT) EICD1 116  
 OP2SYNI (BIT) EICD1 116  
 OPCODE (0) EICD1 116  
 OPCODE1 (0) EICD1 117  
 OPEN\_BLOCK (0) DUA 93  
 OPEN\_STATUS (BIT) DUA 90  
 OPENBLOK\_PTR (C0) DUA 89  
 OPERAND (0) EICD1 117  
 OPERAND1 (1) EICD1 116  
 OPERAND2 (4) EICD1 116

OPFLG (0) EICD1 117  
OPKE (BIT) EICD1 117  
OPNDST\_DATA\_LENGTH 4 ZGRP 605  
OPNULL (BIT) EICD1 117  
OPOPL (BIT) EICD1 117  
OPPAREN (BIT) EICD1 117  
OPSYNI (BIT) EICD1 117  
OPTIMAL\_CLIENTS\_ONLY (BIT) RMUXC 279  
organiser  
XRF tracking queue organiser, ZXQOD 609  
OSCOBOL\_EXTENSION (38) APLI 9  
OSP\_BRIDGE\_FACILITY (E8) OSPWA 253  
OSP3270E (BIT) OSPWA 254  
OSPADISP (109) OSPWA 254  
OSPAPID (77) OSPWA 253  
OSPAPNM (75) OSPWA 253  
OSPAPRT (BIT) OSPWA 252  
OSPASCSA (BIT) OSPWA 254  
OSPBLS14 (30) OSPWA 252  
OSPBMSM (BIT) OSPWA 254  
OSPBMTSI (BIT) OSPWA 253  
OSPCBID (8) OSPWA 251  
OSPCBM (BIT) OSPWA 254  
OSPCP (5E) OSPWA 253  
OSPCPRTN (2FA) OSPWA 255  
OSPCPSA (160) OSPWA 255  
OSPCPSTP 255  
OSPCRIE (122) OSPWA 255  
OSPCRIL (BIT) OSPWA 255  
OSPCROSP (300) OSPWA 255  
OSPCCTP (A8) OSPWA 253  
OSPCUA (332) OSPWA 255  
OSPCUACL (BIT) OSPWA 255  
OSPCUAEP (BIT) OSPWA 255  
OSPCUAIF (BIT) OSPWA 255  
OSPCUAMC (330) OSPWA 255  
OSPCUASR (BIT) OSPWA 255  
OSPCUMAL (BIT) OSPWA 254  
OSPDAL (10E) OSPWA 254  
OSPDCRSA 255  
OSPDDEL (FA) OSPWA 254  
OSPDDISP (10A) OSPWA 254  
OSPDDELD (EE) OSPWA 253  
OSPDELI (BIT) OSPWA 254  
OSPDFHE (BIT) OSPWA 254  
OSPDFMAL (BIT) OSPWA 254  
OSPDFFTP (B8) OSPWA 253  
OSPDLTTP (BC) OSPWA 253  
OSPDSSA (28) OSPWA 251  
OSPDSS (BIT) OSPWA 254  
OSPDSTP (AC) OSPWA 253  
OSPDWE (D0) OSPWA 253  
OSPDWEO (D4) OSPWA 253  
OSPDWEP (BIT) OSPWA 254  
OSPEIC (BIT) OSPWA 252  
OSPEND (364) OSPWA 256  
OSPEOC (BIT) OSPWA 254  
OSPEODOP (BIT) OSPWA 252  
OSPEODS (BIT) OSPWA 254  
OSPETBSV (2F9) OSPWA 255  
OSPETLDC (F0) OSPWA 253  
OSPFLAG (6C) OSPWA 253  
OSPFMP (78) OSPWA 253  
OSPFOLD (BIT) OSPWA 254  
OSPFSC (5C) OSPWA 253  
OSPHDRA (60) OSPWA 253  
OSPHON (BIT) OSPWA 252  
OSPIET (BIT) OSPWA 254  
OSPIFH (BIT) OSPWA 255  
OSPIGRQI (BIT) OSPWA 254  
OSPIIPSA (BIT) OSPWA 251  
OSPIPM (BIT) OSPWA 254  
OSPIND01 (105) OSPWA 254  
OSPIND02 (106) OSPWA 254  
OSPIND03 (107) OSPWA 254  
OSPIND04 (108) OSPWA 254  
OSPINPID (2AE) OSPWA 255  
OSPINPNM (2AC) OSPWA 255  
OSPINS14 (2C) OSPWA 252  
OSPIQA (58) OSPWA 253  
OSPIOT (BIT) OSPWA 252  
OSPIPF (BIT) OSPWA 254  
OSPIPN (BIT) OSPWA 254  
OSPIPRT (BIT) OSPWA 252  
OSPIPS (BIT) OSPWA 254  
OSPIR (BIT) OSPWA 254  
OSPIRPGL (BIT) OSPWA 254  
OSPJF (BIT) OSPWA 253  
OSPJFLV (5D) OSPWA 253  
OSPJL (BIT) OSPWA 253  
OSPJUST (BIT) OSPWA 252  
OSPLBNCL (2A4) OSPWA 255  
OSPLBR6 (298) OSPWA 255  
OSPLBR8 (29C) OSPWA 255  
OSPLBR9 (2A0) OSPWA 255  
OSPLBX (30C) OSPWA 255  
OSPLBXA (30C) OSPWA 255  
OSPLDC (72) OSPWA 253  
OSPLDCOB (BIT) OSPWA 254  
OSPLDM (70) OSPWA 253  
OSPLEN (364) OSPWA 256  
OSPLIS14 (28) OSPWA 252  
OSPLMID (8F) OSPWA 253  
OSPLMLDC (BIT) OSPWA 254  
OSPLMPB (BIT) OSPWA 254  
OSPLMPRT (BIT) OSPWA 254  
OSPLMTB (BIT) OSPWA 254  
OSPLMTTS (92) OSPWA 253  
OSPLPS (BIT) OSPWA 252  
OSPLTA (BIT) OSPWA 254  
OSPLMA (60) OSPWA 253  
OSPMAL (10C) OSPWA 254  
OSPMAPSA (18) OSPWA 251  
OSPMCAAP (2EC) OSPWA 255  
OSPMCBV (2E8) OSPWA 255  
OSPMCPIN (2B4) OSPWA 255  
OSPMCRID (60) OSPWA 253  
OSPMGC (BIT) OSPWA 253  
OSPMGM (BIT) OSPWA 252  
OSPMHLL (110) OSPWA 254  
OSPMCO (2E4) OSPWA 255  
OSPMFR (2E7) OSPWA 255  
OSPMH (BIT) OSPWA 255  
OSPMNL (2D8) OSPWA 255  
OSPMPS (2E5) OSPWA 255  
OSPMRG (2B8) OSPWA 255  
OSPM (2E6) OSPWA 255  
OSPMTH (2E0) OSPWA 255  
OSPM (2DC) OSPWA 255  
OSPM (BIT) OSPWA 255  
OSPMN (60) OSPWA 253  
OSPM (68) OSPWA 253  
OSPM (124) OSPWA 255  
OSPM (68) OSPWA 253  
OSPM (80) OSPWA 253  
OSPM (BIT) OSPWA 254  
OSPN (BIT) OSPWA 254  
OSPNOM (BIT) OSPWA 254  
OSPNOM (BIT) OSPWA 254  
OSPNOSC (BIT) OSPWA 254  
OSPNR1 (BIT) OSPWA 254  
OSPOC (6D) OSPWA 253  
OSPOCN (122) OSPWA 255  
OSPOFTTP (B4) OSPWA 253  
OSPOI (BIT) OSPWA 255  
OSPOPPND (BIT) OSPWA 254  
OSPOPRCL (102) OSPWA 254  
OSPOPRT (BIT) OSPWA 252  
OSPOVTTTP (304) OSPWA 255  
OSPPFCL (112) OSPWA 254  
OSPPFNCL (114) OSPWA 254  
OSPPFNCR (115) OSPWA 254  
OSPPFNFL (113) OSPWA 254  
OSPPFSA (20) OSPWA 251  
OSPPFWRK (112) OSPWA 254  
OSPPGAS (BIT) OSPWA 252  
OSPPGCN (94) OSPWA 253  
OSPPGN (120) OSPWA 255  
OSPPGNO (96) OSPWA 253  
OSPL1 (BIT) OSPWA 254  
OSPLT1 (E0) OSPWA 253  
OSPLTES (BIT) OSPWA 253  
OSPLTL (E4) OSPWA 253  
OSPLTNE (BIT) OSPWA 253  
OSPPOF (120) OSPWA 255  
OSPPSN (60) OSPWA 253

"Restricted Materials of IBM"  
 Licensed Materials – Property of IBM

OSPR14SV (84) OSPWA 253  
 OSPRA (BIT) OSPWA 252  
 OSPRC1 (11C) OSPWA 254  
 OSPRC2 (11D) OSPWA 254  
 OSPRC3 (11E) OSPWA 254  
 OSPRCODE (2AF) OSPWA 255  
 OSPRCVCT (2B0) OSPWA 255  
 OSPRDA (BIT) OSPWA 252  
 OSPRDISP (10B) OSPWA 254  
 OSPREO (BIT) OSPWA 252  
 OSPREQCD (BIT) OSPWA 254  
 OSPREQID (73) OSPWA 253  
 OSPRETI (BIT) OSPWA 252  
 OSPRETID (68) OSPWA 253  
 OSPRETPG (D8) OSPWA 253  
 OSPRF (BIT) OSPWA 254  
 OSPRI (BIT) OSPWA 252  
 OSPRI1 (11F) OSPWA 255  
 OSPRIEND 255  
 OSPRILEN (BIT) OSPWA 255  
 OSPRIN (BIT) OSPWA 252  
 OSPRISTR (11A) OSPWA 254  
 OSPRLA (60) OSPWA 253  
 OSPRLRSA (10) OSPWA 251  
 OSPRLSA (BIT) OSPWA 252  
 OSPROC (BIT) OSPWA 252  
 OSPRPI (BIT) OSPWA 254  
 OSPRPL (5E) OSPWA 253  
 OSPRPR (BIT) OSPWA 252  
 OSPRQI (BIT) OSPWA 252  
 OSPRSA (128) OSPWA 255  
 OSPRT (BIT) OSPWA 252  
 OSPRTE (BIT) OSPWA 254  
 OSPRTI (64) OSPWA 253  
 OSPRTL (BIT) OSPWA 252  
 OSPRUWA (BIT) OSPWA 254  
 OSPRW (BIT) OSPWA 254  
 OSPSAAP (0) OSPWA 251  
 OSPSFWSV (DC) OSPWA 253  
 OSPSIG (BIT) OSPWA 253  
 OSPSIOA (C4) OSPWA 253  
 OSPSOSIM (BIT) OSPWA 254  
 OSPSREQ (CC) OSPWA 253  
 OSPSRTA (BIT) OSPWA 254  
 OSPSTART (BIT) OSPWA 251  
 OSPSTRT1 (BIT) OSPWA 251  
 OSPSVDTA 252  
 OSPSVEND 253  
 OSPSVLEN (BIT) OSPWA 253  
 OSPSVTTP (308) OSPWA 255  
 OSPTA (58) OSPWA 253  
 OSPTC (BIT) OSPWA 252  
 OSPTCAPG (BIT) OSPWA 252  
 OSPTCPG (BIT) OSPWA 252  
 OSPTCREL (BIT) OSPWA 252  
 OSPTCRET (BIT) OSPWA 252  
 OSPTCWCC (BIT) OSPWA 252  
 OSPTDEL (F6) OSPWA 254  
 OSPTDN (BIT) OSPWA 252  
 OSPTDY (BIT) OSPWA 252  
 OSPTERID (FE) OSPWA 254  
 OSPTEU (BIT) OSPWA 252  
 OSPTFF (BIT) OSPWA 252  
 OSPTFP (BIT) OSPWA 252  
 OSPTHDR (BIT) OSPWA 252  
 OSPTIOA (C0) OSPWA 253  
 OSPTITLE (C8) OSPWA 253  
 OSPTLD (BIT) OSPWA 252  
 OSPTLST (BIT) OSPWA 252  
 OSPTMA (BIT) OSPWA 252  
 OSPTMN (BIT) OSPWA 252  
 OSPTOF (BIT) OSPWA 252  
 OSPTOPT (BIT) OSPWA 252  
 OSPTOPTR (2FC) OSPWA 255  
 OSPTOTPG (F4) OSPWA 254  
 OSPTPAID (2F8) OSPWA 255  
 OSPTPCBA (115) OSPWA 254  
 OSPTPCHN (118) OSPWA 254  
 OSPTPCO1 (116) OSPWA 254  
 OSPTPCO2 (117) OSPWA 254  
 OSPTPLEN (BIT) OSPWA 254  
 OSPTPPAG (11A) OSPWA 254  
 OSPTPPID (2EE) OSPWA 255  
 OSPTPPOS (117) OSPWA 254  
 OSPTPPSA (30) OSPWA 251  
 OSPTPRS1 (38) OSPWA 251  
 OSPTPRS2 (40) OSPWA 252  
 OSPTPRS3 (20) OSPWA 252  
 OSPTPRS4 (24) OSPWA 252  
 OSPTPRS5 (28) OSPWA 252  
 OSPTPRS6 (2C) OSPWA 252  
 OSPTPTDL (2F0) OSPWA 255  
 OSPTPUDA (2F4) OSPWA 255  
 OSPTR1 (50) OSPWA 252  
 OSPTR2 (51) OSPWA 252  
 OSPTR3 (52) OSPWA 252  
 OSPTR4 (53) OSPWA 252  
 OSPTR5 (54) OSPWA 252  
 OSPTR6 (55) OSPWA 252  
 OSPTR7 (56) OSPWA 252  
 OSPTR8 (57) OSPWA 252  
 OSPTRAN (BIT) OSPWA 254  
 OSPTRB (BIT) OSPWA 252  
 OSPTRE (BIT) OSPWA 252  
 OSPTREND (BIT) OSPWA 253  
 OSPTRF (BIT) OSPWA 252  
 OSPTRG (BIT) OSPWA 252  
 OSPTRI (BIT) OSPWA 252  
 OSPTRLA (64) OSPWA 253  
 OSPTRLEN (BIT) OSPWA 253  
 OSPTRLOC (BIT) OSPWA 252  
 OSPTRM (BIT) OSPWA 252  
 OSPTRMID (58) OSPWA 253  
 OSPTRN (BIT) OSPWA 252  
 OSPTRO (BIT) OSPWA 252  
 OSPTRP (BIT) OSPWA 252  
 OSPTRR (BIT) OSPWA 252  
 OSPTRS (BIT) OSPWA 252  
 OSPTRT (BIT) OSPWA 252  
 OSPTRTWA (198) OSPWA 255  
 OSPTRU (BIT) OSPWA 252  
 OSPTRW (BIT) OSPWA 252  
 OSPTRX (BIT) OSPWA 252  
 OSPTSA (BIT) OSPWA 252  
 OSPTSID (8C) OSPWA 253  
 OSPTSIOE (BIT) OSPWA 254  
 OSPTSKEY (8C) OSPWA 253  
 OSPTSN (BIT) OSPWA 252  
 OSPTSPFX (8C) OSPWA 253  
 OSPTSPID (8E) OSPWA 253  
 OSPTSQL (93) OSPWA 253  
 OSPTTcnt (F2) OSPWA 254  
 OSPTTP (B0) OSPWA 253  
 OSPTTRL (BIT) OSPWA 252  
 OSPTWBA (BIT) OSPWA 252  
 OSPTWBC (BIT) OSPWA 252  
 OSPUEDIT (BIT) OSPWA 254  
 OSPUXI (BIT) OSPWA 254  
 OSPWA 251  
 OSPWADW (98) OSPWA 253  
 OSPWAF1 (A0) OSPWA 253  
 OSPWAF2 (A4) OSPWA 253  
 OSPWAPGO (BIT) OSPWA 254  
 OSPWCC (5C) OSPWA 253  
 OSPWKB1 (EC) OSPWA 253  
 OSPWKB2 (ED) OSPWA 253  
 OSPWRB (BIT) OSPWA 252  
 OSPX01 (BIT) OSPWA 253  
 OSPXIPID (2B2) OSPWA 255  
 OUT (0) ZCCPS 580  
 output  
     transient data output area, TDOA 423  
 OVERLENGTH\_ENTRY (BIT) XCTRC 557

**P**  
 PA\_RELIABILITY (0) TCTTE 393  
 page  
     BMS page control area DSECT, PGA 268  
 pagepool  
     pagepool storage statistics, SMS 313  
 PALEN (0) EICD1 116  
 parameter  
     builder parameter set, ZCQ 582

parameter (continued)

cics-dbctl XRF user exit parameter list, DXUEP 105	PC_PGMIDERR_3_EIBRESP2 (BIT) PCE 259
dump domain authorised parameter block, DUAFB 98	PC_PGMIDERR_EIBRCODE (BIT) PCE 258
enq/deq EXEC parameter list, NQUE 248	PC_PGMIDERR_EIBRESP (BIT) PCE 259
gntran stub parameter list for cegn, SNGN 319	PC_PROGRAM (0) PCE 258
goodnight transaction parameter list, SNGS 320	PC_PROGRAM_GRP (BIT) PCE 257
interval control EXEC parameter list, ICUE 174	PC_SYNCONRET_X (BIT) PCE 257
LIFO parameter list and standard DSA, LFM 202	PC_SYSID (0) PCE 258
parameter list definition, XCTRC 556	PC_SYSIDERR_1_EIBRESP2 (BIT) PCE 259
parameter list, LUC 211	PC_SYSIDERR_2_EIBRESP2 (BIT) PCE 259
parameter list, LUM 217	PC_SYSIDERR_EIBRCODE (BIT) PCE 258
subtask management parameter block, SKRQ 307	PC_SYSIDERR_EIBRESP (BIT) PCE 259
table manager parameter list, TMRQ 439	PC_TERMERR_1_EIBRESP2 (BIT) PCE 259
temporary storage EXEC parameter list, TSUE 462	PC_TERMERR_EIBRCODE (BIT) PCE 258
terminal type parameter, TTP 467	PC_TERMERR_EIBRESP (BIT) PCE 259
trace parameter list, TRAP 449	PC_TRANSID (0) PCE 258
transient data EXEC parameter list, TDUE 426	PCE 256
XRF CAVM state manager parameter list, WSS 542	PCSCOBGM (BIT) SSA 329
XRF parameter list, WS2 545	PCUE_BRANCH_ADDRESS (34) PCUES 260
XRF parameter list, WS3 546	PCUE_BRANCH_AMODE (BIT) PCUES 260
XRF takeover parameter area, WST 543	PCUE_BRANCH_CICS 1 PCUES 261
zcp LU sevice manager parameter, LUSDS 218	PCUE_BRANCH_EXECKEY 260
PARITEM (0) EICD1 116	PCUE_BRANCH_USER 1 PCUES 261
PARM (1) EICD1 116	PCUE_COMMAREA_ADDRESS (28) PCUES 260
parms	PCUE_COMMAREA_SIZE (2C) PCUES 260
web interface analyzer parms, WBTD 510	PCUE_CONTROL_BITS (2) PCUES 260
web interface converter parms, WBCDC 505	PCUE_ENTRY_POINT (20) PCUES 260
partition	PCUE_LENGTH_OF_DSECT (0) PCUES 260
partition set definition block, PSD 272	PCUE_LOAD_POINT 260
terminal partition extension, TPE 443	PCUE_LOGICAL_LEVEL (30) PCUES 260
PC_ADDR_LIST (0) PCE 257	PCUE_PROGRAM_LANGUAGE (18) PCUES 260
PC_ADDR0 (0) PCE 257	PCUE_PROGRAM_NAME (10) PCUES 260
PC_ADDR1 (4) PCE 257	PCUE_PROGRAM_SIZE 260
PC_ADDR2 (8) PCE 257	PCUE_TASK_NUMBER (4) PCUES 260
PC_ADDR3 (C) PCE 257	PCUE_TERMINAL_ID (C) PCUES 260
PC_ADDR4 (10) PCE 257	PCUE_TRANSACTION_ID 260
PC_ADDR5 (14) PCE 257	PCUEAMOD (BIT) PCUES 260
PC_ADDR6 (18) PCE 257	PCUECBTE (BIT) PCUES 260
PC_ADDR7 (1C) PCE 257	PCUENOTX (BIT) PCUES 260
PC_ADDR8 (20) PCE 257	PCUES 260
PC_BITS1 (2) PCE 257	PCXDF_ENTRY 2 DUA 96
PC_DATA1 (0) PCE 258	PCXDF_EXIT 2 DUA 96
PC_DATA3 (0) PCE 258	PCXDF_RECOVERY 2 DUA 96
PC_DATA5 (0) PCE 258	PDA 261
PC_DATA6 (0) PCE 258	PDR61WT (494) PDA 264
PC_DATA7 (0) PCE 258	PDR62ICH (208) PDA 263
PC_DATA8 (0) PCE 258	PDR62IMC (204) PDA 263
PC_DATALENGTH (0) PCE 258	PDR62OCH (210) PDA 263
PC_EID (0) PCE 257	PDR62OMC (20C) PDA 263
PC_EIDOPT5 (5) PCE 257	PDR62WT (49C) PDA 264
PC_EIDOPT6 (6) PCE 257	PDRABCDC (1DC) PDA 262
PC_EXIST1 (BIT) PCE 257	PDRABCDO (1D8) PDA 262
PC_EXIST2 (BIT) PCE 257	PDRACMTH (EA) PDA 262
PC_EXIST3 (BIT) PCE 257	PDRACMTH_BGAM (BIT) PDA 262
PC_EXIST4 (BIT) PCE 257	PDRACMTH_BSAM (BIT) PDA 262
PC_EXIST5 (BIT) PCE 257	PDRACMTH_BTAM (BIT) PDA 262
PC_EXIST6 (BIT) PCE 257	PDRACMTH_CONSOLE (BIT) PDA 262
PC_EXIST7 (BIT) PCE 257	PDRACMTH_NOTAPPLIC (BIT) PDA 262
PC_EXIST8 (BIT) PCE 257	PDRACMTH_TCAM (BIT) PDA 262
PC_FUNCT (1) PCE 257	PDRACMTH_TCAMSNA (BIT) PDA 262
PC_GROUP (0) PCE 257	PDRACMTH_VTAM (BIT) PDA 262
PC_INPUTMSGLEN (0) PCE 258	PDRACTID (164) PDA 262
PC_INVREQ_1_EIBRESP2 (BIT) PCE 259	PDRACTNM (198) PDA 262
PC_INVREQ_2_EIBRESP2 (BIT) PCE 259	PDRATTT 261
PC_INVREQ_3_EIBRESP2 (BIT) PCE 259	PDRBAADC (360) PDA 263
PC_INVREQ_4_EIBRESP2 (BIT) PCE 259	PDRBAAPC (354) PDA 263
PC_INVREQ_5_EIBRESP2 (BIT) PCE 259	PDRBADAC (340) PDA 263
PC_INVREQ_EIBRCODE (BIT) PCE 258	PDRBADIC (36C) PDA 264
PC_INVREQ_EIBRESP (BIT) PCE 258	PDRBADPC (33C) PDA 263
PC_LENGERR_1_EIBRESP2 (BIT) PCE 259	PDRBALKC (338) PDA 263
PC_LENGERR_2_EIBRESP2 (BIT) PCE 259	PDRBAPDC (35C) PDA 263
PC_LENGERR_3_EIBRESP2 (BIT) PCE 259	PDRBARAC (334) PDA 263
PC_LENGERR_EIBRCODE (BIT) PCE 258	PDRBAREC (368) PDA 263
PC_LENGERR_EIBRESP (BIT) PCE 258	PDRBARSC (330) PDA 263
PC_LENGTH (0) PCE 258	PDRBATAB (370) PDA 264
PC_LINK (BIT) PCE 257	PDRBATCC (364) PDA 263
PC_NOTAUTH_1_EIBRESP2 (BIT) PCE 259	PDRBATEC (374) PDA 264
PC_NOTAUTH_EIBRESP (BIT) PCE 259	PDRBATPC (358) PDA 263
PC_OK_EIBRCODE (4) PCE 258	PDRBDCPC (350) PDA 263
PC_OK_EIBRESP (BIT) PCE 258	PDRBEGIN 261
PC_OK_EIBRESP2 (BIT) PCE 259	PDRBMIC (2D4) PDA 263
PC_PGMIDERR_1_EIBRESP2 (BIT) PCE 259	PDRBMMC (2D0) PDA 263
PC_PGMIDERR_2_EIBRESP2 (BIT) PCE 259	PDRBMOC (2D8) PDA 263
	PDRBMTC (2DC) PDA 263

"Restricted Materials of IBM"  
Licensed Materials – Property of IBM

PDRBRPAC (34C) PDA 263  
PDRBSPAC (348) PDA 263  
PDRBTPAC (344) PDA 263  
PDRBTRID (F0) PDA 262  
PDRCDTWT (504) PDA 264  
PDRCFACT (308) PDA 263  
PDRCHMDC (3BC) PDA 264  
PDRCHWMA (234) PDA 263  
PDRCHWMB (230) PDA 263  
PDRICIPAD (1A8) PDA 262  
PDRCLASS 261  
PDRCOCCA (250) PDA 263  
PDRCOCCB (248) PDA 263  
PDRCONWT (544) PDA 264  
PDRCPUT (3CC) PDA 264  
PDRDATE (30) PDA 261  
PDRDB2RC (3B8) PDA 264  
PDRDB2TK 261  
PDRDB2WT (54C) PDA 264  
PDRDETT (78) PDA 261  
PDRDETT2 (28) PDA 261  
PDRDHCRG (394) PDA 264  
PDRDHINC (398) PDA 264  
PDRDHRTC (3A0) PDA 264  
PDRDHSTC (39C) PDA 264  
PDRDHTC (3A4) PDA 264  
PDRDHTDL (3A8) PDA 264  
PDRDIST (3C4) PDA 264  
PDRDVTCD (EB) PDA 262  
PDRDWT (3DC) PDA 264  
PDRERROR (1D4) PDA 262  
PDREXWT (42C) PDA 264  
PDRFCAC (2A0) PDA 263  
PDRFCAMC (2AC) PDA 263  
PDRFCBC (29C) PDA 263  
PDRFCDC (2A4) PDA 263  
PDRFCGC (294) PDA 263  
PDRFCPC (298) PDA 263  
PDRFCTC (2A8) PDA 263  
PDRFCTY (DC) PDA 261  
PDRFCWT (43C) PDA 264  
PDRFDDLY (46C) PDA 264  
PDRFDMXT (47C) PDA 264  
PDRFDTCL (474) PDA 264  
PDRGAPPL (8) PDA 261  
PDRGQDLY (48C) PDA 264  
PDRGVPWT (4F4) PDA 264  
PDRICC (2FC) PDA 263  
PDRICDLY (4EC) PDA 264  
PDRICTC (300) PDA 263  
PDRIMSRC (3B4) PDA 264  
PDRIMSWT (534) PDA 264  
PDRIRESP (3C) PDA 261  
PDRIRWT (454) PDA 264  
PDRJ8CPU (40C) PDA 264  
PDRJ8CWT (444) PDA 264  
PDRJNLCT (2F4) PDA 263  
PDRJOBNM (0) PDA 261  
PDRJVMS (55C) PDA 264  
PDRJVMT (554) PDA 264  
PDRJ8CPU (404) PDA 264  
PDRJGWCT (2F8) PDA 263  
PDRJLMDLY (4D4) PDA 264  
PDRJLNM (90) PDA 261  
PDRMFL (1E) PDA 261  
PDRMSCPU (3FC) PDA 264  
PDRMSDSP (3F4) PDA 264  
PDRNATUR (E8) PDA 262  
PDRNATUR\_NOTAPPLIC (BIT) PDA 262  
PDRNATUR\_SESSION (BIT) PDA 262  
PDRNATUR\_TERMINAL (BIT) PDA 262  
PDRNETPX (A0) PDA 261  
PDRNETSX (B4) PDA 261  
PDRNQDLY (484) PDA 264  
PDROTDLY (424) PDA 264  
PDRPC31A (274) PDA 263  
PDRPCCAH (27C) PDA 263  
PDRPCCBH (280) PDA 263  
PDRPCDPL (2F0) PDA 263  
PDRPCLIC (2E0) PDA 263  
PDRPCLOC (2E8) PDA 263  
PDRPCLT (464) PDA 264  
PDRPCLUC (2EC) PDA 263  
PDRPCRAH (284) PDA 263  
PDRPCRBH (288) PDA 263  
PDRPCSAH (28C) PDA 263  
PDRPCSBH (290) PDA 263  
PDRPCUSB (278) PDA 263  
PDRPCUSE (270) PDA 263  
PDRPCXC (2E4) PDA 263  
PDRPGNM (98) PDA 261  
PDRPINMC (1E4) PDA 262  
PDRPNAME (104) PDA 262  
PDRPOUMC (1EC) PDA 262  
PDRPRCID (130) PDA 262  
PDRPRCNT (C0) PDA 261  
PDRPRTYPE (128) PDA 262  
PDRQRCPU (3EC) PDA 264  
PDRQRDLY (41C) PDA 264  
PDRQRDSP (3E4) PDA 264  
PDRRDQWT (53C) PDA 264  
PDRRESP (38) PDA 261  
PDRRLSCP (4CC) PDA 264  
PDRRLSWT (4C4) PDA 264  
PDRRMIS (4B4) PDA 264  
PDRRMIT (4AC) PDA 264  
PDRRMUOW (C4) PDA 261  
PDRRPTCL (D4) PDA 261  
PDRRRSWT (514) PDA 264  
PDRRSYS (BC) PDA 261  
PDRRTRWT (51C) PDA 264  
PDRRRTYPE 262  
PDRRRTYPE\_CONVERSE (BIT) PDA 262  
PDRRRTYPE\_DELIVER (BIT) PDA 262  
PDRRRTYPE\_FREQUENCY (BIT) PDA 262  
PDRRRTYPE\_SYNCPOINT (BIT) PDA 262  
PDRRRTYPE\_TERMINATE (BIT) PDA 262  
PDRRVN (1C) PDA 261  
PDRS8CPU (414) PDA 264  
PDRSAPPL (10) PDA 261  
PDRSC24F (260) PDA 263  
PDRSC24G (25C) PDA 263  
PDRSC24S (258) PDA 263  
PDRSC31F (26C) PDA 263  
PDRSC31G (268) PDA 263  
PDRSC31S (264) PDA 263  
PDRSCCGA (224) PDA 263  
PDRSCCGB (220) PDA 263  
PDRSCUGA (21C) PDA 263  
PDRSCUGB (218) PDA 263  
PDRSEQNO (26) PDA 261  
PDRSESST (E9) PDA 262  
PDRSESST\_IRC (BIT) PDA 262  
PDRSESST\_IRC\_XCF (BIT) PDA 262  
PDRSESST\_IRC\_XM (BIT) PDA 262  
PDRSESST\_LU61 (BIT) PDA 262  
PDRSESST\_LU62\_PARA (BIT) PDA 262  
PDRSESST\_LU62\_SING (BIT) PDA 262  
PDRSESST\_NOTAPPLIC (BIT) PDA 262  
PDRSID (18) PDA 261  
PDRSINMC (1F4) PDA 262  
PDRSOBDE (3B0) PDA 264  
PDRSOBEN (3AC) PDA 264  
PDRSOUUMC (1FC) PDA 262  
PDRSOWT (52C) PDA 264  
PDRSPPC (304) PDA 263  
PDRSRTKY (26) PDA 261  
PDRSRVCL (CC) PDA 261  
PDRSUST (3D4) PDA 264  
PDRSYDLY (524) PDA 264  
PDRSYNCT (4BC) PDA 264  
PDRSYWTT (50C) PDA 264  
PDRSZACT (30C) PDA 263  
PDRSZATO (324) PDA 263  
PDRSZCIN (320) PDA 263  
PDRSZCOT (31C) PDA 263  
PDRSZRCT (310) PDA 263  
PDRSZRTO (328) PDA 263  
PDRSZSCT (314) PDA 263  
PDRSZTCT (318) PDA 263  
PDRSZTOT (32C) PDA 263  
PDRSZWT (4A4) PDA 264  
PDRTAC (214) PDA 263  
PDRTCBAC (3C0) PDA 264  
PDRTCHC (1E8) PDA 262  
PDRTCI2C (1F8) PDA 262

PDRTCLSN (88) PDA 261  
 PDRTCO1C (1F0) PDA 262  
 PDRTCO2C (200) PDA 262  
 PDRTCWT (434) PDA 264  
 PDRTDGC (2B0) PDA 263  
 PDRTDPC (2B4) PDA 263  
 PDRTDRC (2B8) PDA 263  
 PDRTDTC (2BC) PDA 263  
 PDRTDWT (45C) PDA 264  
 PDRTTECNM (EC) PDA 262  
 PDRTTEID (60) PDA 261  
 PDRTTEINF (E8) PDA 262  
 PDRTGPID (1B8) PDA 262  
 PDRTIME (34) PDA 261  
 PDRTPRI 261  
 PDRTRFL1 (E0) PDA 261  
 PDRTRFL1\_BRDG (BIT) PDA 261  
 PDRTRFL1\_DEST (BIT) PDA 261  
 PDRTRFL1\_NONE (BIT) PDA 261  
 PDRTRFL1\_SURR (BIT) PDA 261  
 PDRTRFL1\_TERM (BIT) PDA 261  
 PDRTRFL2 (E1) PDA 262  
 PDRTRFL2\_BRIDGE (BIT) PDA 262  
 PDRTRFL2\_DPL (BIT) PDA 262  
 PDRTRFL2\_MIRROR (BIT) PDA 262  
 PDRTRFL2\_ONC\_RPC (BIT) PDA 262  
 PDRTRFL2\_RUN\_TRAN (BIT) PDA 262  
 PDRTRFL2\_SYSTEM (BIT) PDA 262  
 PDRTRFL2\_WEB (BIT) PDA 262  
 PDRTRFL3 (E2) PDA 262  
 PDRTRFL3\_NTIFY (BIT) PDA 262  
 PDRTRFL3\_NTIFY\_COMP (BIT) PDA 262  
 PDRTRFL3\_RPT (BIT) PDA 262  
 PDRTRFL4 (E3) PDA 262  
 PDRTRFL4\_CICS\_KEY (BIT) PDA 262  
 PDRTRFL4\_DYNAMIC (BIT) PDA 262  
 PDRTRFL4\_ISOLATE\_NO (BIT) PDA 262  
 PDRTRFL4\_LOC\_BELOW (BIT) PDA 262  
 PDRTRFL5 (E4) PDA 262  
 PDRTRFL6 (E5) PDA 262  
 PDRTRFL7 (E6) PDA 262  
 PDRTRFL8 (E7) PDA 262  
 PDRTRFL8\_COMMIT (BIT) PDA 262  
 PDRTRFL8\_INDBT\_FAIL (BIT) PDA 262  
 PDRTRFL8\_INDOUBT\_ACT (BIT) PDA 262  
 PDRTRFL8\_RO\_FAILURE (BIT) PDA 262  
 PDRTRFL8\_UOW\_SHUNT (BIT) PDA 262  
 PDRTRFL8\_UOW\_UNSHUNT (BIT) PDA 262  
 PDRTRFL8\_WAIT\_NO (BIT) PDA 262  
 PDRTRFLG (E0) PDA 261  
 PDRTRID (5C) PDA 261  
 PDRTRSN (80) PDA 261  
 PDRTRTY (6C) PDA 261  
 PDRTSGC (2C0) PDA 263  
 PDRTSHWT (4FC) PDA 264  
 PDRTSPAC (2C4) PDA 263  
 PDRTSPMC (2C8) PDA 263  
 PDRTSTC (2CC) PDA 263  
 PDRTSWT (44C) PDA 264  
 PDRUEND (564) PDA 264  
 PDRURID (F4) PDA 262  
 PDRUSHWA (22C) PDA 263  
 PDRUSHWB (228) PDA 263  
 PDRUSID (64) PDA 261  
 PDRUTSOA (240) PDA 263  
 PDRUTSOB (238) PDA 263  
 PDRWBCIN (37C) PDA 264  
 PDRWBCOT (384) PDA 264  
 PDRWBRCT (378) PDA 264  
 PDRWBRPR (38C) PDA 264  
 PDRWBRPW (390) PDA 264  
 PDRWBSCT (380) PDA 264  
 PDRWBTC (388) PDA 264  
 PDRWCEWT (4E4) PDA 264  
 PDRWTXWT (4DC) PDA 264  
 PEP 265  
 PEP\_COM\_ABPROGRAM (64) PEP 265  
 PEP\_COM\_BASESPACE 1 PEP 266  
 PEP\_COM\_CDSA\_HIT 1 PEP 266  
 PEP\_COM\_CICS\_KEY 1 PEP 266  
 PEP\_COM\_COMPONENT (1) PEP 265  
 PEP\_COM\_CURRENT\_ABEND\_CODE (4) PEP 265  
 PEP\_COM\_DEBUG (64) PEP 265  
 PEP\_COM\_ECDSA\_HIT 1 PEP 266  
 PEP\_COM\_ERDSA\_HIT 1 PEP 266  
 PEP\_COM\_EUDSA\_HIT 1 PEP 266  
 PEP\_COM\_FUNCTION (0) PEP 265  
 PEP\_COM\_INT (BC) PEP 265  
 PEP\_COM\_KEY (B4) PEP 265  
 PEP\_COM\_NO\_HIT 1 PEP 266  
 PEP\_COM\_ORIGINAL\_ABEND\_CODE (8) PEP 265  
 PEP\_COM\_PADDING (B7) PEP 265  
 PEP\_COM\_PSW (6C) PEP 265  
 PEP\_COM\_RDSA\_HIT 1 PEP 266  
 PEP\_COM\_REGISTERS (74) PEP 265  
 PEP\_COM\_RESERVED (3) PEP 265  
 PEP\_COM\_RETURN\_CODE (B8) PEP 265  
 PEP\_COM\_RETURN\_DISABLE 4 PEP 266  
 PEP\_COM\_RETURN\_OK 4 PEP 266  
 PEP\_COM\_SPACE (B6) PEP 265  
 PEP\_COM\_STANDARD (0) PEP 265  
 PEP\_COM\_STORAGE\_HIT (B5) PEP 265  
 PEP\_COM\_SUBSPACE 1 PEP 266  
 PEP\_COM\_UDSA\_HIT 1 PEP 266  
 PEP\_COM\_USER\_KEY 1 PEP 266  
 PEP\_COM\_USERS\_EIB (C) PEP 265  
 performance  
     monitoring performance data record, PDA 261  
 persistent  
     persistent sessions control blocks, ZGRP 600  
 PFT 266  
 PGA 268  
 PGA16BIT (BIT) PGA 268  
 PGAC (0) PGACC 269  
 PGAC\_ASSEMBLER 1 PGACC 270  
 PGAC\_C370 1 PGACC 270  
 PGAC\_CEDF\_NO 1 PGACC 270  
 PGAC\_CEDF\_STATUS (12) PGACC 269  
 PGAC\_CEDF\_YES 1 PGACC 270  
 PGAC\_CICS\_KEY 1 PGACC 270  
 PGAC\_COBOL 1 PGACC 270  
 PGAC\_CONCURRENCY (2A) PGACC 270  
 PGAC\_DATA\_LOCATION (13) PGACC 269  
 PGAC\_DPLSUBSET 1 PGACC 270  
 PGAC\_DYNAMIC\_NO 1 PGACC 270  
 PGAC\_DYNAMIC\_STATUS (29) PGACC 270  
 PGAC\_DYNAMIC\_YES 1 PGACC 270  
 PGAC\_EXECUTION\_KEY (14) PGACC 269  
 PGAC\_EXECUTION\_SET (17) PGACC 269  
 PGAC\_FULLAPI 1 PGACC 270  
 PGAC\_JVM (2B) PGACC 270  
 PGAC\_JVM\_CLASS\_DATA (2E) PGACC 270  
 PGAC\_JVM\_CLASS\_LEN (2C) PGACC 270  
 PGAC\_JVM\_DEBUG (12E) PGACC 270  
 PGAC\_JVM\_DEBUG\_NO 1 PGACC 270  
 PGAC\_JVM\_DEBUG\_YES 1 PGACC 270  
 PGAC\_JVM\_NO 1 PGACC 270  
 PGAC\_JVM\_YES 1 PGACC 270  
 PGAC\_LANGUAGE (11) PGACC 269  
 PGAC\_LE370 1 PGACC 270  
 PGAC\_LOAD\_ATTRIBUTE (15) PGACC 269  
 PGAC\_LOCATION\_ANY 1 PGACC 270  
 PGAC\_LOCATION\_BELOW 1 PGACC 270  
 PGAC\_LPA\_NO 1 PGACC 270  
 PGAC\_LPA\_YES 1 PGACC 270  
 PGAC\_MODEL\_NAME (9) PGACC 269  
 PGAC\_MODULE\_TYPE (8) PGACC 269  
 PGAC\_PLI 1 PGACC 270  
 PGAC\_PROGRAM (0) PGACC 269  
 PGAC\_QUASIRENT 1 PGACC 270  
 PGAC\_RELOAD 1 PGACC 270  
 PGAC\_REMOTE\_PROGID (1C) PGACC 269  
 PGAC\_REMOTE\_SYSID (18) PGACC 269  
 PGAC\_REMOTE\_TRANSID (24) PGACC 269  
 PGAC\_RESIDENT 1 PGACC 270  
 PGAC\_RETURN\_CODE (28) PGACC 270  
 PGAC\_RETURN\_DONT\_DEFINE\_PROGRAM 1 PGACC 270  
 PGAC\_RETURN\_INFORMATION (9) PGACC 269  
 PGAC\_RETURN\_OK 1 PGACC 270  
 PGAC\_REUSABLE 1 PGACC 270  
 PGAC\_THREADSAFE 1 PGACC 270  
 PGAC\_TRANSIENT 1 PGACC 270  
 PGAC\_TYPE\_MAPSET 1 PGACC 270  
 PGAC\_TYPE\_PARTITIONSET 1 PGACC 270  
 PGAC\_TYPE\_PROGRAM 1 PGACC 270  
 PGAC\_USE\_LPA\_COPY (16) PGACC 269

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PGAC\_USER\_KEY 1 PGACC 270  
 PGACC 269  
 PGAEUS2 (0) PGA 268  
 PGAEAUSE (1) PGA 268  
 PGAEND (BIT) PGA 268  
 PGAERASE (BIT) PGA 268  
 PGAFF (BIT) PGA 268  
 PGAFLAG (2) PGA 268  
 PGAFMHYS (BIT) PGA 268  
 PGALEN (BIT) PGA 268  
 PGAML1 (BIT) PGA 268  
 PGAOFBYS (BIT) PGA 268  
 PGAWCC (3) PGA 268  
 PGAWSFYS (BIT) PGA 268  
 PGG\_AUTO\_ATTEMPTS 271  
 PGG\_AUTO\_FAILURES (10) PGGPC 271  
 PGG\_AUTO\_REJECTS (C) PGGPC 271  
 PGG\_DCL\_ID 2 PGGPC 271  
 PGG\_DCL\_VERSION 1 PGGPC 271  
 PGG\_STATS\_ID (2) PGGPC 271  
 PGG\_STATS\_LENGTH (0) PGGPC 271  
 PGG\_STATS\_VERSION (4) PGGPC 271  
 PGGPC 271  
 PLB (0) APLI 8  
 PLB\_ASSEMBLER (BIT) APLI 8  
 PLB\_BLL\_CELL\_DISP (40) APLI 9  
 PLB\_C370 (BIT) APLI 8  
 PLB\_CEE\_ENABLED (BIT) APLI 8  
 PLB\_CEE\_EXECUTABLE (BIT) APLI 8  
 PLB\_COBOL2 (BIT) APLI 8  
 PLB\_COMPATIBILITY (BIT) APLI 8  
 PLB\_DATALOC\_ANY (BIT) APLI 8  
 PLB\_DYING 8  
 PLB\_ENQ\_LOCK (BIT) APLI 8  
 PLB\_ENTRY\_POINT (14) APLI 8  
 PLB\_EXECKEY\_CICS (BIT) APLI 8  
 PLB\_GLOBAL\_OPTIONS (30) APLI 9  
 PLB\_HOTPOOL (BIT) APLI 8  
 PLB\_JAVA (BIT) APLI 8  
 PLB\_JVM (BIT) APLI 8  
 PLB\_JVM\_CLASS (0) APLI 9  
 PLB\_JVM\_CLASS\_DATA (2) APLI 9  
 PLB\_JVM\_CLASS\_LENGTH (0) APLI 9  
 PLB\_JVM\_CLASS\_PTR (10) APLI 8  
 PLB\_JVM\_DEBUG (BIT) APLI 8  
 PLB\_LANG1 (28) APLI 8  
 PLB\_LANG2 (29) APLI 8  
 PLB\_LANGUAGE (28) APLI 8  
 PLB\_LANGUAGE\_KNOWN (BIT) APLI 8  
 PLB\_LOAD\_POINT (10) APLI 8  
 PLB\_MAIN\_CLASS\_LEN (14) APLI 8  
 PLB\_MAIN\_CLASS\_PTR (10) APLI 8  
 PLB\_MEMID 9  
 PLB\_MIXED\_LANGUAGE (BIT) APLI 8  
 PLB\_OSCOBOL (BIT) APLI 8  
 PLB\_OSCOBOL\_VERSION (42) APLI 9  
 PLB\_PGMINFO2 (1C) APLI 8  
 PLB\_PLI (BIT) APLI 8  
 PLB\_PRGINLEN (1C) APLI 8  
 PLB\_PROGRAM\_LENGTH (18) APLI 8  
 PLB\_PROGRAM\_MODE (E) APLI 8  
 PLB\_PROGRAM\_NAME (0) APLI 8  
 PLB\_RWA24 (24) APLI 8  
 PLB\_RWA31 (20) APLI 8  
 PLB\_RWA31\_ABOVE 8  
 PLB\_RWA31\_LEN (21) APLI 8  
 PLB\_SUNDRY\_FLAGS (C) APLI 8  
 PLB\_TGT\_ADDRESS (3C) APLI 9  
 PLB\_TGT\_SIZE (38) APLI 9  
 PLB\_TGT\_WS\_SIZE (3A) APLI 9  
 PLB\_USE\_COUNT (8) APLI 8  
 PLB\_USER\_OPTIONS (34) APLI 9  
 PLB\_USERS\_LANGUAGE 8  
 PLIINIT (BIT) CSA 57  
 plist  
 global user exit plist, UEPAR 476  
 task related user exit plist, UEPAR 473  
 PLIST\_PTR 556  
 PLT 271  
 PLTEL (BIT) PLT 271  
 PLTPID (0) PLT 271  
 POINT\_PTR (10) DUA 93  
 points

points (continued)  
 XRF entry points table, WSN 540  
 pool  
 fepi pool statistics, A22 27  
 LSR pool statistics, A08 17  
 POOLINPR (BIT) SPI 324  
 POSTED 104  
 PPFDYNA (BIT) PFT 266  
 PPFED (0) PFT 266  
 PPFENL (8) PFT 266  
 PPFEXAT (BIT) PFT 266  
 PPFEXNO (BIT) PFT 266  
 PPFEXTOP (11) PFT 266  
 PPFACKL 267  
 PPFFLAGS 266  
 PPFJINF (10) PFT 266  
 PPFMDLIO (BIT) PFT 266  
 PPFMDVNO (BIT) PFT 267  
 PPFMDVSP (23) PFT 267  
 PPFMDVTM (BIT) PFT 267  
 PPFMFMA (BIT) PFT 266  
 PPFMFMD (BIT) PFT 266  
 PPFMFME (BIT) PFT 266  
 PPFMIMIO (BIT) PFT 266  
 PPFMIOAJ (10) PFT 266  
 PPFMJLI (BIT) PFT 266  
 PPFMJLO (BIT) PFT 266  
 PPFMLRQ (BIT) PFT 266  
 PPFMOCTL 267  
 PPFMODEN 267  
 PPFMOFLG 267  
 PPFMOMSG 267  
 PPFMOONW 267  
 PPFMPCOP (17) PFT 267  
 PPFMPCRQ (15) PFT 267  
 PPFMPCTL 267  
 PPFMPFLG 267  
 PPFMPMSG 267  
 PPFMPONW 267  
 PPFMSJID (13) PFT 267  
 PPFNAME (0) PFT 266  
 PPFNEPC (14) PFT 267  
 PPFOPT2 (12) PFT 267  
 PPFPRTCM 267  
 PPFSCS (25) PFT 267  
 PPFSCSA (BIT) PFT 267  
 PPFSTRAQ (BIT) PFT 267  
 PPFTRTO (24) PFT 267  
 PPFATYPE (A) PFT 266  
 PPFUCTRN (BIT) PFT 267  
 prefix  
 terminal control table prefix, TCTFX 359  
 PRESUMED\_ABORT 0 TCTTE 411  
 PRESUMED\_NOTHING 0 TCTTE 411  
 printer  
 printer spooling subsystem, PSP 275  
 process  
 XRF process block, WDG 518  
 XRF process block, WXB 554  
 product  
 SMF header and SMF product section, MNSMF 235  
 SMF header and SMF product section, SMF 311  
 profile  
 profile table entry, PFT 266  
 PROG\_CHK (BIT) DUA 93  
 program  
 node error program commarea, NEPCA 245  
 program control EXEC argument list, PCE 256  
 program control user exits DSECT, PCUES 260  
 program error program commarea, PEP 265  
 program language block, APLI 8  
 program list table entry, PLT 271  
 program manager autoinstall commarea, PGACC 269  
 program manager statistics, PGGPC 271  
 system initialisation program, SIP 290  
 transaction restart program commarea, XMRSR 568  
 user exit program block, UEPB 497  
 user exit program link, UEPL 498  
 PROGRAM\_ATTRIBUTE (1A) DCR 68  
 PROGRAM\_LENGTH (8) DCR 68  
 PROGRAM\_NAME (0) DCR 68  
 PROGRAM\_TYPE (18) DCR 68  
 PROGRAM\_USAGE (19) DCR 68

programs  
 loader statistics for programs, LDRDS 201  
 PROTECT 1 TMRQ 440  
 prototype  
 MGM format of prototype messages, MGM 230  
 PRSS\_BID (99) ZGRP 602  
 PRSS\_BIS (85) ZGRP 602  
 PRSS\_CV29 (0) ZGRP 601  
 PRSS\_CV29\_DATA (0) ZGRP 601  
 PRSS\_FMH5 (5B) ZGRP 601  
 PSD 272  
 PSDAM12 1 PSD 273  
 PSDAM16 272  
 PSDCELLH (1C) PSD 273  
 PSDCELLW (1A) PSD 273  
 PSDC160 1 PSD 273  
 PSDCICSL (0) PSD 272  
 PSDCICSV (1C) PSD 272  
 PSDCIERR (BIT) PSD 272  
 PSDCIFLG (4) PSD 272  
 PSDCINME (2) PSD 272  
 PSDMPSFX (5) PSD 272  
 PSDPAM (4) PSD 272  
 PSDPBUFH (6) PSD 273  
 PSDPBUFV (8) PSD 273  
 PSDPCICS (0) PSD 272  
 PSDPCR 1 PSD 273  
 PSDPCRT (0) PSD 272  
 PSDPFLG (5) PSD 272  
 PSDPID (3) PSD 272  
 PSDPL (0) PSD 272  
 PSDPNUM (16) PSD 272  
 PSDPPROT 273  
 PSDPSERR (BIT) PSD 272  
 PSDPSETL (0) PSD 272  
 PSDPSFLG (1D) PSD 272  
 PSDPSL 272  
 PSDPSNME (E) PSD 272  
 PSDPSSF (15) PSD 272  
 PSDPTYPE (2) PSD 272  
 PSDSCRC (18) PSD 273  
 PSDSCRR (16) PSD 273  
 PSDSLFID (6) PSD 272  
 PSDSTART (0) PSD 272  
 PSDUACOL (18) PSD 272  
 PSDUALNE (1A) PSD 272  
 PSDUMCHR 1 PSD 273  
 PSDUMPEL 272  
 PSDVIEWC (C) PSD 273  
 PSDVIEWH (E) PSD 273  
 PSDVIEWR (A) PSD 273  
 PSDVIEWW (10) PSD 273  
 PSDWDC (14) PSD 273  
 PSDWDR (12) PSD 273  
 PSG 273  
 PSGACBL (C) PSG 273  
 PSGCLAS (40) PSG 274  
 PSGCLSCT (18) PSG 273  
 PSGCRB 274  
 PSGCSAA (34) PSG 274  
 PSGCXPB 274  
 PSGDDAT (7B) PSG 274  
 PSGDTIM (7F) PSG 274  
 PSGEDAT (83) PSG 274  
 PSGETIM (87) PSG 274  
 PSGEXLL (10) PSG 273  
 PSGFE (2C) PSG 273  
 PSGFECH 274  
 PSGFETR (BIT) PSG 274  
 PSGFLGS (3A) PSG 274  
 PSGIACT (3A) PSG 274  
 PSGID 273  
 PSGIDENT (8B) PSG 274  
 PSGIDIP (3E) PSG 274  
 PSGIDIS (3C) PSG 274  
 PSGIDPP (3F) PSG 274  
 PSGIDSN (A0) PSG 274  
 PSGIENA (3B) PSG 274  
 PSGITID (93) PSG 274  
 PSGITRM (3D) PSG 274  
 PSGJFL (28) PSG 273  
 PSGNFYE (95) PSG 274  
 PSGNXTK (24) PSG 273  
 PSGOFF 1 PSG 274  
 PSGON 1 PSG 274  
 PSGOPNCT 273  
 PSGOSLC (38) PSG 274  
 PSGRPLL (E) PSG 273  
 PSGRRB 274  
 PSGSCRC (62) PSG 274  
 PSGSCRR (5F) PSG 274  
 PSGSCRS (5C) PSG 274  
 PSGSER (78) PSG 274  
 PSGSERC (6C) PSG 274  
 PSGSERS (69) PSG 274  
 PSGSLR (6F) PSG 274  
 PSGSOR (65) PSG 274  
 PSGSPI (72) PSG 274  
 PSGSTAT 274  
 PSGSTD (75) PSG 274  
 PSGSYSID (41) PSG 274  
 PSGTHRD (28) PSG 273  
 PSGTRB (48) PSG 274  
 PSGWRB (4C) PSG 274  
 PSGXIDK (8B) PSG 274  
 PSP 275  
 PSPALPG (70) PSP 276  
 PSPBASE (BIT) PSP 275  
 PSPCBOPT 275  
 PSPCLASS (E) PSP 276  
 PSPCOPY (A) PSP 275  
 PSPDATA (BIT) PSP 275  
 PSPDATA (24) PSP 276  
 PSPDERR (BIT) PSP 275  
 PSPDERRP (BIT) PSP 275  
 PSPDHOLD (BIT) PSP 275  
 PSPDISP 276  
 PSPDISPS (9) PSP 275  
 PSPDKEP (BIT) PSP 275  
 PSPDLVE (BIT) PSP 275  
 PSPDRDY (BIT) PSP 275  
 PSPDRES (BIT) PSP 275  
 PSPDWE (BIT) PSP 275  
 PSPEDPG (6C) PSP 276  
 PSPESCP (38) PSP 276  
 PSPFDATE (40) PSP 276  
 PSPFOOT (64) PSP 276  
 PSPFORMS (14) PSP 276  
 PSPHEAD (60) PSP 276  
 PSPHLPI (BIT) PSP 275  
 PSPLNG (28) PSP 276  
 PSPLNG 2 PSP 276  
 PSPLNLG (12) PSP 276  
 PSPMAP (30) PSP 276  
 PSPMAPO (BIT) PSP 275  
 PSPMLNG (2C) PSP 276  
 PSPMPST (18) PSP 276  
 PSPNCLSS (11) PSP 276  
 PSPNMES (BIT) PSP 275  
 PSPNODE (3C) PSP 276  
 PSPOPT1 275  
 PSPOPT2 (3) PSP 275  
 PSPOPT3 (4) PSP 275  
 PSPOPT4 275  
 PSPOPT5 (6) PSP 275  
 PSPOTDES (74) PSP 276  
 PSPPACT1 276  
 PSPPACT2 (56) PSP 276  
 PSPPALGN (BIT) PSP 276  
 PSPPALN (BIT) PSP 276  
 PSPPAUS (BIT) PSP 276  
 PSPPCONF (BIT) PSP 276  
 PSPPDISC (BIT) PSP 276  
 PSPPDISP (54) PSP 276  
 PSPPGSZ 276  
 PSPPINQ 276  
 PSPPIUUSE (BIT) PSP 276  
 PSPPPOOS (BIT) PSP 276  
 PSPPPAUD (BIT) PSP 276  
 PSPPPRNT (BIT) PSP 276  
 PSPPRI (B) PSP 275  
 PSPPRNM (58) PSP 276  
 PSPPSETU (BIT) PSP 276  
 PSPPSRT (BIT) PSP 276  
 PSPPSTOP (BIT) PSP 276  
 PSPPSTPC (BIT) PSP 276



PSPPSTPN (BIT) PSP 276  
 PSPPWAIT (BIT) PSP 276  
 PSPQANY (BIT) PSP 275  
 PSPQCMD (BIT) PSP 275  
 PSPQLST (BIT) PSP 275  
 PSPQNTFY (BIT) PSP 275  
 PSPQPRTR (BIT) PSP 275  
 PSPQPUN (BIT) PSP 275  
 PSPQRDR (BIT) PSP 275  
 PSPQUAL (1) PSP 275  
 PSPQUE 275  
 PSPQXMIT (BIT) PSP 275  
 PSPR327 (BIT) PSP 275  
 PSPRAPA (BIT) PSP 275  
 PSPRASA (BIT) PSP 275  
 PSPRBMS (BIT) PSP 275  
 PSPRCONT (BIT) PSP 275  
 PSPRDITM (BIT) PSP 275  
 PSPREC 276  
 PSPREPBF (48) PSP 276  
 PSPREPLN (44) PSP 276  
 PSPREPNM (20) PSP 276  
 PSPREQ (0) PSP 275  
 PSPRESC (BIT) PSP 275  
 PSPRESM (BIT) PSP 276  
 PSPREST (BIT) PSP 275  
 PSPRFAIL (BIT) PSP 275  
 PSPRFTN (BIT) PSP 275  
 PSPRGIN (BIT) PSP 275  
 PSPRHDN (BIT) PSP 275  
 PSPRINP (BIT) PSP 275  
 PSPRLOGL (BIT) PSP 275  
 PSPRMCC (BIT) PSP 275  
 PSPRNCC (BIT) PSP 275  
 PSPRNCV (BIT) PSP 275  
 PSPRNONM (BIT) PSP 275  
 PSPRNSEP (BIT) PSP 275  
 PSPROUT (BIT) PSP 275  
 PSPRPHYS (BIT) PSP 275  
 PSPRRESM (BIT) PSP 275  
 PSPRSCS (BIT) PSP 275  
 PSPRSEP (BIT) PSP 275  
 PPSDEL 1 PSP 276  
 PPSRES 1 PSP 276  
 PSPSTPG (68) PSP 276  
 PSPSTPR (BIT) PSP 276  
 PSPTALT 1 PSP 276  
 PSPTBLD 1 PSP 276  
 PSPTCLSE 1 PSP 276  
 PSPTDISL 1 PSP 276  
 PSPTDLTE 1 PSP 276  
 PSPTENBL 1 PSP 276  
 PSPTENBR 1 PSP 276  
 PSPTGNXT 1 PSP 276  
 PSPTINIT 1 PSP 276  
 PSPTITLE (5C) PSP 276  
 PSPTLOC 1 PSP 276  
 PSPTOKEN (1C) PSP 276  
 PSPTOPN 1 PSP 276  
 PSPTPNT 1 PSP 276  
 PSPTPRT 1 PSP 276  
 PSPTREAD 1 PSP 276  
 PSPTREM 1 PSP 276  
 PSPTRETV 1 PSP 276  
 PSPTSTBR 1 PSP 276  
 PSPTTERM 1 PSP 276  
 PSPTTRAN 1 PSP 276  
 PSPTWRT 1 PSP 276  
 PSPTWTIN 1 PSP 276  
 PPSUSDTA (4C) PSP 276  
 PPSUSRID (34) PSP 276  
 PPSWCHCK (BIT) PSP 275  
 PPSYMES (BIT) PSP 275  
 PSW\_RECORD (0) DCR 67  
 PSWSAVE (4C) DUA 93  
 PSWSAVE2 93  
 PTNDX (88) SPI 324  
 PTUSE (9C) SPI 324

purpose

DL/I general purpose macro, CTXPA 63  
 DL/I general purpose macro, CWE 64  
 DL/I general purpose macro, DLP 80

purpose (continued)

DL/I general purpose macro, RPD 279  
 DL/I general purpose macro, RSB 280, 283

**Q**

queue

shared ts queue server buffer statistics, XQS2D 570  
 shared ts queue server cf statistics, XQS1D 569  
 shared ts queue server storage statistics, XQS3D 571  
 skp work queue element, SKW 308  
 XRF message queue anchor block, WMM 526  
 XRF message request queue, WMQ 527  
 XRF tracking queue organiser, ZXQOD 609

**R**

R (0) ZCCPS 578  
 RCLOCK (50) TCTWA 414  
 RCS 277  
 RCS\_AID\_CHAIN (10) RCS 277  
 RCS\_RECORD\_COUNT (C) RCS 277  
 RCS\_STP\_END\_EVENT (BIT) RCS 277  
 RCS\_WARM\_KEYPOINT\_EVENT (BIT) RCS 277  
 RCSCPPST 277  
 RCSTATIC (0) RCS 277  
 RCSTATLN 277  
 read  
 table manager read lock block, TMELD 438  
 receive  
 receive any control element, TCPRA 357  
 record  
 BMS message control record DSECT, MCR 228  
 file control log record format, FCLGC 135  
 monitoring exception record, MNEXC 233  
 monitoring performance data record, PDA 261  
 statistics record identifiers, STI 331  
 transaction dump record formats, DCR 66  
 XRF CAVM state manager record description, WSM 538  
 XRF message record, WMR 528  
 XRF tracking record header, ZXTR 610  
 RECORD\_HEADER (0) DCR 66  
 recovery  
 extended recovery facility, XRH 572  
 interregion session recovery, IRRDS 193  
 recovery control static storage, RCS 277  
 recovery manager domain inline access, RMUXC 279  
 recovery manager global statistics, RMG 278  
 system recovery error data, SRED 328  
 system recovery table, SRT 329  
 RECOVERY\_PROTOCOL (0) TCTTE 391  
 region  
 cross region block, CRB 51  
 REGSAVE (C) DUA 93  
 related  
 task related user exit plist, UEPAR 473  
 RELIABLE 0 TCTTE 411  
 RELTTIOA (BIT) TEPKA 431  
 REMEMBERED\_STATE (0) TCTTE 389  
 remote  
 remote install work element, TCRWE 358  
 REMOTE\_ABEND (BIT) DUA 93  
 request  
 cfdt server request statistics, CFS8D 48  
 file request anchor block, FRABC 167  
 file request thread element, FRTEC 170  
 function request shipping message, IMSDS 186  
 function shipping request control block, XFR 563  
 service request block, SRB 326  
 XRF message manager request, WMS 529  
 XRF message request queue, WMQ 527  
 RES1 (0) DUA 94  
 RESFLD1 23  
 RESFLD2 (1C) A17 23  
 resource  
 cics/db2 resource statistics, D2RDS 108  
 RESOURCE\_MODULE (20) APSTG 10  
 RESOURCE\_MODULE\_ENTRY\_POINT (28) APSTG 10  
 RESOURCE\_NAME (18) APSTG 10  
 RESOURCE\_STATE\_MAP (18) APSTG 10  
 RESOURCE\_STATUS (2C) APSTG 10  
 resources

resources (continued)  
 file control shared resources, FCTSR 149  
 restart  
 transaction restart program commarea, XMRSC 568  
 RESTORE\_PLIST\_POINTERS (0) ZGRP 603  
 RESYNC\_TYPE (0) TCTTE 391  
 RETCODE8 103  
 RETRY\_TIME\_TO\_GO (AE) XCTRC 557  
 RLENTY (BIT) TTP 469  
 RLHELD 1 TMRQ 440  
 RLNOTED 1 TMRQ 440  
 RMC\_COMMON (0) TCTTE 389  
 RMC\_COMMON\_LOGNAME (0) TCTTE 389  
 RMC\_IRC\_SPECIFIC (0) TCTTE 392  
 RMC\_LU61\_SPECIFIC (0) TCTTE 393  
 RMC\_LU62\_SPECIFIC (0) TCTTE 393  
 RMC\_SHARED (0) TCTTE 394  
 RMC\_SHARED\_IRC61 (0) TCTTE 390  
 RMC\_SHARED\_IRC62 (0) TCTTE 391  
 RMC\_SHARED\_LU6162 (0) TCTTE 391  
 RMG 278  
 RMGCSHIN (20) RMG 278  
 RMGCSHRO (38) RMG 278  
 RMGCSHTI (24) RMG 278  
 RMGCSHTR (3C) RMG 278  
 RMGDVERS (4) RMG 278  
 RMGEND (BIT) RMG 278  
 RMGIAFNW (4C) RMG 278  
 RMGIAFOP (50) RMG 278  
 RMGIAFOT (54) RMG 278  
 RMGIAFTI (48) RMG 278  
 RMGIAFTR (44) RMG 278  
 RMGIAMIS (58) RMG 278  
 RMGID (2) RMG 278  
 RMGIDE (BIT) RMG 278  
 RMGLEN 278  
 RMGNW61 (60) RMG 278  
 RMGNWMRO (64) RMG 278  
 RMGNWOTH (6C) RMG 278  
 RMGNWRMI (68) RMG 278  
 RMGNWTD (5C) RMG 278  
 RMGRESYN (10) RMG 278  
 RMGSYBWD (C) RMG 278  
 RMGSYFWD 278  
 RMGTSHIN (14) RMG 278  
 RMGTSHRO (2C) RMG 278  
 RMGTSHTI (18) RMG 278  
 RMGTSHTR (30) RMG 278  
 RMGVERS (BIT) RMG 278  
 RMSY\_BAD\_RMLN\_RESPONSE 2 TIE 434  
 RMSY\_ENTRY 2 TIE 434  
 RMSY\_EXIT 2 TIE 434  
 RMSY\_RMDMM\_INQ\_STARTUP\_FAIL 2 TIE 434  
 RMSY\_RMI\_AFTER 2 TIE 434  
 RMSY\_RMI\_BEFORE 2 TIE 434  
 RMSY\_RMLN\_TERMINATE\_FAIL 2 TIE 434  
 RMSY\_RMUWM\_INQ\_UOW\_FAIL 2 TIE 434  
 RMSY\_UNEXPECTED\_RMLN\_REASON 2 TIE 434  
 RMSY\_XMIQM\_INQ\_TRAN\_FAIL 2 TIE 434  
 RMUX\_CLIENT\_STATES (70) RMUXC 279  
 RMUX\_FLAGS 279  
 RMUX\_INLINE\_ACCESS\_STRUCTURE (0) RMUXC 279  
 RMUX\_LOCAL\_UOW\_ID (0) RMUXC 279  
 RMUX\_MAX\_RO 1 RMUXC 279  
 RMUX\_REMOTE\_ID\_LENGTH (8) RMUXC 279  
 RMUX\_REMOTE\_ID\_LU\_NAME\_LENGTH (9) RMUXC 279  
 RMUX\_REMOTE\_UOW\_ID (8) RMUXC 279  
 RMUX\_WORK\_TOKEN\_ARRAY (24) RMUXC 279  
 RMUXC 279  
 route  
 user supplied route list entry, URL 501  
 RPD 279  
 RPDFLG1 (2) RPD 279  
 RPDFLG2 (3) RPD 279  
 RPDIREND (0) RPD 279  
 RPDLTH (0) RPD 279  
 RPDMSXA (18) RPD 279  
 RPDNAME (4) RPD 279  
 RPDNAME (C) RPD 279  
 RPDRSYS (14) RPD 279  
 RPGINIT (BIT) CSA 57  
 rpl

rpl (continued)  
 CICS VTAM rpl extension, ZRPL 608  
 RPL\_EYECATCHER (0) ZGRP 605  
 RPL\_POOL\_HEADER (0) ZGRP 605  
 RPL\_SIZE (C) ZGRP 605  
 RSA (0) XCTRC 556  
 RSACB 556  
 RSACF (8) XCTRC 556  
 RSB 280, 283  
 RSBEXPRM (F4) RSB 282, 285  
 RSBISPL (10) RSB 280, 283  
 RSBLEN (BIT) RSB 282, 285  
 RSBPDIR (8) RSB 280, 283  
 RSBSTART (BIT) RSB 280, 283  
 RSBYSID (C) RSB 280, 283  
 RSCSBPL (BIT) SRB 327  
 RSCSVCHN (BIT) SRB 327  
 RSCSVFRR (BIT) SRB 327  
 RSCSVLTH (BIT) SRB 327  
 RWE\_FLAG 358  
 RWE\_VT (BIT) TCRWE 358  
 RWEBITM (BIT) TCRWE 358  
 RWEBPS (18) TCRWE 358  
 RWECORID (28) TCRWE 358  
 RWEDEL 1 TCRWE 359  
 RWEDUP (BIT) TCRWE 358  
 RWEECB (1) TCRWE 358  
 RWEFDEL 1 TCRWE 359  
 RWEIHA (BIT) TCRWE 358  
 RWEINST 1 TCRWE 359  
 RWEMDEL 1 TCRWE 359  
 RWENETN (10) TCRWE 358  
 RWENETOR (30) TCRWE 358  
 RWEPAD (3) TCRWE 358  
 RWEPOST (BIT) TCRWE 358  
 RWERSE (BIT) TCRWE 358  
 RWESADDR (C) TCRWE 358  
 RWESHA (BIT) TCRWE 358  
 RWESID (8) TCRWE 358  
 RWESTERM (BIT) TCRWE 358  
 RWETCTAD (1C) TCRWE 358  
 RWETERM (4) TCRWE 358  
 RWETOK 358  
 RWETOKEN (20) TCRWE 358  
 RWETYPE (0) TCRWE 358  
 RWEVAR (4) TCRWE 358

**S**  
 S (0) ZCCPS 579  
 S1 (0) XQS1D 569  
 S1ASYCT (BC) XQS1D 570  
 S1CLEN (BIT) XQS1D 570  
 S1CNNAME (18) XQS1D 569  
 S1CNPREF (18) XQS1D 569  
 S1CNSYSN (20) XQS1D 569  
 S1CRLCT (94) XQS1D 569  
 S1DLLCT (98) XQS1D 569  
 S1DLQCT (90) XQS1D 569  
 S1DVERS (4) XQS1D 569  
 S1ELEMCT (60) XQS1D 569  
 S1ELEMHI (64) XQS1D 569  
 S1ELEMHI (64) XQS1D 569  
 S1ELEMHI (64) XQS1D 569  
 S1ELEMLO (68) XQS1D 569  
 S1ELEMLO (68) XQS1D 569  
 S1ELEMLO (68) XQS1D 569  
 S1ELEMLO (68) XQS1D 569  
 S1ELEMPE (44) XQS1D 569  
 S1ELEMPE (44) XQS1D 569  
 S1ELEMPE (44) XQS1D 569  
 S1ELEMPE (44) XQS1D 569  
 S1ELEMPE (44) XQS1D 569  
 S1ELEMRT (48) XQS1D 569  
 S1END (BIT) XQS1D 570  
 S1ENTRCT (50) XQS1D 569  
 S1ENTRHI (54) XQS1D 569  
 S1ENTRHI (54) XQS1D 569  
 S1ENTRLO (58) XQS1D 569  
 S1ENTRLO (58) XQS1D 569  
 S1ENTRLO (58) XQS1D 569  
 S1ENTRLO (58) XQS1D 569  
 S1ENTRMRX (5C) XQS1D 569  
 S1ENTRMRX (5C) XQS1D 569  
 S1ENTRMRX (5C) XQS1D 569  
 S1ENTRMRX (5C) XQS1D 569  
 S1ENTRRT (4C) XQS1D 569  
 S1ENTRRT (4C) XQS1D 569  
 S1ENTRRT (4C) XQS1D 569  
 S1ENTRRT (4C) XQS1D 569  
 S1FREECT (78) XQS1D 569  
 S1FREECT (78) XQS1D 569  
 S1FREEHI (7C) XQS1D 569  
 S1FREEHI (7C) XQS1D 569  
 S1FREEHI (7C) XQS1D 569  
 S1FREEHI (7C) XQS1D 569  
 S1HDRS (30) XQS1D 569  
 S1HDRS (30) XQS1D 569  
 S1HDRS (30) XQS1D 569  
 S1HDRS (30) XQS1D 569  
 S1HDRSCT (34) XQS1D 569  
 S1HDRSCT (34) XQS1D 569  
 S1HDRSCT (34) XQS1D 569  
 S1HDRSCT (34) XQS1D 569  
 S1HDRSQD (38) XQS1D 569  
 S1HDRSQD (38) XQS1D 569  
 S1HDRSQD (38) XQS1D 569  
 S1HDRSQD (38) XQS1D 569  
 S1ID (2) XQS1D 569  
 S1IDE (BIT) XQS1D 569  
 S1INDEXCT (80) XQS1D 569

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S1INDXHI	(84)	XQS1D	569
S1INLCT	(AC)	XQS1D	569
S1INQCT	(A8)	XQS1D	569
S1LEN	(0)	XQS1D	569
S1NAME			569
S1POOL	(10)	XQS1D	569
S1PREF	(8)	XQS1D	569
S1RDLC	(9C)	XQS1D	569
S1RDQCT	(88)	XQS1D	569
S1RRLCT	(B8)	XQS1D	570
S1RRQCT	(B4)	XQS1D	570
S1RSP1CT	(C0)	XQS1D	570
S1RSP2CT	(C4)	XQS1D	570
S1RSP3CT	(C8)	XQS1D	570
S1RSP4CT	(CC)	XQS1D	570
S1RSP5CT	(D0)	XQS1D	570
S1RSP6CT	(D4)	XQS1D	570
S1RSP7CT	(D8)	XQS1D	570
S1RSP8CT	(DC)	XQS1D	570
S1RWLCT	(A4)	XQS1D	569
S1SIZE	(28)	XQS1D	569
S1SIZEMX	(2C)	XQS1D	569
S1USEDCT	(70)	XQS1D	569
S1USEDHI	(74)	XQS1D	569
S1USEVEC	(70)	XQS1D	569
S1VERS	(BIT)	XQS1D	569
S1WRACT	(B0)	XQS1D	569
S1WRLCT	(A0)	XQS1D	569
S1WRQCT	(8C)	XQS1D	569
S2	(0)	XQS2D	570
S2BFACTS	(10)	XQS2D	570
S2BFEMPS	(18)	XQS2D	570
S2BFENTH	(C)	XQS2D	570
S2BFFNOS	(48)	XQS2D	570
S2BFFRES	(44)	XQS2D	570
S2BFGETS	(20)	XQS2D	570
S2BFGFRS	(28)	XQS2D	570
S2BFGLRS	(30)	XQS2D	570
S2BFGNBS	(38)	XQS2D	570
S2BFGNWS	(2C)	XQS2D	570
S2BFHITS	(24)	XQS2D	570
S2BFKEPS	(40)	XQS2D	570
S2BFLRUS	(14)	XQS2D	570
S2BFLWTS	(34)	XQS2D	570
S2BFPNFS	(50)	XQS2D	570
S2BFPNOS	(54)	XQS2D	571
S2BFPURS	(4C)	XQS2D	570
S2BFPUTS	(3C)	XQS2D	570
S2BFPWTS	(1C)	XQS2D	570
S2BFQTY			570
S2CLEN	(BIT)	XQS2D	571
S2DVERS	(4)	XQS2D	570
S2END	(BIT)	XQS2D	571
S2ID	(2)	XQS2D	570
S2IDE	(BIT)	XQS2D	570
S2LEN	(0)	XQS2D	570
S2VERS	(BIT)	XQS2D	570
S3	(0)	XQS3D	571
S3ANYFR	(20)	XQS3D	571
S3ANYLO	(24)	XQS3D	571
S3ANYMX	(18)	XQS3D	571
S3ANYNAM			571
S3ANYPTR	(14)	XQS3D	571
S3ANYRQC	(34)	XQS3D	571
S3ANYRQF	(2C)	XQS3D	571
S3ANYRQG	(28)	XQS3D	571
S3ANYRQS	(30)	XQS3D	571
S3ANYSIZ	(10)	XQS3D	571
S3ANYUS	(1C)	XQS3D	571
S3CLEN	(BIT)	XQS3D	571
S3DVERS	(4)	XQS3D	571
S3END	(BIT)	XQS3D	571
S3ID	(2)	XQS3D	571
S3IDE	(BIT)	XQS3D	571
S3LEN	(0)	XQS3D	571
S3LOWFR	(50)	XQS3D	571
S3LOWLO	(54)	XQS3D	571
S3LOWMX	(48)	XQS3D	571
S3LOWNAM	(38)	XQS3D	571
S3LOWPTR	(44)	XQS3D	571
S3LOWRQC	(64)	XQS3D	571
S3LOWRQF	(5C)	XQS3D	571
S3LOWRQG	(58)	XQS3D	571
S3LOWRQS	(60)	XQS3D	571
S3LOWSIZ	(40)	XQS3D	571
S3LOWUS	(4C)	XQS3D	571
S3VERS	(BIT)	XQS3D	571
S4	(0)	NCS4D	243
S4ASYCT	(58)	NCS4D	243
S4CLEN	(BIT)	NCS4D	243
S4CNNAME	(18)	NCS4D	243
S4CNPREF	(18)	NCS4D	243
S4CNSYSN	(20)	NCS4D	243
S4CRECT	(40)	NCS4D	243
S4DELCT	(4C)	NCS4D	243
S4DVERS	(4)	NCS4D	243
S4END	(BIT)	NCS4D	243
S4ENTRCT	(30)	NCS4D	243
S4ENTRHI	(34)	NCS4D	243
S4ENTRLO	(38)	NCS4D	243
S4ENTRMX	(3C)	NCS4D	243
S4GETCT	(44)	NCS4D	243
S4ID	(2)	NCS4D	243
S4IDE	(BIT)	NCS4D	243
S4KEQCT	(50)	NCS4D	243
S4KGECT	(54)	NCS4D	243
S4LEN	(0)	NCS4D	243
S4NAME			243
S4POOL	(10)	NCS4D	243
S4PREF	(8)	NCS4D	243
S4RSP1CT	(5C)	NCS4D	243
S4RSP2CT	(60)	NCS4D	243
S4RSP3CT	(64)	NCS4D	243
S4RSP4CT	(68)	NCS4D	243
S4RSP5CT	(6C)	NCS4D	243
S4RSP6CT	(70)	NCS4D	243
S4SETCT	(48)	NCS4D	243
S4SIZE	(28)	NCS4D	243
S4SIZEMX	(2C)	NCS4D	243
S4VERS	(BIT)	NCS4D	243
S5	(0)	NCS5D	244
S5ANYFR	(20)	NCS5D	244
S5ANYLO	(24)	NCS5D	244
S5ANYMX	(18)	NCS5D	244
S5ANYNAM			244
S5ANYPTR	(14)	NCS5D	244
S5ANYRQC	(34)	NCS5D	244
S5ANYRQF	(2C)	NCS5D	244
S5ANYRQG	(28)	NCS5D	244
S5ANYRQS	(30)	NCS5D	244
S5ANYSIZ	(10)	NCS5D	244
S5ANYUS	(1C)	NCS5D	244
S5CLEN	(BIT)	NCS5D	244
S5DVERS	(4)	NCS5D	244
S5END	(BIT)	NCS5D	244
S5ID	(2)	NCS5D	244
S5IDE	(BIT)	NCS5D	244
S5LEN	(0)	NCS5D	244
S5LOWFR	(50)	NCS5D	244
S5LOWLO	(54)	NCS5D	244
S5LOWMX	(48)	NCS5D	244
S5LOWNAM	(38)	NCS5D	244
S5LOWPTR	(44)	NCS5D	244
S5LOWRQC	(64)	NCS5D	244
S5LOWRQF	(5C)	NCS5D	244
S5LOWRQG	(58)	NCS5D	244
S5LOWRQS	(60)	NCS5D	244
S5LOWSIZ	(40)	NCS5D	244
S5LOWUS	(4C)	NCS5D	244
S5VERS	(BIT)	NCS5D	244
S6	(0)	CFS6D	46
S6APPLCT	(88)	CFS6D	46
S6APPLHI	(8C)	CFS6D	46
S6ASYCT	(F4)	CFS6D	47
S6CLEN	(114)	CFS6D	47
S6CNNAME	(18)	CFS6D	46
S6CNPREF	(18)	CFS6D	46
S6CNSYSN	(20)	CFS6D	46
S6CRLCT	(A8)	CFS6D	46
S6DLACT	(EC)	CFS6D	47
S6DLDC	(C0)	CFS6D	47
S6DLICT	(A4)	CFS6D	46
S6DLLCT	(B0)	CFS6D	46
S6DLUCT	(DC)	CFS6D	47
S6DVERS	(4)	CFS6D	46
S6ELEMCT	(60)	CFS6D	46

S6ELEMHI (64) CFS6D 46	S7VERS (BIT) CFS7D 47
S6ELEM LN (3C) CFS6D 46	S8 (0) CFS8D 48
S6ELEMLO (68) CFS6D 46	S8CLEN (BIT) CFS8D 48
S6ELEM MX (6C) CFS6D 46	S8DVERS (4) CFS8D 48
S6ELEMPE (44) CFS6D 46	S8END (BIT) CFS8D 48
S6ELEM PW (40) CFS6D 46	S8ID (2) CFS8D 48
S6ELEM RT (48) CFS6D 46	S8IDE (BIT) CFS8D 48
S6END (114) CFS6D 47	S8IQINQU (44) CFS8D 48
S6ENTR CT (50) CFS6D 46	S8LEN (0) CFS8D 48
S6ENTR HI (54) CFS6D 46	S8OCCLOS (C) CFS8D 48
S6ENTR LO (58) CFS6D 46	S8OCDELE (14) CFS8D 48
S6ENTR MX (5C) CFS6D 46	S8OCOPEN (8) CFS8D 48
S6ENTR RT (4C) CFS6D 46	S8OCSET (10) CFS8D 48
S6FREE CT (78) CFS6D 46	S8OCSTAT (18) CFS8D 48
S6FREE HI (7C) CFS6D 46	S8RQDELE (3C) CFS8D 48
S6HDRS (30) CFS6D 46	S8RQDELM (40) CFS8D 48
S6HDRS CT (34) CFS6D 46	S8RQHIG H (20) CFS8D 48
S6HDRS TD (38) CFS6D 46	S8RQLO AD (30) CFS8D 48
S6ID (2) CFS6D 46	S8RQP OIN (1C) CFS8D 48
S6IDE (BIT) CFS6D 46	S8RQRDDL (28) CFS8D 48
S6INDX CT (80) CFS6D 46	S8RQREAD (24) CFS8D 48
S6INDX HI (84) CFS6D 46	S8RQREWR (38) CFS8D 48
S6INLCT (C4) CFS6D 47	S8RQUNLK (2C) CFS8D 48
S6LEN (0) CFS6D 46	S8RQWRIT (34) CFS8D 48
S6MDLCT (AC) CFS6D 46	S8SPBACK (54) CFS8D 48
S6NAME 46	S8SPCOMM (50) CFS8D 48
S6POOL (10) CFS6D 46	S8SPINQU (58) CFS8D 48
S6PREF (8) CFS6D 46	S8SPPREP (48) CFS8D 48
S6RDACT (E0) CFS6D 47	S8SPREST (5C) CFS8D 48
S6RDDCT (B4) CFS6D 46	S8SPRETA (4C) CFS8D 48
S6RDICT (98) CFS6D 46	S8STATS 48
S6RDMCT (C8) CFS6D 47	S8VERS (BIT) CFS8D 48
S6RDUCT (D0) CFS6D 47	S9 (0) CFS9D 49
S6RRLCT (F0) CFS6D 47	S9ANYFR (20) CFS9D 49
S6RSP1CT (F8) CFS6D 47	S9ANYLO (24) CFS9D 49
S6RSP2CT (FC) CFS6D 47	S9ANYMX (18) CFS9D 49
S6RSP3CT (100) CFS6D 47	S9ANYNAM 49
S6RSP4CT (104) CFS6D 47	S9ANYPTR (14) CFS9D 49
S6RSP5CT (108) CFS6D 47	S9ANYRQC (34) CFS9D 49
S6RSP6CT (10C) CFS6D 47	S9ANYRQF (2C) CFS9D 49
S6RSP7CT (110) CFS6D 47	S9ANYRQG (28) CFS9D 49
S6RSP8CT (114) CFS6D 47	S9ANYRQS (30) CFS9D 49
S6RWACT (E8) CFS6D 47	S9ANYSIZ (10) CFS9D 49
S6RWDC T (BC) CFS6D 47	S9ANYUS (1C) CFS9D 49
S6RWICT (A0) CFS6D 46	S9CLEN (BIT) CFS9D 49
S6RWUCT (D8) CFS6D 47	S9DVERS (4) CFS9D 49
S6SIZE (28) CFS6D 46	S9END (BIT) CFS9D 49
S6SIZEM X (2C) CFS6D 46	S9ID (2) CFS9D 49
S6UOWLCT (90) CFS6D 46	S9IDE (BIT) CFS9D 49
S6UOWLHI (94) CFS6D 46	S9LEN (0) CFS9D 49
S6USEDCT (70) CFS6D 46	S9LOWFR (50) CFS9D 49
S6USEDHI (74) CFS6D 46	S9LOWLO (54) CFS9D 49
S6USEVEC (70) CFS6D 46	S9LOWMX (48) CFS9D 49
S6VERS (BIT) CFS6D 46	S9LOWNAM (38) CFS9D 49
S6WRACT (E4) CFS6D 47	S9LOWPTR (44) CFS9D 49
S6WRDC T (B8) CFS6D 46	S9LOWRQC (64) CFS9D 49
S6WRICT (9C) CFS6D 46	S9LOWRQF (5C) CFS9D 49
S6WRMCT (CC) CFS6D 47	S9LOWRQG (58) CFS9D 49
S6WRUCT (D4) CFS6D 47	S9LOWRQS (60) CFS9D 49
S7 (0) CFS7D 47	S9LOWSIZ (40) CFS9D 49
S7CLEN (BIT) CFS7D 48	S9LOWUS (4C) CFS9D 49
S7DVERS (4) CFS7D 47	S9VERS (BIT) CFS9D 49
S7END (BIT) CFS7D 48	SAA 286
S7ID (2) CFS7D 47	SAASACA (4) SAA 286
S7IDE (BIT) CFS7D 47	SAASAD (2) SAA 286
S7LEN (0) CFS7D 47	SAASCI (0) SAA 286
S7OCCLOS (1C) CFS7D 47	SAASFI (1) SAA 286
S7OCDELE (24) CFS7D 47	SAB 286
S7OCOPEN (18) CFS7D 47	SAB1FMT (BIT) SAB 286
S7OCSET (20) CFS7D 47	SAB1GRC (BIT) SAB 286
S7OCSTAT (28) CFS7D 47	SAB1SEC (BIT) SAB 286
S7RQDELE (4C) CFS7D 48	SABACRON (8) SAB 286
S7RQDELM (50) CFS7D 48	SABCDD (0) SAB 286
S7RQHIG H (30) CFS7D 47	SABFLAG1 (F) SAB 286
S7RQLO AD (40) CFS7D 47	SABGROUT (20) SAB 287
S7RQP OIN (2C) CFS7D 47	SABL (BIT) SAB 287
S7RQRDDL (38) CFS7D 47	SABMAPLN (1C) SAB 286
S7RQREAD (34) CFS7D 47	SABMAPPT (18) SAB 286
S7RQREWR (48) CFS7D 47	SABPNDPW (14) SAB 286
S7RQUNLK (3C) CFS7D 47	SABSCTE (4) SAB 286
S7RQWRIT (44) CFS7D 47	SABSSCT (10) SAB 286
S7STATS (18) CFS7D 47	SABV211 (BIT) SAB 286
S7TABLE 47	SABVERSN (E) SAB 286

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SAMEVERB (BIT) EICD1 115  
 SAVE2R14 (68) XCTRC 556  
 SAVER14 (64) XCTRC 556  
 SAXDF\_ENTRY 2 DUA 96  
 SAXDF\_EXIT 2 DUA 96  
 SAXDF\_RECOVERY 2 DUA 96  
 SCACB (0) IRC 188  
 SCACBE (0) IRC 188  
 SCACBEAD (0) IRC 188  
 SCACBELN 4 IRC 191  
 SCACBEND (4) IRC 188  
 SCACBENT (4) IRC 188  
 SCACBLEN 4 IRC 191  
 SCACBNUM (0) IRC 188  
 scatter  
 table manager scatter table, TMSKT 442  
 SCCB (0) IRC 188  
 SCCBAREA (18) IRC 188  
 SCCBCNAM (1C) IRC 188  
 SCCBCTIM (38) IRC 188  
 SCCBDECB (0) IRC 188  
 SCCBDLTH (10) IRC 188  
 SCCBEL (48) IRC 188  
 SCCBELA (30) IRC 188  
 SCCBLENG 4 IRC 191  
 SCCBSEC (28) IRC 188  
 SCCBSLTH (14) IRC 188  
 SCCBSTAT (C) IRC 188  
 SCCBSTOD (40) IRC 188  
 SCCBSTS1 (C) IRC 188  
 SCCBSTS2 (D) IRC 188  
 SCCBSTS3 (E) IRC 188  
 SCCBSTS4 (F) IRC 188  
 SCCBTHID (8) IRC 188  
 SCCBTHNM (4) IRC 188  
 SCCBUSER (24) IRC 188  
 scheduling  
 DBCTL scheduling block, DSB 81  
 SCTE (0) SAB 287  
 SCTECNT (4) SAB 287  
 SCTEFLGS (F) SAB 287  
 SCTEFSP4 (BIT) SAB 287  
 SCTEFXCF (BIT) SAB 287  
 SCTELACB (0) SAB 287  
 SCTELEN (BIT) SAB 287  
 SCTESVCI 287  
 SCTEVER 287  
 SCTEVER1 (BIT) SAB 287  
 SCTEVER2 (BIT) SAB 287  
 SDG 287  
 SDGCLN (BIT) SDG 287  
 SDGDVERS (4) SDG 287  
 SDGEND (BIT) SDG 287  
 SDGID (2) SDG 287  
 SDGIDE (BIT) SDG 287  
 SDGLEN 287  
 SDGVERS (BIT) SDG 287  
 SDR 288  
 SDRCLN (BIT) SDR 288  
 SDRCODE 288  
 SDRDVERS (4) SDR 288  
 SDREND (BIT) SDR 288  
 SDRID (2) SDR 288  
 SDRIDE (BIT) SDR 288  
 SDRLEN 288  
 SDRSSUPR (14) SDR 288  
 SDRSTKN (10) SDR 288  
 SDRTSUPR (1C) SDR 288  
 SDRTTKN (18) SDR 288  
 SDRVERS (BIT) SDR 288  
 SDBLOCK\_NAME 8 DUA 94  
 SDUMP\_RC (93) XCTRC 557  
 SEC\_EXT\_MECH (1) ZGRP 605  
 SEC\_EXT\_MECH\_LEN (0) ZGRP 605  
 SEC\_MECH\_ID (1) ZGRP 605  
 SEC\_MECH\_KEY (1) ZGRP 605  
 SEC\_MECH\_LENGTH (0) ZGRP 605  
 SEC\_MECH\_POLICY (2) ZGRP 605  
 SEC\_MECH\_STRUCT (0) ZGRP 605  
 SEC\_POLICY\_LENGTH (2) ZGRP 605  
 SEC\_POLICY\_REQD (BIT) ZGRP 605  
 SECNDTAB (BIT) EICD1 115  
 section

section (continued)  
 SMF header and SMF product section, MNSMF 235  
 SMF header and SMF product section, SMF 311  
 segment  
 table manager directory segment, TMSG 437  
 SENDX (C4) SPI 324  
 sent  
 XRF/DBCTL last message sent, DBWMS 65  
 SEQUENCE\_NUMBERS (0) TCTTE 390  
 server  
 cfdt server cf statistics, CFS6D 46  
 cfdt server request statistics, CFS8D 48  
 cfdt server storage statistics, CFS9D 49  
 cfdt server table statistics, CFS7D 47  
 named counter server cf statistics, NCS4D 243  
 named counter server storage statistics, NCS5D 244  
 shared ts queue server buffer statistics, XQS2D 570  
 shared ts queue server cf statistics, XQS1D 569  
 shared ts queue server storage statistics, XQS3D 571  
 service  
 service request block, SRB 326  
 tcp/ip service, SORDS 322  
 SESSID (2) ZGRP 604  
 SESSID\_KEY (1) ZGRP 604  
 SESSID\_LENGTH (0) ZGRP 604  
 SESSID\_PTR (C) ZGRP 603  
 SESSID\_STRUCT (0) ZGRP 604  
 session  
 interregion session recovery, IRRDS 193  
 XRF mapping session stste vector '29', TCV29 418  
 sessions  
 persistent sessions control blocks, ZGRP 600  
 set  
 builder parameter set, ZCQ 582  
 partition set definition block, PSD 272  
 set storage control, SETCC 289  
 SETCC 289  
 SEUSE (D8) SPI 324  
 sevice  
 zcp LU sevice manager parameter, LUSDS 218  
 shared  
 file control shared resources, FCTSR 149  
 shared ts queue server buffer statistics, XQS2D 570  
 shared ts queue server cf statistics, XQS1D 569  
 shared ts queue server storage statistics, XQS3D 571  
 shipping  
 function request shipping message, IMSDS 186  
 function shipping request control block, XFR 563  
 SHORTEST\_NIB\_DATA\_LENGTH 4 ZGRP 605  
 sign-on  
 sign-on LUIT and SNT statistics, SNSTA 321  
 SIGNOFF (BIT) TEPCA 431  
 signon  
 signon extension block, SNEX 316  
 SILISTID (214) SIP 291  
 SIP 290  
 SIP2PLT (BIT) SIP 290  
 SIP3PLT (BIT) SIP 290  
 SIPARMP1 (E8) SIP 290  
 SIPARMP2 (EC) SIP 290  
 SIPARMP3 (F0) SIP 290  
 SIPARMP4 (F4) SIP 290  
 SIPARMP5 (F8) SIP 290  
 SIPARMP6 (FC) SIP 290  
 SIPARMP7 (100) SIP 290  
 SIPARMP8 (104) SIP 290  
 SIPARMP9 (108) SIP 290  
 SIPBASER (1C) SIP 290  
 SIPBLERR (BIT) SIP 290  
 SIPBLNAB (BIT) SIP 290  
 SIPBLNUC (BIT) SIP 290  
 SIPCICNA (2A0) SIP 291  
 SIPCNCNLR (BIT) SIP 290  
 SIPCUM (0) SIP 290  
 SIPCUMEA (2CC) SIP 291  
 SIPCORE (10) SIP 290  
 SIPCSEA (14) SIP 290  
 SIPDMPLP (24) SIP 290  
 SIPDMPRA 290  
 SIPDMSRA 290  
 SIPDMSTK (20) SIP 290  
 SIPDMTEC (224) SIP 291  
 SIPDS24B (228) SIP 291

SIPDSANY (230) SIP 291  
SIPDU24B (238) SIP 291  
SIPERFLG (E3) SIP 290  
SIPERR (BIT) SIP 290  
SIPF31B (BIT) SIP 290  
SIPFDOSA (BIT) SIP 290  
SIPFLAG 290  
SIPFLAG3 (E4) SIP 290  
SIPFLAG4 (E5) SIP 290  
SIPITCAP (2A4) SIP 291  
SIPLDER 290  
SIPLDERR (BIT) SIP 290  
SIPLSAVE (254) SIP 291  
SIPMSG (120) SIP 291  
SIPMSGGA (124) SIP 291  
SIPMSGCC (123) SIP 291  
SIPMSGLN (120) SIP 291  
SIPMSGTP (122) SIP 291  
SIPOSUP (0) SIP 290  
SIPPLTAD (2A8) SIP 291  
SIPPLTE1 (2C4) SIP 291  
SIPPLTE2 (2C8) SIP 291  
SIPPLTE3 (2CC) SIP 291  
SIPPRVMD (BIT) SIP 290  
SIPPUT (C) SIP 290  
SIPRSDDT 291  
SIPSAVE (60) SIP 290  
SIPSFABL (BIT) SIP 290  
SIPSHRMD (BIT) SIP 290  
SIPSHRPL (BIT) SIP 290  
SIPSIT (18) SIP 290  
SIPSPSIZ (294) SIP 291  
SIPSTACK (28) SIP 290  
SIPTEAO (BIT) SIP 291  
SIPTEFLG (244) SIP 291  
SIPTEJCS (BIT) SIP 291  
SIPUTSV (A0) SIP 290  
SIPWTOCB (11C) SIP 290  
SISUBECB (21C) SIP 291  
SISUBTCB (220) SIP 291  
SIT 292  
SIT\_EXISTENCE\_BITS (538) SIT 297  
SIT\_PS\_TYPE 292  
SIT\_VT\_PREFIX (54) SIT 292  
SITA2SPC (62C) SIT 301  
SITA2STN (5AC) SIT 301  
SITACMTH (232) SIT 296  
SITACOND (50C) SIT 297  
SITACTG (7D7) SIT 301  
SITACTG\_X (BIT) SIT 300  
SITACTGA 1 SIT 304  
SITACTGM 1 SIT 304  
SITACTGN 1 SIT 304  
SITADI 297  
SITADI\_X (BIT) SIT 299  
SITAKPFR (52) SIT 292  
SITAKPFR\_X 298  
SITALGN 294  
SITALGN\_X (BIT) SIT 298  
SITAPGM (7D6) SIT 301  
SITAPGM\_X (BIT) SIT 300  
SITAPGMA 1 SIT 304  
SITAPGMI 1 SIT 304  
SITAPSPC (624) SIT 301  
SITAPSTN (5A4) SIT 301  
SITAPXT (7D8) SIT 301  
SITAPXT\_X (BIT) SIT 300  
SITASW (73) SIT 293  
SITASW\_X (BIT) SIT 298  
SITASW1 (BIT) SIT 293  
SITASWC (BIT) SIT 293  
SITATPE (BIT) SIT 293  
SITATR\_X (BIT) SIT 298  
SITATRO (BIT) SIT 293  
SITAXI (51C) SIT 297  
SITAXI\_X (BIT) SIT 300  
SITAXISF 297  
SITBMSO 295  
SITBMSOP (1FD) SIT 296  
SITBMSOP\_X 299  
SITC14 1 SIT 303  
SITC15 1 SIT 303  
SITC16 1 SIT 303  
SITC17 1 SIT 303  
SITC21 1 SIT 303  
SITC31 1 SIT 303  
SITC32 1 SIT 303  
SITC33 1 SIT 303  
SITC41 1 SIT 303  
SITC51 1 SIT 303  
SITC52 1 SIT 303  
SITC53 1 SIT 303  
SITCBD 296  
SITCBD\_X (BIT) SIT 298  
SITCBDSF (172) SIT 295  
SITCBDSF\_X (BIT) SIT 298  
SITCBDY (BIT) SIT 296  
SITCDSA (17C) SIT 295  
SITCDSA\_X 299  
SITCHTRM 293  
SITCHTSK (5D) SIT 293  
SITCICS (2) SIT 292  
SITCICS\_X (BIT) SIT 298  
SITCICSF (19C) SIT 295  
SITCIMOD (4) SIT 292  
SITCIREL (3) SIT 292  
SITCIREL\_X (BIT) SIT 298  
SITCLSP (7D4) SIT 301  
SITCLT (4F5) SIT 297  
SITCLT\_X (BIT) SIT 299  
SITCLTSF 297  
SITCLTSF\_X (BIT) SIT 299  
SITCMDPRO (BIT) SIT 295  
SITCMDPRO\_X (BIT) SIT 300  
SITCMDSE (BIT) SIT 294  
SITCODPG (21C) SIT 296  
SITCOMA (18) SIT 292  
SITCOMA\_X 298  
SITCONF (79) SIT 293  
SITCONFDATA\_HIDETC (BIT) SIT 293  
SITCONFXT\_YES (BIT) SIT 293  
SITCSAOP\_X (BIT) SIT 299  
SITCSCR (BIT) SIT 300  
SITCSDAC (7CC) SIT 300  
SITCSDBD (7C0) SIT 300  
SITCSDBI (7BC) SIT 300  
SITCSDFR (7C8) SIT 300  
SITCSDIS (7CD) SIT 300  
SITCSDMI (7C6) SIT 300  
SITCSDL (7C4) SIT 300  
SITCSDL1 1 SIT 303  
SITCSDL2 (7CA) SIT 300  
SITCSDL3 1 SIT 303  
SITCSDL4 1 SIT 303  
SITCSDSL (78C) SIT 300  
SITCSDSL1 (7B8) SIT 300  
SITCSFUZ 1 SIT 303  
SITCSIMG (7CB) SIT 300  
SITCSNRI (BIT) SIT 300  
SITCSRCA 1 SIT 303  
SITCSRCA1 1 SIT 303  
SITCSRCA2 1 SIT 303  
SITCSRCA3 300  
SITCSRRA (BIT) SIT 300  
SITCSSHA 1 SIT 303  
SITCWA (A) SIT 292  
SITCWA\_X (BIT) SIT 298  
SITCWAKY (BIT) SIT 295  
SITCWAKY\_X (BIT) SIT 300  
SITDAE (BIT) SIT 293  
SITDAE\_X (BIT) SIT 298  
SITDATFM 293  
SITDB2N 1 SIT 304  
SITDB2OP (1FC) SIT 296  
SITDB2Y 1 SIT 304  
SITDBCOP (1FB) SIT 296  
SITDBCTN 1 SIT 304  
SITDBCTY 1 SIT 304  
SITDBLBL\_X 298  
SITDCTOP 296  
SITDCTOP\_X (BIT) SIT 299  
SITDCTSF 295  
SITDLY 301  
SITDFINT (3C) SIT 292  
SITDFINT\_X (BIT) SIT 298

"Restricted Materials of IBM"  
Licensed Materials – Property of IBM

SITDFUSR (F8) SIT 294  
SITDIPSF 295  
SITDISM (155) SIT 295  
SITDISM\_X (BIT) SIT 300  
SITDL1 295  
SITDMPDS 293  
SITDMPDS\_X (BIT) SIT 298  
SITDMPRT (70) SIT 293  
SITDMPRT\_X (BIT) SIT 298  
SITDMPSW (7D) SIT 293  
SITDMPSW\_X (BIT) SIT 298  
SITDRPGN (524) SIT 297  
SITDRTRN (534) SIT 297  
SITDSA (174) SIT 295  
SITDSA\_X (BIT) SIT 300  
SITDSBSF (1AA) SIT 295  
SITDSPGN (804) SIT 301  
SITDSRPM\_X (BIT) SIT 300  
SITDSWY (BIT) SIT 293  
SITDTBO (8B) SIT 294  
SITDTDMY (BIT) SIT 293  
SITDTDMY\_X (BIT) SIT 298  
SITDTMDY (BIT) SIT 293  
SITDTMDY\_X (BIT) SIT 298  
SITDTYMD 293  
SITDTYMD\_X (BIT) SIT 298  
SITE10 1 SIT 303  
SITE11 1 SIT 303  
SITE12 1 SIT 303  
SITE13 1 SIT 303  
SITE22 1 SIT 303  
SITECDSA (18C) SIT 295  
SITECDSA\_X (BIT) SIT 299  
SITEDSA (178) SIT 295  
SITEDSA\_X (BIT) SIT 300  
SITELS 1 SIT 303  
SITEMIR (116) SIT 294  
SITENCST 293  
SITEODI (89) SIT 293  
SITEODI\_X (BIT) SIT 298  
SITERDSA (44) SIT 292  
SITERDSA\_X (BIT) SIT 299  
SITESDSA 292  
SITESDSA\_X (BIT) SIT 299  
SITESMIN (BIT) SIT 294  
SITEUDSA (190) SIT 295  
SITEUDSA\_X (BIT) SIT 299  
SITFCOMP 294  
SITFCOMP\_X 298  
SITFCTS (15A) SIT 295  
SITFEAT (1FF) SIT 296  
SITFEAT1\_X (BIT) SIT 299  
SITFEAT2\_X (BIT) SIT 299  
SITFEAT3\_X (BIT) SIT 299  
SITFEAT4\_X (BIT) SIT 299  
SITFEAT5\_X 299  
SITFEAT6\_X (BIT) SIT 299  
SITFEAT7\_X (BIT) SIT 299  
SITFEAT8\_X (BIT) SIT 299  
SITFEAWB (BIT) SIT 296  
SITFEPIN 1 SIT 303  
SITFEPOP (1F3) SIT 296  
SITFEPOU 1 SIT 303  
SITFERS (88) SIT 293  
SITFLDSP 293  
SITFLDSP\_X 298  
SITFLDST (78) SIT 293  
SITFME (BIT) SIT 296  
SITFRCQR (84) SIT 293  
SITFRCQR\_X 300  
SITFSSTA 296  
SITFSSTY (BIT) SIT 296  
SITFTIMO (800) SIT 301  
SITFTIMO\_X (BIT) SIT 298  
SITFULL 1 SIT 303  
SITGAPLD (4DE) SIT 297  
SITGAPLD\_X 299  
SITGMMNM (203) SIT 296  
SITGMMNM\_X (BIT) SIT 299  
SITGMTAD (224) SIT 296  
SITGMTAD\_X (BIT) SIT 299  
SITGMTXE (F8) SIT 302  
SITGMTXL (0) SIT 302  
SITGMTXT (2) SIT 302  
SITGNITE (207) SIT 296  
SITGRNME (1D2) SIT 295  
SITGRNME\_X (BIT) SIT 298  
SITGRPL2 (7E0) SIT 301  
SITGRPL2\_X (BIT) SIT 300  
SITGRPL3 (7E8) SIT 301  
SITGRPL3\_X (BIT) SIT 300  
SITGRPL4 (7F0) SIT 301  
SITGRPL4\_X (BIT) SIT 300  
SITGRPLI (9B) SIT 294  
SITGRPLI\_X (BIT) SIT 298  
SITGTR\_X (BIT) SIT 298  
SITGTRO (BIT) SIT 293  
SITGTRSP\_X (BIT) SIT 300  
SITGTRST\_X 300  
SITHPO (86) SIT 293  
SITHPO\_X (BIT) SIT 298  
SITHRAPL (52C) SIT 297  
SITHRAPL\_X (BIT) SIT 299  
SITICPOP 296  
SITICPOP\_X (BIT) SIT 299  
SITICVAL (38) SIT 292  
SITICVAL\_X (BIT) SIT 298  
SITHPSF (1A8) SIT 295  
SITIND (1F2) SIT 296  
SITIND\_X (BIT) SIT 299  
SITINIT (0) SIT 302  
SITINIT\_X (BIT) SIT 300  
SITINTPM (20) SIT 292  
SITINTRA (BIT) SIT 296  
SITIRCS (85) SIT 293  
SITIRCS\_X 298  
SITISCSF (1BA) SIT 295  
SITITR\_X (BIT) SIT 298  
SITITRO (BIT) SIT 293  
SITJDI (504) SIT 297  
SITJDL\_X (BIT) SIT 299  
SITLANGS (768) SIT 300  
SITLANGS\_X (BIT) SIT 300  
SITLEN 292  
SITLEN\_X (BIT) SIT 298  
SITLGNMS (BIT) SIT 296  
SITLGNMS\_X (BIT) SIT 299  
SITLLACP (7D5) SIT 301  
SITLLACP\_X (BIT) SIT 300  
SITLLAN (BIT) SIT 301  
SITLLANC (BIT) SIT 301  
SITLLAY (BIT) SIT 301  
SITLPA (87) SIT 293  
SITLPA\_X (BIT) SIT 298  
SITLUIT (102) SIT 294  
SITLUIT\_X 300  
SITM32SF (1A4) SIT 295  
SITM37 1 SIT 303  
SITM38 1 SIT 303  
SITMCPSF (19E) SIT 295  
SITMCTS (170) SIT 295  
SITMCTS\_X (BIT) SIT 298  
SITMISC 297  
SITMOD00 1 SIT 303  
SITMOD01 1 SIT 303  
SITMOD02 1 SIT 303  
SITMOD03 1 SIT 303  
SITMONCL 294  
SITMONCO (BIT) SIT 294  
SITMONCO\_X 300  
SITMONEV (BIT) SIT 294  
SITMONEV\_X (BIT) SIT 298  
SITMONEX (BIT) SIT 294  
SITMONEX\_X (BIT) SIT 298  
SITMONFR 294  
SITMONFR\_X (BIT) SIT 300  
SITMONOP (8E) SIT 294  
SITMONPR (BIT) SIT 294  
SITMONPR\_X (BIT) SIT 298  
SITMONSS (93) SIT 294  
SITMONSS\_X (BIT) SIT 300  
SITMONSY (BIT) SIT 294  
SITMONSY\_X (BIT) SIT 300  
SITMONTM (BIT) SIT 294  
SITMONTM\_X (BIT) SIT 300  
SITMONY (BIT) SIT 294

SITMONY\_X 298  
SITMQN 1 SIT 304  
SITMQOP (1FE) SIT 296  
SITMQY 1 SIT 304  
SITMROB (72) SIT 293  
SITMROB\_X (BIT) SIT 300  
SITMSGCS (82) SIT 293  
SITMSGCS\_X (BIT) SIT 298  
SITMSGLV (7F) SIT 293  
SITMSGLV\_X (BIT) SIT 298  
SITMSGMX (BIT) SIT 293  
SITMSGUP (BIT) SIT 293  
SITMVX 1 SIT 303  
SITMXOTS 296  
SITMXOTS\_X (BIT) SIT 300  
SITMXTSK (20E) SIT 296  
SITMXTSK\_X (BIT) SIT 299  
SITNCPDL (214) SIT 296  
SITNDDS (BIT) SIT 295  
SITNDDS\_X (BIT) SIT 298  
SITNEW 297  
SITNEW\_X (BIT) SIT 299  
SITNEWY (BIT) SIT 297  
SITOFFSI (BIT) SIT 296  
SITOPNDL (230) SIT 296  
SITOPNDL\_X 299  
SITOPREL (1) SIT 292  
SITOPREL\_X (BIT) SIT 298  
SITOPSYS (0) SIT 292  
SITOPSYS\_X 297  
SITOPTIM (48) SIT 292  
SITOVPRM (1C) SIT 292  
SITOVPRM\_X (BIT) SIT 298  
SITPBPSF (1A2) SIT 295  
SITPCTOP\_X (BIT) SIT 299  
SITPDI 297  
SITPDI\_X (BIT) SIT 299  
SITPGCHN 294  
SITPGCPY 294  
SITPGCPY\_X (BIT) SIT 298  
SITPGPRG 294  
SITPGPRG\_X (BIT) SIT 298  
SITPGRET 294  
SITPGRET\_X (BIT) SIT 298  
SITPL1\_X (BIT) SIT 298  
SITPLTCM (BIT) SIT 294  
SITPLTID 294  
SITPLTPI 295  
SITPLTRS (BIT) SIT 294  
SITPLTSC (10D) SIT 294  
SITPLTSD (164) SIT 295  
SITPMABN (BIT) SIT 297  
SITPMACT (BIT) SIT 297  
SITPMERR (510) SIT 297  
SITPMERR\_X (BIT) SIT 299  
SITPMIGN (BIT) SIT 297  
SITPMIR (6F) SIT 293  
SITPMULT (6C) SIT 293  
SITPMULT\_X 299  
SITPOPT (153) SIT 294  
SITPPTOP\_X (BIT) SIT 299  
SITPRGD (150) SIT 294  
SITPRGD\_X (BIT) SIT 298  
SITPRINT 293  
SITPRINT\_X (BIT) SIT 298  
SITPRVMA (28) SIT 292  
SITPRVMA\_X (BIT) SIT 298  
SITPRVML (0) SIT 302  
SITPRVMN (4) SIT 302  
SITPRVMNAME (8) SIT 302  
SITPSBA (0) SIT 292  
SITPSCLS (202) SIT 296  
SITPSDI 293  
SITPSDI\_X 298  
SITPSID (201) SIT 296  
SITPSOPT 296  
SITQTIMO (802) SIT 301  
SITQTIMO\_X (BIT) SIT 298  
SITRAMAX (22E) SIT 296  
SITRAPL (22C) SIT 296  
SITRAPL\_X (BIT) SIT 299  
SITRAPLF (BIT) SIT 297  
SITRAPLF\_X (BIT) SIT 299  
SITRDSA (188) SIT 295  
SITRDSA\_X (BIT) SIT 299  
SITREMDI (7FC) SIT 301  
SITREMDI\_X (BIT) SIT 300  
SITREMDL (7F8) SIT 301  
SITREMDL\_X 300  
SITRESP 296  
SITRESSE (BIT) SIT 294  
SITRICVL (34) SIT 292  
SITRICVL\_X (BIT) SIT 298  
SITRLRSF (1A0) SIT 295  
SITRLS (BIT) SIT 301  
SITRMSPC (628) SIT 301  
SITRMSTN (5A8) SIT 301  
SITRMTRN (508) SIT 297  
SITRMTRN\_X 299  
SITRNTPGM (BIT) SIT 295  
SITRNTPGM\_X (BIT) SIT 300  
SITRRMS 293  
SITRRMSYES (BIT) SIT 293  
SITRRN (BIT) SIT 296  
SITRTOL (BIT) SIT 301  
SITRTRN2 (530) SIT 297  
SITRUWA (80) SIT 293  
SITRUWPL (BIT) SIT 293  
SITRUWPL\_X (BIT) SIT 298  
SITSAPLD (4E6) SIT 297  
SITSAPLD\_X (BIT) SIT 299  
SITSBTSK (6E) SIT 293  
SITSBTSK\_X (BIT) SIT 299  
SITSCOPE (104) SIT 294  
SITSDSA (184) SIT 295  
SITSDSA\_X (BIT) SIT 299  
SITSDTRN (210) SIT 296  
SITSDUMP\_X (BIT) SIT 298  
SITSECEX (BIT) SIT 294  
SITSECFL 294  
SITSECPR (BIT) SIT 294  
SITSECPX (105) SIT 294  
SITSININ 1 SIT 303  
SITSINIT (1F4) SIT 296  
SITSINIY 1 SIT 303  
SITSISNO (65) SIT 293  
SITSISNO\_X (BIT) SIT 298  
SITSKRTB (234) SIT 296  
SITSKRTB\_X (BIT) SIT 299  
SITSLD\_X (BIT) SIT 300  
SITSLDYES (BIT) SIT 295  
SITSMENO 293  
SITSMDY (BIT) SIT 293  
SITSNS\_C 1 SIT 304  
SITSNS\_M 1 SIT 304  
SITSNS\_N 1 SIT 304  
SITSNS\_S 1 SIT 304  
SITSOFFS (1F5) SIT 296  
SITSRVCY 292  
SITSRVCY\_X (BIT) SIT 298  
SITSRPAE (24) SIT 292  
SITSRPAE\_X 298  
SITSRTSF 295  
SITSTRYES (BIT) SIT 292  
SITSSKYF (810) SIT 301  
SITSSKYQ (840) SIT 301  
SITSSLTI (80C) SIT 301  
SITSTART (1F1) SIT 296  
SITSTART\_X 299  
SITSTOPT (0) SIT 302  
SITSTPRO (BIT) SIT 295  
SITSTPRO\_X (BIT) SIT 300  
SITSTR\_X (BIT) SIT 298  
SITSTRCD (6A) SIT 293  
SITSTRCD\_X (BIT) SIT 300  
SITSTRCDO (BIT) SIT 293  
SITSTRO (BIT) SIT 293  
SITSTRTA 296  
SITSTRTA\_X (BIT) SIT 299  
SITSVSNO (64) SIT 293  
SITSVSNO\_X (BIT) SIT 298  
SITSYDUMAX (198) SIT 295  
SITSYDUMAX\_X (BIT) SIT 298  
SITSYSID (228) SIT 296  
SITSYSID\_X (BIT) SIT 299  
SITTAKE (4F4) SIT 297



SITTAKE\_X (BIT) SIT 299  
 SITTAKEA 1 SIT 303  
 SITTAKEC 1 SIT 303  
 SITTAKEM 1 SIT 303  
 SITTBPX1 (1DA) SIT 295  
 SITTBPX2 (1E2) SIT 295  
 SITTBPX3 (4B8) SIT 297  
 SITTBPX4 (4C0) SIT 297  
 SITTBPX5 (4C8) SIT 297  
 SITTBPX6 295  
 SITTCAMO (8A) SIT 294  
 SITTCAMO\_X (BIT) SIT 298  
 SITTCPIP (BIT) SIT 296  
 SITTCPSF (1AC) SIT 295  
 SITTCSAN (58) SIT 292  
 SITTCSTFO (BIT) SIT 292  
 SITTCSTUB (BIT) SIT 292  
 SITTCSTWT 292  
 SITTCSTOP\_X (BIT) SIT 299  
 SITTCSTF (16A) SIT 295  
 SITTCSTUA (BIT) SIT 295  
 SITTCUA 293  
 SITTCUA\_X (BIT) SIT 300  
 SITTCUAA 1 SIT 303  
 SITTCUAB 1 SIT 303  
 SITTCUAKY\_X (BIT) SIT 300  
 SITTDDBNO (4A4) SIT 297  
 SITTDDBNO\_X (BIT) SIT 299  
 SITTDSDNO (4A6) SIT 297  
 SITTDSDNO\_X (BIT) SIT 299  
 SITTPPSF (1A6) SIT 295  
 SITTRALL (BIT) SIT 292  
 SITTRAP (8C) SIT 294  
 SITTRAPO (BIT) SIT 294  
 SITTRAPO\_X (BIT) SIT 298  
 SITTRDUMAX (194) SIT 295  
 SITTRDUMAX\_X (BIT) SIT 298  
 SITTRMCR (BIT) SIT 293  
 SITTRNISO (BIT) SIT 295  
 SITTRNISO\_X (BIT) SIT 300  
 SITTRNSZ 294  
 SITTRNSZ\_X (BIT) SIT 300  
 SITTRNTY (55) SIT 292  
 SITTRNTY\_X (BIT) SIT 300  
 SITTRROP 293  
 SITTRSP1 301  
 SITTRSP2 (630) SIT 301  
 SITTRSPC (668) SIT 300  
 SITTRST1 (568) SIT 301  
 SITTRST2 (5B0) SIT 301  
 SITTRSTA (568) SIT 301  
 SITTRSTB (568) SIT 300  
 SITTRSTN (568) SIT 300  
 SITTRTSZ (4C) SIT 292  
 SITTRTSZ\_X (BIT) SIT 298  
 SITTRXSP (560) SIT 300  
 SITTRXST (558) SIT 300  
 SITTSBNO (4A8) SIT 297  
 SITTSBNO\_X (BIT) SIT 299  
 SITTSDTI 292  
 SITTSDTL\_X 298  
 SITTSKCR 293  
 SITTSPOP (1FA) SIT 296  
 SITTSPOP\_X (BIT) SIT 299  
 SITSSNO (4AA) SIT 297  
 SITSSNO\_X (BIT) SIT 299  
 SITSTG\_X 298  
 SITSTSF (16C) SIT 295  
 SITUDSA (180) SIT 295  
 SITUDSA\_X (BIT) SIT 299  
 SITUDTIM (100) SIT 294  
 SITUDTIM\_X (BIT) SIT 300  
 SITUOWNQ (4D0) SIT 297  
 SITUOWNQ\_X (BIT) SIT 299  
 SITUTR\_X (BIT) SIT 298  
 SITUTRO 293  
 SITVAICN (4D8) SIT 297  
 SITVAXIT (4B0) SIT 297  
 SITVAXIT\_X (BIT) SIT 299  
 SITVDLY 293  
 SITVMXWE (4AC) SIT 297  
 SITVMXWE\_X 299  
 SITVRLS 300  
 SITVSPLI\_X (BIT) SIT 298  
 SITVTAM (BIT) SIT 296  
 SITVTAM\_X (BIT) SIT 299  
 SITWBGCI (2E) SIT 292  
 SITWBGCI\_X (BIT) SIT 299  
 SITWB TIP (2C) SIT 292  
 SITWB TIP\_X (BIT) SIT 299  
 SITX17 1 SIT 303  
 SITX20 1 SIT 303  
 SITX21 1 SIT 303  
 SITXAPPC 294  
 SITXCMD 294  
 SITXDB2E (DB) SIT 294  
 SITXDCT (BF) SIT 294  
 SITXFCT (B1) SIT 294  
 SITXJCT (B8) SIT 294  
 SITXLT SF (16E) SIT 295  
 SITXPCT (D4) SIT 294  
 SITXPPT (CD) SIT 294  
 SITXPSB (A3) SIT 294  
 SITXRACT 1 SIT 303  
 SITXRALT 1 SIT 303  
 SITXRFFN 297  
 SITXRFFN\_X (BIT) SIT 299  
 SITXRFN 1 SIT 303  
 SITXRFY 1 SIT 303  
 SITXRNO 1 SIT 303  
 SITXRNSNS (4DD) SIT 297  
 SITXRNSNS\_X (BIT) SIT 299  
 SITXSFI (52E) SIT 297  
 SITXSFR C (BIT) SIT 297  
 SITXSIGN 297  
 SITXTRAN (AA) SIT 294  
 SITXTST (C6) SIT 294  
 SITXUSER (BIT) SIT 294  
 SKA 304  
 SKAABC (5C) SKA 306  
 SKAABCP (BIT) SKA 305  
 SKADTECB (20) SKA 305  
 SKAEND (B0) SKA 306  
 SKAESFCD (29) SKA 305  
 SKAEWRK (18) SKA 305  
 SKAFAIL (2A) SKA 305  
 SKAFLAG1 (2C) SKA 305  
 SKAFLAG2 (2D) SKA 305  
 SKAFLAG3 306  
 SKAINECB (24) SKA 305  
 SKAINT (A8) SKA 306  
 SKAINTC (AA) SKA 306  
 SKAINTL (A8) SKA 306  
 SKAINWQE (14) SKA 304  
 SKAMEOL (BIT) SKA 306  
 SKAMFB (30) SKA 306  
 SKAMWVLS 306  
 SKAPICA (4C) SKA 306  
 SKAPROGQ (C) SKA 304  
 SKAPSAV (60) SKA 306  
 SKAPSW 306  
 SKAQUES (8) SKA 304  
 SKAQUIES 306  
 SKARGPSW (BIT) SKA 305  
 SKARUNNG (BIT) SKA 305  
 SKASAV13 (48) SKA 306  
 SKASCOMP (1C) SKA 305  
 SKASDEAD 305  
 SKASINIT 305  
 SKASKENA (0) SKA 304  
 SKASRETC (28) SKA 305  
 SKASTGP (4) SKA 304  
 SKAUSCOD 306  
 SKAWAITQ (10) SKA 304  
 SKAWORKQ (8) SKA 304  
 skp  
 skp subtask control area, SKA 304  
 skp work queue element, SKW 308  
 SKRQ 307  
 SKRQAY (BIT) SKRQ 307  
 SKRQCI (BIT) SKRQ 307  
 SKRQDWE (BIT) SKRQ 307  
 SKRQECBA (C) SKRQ 307  
 SKRQIES (BIT) SKRQ 307  
 SKRQINV (BIT) SKRQ 307  
 SKRQNORM (BIT) SKRQ 307

SKRQPARM (8) SKRQ 307  
 SKRQPER (BIT) SKRQ 307  
 SKRQPRTY (18) SKRQ 307  
 SKRQRC 307  
 SKRQRET (BIT) SKRQ 307  
 SKRQRM (1) SKRQ 307  
 SKRQRNC (BIT) SKRQ 307  
 SKRQRN (4) SKRQ 307  
 SKRQSCF (BIT) SKRQ 307  
 SKRQSIZE (BIT) SKRQ 307  
 SKRQSS (BIT) SKRQ 307  
 SKRQSUBI (14) SKRQ 307  
 SKRQSY (BIT) SKRQ 307  
 SKRQTACB (10) SKRQ 307  
 SKRQTER (BIT) SKRQ 307  
 SKRQTR (0) SKRQ 307  
 SKRQTWC (BIT) SKRQ 307  
 SKRQUCF (BIT) SKRQ 307  
 SKRQUPR (BIT) SKRQ 307  
 SKRQWAIT (BIT) SKRQ 307  
 SKSUBFS1 (BIT) SKRQ 307  
 SKSUBSP1 (BIT) SKRQ 307  
 SKSUBSP2 (BIT) SKRQ 307  
 SKSUBSX1 (BIT) SKRQ 307  
 SKTARRW (4) TMSKT 442  
 SKTDELN (18) TMSKT 442  
 SKTDFH (5) TMSKT 442  
 SKTDIREA (40) TMSKT 442  
 SKTDIRSA (20) TMSKT 442  
 SKTEYEC (A) TMSKT 442  
 SKTFDEA (24) TMSKT 442  
 SKTFLAG1 (14) TMSKT 442  
 SKTFLAG2 442  
 SKTFRDE (28) TMSKT 442  
 SKTHDR (0) TMSKT 442  
 SKTINFO 442  
 SKTKEYLN (1A) TMSKT 442  
 SKTLNTH (0) TMSKT 442  
 SKTMAXN (1C) TMSKT 442  
 SKTNUEA (BIT) TMSKT 442  
 SKTNUMDS (2C) TMSKT 442  
 SKTRANGE (30) TMSKT 442  
 SKTRANGES (0) TMSKT 442  
 SKTRNG\_ADDR (34) TMSKT 442  
 SKTRNG\_COUNT (8) TMSKT 443  
 SKTRNG\_HEAD (0) TMSKT 442  
 SKTRNG\_NUM (30) TMSKT 442  
 SKTRNG\_PTR (C) TMSKT 443  
 SKTRNG\_SIZE (38) TMSKT 442  
 SKTRNG\_USED (3C) TMSKT 442  
 SKTRNGE (8) TMSKT 443  
 SKTTBLE (0) TMSKT 442  
 SKTTM (8) TMSKT 442  
 SKTTTC 442  
 SKTTTCP (17) TMSKT 442  
 SKW 308  
 SKWCECB (4C) SKW 308  
 SKWCHAIN (0) SKW 308  
 SKWESAVE (5C) SKW 308  
 SKWFABST (BIT) SKW 309  
 SKWFLAGS (60) SKW 308  
 SKWOABC (54) SKW 308  
 SKWOABSP (58) SKW 308  
 SKWOECBA (50) SKW 308  
 SKWRC (61) SKW 309  
 SKWSREGS (C) SKW 308  
 SKWTACBE (BIT) SKW 309  
 SKWTCANC (BIT) SKW 309  
 SKWUCADD (8) SKW 308  
 SKWUPARM (4) SKW 308  
 SKWWAIT (BIT) SKW 309  
 SLCB (0) IRC 187  
 SLCBLCB 187  
 SLCBLECB (0) IRC 187  
 SLCBLENG 4 IRC 191  
 SLCBSCAC (4) IRC 187  
 SLCBSTS1 (8) IRC 187  
 SLCBSTS2 (9) IRC 187  
 SLCBSTS3 187  
 SLCBSTS4 (B) IRC 187  
 SLCBSTTS (8) IRC 187  
 SLD3604 (BIT) SLDC 309  
 SLD3610 (BIT) SLDC 309  
 SLD3612 (BIT) SLDC 309  
 SLD3618 (BIT) SLDC 309  
 SLD3618B (BIT) SLDC 309  
 SLD3618P (BIT) SLDC 309  
 SLD3618S (BIT) SLDC 309  
 SLDC 309  
 SLDCBLCO (BIT) SLDC 309  
 SLDCBLD1 (BIT) SLDC 309  
 SLDCBLD2 (BIT) SLDC 309  
 SLDCBLH1 (BIT) SLDC 309  
 SLDCBLP1 (BIT) SLDC 309  
 SLDCBLR1 (BIT) SLDC 309  
 SLDCCD (2) SLDC 309  
 SLDCCLM (5) SLDC 309  
 SLDCDSN (7) SLDC 309  
 SLDCDSP (F) SLDC 309  
 SLDCEND (BIT) SLDC 309  
 SLDCLEN (BIT) SLDC 310  
 SLDCMN (0) SLDC 309  
 SLDCPBS (BIT) SLDC 309  
 SLDCPDEF (BIT) SLDC 309  
 SLDCPJOB (BIT) SLDC 309  
 SLDCPOI1 (BIT) SLDC 309  
 SLDCPOI2 (BIT) SLDC 309  
 SLDCPOI3 (BIT) SLDC 309  
 SLDCPRAW (BIT) SLDC 309  
 SLDCROW (4) SLDC 309  
 SLDCSPGP (BIT) SLDC 309  
 SLDCSTAT (6) SLDC 309  
 SLDCSTM (3) SLDC 309  
 SLDCWPM1 (BIT) SLDC 309  
 SLDCWPM2 (BIT) SLDC 309  
 SLDCWPM3 (BIT) SLDC 309  
 SLDCWPM4 (BIT) SLDC 309  
 SM\_ISOLATION\_TOKEN (D0) DUA 89  
 SMD 310, 538  
 SMDABOVE (BIT) SMD 310  
 SMDACCESS (29) SMD 310  
 SMDAI 538  
 SMDAINST (8) WSM 538  
 SMDAVERN (C) WSM 538  
 SMDBELOW (BIT) SMD 310  
 SMDBNDRY 310  
 SMDCDSA (BIT) SMD 310  
 SMDCELEM (40) SMD 310  
 SMDCES (38) SMD 310  
 SMDCICS (BIT) SMD 310  
 SMDCLEM (BIT) SMD 310  
 SMDCPS (3C) SMD 310  
 SMDDSAINDEX (2A) SMD 310  
 SMDDSANAME (10) SMD 310  
 SMDDDVERS (4) SMD 310  
 SMDECDISA (BIT) SMD 310  
 SMDELCHN (20) SMD 310  
 SMDEND (BIT) SMD 310  
 SMDERDSA (BIT) SMD 310  
 SMDDESCR (0) WSM 538  
 SMDESDSA (BIT) SMD 310  
 SMDETYPE (18) SMD 310  
 SMDFLEN 310  
 SMDFMREQ (34) SMD 310  
 SMDGMREQ (30) SMD 310  
 SMDHWMPS (44) SMD 310  
 SMDID (2) SMD 310  
 SMDIDE (BIT) SMD 310  
 SMDIFREE 310  
 SMDINST 538  
 SMDL (BIT) WSM 538  
 SMDLEN 310  
 SMDLOCN (28) SMD 310  
 SMDR 538  
 SMDR1NDX (20) WSM 538  
 SMDR1TOD (10) WSM 538  
 SMDR2NDX (22) WSM 538  
 SMDR2TOD (18) WSM 538  
 SMDRDSA (BIT) SMD 310  
 SMDREADONLY (BIT) SMD 310  
 SMDSDSA (BIT) SMD 310  
 SMDSECCT (0) WSM 538  
 SMDSMJ0 (28) WSM 538  
 SMDSPN 310  
 SMDTKNDX (24) WSM 538  
 SMDUSER (BIT) SMD 310

"Restricted Materials of IBM"  
 Licensed Materials – Property of IBM

SMDVERS (BIT) SMD 310  
 SMF 311  
   SMF header and SMF product section, MNSMF 235  
   SMF header and SMF product section, SMF 311  
   SMF log format, LGMS 207  
 SMF\_BLOCK\_HEADER (0) LGMS 207  
 SMF\_DATA\_SECTION 208  
 SMF\_HEADER 207  
 SMF\_MAX\_BLOCK\_LEN 4 LGMS 208  
 SMF\_MAX\_DATA\_SECTION\_LEN 4 LGMS 208  
 SMF\_PRODUCT\_SECTION 207  
 SMFAPS 311  
 SMFASL (28) SMF 311  
 SMFASN (2A) SMF 311  
 SMFASS (24) SMF 311  
 SMFCFSTY (BIT) SMF 311  
 SMFDS\_DATA (9E) LGMS 208  
 SMFDTE (A) SMF 311  
 SMFESA (BIT) SMF 311  
 SMFFLG (4) SMF 311  
 SMFH\_APS (1C) LGMS 207  
 SMFH\_ASL (28) LGMS 207  
 SMFH\_ASN (2A) LGMS 207  
 SMFH\_ASS (24) LGMS 207  
 SMFH\_DATA\_SECT\_LENGTH 4 LGMS 208  
 SMFH\_DATA\_SECT\_NUMBER 4 LGMS 208  
 SMFH\_DATA\_SECT\_OFFSET 4 LGMS 208  
 SMFH\_DTE (A) LGMS 207  
 SMFH\_FLG (4) LGMS 207  
 SMFH\_FLG\_ESA4 1 LGMS 208  
 SMFH\_LEN (0) LGMS 207  
 SMFH\_LPS (20) LGMS 207  
 SMFH\_MFL\_ID 4 LGMS 208  
 SMFH\_NPS (22) LGMS 207  
 SMFH\_NUMBER\_TRIPLETS 4 LGMS 208  
 SMFH\_PRD\_SECT\_LENGTH 4 LGMS 208  
 SMFH\_PRD\_SECT\_NUMBER 4 LGMS 208  
 SMFH\_PRD\_SECT\_OFFSET 4 LGMS 208  
 SMFH\_RSVD1 (1A) LGMS 207  
 SMFH\_RTY (5) LGMS 207  
 SMFH\_RTY\_110 1 LGMS 208  
 SMFH\_SEG (2) LGMS 207  
 SMFH\_SID (E) LGMS 207  
 SMFH\_SSI (12) LGMS 207  
 SMFH\_SSI\_CICS 4 LGMS 208  
 SMFH\_STY (16) LGMS 207  
 SMFH\_STY\_LG 2 LGMS 208  
 SMFH\_STY\_MN 2 LGMS 208  
 SMFH\_STY\_ST 2 LGMS 208  
 SMFH\_TME (6) LGMS 207  
 SMFH\_TRN (18) LGMS 207  
 SMFJCIDA (BIT) SMF 311  
 SMFJCSTY (BIT) SMF 311  
 SMFLEN (0) SMF 311  
 SMFLPS (20) SMF 311  
 SMFMNAPS 235  
 SMFMNASL (28) MNSMF 235  
 SMFMNASN (2A) MNSMF 235  
 SMFMNASS (24) MNSMF 235  
 SMFMNCL 235,312  
 SMFMNDCA (44) MNSMF 235  
 SMFMNDCA (44) SMF 312  
 SMFMNDCL (48) MNSMF 235  
 SMFMNDCL (48) SMF 312  
 SMFMNDCN (4A) MNSMF 235  
 SMFMNDCN (4A) SMF 312  
 SMFMNDRA (4C) MNSMF 235  
 SMFMNDRA (4C) SMF 312  
 SMFMNDRL (50) MNSMF 235  
 SMFMNDRL (50) SMF 312  
 SMFMNDRN (52) MNSMF 235  
 SMFMNDRN (52) SMF 312  
 SMFMNDTE (A) MNSMF 235  
 SMFMNDTO (74) MNSMF 235  
 SMFMNDTO (74) SMF 312  
 SMFMNESA (BIT) MNSMF 235  
 SMFMNFLG (4) MNSMF 235  
 SMFMNIDA (BIT) SMF 312  
 SMFMNJB 236,312  
 SMFMNLEN (0) MNSMF 235  
 SMFMNLPS (20) MNSMF 235  
 SMFMNLSO (6C) MNSMF 235  
 SMFMNLSO (6C) SMF 312  
 SMFMNMFL (3E) MNSMF 235  
 SMFMNMFL (3E) SMF 312  
 SMFMNPNPS (22) MNSMF 235  
 SMFMNPDN (96) MNSMF 236  
 SMFMNPDN (96) SMF 312  
 SMFMNPRN (2E) MNSMF 235  
 SMFMNPRN (2E) SMF 312  
 SMFMNRSD (86) MNSMF 236  
 SMFMNRSD (86) SMF 312  
 SMFMNRST (8A) MNSMF 236  
 SMFMNRST (8A) SMF 312  
 SMFMNRTY (5) MNSMF 235  
 SMFMNRVN (2C) MNSMF 235  
 SMFMNRVN (2C) SMF 312  
 SMFMNSEG (2) MNSMF 235  
 SMFMNSID (E) MNSMF 235  
 SMFMNSPN (36) MNSMF 235  
 SMFMNSPN (36) SMF 312  
 SMFMNSSI (12) MNSMF 235  
 SMFMNSTY (16) MNSMF 235  
 SMFMNSTY (BIT) SMF 311  
 SMFMNTAD 235,312  
 SMFMNTME (6) MNSMF 235  
 SMFMNTRN (18) MNSMF 235  
 SMFMNUIF (8E) MNSMF 236  
 SMFMNUIF (8E) SMF 312  
 SMFNCSTY (BIT) SMF 311  
 SMFNPS (22) SMF 311  
 SMFPS\_JBN (7E) LGMS 208  
 SMFPS\_JNM (76) LGMS 208  
 SMFPS\_MFL (3E) LGMS 208  
 SMFPS\_MFL\_0 2 LGMS 208  
 SMFPS\_PDN (96) LGMS 208  
 SMFPS\_PRN (2E) LGMS 208  
 SMFPS\_RSD (86) LGMS 208  
 SMFPS\_RST (8A) LGMS 208  
 SMFPS\_RSVD2 (40) LGMS 208  
 SMFPS\_RSVD3 (42) LGMS 208  
 SMFPS\_SPN (36) LGMS 208  
 SMFPS\_UIF (8E) LGMS 208  
 SMFPS\_VRM (2C) LGMS 208  
 SMFPS\_VRM\_VAL 2 LGMS 208  
 SMFPSBAL (4E) SMF 311  
 SMFPSBKN (47) SMF 311  
 SMFPSJBN (7E) SMF 311  
 SMFPSJID (46) SMF 311  
 SMFPSJNM 311  
 SMFPSLBW (4A) SMF 311  
 SMFPSMFL (3E) SMF 311  
 SMFPPDN (96) SMF 311  
 SMFPPRN (2E) SMF 311  
 SMFPPRSRSD (86) SMF 311  
 SMFPPRSN 311  
 SMFPPRST (8A) SMF 311  
 SMFPPRVN (2C) SMF 311  
 SMFPPSPN (36) SMF 311  
 SMFPPSUIF (8E) SMF 311  
 SMFRTY (5) SMF 311  
 SMFSEG (2) SMF 311  
 SMFSID (E) SMF 311  
 SMFSSI (12) SMF 311  
 SMFSTCLT (58) SMF 312  
 SMFSTCST (76) SMF 312  
 SMFSTDAT (50) SMF 312  
 SMFSTDID (48) SMF 312  
 SMFSTDTK (44) SMF 312  
 SMFSTICD (4D) SMF 312  
 SMFSTIDA (BIT) SMF 312  
 SMFSTINO (64) SMF 312  
 SMFSTINT (5E) SMF 312  
 SMFSTJBN (7E) SMF 312  
 SMFSTLRT (70) SMF 312  
 SMFSTMFL (3E) SMF 312  
 SMFSTPDN (96) SMF 312  
 SMFSTPRN (2E) SMF 312  
 SMFSTRQT (4A) SMF 312  
 SMFSTRSD (86) SMF 312  
 SMFSTRST (8A) SMF 312  
 SMFSTRTK (68) SMF 312  
 SMFSTRVN (2C) SMF 312  
 SMFSTSPN (36) SMF 312  
 SMFSTSTY (BIT) SMF 311  
 SMFSTUIF (8E) SMF 312

SMFSTY (16) SMF 311  
SMFTME (6) SMF 311  
SMFTRN (18) SMF 311  
SMFXQSTY (BIT) SMF 311  
SMS 313  
SMSABOVE (BIT) SMS 314  
SMSACCESS (9) SMS 313  
SMSASR (20) SMS 314  
SMSBELOW (BIT) SMS 314  
SMSBEND 314  
SMSBLEN (BIT) SMS 314  
SMSBODY (0) SMS 313  
SMSCDSA (BIT) SMS 314  
SMSCICS (BIT) SMS 314  
SMSCREL (3C) SMS 314  
SMSCRISS (28) SMS 314  
SMSCSIZE (14) SMS 314  
SMSCSS (30) SMS 314  
SMSCSSCUM (18) SMS 313  
SMSCSSCUR (14) SMS 313  
SMSCSSHWM (1C) SMS 313  
SMSCSUBP (50) SMS 314  
SMSDSAINDEX (A) SMS 313  
SMSDSALIMIT (20) SMS 313  
SMSDSANAME (0) SMS 313  
SMSDSASZ 314  
SMSDSATOTAL (28) SMS 313  
SMSDSR (24) SMS 314  
SMSDVERS (4) SMS 313  
SMSECDSA (BIT) SMS 314  
SMSEDSALIMIT (24) SMS 313  
SMSEDSATOTAL (2C) SMS 313  
SMSEMMI (C) WSN 540  
SMSENTAB (0) WSN 540  
SMSERDSA (BIT) SMS 314  
SMSESDSA (BIT) SMS 314  
SMSESSR (8) WSN 540  
SMSESSW (4) WSN 540  
SMSESTKV (0) WSN 540  
SMSEUDSA (BIT) SMS 314  
SMSEXTS (68) SMS 314  
SMSEXTSA (6C) SMS 314  
SMSEXTSR (70) SMS 314  
SMSFMREQ (1C) SMS 314  
SMSFSTG (54) SMS 314  
MSGEND (BIT) SMS 313  
MSGLEN (BIT) SMS 313  
MSGLOBAL (0) SMS 313  
MSGMREQ (18) SMS 314  
MSHEND 313  
MSHLEN (BIT) SMS 313  
MSHWMDASZ (10) SMS 314  
MSHWMDSATOTAL (30) SMS 313  
MSHWMEDSATOTAL (34) SMS 313  
MSHWMFSTG (58) SMS 314  
MSHWMS (34) SMS 314  
MSID (2) SMS 313  
MSIDE (BIT) SMS 313  
MSLEN 313  
MSLFA (60) SMS 314  
MSLOCN (8) SMS 313  
MSLWMFSTG (5C) SMS 314  
MSNPAGP (0) SMS 313  
MSPPWWS (38) SMS 314  
MSRDSA (BIT) SMS 314  
MSREADONLY (BIT) SMS 314  
MSRENTPGM (3) SMS 313  
MSRENTPGMNP (BIT) SMS 314  
MSRENTPGMP (BIT) SMS 314  
MSRSDSA (BIT) SMS 314  
MSRSDS (40) SMS 314  
MSSTGPROT (2) SMS 313  
MSSTGPROTA (BIT) SMS 314  
MSSTGPROTNA (BIT) SMS 314  
MSSSV (64) SMS 314  
MSSTRANISO (4) SMS 313  
MSSTRANISOA (BIT) SMS 314  
MSSTRANISONA (BIT) SMS 314  
MSSTSOS 314  
MSUCSS (2C) SMS 314  
MSUDSA (BIT) SMS 314  
MSUSER (BIT) SMS 314  
MSUSSCUM (C) SMS 313  
SMSUSSCUR 313  
SMSUSSHWM (10) SMS 313  
SMSVERS (BIT) SMS 313  
SMT 315  
SMTABOVE (BIT) SMT 315  
SMTACCESS (9) SMT 315  
SMTBELOW (BIT) SMT 315  
SMTBEND (BIT) SMT 315  
SMTBLEN (BIT) SMT 315  
SMTBODY (0) SMT 315  
SMTCDSA (BIT) SMT 315  
SMTCES (14) SMT 315  
SMTCICS (BIT) SMT 315  
SMTCNE (1C) SMT 315  
SMTCP (18) SMT 315  
SMTDSAINDEX (A) SMT 315  
SMTDSANAME (0) SMT 315  
SMTDVERS (4) SMT 315  
SMTECDSA (BIT) SMT 315  
SMTEUDSA (BIT) SMT 315  
SMTFMREQ (10) SMT 315  
SMTGEND 315  
SMTGLEN (BIT) SMT 315  
SMTGLOBAL (0) SMT 315  
SMTGMREQ 315  
SMTSHEND 315  
SMTSHLEN (BIT) SMT 315  
SMTHWMP (20) SMT 315  
SMTID (2) SMT 315  
SMTIDE (BIT) SMT 315  
SMTLEN 315  
SMTLOCN (8) SMT 315  
SMTNTASK (0) SMT 315  
SMTUDSA (BIT) SMT 315  
SMTUSER (BIT) SMT 315  
SMTVERS (BIT) SMT 315  
SMXDF\_ENTRY 2 DUA 96  
SMXDF\_EXIT 2 DUA 96  
SMXDF\_RECOVERY 2 DUA 97  
SN2ENTBP (4) WS2 545  
SN2ESSOF (14) WS2 545  
SN2FUNC (0) WS2 545  
SN2PLIST (0) WS2 545  
SN2PLL (BIT) WS2 545  
SN2STATA (C) WS2 545  
SN2WSSPP (8) WS2 545  
SN2XRFNT (10) WS2 545  
SN3 546  
SN3CIBFP (20) WS3 546  
SN3FAA (28) WS3 546  
SN3GAPPL (0) WS3 546  
SN3MVSID (10) WS3 546  
SN3PLIST (0) WS3 546  
SN3PLL (BIT) WS3 546  
SN3SAPPL (8) WS3 546  
SN3VSAMB (24) WS3 546  
sna  
ISC LUIT & sna management statistics, A21 26  
SNE 316  
SNE\_CONSOLE (21) SNE 319  
SNE\_CONSOLE\_REFLECT\_EVERY\_USER (BIT) SNE 319  
SNE\_CONSOLE\_REFLECT\_FIRST\_USER (BIT) SNE 319  
SNE\_END 319  
SNE\_EQUIVALENT\_SYSTEMS (BIT) SNE 318  
SNE\_FLAGS (20) SNE 318  
SNE\_FLAGS2 319  
SNE\_LUIT\_TABLE\_UPDATED (BIT) SNE 318  
SNE\_LUIT\_USERID (23) SNE 319  
SNE\_LUIT\_USERID\_LEN (22) SNE 319  
SNE\_PRESET\_SECURITY (BIT) SNE 318  
SNE\_PRESET\_USERID\_PRESENT (BIT) SNE 318  
SNE\_PRINCIPAL\_USER\_TOKEN (0) SNE 316  
SNE\_SAVED\_ATL\_STATUS (BIT) SNE 317  
SNE\_SESSION\_SIGNED\_ON (BIT) SNE 318  
SNE\_SESSION\_SIGNED\_ON\_AS\_DEFAULT (BIT) SNE 318  
SNE\_SESSION\_USER\_TOKEN (4) SNE 316  
SNE\_SESSION\_USER\_TOKEN\_X (BIT) SNE 318  
SNE\_TIMEOUT\_ELIGIBLE (BIT) SNE 317  
SNE\_TIMEOUT\_ENABLED (BIT) SNE 317  
SNE\_TIMEOUT\_FLAGS (14) SNE 317  
SNE\_TIMEOUT\_INTERVAL (10) SNE 317  
SNE\_TIMEOUT\_TIME (8) SNE 317  
SNE\_TIMEOUT\_TIMEDOUT (BIT) SNE 317

"Restricted Materials of IBM"  
 Licensed Materials – Property of IBM

SNEX\_TXN\_COUNT 318  
 SNEX\_TXN\_ERROR\_COUNT (1C) SNEX 318  
 SNEX\_USERID (0) SNEX 316  
 SNEX\_USERID\_LENGTH 317  
 SNEX\_XRF\_FLAGS 317  
 SNEX\_XRF\_REFLECTABLE (BIT) SNEX 317  
 SNGN 319  
 SNGS 320  
 SNSTA 321  
 SNSTA\_LENGTH 2 SNSTA 321  
 SNT  
   sign-on LUIT and SNT statistics, SNSTA 321  
 SONEDINA (4) WS2 545  
 SONENTAB (0) WS2 545  
 SONESSN2 (0) WS2 545  
 SONESXPI (8) WS2 545  
 SOR\_BACKLOG 322  
 SOR\_BYTES\_RECEIVED (54) SORDS 322  
 SOR\_BYTES\_SENT (48) SORDS 322  
 SOR\_CICS\_INFO 205  
 SOR\_CICS\_RELEASE (0) LGGF 205  
 SOR\_CICS\_USERNAME (C) LGGF 205  
 SOR\_CLOSE\_GMT (2C) SORDS 322  
 SOR\_CLOSE\_LOCAL (34) SORDS 322  
 SOR\_CURRENT\_CONNS (14) SORDS 322  
 SOR\_IP\_ADDRESS (5C) SORDS 322  
 SOR\_OPEN\_GMT (1C) SORDS 322  
 SOR\_OPEN\_LOCAL (24) SORDS 322  
 SOR\_PEAK\_CONNS (18) SORDS 322  
 SOR\_PORT\_NUMBER (3C) SORDS 322  
 SOR\_REC\_TYPE 2 LGGF 206  
 SOR\_RECEIVES (50) SORDS 322  
 SOR\_SENDS (44) SORDS 322  
 SOR\_SERVICE\_NAME 322  
 SOR\_SPECIFIC\_APPLID (4) LGGF 205  
 SOR\_SSL\_CLI\_AUTH (BIT) SORDS 322  
 SOR\_SSL\_NO (BIT) SORDS 322  
 SOR\_SSL\_SUPPORT (3E) SORDS 322  
 SOR\_SSL\_YES (BIT) SORDS 322  
 SOR\_TRANS\_ATTACHED (10) SORDS 322  
 SOR\_VERS (BIT) SORDS 322  
 SORDS 322  
 SORDS\_END 322  
 SORDS\_ID (2) SORDS 322  
 SORDS\_LEN (0) SORDS 322  
 SORDS\_LENGTH (BIT) SORDS 322  
 SORDS\_VERS (4) SORDS 322  
 SORIDR (BIT) SORDS 322  
 SPACE1 1 DUA 97  
 SPACE2 1 DUA 97  
 SPACE3 1 DUA 97  
 SPAXPTR (38) EICD1 114  
 specific  
   file specific statistics, A09 19  
 SPECIFIED\_AMODE (1B) DCR 68  
 SPECIFIED\_RMODE (1C) DCR 68  
 SPI 323  
 spooling  
   printer spooling subsystem, PSP 275  
   system spooling interface, PSG 273  
 SRA 325  
 SRAAD (BIT) SRA 325  
 SRAFLAGS (0) SRA 325  
 SRAFLAGS2 (1) SRA 325  
 SRAICIP (BIT) SRA 325  
 SRALRQCT 325  
 SRARQCHN 325  
 SRARQEND 325  
 SRARQLIM (34) SRA 325  
 SRARQLMV (BIT) SRA 325  
 SRASCHED (BIT) SRA 325  
 SRASHORT (2C) SRA 325  
 SRASRLIM (38) SRA 325  
 SRASRLMV (BIT) SRA 325  
 SRASRQXS 325  
 SRASRXA 325  
 SRATOTAL (30) SRA 325  
 SRAVTAM (BIT) SRA 325  
 SRB 326  
   SRB interface mapping, SRA 325  
 SRB (0) SRB 326  
 SRB1STS (BIT) SRB 327  
 SRBASC24 327  
 SRBASCBC (8) SRB 327  
 SRBBLK24 (BIT) SRB 327  
 SRBCPAFF (C) SRB 327  
 SRBEND (2C) SRB 327  
 SRBEP (14) SRB 327  
 SRBEPA (14) SRB 327  
 SRBFLC (C) SRB 327  
 SRBFLGS (25) SRB 327  
 SRBFLGS1 (27) SRB 327  
 SRBFLNK (4) SRB 326  
 SRBFRRR (28) SRB 327  
 SRBFRRCL (BIT) SRB 327  
 SRBFRRREQ (BIT) SRB 327  
 SRBHLHI (26) SRB 327  
 SRBID (0) SRB 326  
 SRBLLHLD (BIT) SRB 327  
 SRBLLREQ (BIT) SRB 327  
 SRBMAIN (BIT) SRB 327  
 SRBMODE (BIT) SRB 327  
 SRBMSCHD (BIT) SRB 327  
 SRBPARM (1C) SRB 327  
 SRBPASID (E) SRB 327  
 SRBPKF (24) SRB 327  
 SRBPMCS (BIT) SRB 327  
 SRBPNONQ (BIT) SRB 327  
 SRBPRIOR (25) SRB 327  
 SRBPSYS (BIT) SRB 327  
 SRBPTCB (10) SRB 327  
 SRBRES7 (BIT) SRB 327  
 SRBRMODE (BIT) SRB 327  
 SRBRMTR (18) SRB 327  
 SRBRMTRA (18) SRB 327  
 SRBSAVE (20) SRB 327  
 SRBSECT (0) SRB 326  
 SRBSIZE (BIT) SRB 327  
 SRBSP245 (BIT) SRB 327  
 SRBSUSP (BIT) SRB 327  
 SRBWEB (20) SRB 327  
 SRBXESF (BIT) SRB 327  
 SRED 328  
 SRHEADER (0) WSR 541  
 SRHEADRL (BIT) WSR 541  
 SRHSEQ 541  
 SRHTOD (0) WSR 541  
 SRHWSAS (BIT) WSR 541  
 SRP\_ALET (178) SRED 328  
 SRP\_CICS\_AC\_REGST (78) SRED 328  
 SRP\_CICS\_AR\_MODE 328  
 SRP\_CICS\_CODE (BIT) SRED 328  
 SRP\_CICS\_EC\_INT (30) SRED 328  
 SRP\_CICS\_EC\_PSW (28) SRED 328  
 SRP\_CICS\_ERROR\_DATA 328  
 SRP\_CICS\_EXEC\_KEY (B8) SRED 328  
 SRP\_CICS\_REGST (38) SRED 328  
 SRP\_ERROR\_DATA (0) SRED 328  
 SRP\_ERROR\_FLAGS (20) SRED 328  
 SRP\_ERROR\_FP\_REGS 328  
 SRP\_ERROR\_OFFSET (1C) SRED 328  
 SRP\_ERROR\_PPT\_NAME (14) SRED 328  
 SRP\_ERROR\_REASON 328  
 SRP\_ERROR\_STACK\_NAME (C) SRED 328  
 SRP\_ERROR\_SUBSPACE\_INFO (178) SRED 328  
 SRP\_ERROR\_TRANID (8) SRED 328  
 SRP\_ERROR\_TYPE (0) SRED 328  
 SRP\_FP\_REG\_0 (158) SRED 328  
 SRP\_FP\_REG\_2 (160) SRED 328  
 SRP\_FP\_REG\_4 (168) SRED 328  
 SRP\_FP\_REG\_6 (170) SRED 328  
 SRP\_NOT\_CICS\_RB (BIT) SRED 328  
 SRP\_PPT\_ENTRY (BIT) SRED 328  
 SRP\_SUBSPACE\_ACTIVE (BIT) SRED 328  
 SRP\_SUBSPACE\_FLAGS (184) SRED 328  
 SRP\_SUBSPACE\_TOKEN (17C) SRED 328  
 SRP\_SYS\_ABCODE (4) SRED 328  
 SRP\_SYSTEM\_AC\_REGST (110) SRED 328  
 SRP\_SYSTEM\_AR\_MODE (C3) SRED 328  
 SRP\_SYSTEM\_EC\_INT (C8) SRED 328  
 SRP\_SYSTEM\_EC\_PSW (C0) SRED 328  
 SRP\_SYSTEM\_ERROR\_DATA 328  
 SRP\_SYSTEM\_EXEC\_KEY (150) SRED 328  
 SRP\_SYSTEM\_REGST (D0) SRED 328  
 SRP\_USER\_ABCODE (6) SRED 328  
 SRP\_USER\_CODE (BIT) SRED 328

SRP\_VALID\_OFFSET (BIT) SRED 328  
 SRP\_VALID\_REASON (BIT) SRED 328  
 SRT 329  
 SRTABCID (0) SRT 329  
 SRTED (BIT) SRT 329  
 SRVCHBLM (4) WSR 541  
 SRVCHBOD (0) WSR 541  
 SRVCHBPM (3) WSR 541  
 SRVCIOEM (5) WSR 541  
 SRVCLHT (8) WSR 541  
 SRVCLS 541  
 SRVCOM (0) WSR 541  
 SRVCOML (BIT) WSR 541  
 SRVCPBS 541  
 SRVCSOFA (1) WSR 541  
 SRVCSVCF (2) WSR 541  
 SRXAAD 327  
 SRXCSAA (34) SRB 327  
 SRXEXLA (38) SRB 327  
 SRXKCSPA (3C) SRB 327  
 SRXNXSVA 327  
 SRXPPKEY (54) SRB 327  
 SRXRSCA (40) SRB 327  
 SRXRTNA 327  
 SRXSAVE 327  
 SRXSBPL (BIT) SRB 327  
 SRXVAA (44) SRB 327  
 SRXVEA (48) SRB 327  
 SRXVSA (50) SRB 327  
 SRXVTA (4C) SRB 327  
 SSA 329  
 SSAAITM (4) SSA 329  
 SSAAPDM (50) SSA 329  
 SSAAPLH (48) SSA 329  
 SSAAPRD (24) SSA 329  
 SSACPI (0) SSA 329  
 SSACRL 329  
 SSADB2 (34) SSA 329  
 SSADLI 329  
 SSAICP 329  
 SSAKCP (28) SSA 329  
 SSALEN (BIT) SSA 329  
 SSAPCFLG (18) SSA 329  
 SSAPRM (8) SSA 329  
 SSARCP (38) SSA 329  
 SSASKM (2C) SSA 329  
 SSASTOP (54) SSA 329  
 SSASZ (30) SSA 329  
 SSATMP (14) SSA 329  
 SSATSP (20) SSA 329  
 SSAXRF 329  
 SSAXRP (44) SSA 329  
 SSC\_SET\_ADDRESS (0) SETCC 289  
 SSC\_SET\_BELOW (BIT) SETCC 289  
 SSC\_SET\_CICS (BIT) SETCC 289  
 SSC\_SET\_FLAGS (6) SETCC 289  
 SSC\_SET\_LENGTH (4) SETCC 289  
 ST\_FLAGS 92  
 stack  
 XRF LIFO stack area, WXL 555  
 STACTIME (18) DBU 64  
 STADTIME (20) DBU 64  
 STAEI MAX (34) DBU 64  
 STAHIWAT (3C) DBU 64  
 STALCTIM (44) DBU 64  
 STALDTIM (4C) DBU 64  
 STAMATHD (2A) DBU 64  
 STAMITHD (28) DBU 64  
 standard  
 LIFO parameter list and standard DSA, LFM 202  
 STANDARD\_ARROW (2) APSTG 9  
 STANDARD\_DFH (3) APSTG 9  
 STANOMATHD (30) DBU 64  
 STANOMITHD (2C) DBU 64  
 STAPSBSU (40) DBU 64  
 STARSSEN (10) DBU 64  
 STATDBID (C) DBU 64  
 state  
 XRF CAVM state manager parameter list, WSS 542  
 XRF CAVM state manager record description, WSM 538  
 static  
 file control static storage, FCS 139

static (continued)  
 recovery control static storage, RCS 277  
 static storage area address list, SSA 329  
 table manager static storage area, TMS 440  
 transaction manager static storage, KCS 195  
 transient data static storage, TDST 424  
 XRF CAVM static control block, WCS 517  
 XRF static storage definition, XRS 574  
 statistics  
 application domain global statistics, APSTG 9  
 autoinstall statistics, A04 15  
 cfdt server cf statistics, CFS6D 46  
 cfdt server request statistics, CFS8D 48  
 cfdt server storage statistics, CFS9D 49  
 cfdt server table statistics, CFS7D 47  
 cics/db2 global statistics, D2GDS 106  
 cics/db2 resource statistics, D2RDS 108  
 DBCTL unsolicited statistics, DBU 64  
 dispatcher statistics, DSG 85  
 domain subpool storage statistics, SMD 310  
 dump domain global statistics, SDG 287  
 dump domain system dump statistics, SDR 288  
 dump domain transaction dump statistics, DUTD 101  
 enqueue manager global statistics, NQG 247  
 fepi connection statistics, A23 28  
 fepi pool statistics, A22 27  
 fepi target statistics, A24 29  
 file control statistics, A17 23  
 file specific statistics, A09 19  
 ISC LUIT & sna management statistics, A21 26  
 ISC/IRC mode entry statistics, A20 25  
 ISC/IRC statistics, A14 20  
 loader statistics for programs, LDRDS 201  
 loader statistics, LDGDS 200  
 log manager journal statistics, LGRDS 209  
 log manager logstream statistics, LGSDS 210  
 LSR pool statistics, A08 17  
 monitoring domain statistics, MNG 234  
 named counter server cf statistics, NCS4D 243  
 named counter server storage statistics, NCS5D 244  
 pagepool storage statistics, SMS 313  
 program manager statistics, PGGPC 271  
 recovery manager global statistics, RMG 278  
 shared ts queue server buffer statistics, XQS2D 570  
 shared ts queue server cf statistics, XQS1D 569  
 shared ts queue server storage statistics, XQS3D 571  
 sign-on LUIT and SNT statistics, SNSTA 321  
 statistics domain statistics, STG 330  
 statistics record identifiers, STI 331  
 storage subpool storage statistics, SMT 315  
 table manager statistics, A16 22  
 temporary storage domain statistics, TSG 460  
 terminal statistics, A06 16  
 transient data global statistics, TQG 444  
 transient data statistics, TQR 445  
 VTAM global statistics, A03 14  
 stats  
 transaction manager global stats, XMGDS 566  
 transaction manager TCLASS stats, XMCDs 565  
 transaction manager transaction stats, XMRDS 567  
 STATS\_BUFFER\_LARGE (108) APSTG 10  
 STATS\_BUFFER\_SIZE 4 DUA 95  
 STATSENO 64  
 status  
 XRF CAVM surveillance status, WSA 534  
 STG 330  
 STGCLEN (BIT) STG 330  
 STGDVERS (4) STG 330  
 STGEND (BIT) STG 330  
 STGID (2) STG 330  
 STGIDE (BIT) STG 330  
 STGLDW (10) STG 330  
 STGLEN 330  
 STGNC 330  
 STGSMFW (C) STG 330  
 STGVERS (BIT) STG 330  
 STI 331  
 STIAUTO (BIT) STI 331  
 STICLEN (BIT) STI 331  
 STICONMR (BIT) STI 331  
 STICONSR (BIT) STI 331  
 STICONSS (BIT) STI 331  
 STID (2) STI 331

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STID2G (BIT) STI 331  
 STID2R (BIT) STI 331  
 STIDBUSS (BIT) STI 331  
 STIDS (BIT) STI 331  
 STIEND (BIT) STI 331  
 STIFCR (BIT) STI 331  
 STIFEPIC (BIT) STI 331  
 STIFEPIP (BIT) STI 331  
 STIFEPIT (BIT) STI 331  
 STILDG (BIT) STI 331  
 STILDR (BIT) STI 331  
 STILEN 331  
 STILGR (BIT) STI 331  
 STILGS (BIT) STI 331  
 STILSRFR (BIT) STI 331  
 STILSRR (BIT) STI 331  
 STIM (BIT) STI 331  
 STIMERM\_FAILED (BIT) XCTRC 557  
 STIMNR (BIT) STI 331  
 STINQG (BIT) STI 331  
 STIPAUTO (BIT) STI 331  
 STIRMG (BIT) STI 331  
 STISDG (BIT) STI 331  
 STISDR (BIT) STI 331  
 STISMD (BIT) STI 331  
 STISMDSA (BIT) STI 331  
 STISMT (BIT) STI 331  
 STISOR (BIT) STI 331  
 STIST (BIT) STI 331  
 STITCR (BIT) STI 331  
 STITDG (BIT) STI 331  
 STITDQG (BIT) STI 331  
 STITDQR (BIT) STI 331  
 STITDR (BIT) STI 331  
 STITM (BIT) STI 331  
 STITSQ (BIT) STI 331  
 STIUSG (BIT) STI 331  
 STIVERS (4) STI 331  
 STIVT (BIT) STI 331  
 STIXMC (BIT) STI 331  
 STIXMG (BIT) STI 331  
 STIXMR (BIT) STI 331  
 STOPPER 1 EICD1 118  
 storage  
 cfdt server storage statistics, CFS9D 49  
 domain subpool storage statistics, SMD 310  
 EXEC interface dynamic storage, EISTG 125  
 file control static storage, FCS 139  
 global trap working storage, TRGTW 459  
 named counter server storage statistics, NCS5D 244  
 pagepool storage statistics, SMS 313  
 recovery control static storage, RCS 277  
 set storage control, SETCC 289  
 shared ts queue server storage statistics, XQS3D 571  
 static storage area address list, SSA 329  
 storage accounting area, SAA 286  
 storage subpool storage statistics, SMT 315  
 table manager static storage area, TMS 440  
 task local storage definition, SPI 323  
 temporary storage domain statistics, TSG 460  
 temporary storage EXEC parameter list, TSUE 462  
 temporary storage input/output area, TSIOA 461  
 temporary storage table, TST 461  
 transaction manager static storage, KCS 195  
 transient data static storage, TDST 424  
 XRF static storage definition, XRS 574  
 XRF/DBCTL subtask storage, DXQEL 104  
 STORAGE\_BLOCK\_NAME (8) APSTG 10  
 STORAGE\_DOMAIN\_ID (6) APSTG 9  
 STORAGE\_LENGTH (0) APSTG 9  
 STORAGE\_PREFIX (0) APSTG 9  
 structure  
 EXEC interface structure, EIS 122  
 EXEC interface user structure, EIUS 125  
 monitoring domain user EMP structure, MNEMP 232  
 structures  
 trace domain - common structures, TRA 447  
 trace domain - common structures, TRBL 450  
 stste  
 XRF mapping session stste vector '29', TCV29 418  
 ststistics  
 dump domain global statistics, DUGS 100  
 STT1 115  
 STTC (3F) EICD1 115  
 STTXPTR (8) EICD1 114  
 stub  
 gntran stub parameter list for cegn, SNGN 319  
 SU\_DCB\_ERROR (BIT) DUA 89  
 subpool  
 domain subpool storage statistics, SMD 310  
 storage subpool storage statistics, SMT 315  
 subroutine  
 domain subroutine equates, ZGDC 591  
 SUBSPACE\_ACT (BIT) DUA 93  
 subsystem  
 printer spooling subsystem, PSP 275  
 subsystem anchor block, SAB 286  
 subtask  
 skp subtask control area, SKA 304  
 subtask management parameter block, SKRQ 307  
 XRF/DBCTL subtask storage, DXQEL 104  
 supplied  
 user supplied route list entry, URL 501  
 SUPPRESS (BIT) SIP 291  
 surveillance  
 XRF CAVM surveillance exits, WSX 544  
 XRF CAVM surveillance status, WSA 534  
 XRF CAVM surveillance, WSR 541  
 SWITCH\_IN\_PROG (BIT) DUA 90  
 SWITCH\_IN\_PROG\_NO 0 DUA 94  
 SWITCH\_IN\_PROG\_YES 0 DUA 94  
 SY (0) EICD1 116  
 SY1 (0) EICD1 117  
 SYNXPTR (30) EICD1 114  
 SYS\_DUMPS\_SUPPR (C) SDG 287  
 SYS\_DUMPS\_TAKEN 287  
 SYSNMHDR (0) FCS 144  
 SYSNMID (0) FCS 144  
 SYSNMIDC 8 FCS 144  
 SYSNMLEN (8) FCS 144  
 SYSNMNUL 8 FCS 144  
 SYSNMVAL 144  
 SYSNMVER (C) FCS 144  
 SYSNMVRC 1 FCS 144  
 system  
 common system area generator, CSA 52  
 dump domain system dump statistics, SDR 288  
 system initialisation program, SIP 290  
 system initialisation table, SIT 292  
 system logical device code table, SLDC 309  
 system recovery error data, SRED 328  
 system recovery table, SRT 329  
 system spooling interface, PSG 273  
 task control area - system area, TCADY 353  
 SYSTEM\_DUMP\_TKN (BIT) XCTRC 557  
 SYSTEM\_ERROR\_ACCESS\_REGISTERS (130) KERRD 198  
 SYSTEM\_ERROR\_ACCESS\_REGST (130) KERRD 197  
 SYSTEM\_ERROR\_AR\_MODE (BIT) KERRD 197  
 SYSTEM\_ERROR\_BC\_PSW (D0) KERRD 197  
 SYSTEM\_ERROR\_DATA (D0) KERRD 197  
 SYSTEM\_ERROR\_EC\_ADD (E0) KERRD 197  
 SYSTEM\_ERROR\_EC\_BYTE3 197  
 SYSTEM\_ERROR\_EC\_PSW (D8) KERRD 197  
 SYSTEM\_ERROR\_INSTRUCTION\_ADDR (E8) KERRD 197  
 SYSTEM\_ERROR\_KEY (EC) KERRD 197  
 SYSTEM\_ERROR\_REGISTERS (F0) KERRD 197  
 SYSTEM\_ERROR\_REGST 197  
 SYSTEMER (20) SPI 323  
 T  
 TA050202 (BIT) FMH 158  
 TA0502FF (BIT) FMH 159  
 TA060802 (BIT) FMH 159  
 TABADVB (2) EICD1 114  
 TABEND (8) EICD1 115  
 TABFLAGS (0) EICD1 114  
 TABINFO (0) EICD1 114  
 table  
 application file control table, AFCT 4  
 attach table, ATD 12  
 cfdt server table statistics, CFS7D 47  
 command list table, CLT 50  
 destination control table, DCT 69

table ( <i>continued</i> )			
file control table entry layout, FCT	145		
file control transformer table entries, FCENT	134		
language definition table, EICD1	114		
profile table entry, PFT	266		
program list table entry, PLT	271		
system initialisation table, SIT	292		
system logical device code table, SLDC	309		
system recovery table, SRT	329		
table manager directory element, TMDEL	436		
table manager directory segment, TMDSG	437		
table manager parameter list, TMRQ	439		
table manager read lock block, TMELD	438		
table manager scatter table, TMSKT	442		
table manager static storage area, TMS	440		
table manager statistics, A16	22		
tc local logical device code table, LLDC	211		
temporary storage table, TST	461		
terminal control table line entry, TCTLE	368		
terminal control table prefix, TCTFX	359		
transaction list table, XLT	565		
user exit table entry, UETE	499		
user exit table header, UETH	500		
XRF entry points table, WSN	540		
zcp local userid table definition, ZLUIT	606		
TABLE_FREEMAIN_REQ (BIT) XCTRC	556		
TABOP (4) EICD1	114		
TABOPFLG (3) EICD1	114		
TABOPND (3) EICD1	114		
TABPA (6) EICD1	115		
TABVB (1) EICD1	114		
TABXPTR (0) EICD1	114		
TACB	332		
TACCUER (BIT) TACLE	333		
TACLE	333		
TACNPRO (BIT) TACLE	333		
TACNTEP (BIT) TACLE	333		
takeover			
XRF takeover initiation argument block, WTA	547		
XRF takeover parameter area, WST	543		
target			
fepi target statistics, A24	29		
task			
task control area - system area, TCADY	353		
task control area, TCA	334		
task interface element, TIE	432		
task local storage definition, SPI	323		
task related user exit plist, UEPAR	473		
TB060802 (BIT) FMH	159		
tc			
tc local logical device code table, LLDC	211		
TC29BAK (BIT) TCV29	419		
TC29CON (BIT) TCV29	419		
TC29DFLW	419		
TC29ERR (BIT) TCV29	419		
TC29EXP (BIT) TCV29	419		
TC29FOR (BIT) TCV29	419		
TC29IKEY (0) TCV29	419		
TC29KEY (BIT) TCV29	419		
TC29LEN (1) TCV29	419		
TC29OLEN (BIT) TCV29	420		
TC29PAC (BIT) TCV29	419		
TC29PFNU (5) TCV29	420		
TC29PFRH (7) TCV29	420		
TC29PPNU	420		
TC29PPRH (16) TCV29	420		
TC29PPRU (18) TCV29	420		
TC29PQNU	420		
TC29PQRH (C) TCV29	420		
TC29PQRU (F) TCV29	420		
TC29PRI (BIT) TCV29	419		
TC29PRX (BIT) TCV29	419		
TC29PXPH (29) TCV29	420		
TC29PXPNU	420		
TC29PXPU (2B) TCV29	420		
TC29PXQH (1F) TCV29	420		
TC29PXQN (1D) TCV29	420		
TC29PXQU (22) TCV29	420		
TC29REQ	419		
TC29RSP (BIT) TCV29	419		
TC29SFNU (30) TCV29	420		
TC29SFRH (32) TCV29	420		
TC29SPNU	420		
TC29SPRH (41) TCV29	420		
TC29SPRU (43) TCV29	420		
TC29SQNU	420		
TC29SQRH (37) TCV29	420		
TC29SQRU (3A) TCV29	420		
TC29SRX (BIT) TCV29	419		
TC29STAT (2) TCV29	419		
TC29STP (BIT) TCV29	419		
TC29SXPB (54) TCV29	420		
TC29SXPN	420		
TC29SXPU (56) TCV29	420		
TC29SXQH (4A) TCV29	420		
TC29SXQN (48) TCV29	420		
TC29SXQU (4D) TCV29	420		
TCA	334		
TCA extension for LU6.2, TCX	421		
TCA_PTR (4) DUA	93		
TCAA0C4 (BIT) TCA	335		
TCAAAM	337, 355		
TCAAAM31 (BIT) TCA	337		
TCAAAM31 (BIT) TCADY	355		
TCAABDPM (BIT) TCA	335		
TCAABIPM (BIT) TCA	335		
TCAABRAM (BIT) TCA	335		
TCAABREC (BIT) TCA	335		
TCAACB	1 TCA 348		
TCAACMSG (1C9) TCA	337		
TCAACMSG (C9) TCADY	355		
TCAACPAC (BIT) TCA	334		
TCAALFLG (138) TCADY	355		
TCAALFLG (238) TCA	338		
TCAALRES (BIT) TCA	338		
TCAALRES (BIT) TCADY	355		
TCAALUCX (118) TCADY	355		
TCAALUCX (218) TCA	338		
TCAAPFLG (1CB) TCA	337		
TCAAPFLG (CB) TCADY	355		
TCAAPRET (1AC) TCADY	356		
TCAAPRET (2AC) TCA	338		
TCAAPRTF (1A2) TCADY	356		
TCAAPRTF (2A2) TCA	338		
TCAATAC (D8) TCA	335		
TCABMMC (116) TCADY	355		
TCABMMC (216) TCA	338		
TCABMMH (115) TCADY	355		
TCABMMH (215) TCA	338		
TCABMML (117) TCADY	355		
TCABMML (217) TCA	338		
TCABMMSA (110) TCADY	355		
TCABMMSA (210) TCA	338		
TCABMMSN (108) TCADY	355		
TCABMMSN (208) TCA	338		
TCABMMW (114) TCADY	355		
TCABMMW (214) TCA	338		
TCABMSCP (6E) TCA	344		
TCABMSDA (74) TCA	344		
TCABMSFB (6C) TCA	344		
TCABMSMA (70) TCA	344		
TCABMSMN (70) TCA	344		
TCABRPS	337, 354		
TCABRPSR	337, 354		
TCABRW	1 TCA 348		
TCABRWUL	1 TCA 348		
TCACAAAD (194) TCA	337		
TCACAAAD (94) TCADY	354		
TCACANCF	1 TCA 348		
TCACANCL	1 TCA 348		
TCACBAR	1 TCA 348		
TCACCBA	(60) TCA 335		
TCACCBA (C4) TCA	335		
TCACCRS (84) TCA	335		
TCACCSV1 (BC) TCA	335		
TCACCSV2	335		
TCACDSA	1 TCA 348		
TCACEPT (198) TCA	337		
TCACEPT (98) TCADY	354		
TCACELCK (BIT) TCA	339		
TCACELCK (BIT) TCADY	356		
TCACEM	1 TCA 348		
TCACHKAD (BIT) TCA	339		
TCACHKAD (BIT) TCADY	356		
TCACJVMF (1F7) TCA	338		
TCACJVMF (F7) TCADY	355		



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TCACPCCN (1D8) TCADY 356	TCADIQFD 1 TCA 352
TCACPCCN (2D8) TCA 338	TCADIQFU (BIT) TCA 347
TCACRABC 337, 355	TCADIQIB 1 TCA 352
TCACSAAD (DC) TCA 335	TCADIQID 1 TCA 352
TCACSOAD (C) TCA 334	TCADIQIF 1 TCA 352
TCACTCMT 335	TCADIQIK 1 TCA 352
TCACTFBF (BIT) TCA 335	TCADIQIR 1 TCA 352
TCACTIND (BIT) TCA 335	TCADIQIV 1 TCA 352
TCACURM (BIT) TCA 338	TCADIQLD 1 TCA 352
TCACURM (BIT) TCADY 355	TCADIQLF 1 TCA 352
TCADBABC (17C) TCA 337	TCADIQLV 1 TCA 352
TCADBABC (7C) TCADY 354	TCADIQND 1 TCA 352
TCADBCTL (BIT) TCA 337	TCADIQNM 1 TCA 352
TCADBCTL (BIT) TCADY 355	TCADIQRE 1 TCA 352
TCADCAA (120) TCA 336	TCADIQSL 1 TCA 352
TCADCAA (20) TCADY 353	TCADIQSN 347
TCADCCSA (BIT) TCA 345	TCADIQSU 1 TCA 352
TCADCDC 345	TCADIQTD 1 TCA 352
TCADCDCT (BIT) TCA 345	TCADIQTS 1 TCA 352
TCADCEND 1 TCA 348	TCADIQTT 1 TCA 352
TCADCFCCT (BIT) TCA 345	TCADIQUA 1 TCA 352
TCADCIDT 1 TCA 348	TCADIQUF 1 TCA 352
TCADCIEL 1 TCA 348	TCADIQUI 1 TCA 352
TCADCIOA (BIT) TCA 345	TCADIQXD 1 TCA 352
TCADCISE 1 TCA 348	TCADIQXM 1 TCA 352
TCADCISY 1 TCA 348	TCADIRC 347
TCADCITW 1 TCA 348	TCADIRC1 (60) TCA 347
TCADCNB (62) TCA 345	TCADIRC2 (61) TCA 347
TCADCPCT 345	TCADIRLE 1 TCA 353
TCADCPGM (BIT) TCA 345	TCADIRNA (68) TCA 347
TCADCPPT (BIT) TCA 345	TCADISEL (67) TCA 347
TCADCRS 345	TCADIVNA (70) TCA 347
TCADCSA (64) TCA 345	TCADLBSY 1 TCA 351
TCADCSEG 345	TCADLCSP 1 TCA 351
TCADCSIT 345	TCADLDBC 1 TCA 352
TCADCTCA (BIT) TCA 345	TCADLDNF 1 TCA 351
TCADCTCT (BIT) TCA 345	TCADLFCA 1 TCA 351
TCADCTR 345	TCADLFCL 1 TCA 351
TCADCTRN (BIT) TCA 345	TCADLFDA 1 TCA 352
TCADCTRT (BIT) TCA 345	TCADLFPX 1 TCA 351
TCADIDNA (6C) TCA 347	TCADLFUF 1 TCA 351
TCADIDSP (74) TCA 347	TCADLFUN (70) TCA 345
TCADIFAB 1 TCA 353	TCADLIAC 1 TCA 351
TCADIFCA 1 TCA 353	TCADLIBA (1A8) TCADY 356
TCADIFCK 1 TCA 353	TCADLIBA (2A8) TCA 338
TCADIFDT 1 TCA 353	TCADLIDB 1 TCA 351
TCADIFEN 1 TCA 353	TCADLIGL 1 TCA 351
TCADIFIB 1 TCA 353	TCADLII 336, 354
TCADIFIR 1 TCA 353	TCADLINA 1 TCA 351
TCADIFKN (BIT) TCA 347	TCADLINT 1 TCA 351
TCADIFL1 (62) TCA 347	TCADLINV 1 TCA 351
TCADIFL2 (63) TCA 347	TCADLIO (78) TCA 345
TCADIFL3 (64) TCA 347	TCADLIRA 1 TCA 351
TCADIFL4 (65) TCA 347	TCADLISC 1 TCA 352
TCADIFND (BIT) TCA 347	TCADLISI (BIT) TCA 336
TCADIFNF (BIT) TCA 347	TCADLISI (BIT) TCADY 354
TCADIFNK (BIT) TCA 347	TCADLIST (1C8) TCA 337
TCADIFNM (BIT) TCA 347	TCADLIST (C8) TCADY 354
TCADIFNP (BIT) TCA 347	TCADLLAN (80) TCA 345
TCADIFNR (BIT) TCA 347	TCADLLNR 1 TCA 352
TCADIFNT 1 TCA 353	TCADLNA 1 TCA 352
TCADIFNV (BIT) TCA 347	TCADLNGL 1 TCA 351
TCADIFOA 1 TCA 352	TCADLNOI 1 TCA 351
TCADIFOE 1 TCA 352	TCADLNOP 1 TCA 351
TCADIFOQ 1 TCA 353	TCADLNPI 1 TCA 351
TCADIFOR 1 TCA 352	TCADLNR 1 TCA 351
TCADIFOS 1 TCA 353	TCADLPAR 345
TCADIFRR 347	TCADLPCB (74) TCA 345
TCADIFSS (BIT) TCA 347	TCADLPIF 1 TCA 351
TCADIFWT (BIT) TCA 347	TCADLPIN 1 TCA 351
TCADIKYA (68) TCA 347	TCADLPNF 1 TCA 351
TCADIKYN 348	TCADLPSB (68) TCA 345
TCADINRS (66) TCA 347	TCADLRC 345
TCADIPND (78) TCA 348	TCADLRE2 1 TCA 351
TCADIQAB 1 TCA 352	TCADLRIF 1 TCA 351
TCADIQAV 1 TCA 352	TCADLRNG 1 TCA 351
TCADIQAY 1 TCA 352	TCADLRS 346
TCADIQBD 1 TCA 352	TCADLSFI 1 TCA 351
TCADIQBE 1 TCA 352	TCADLSFP 1 TCA 351
TCADIQCD 1 TCA 352	TCADLSFS 1 TCA 351
TCADIQCN 1 TCA 352	TCADLSSA (7C) TCA 345
TCADIQDS (BIT) TCA 347	TCADLSTG 1 TCA 351
TCADIQEN 1 TCA 352	TCADLTEF 1 TCA 351

TCADLTR	(61)	TCA	345	TCAICRAM	1	TCA	349
TCADLUJB	(1A8)	TCADY	356	TCAICREQ	(134)	TCADY	355
TCADLUIB	(2A8)	TCA	338	TCAICREQ	(234)	TCA	338
TCADMTLA	(1E8)	TCA	337	TCAICRGW	1	TCA	349
TCADMTLA	(E8)	TCADY	355	TCAICRIP	1	TCA	349
TCADOMPM	(13C)	TCADY	355	TCAICRST	1	TCA	349
TCADOMPM	(23C)	TCA	338	TCAICRT	(70)	TCA	340
TCADSBA	(1A4)	TCADY	356	TCAICRTC	(BIT)	TCA	340
TCADSBA	(2A4)	TCA	338	TCAICRTL	(88)	TCA	340
TCADSTID	(188)	TCADY	355	TCAICRTR	(84)	TCA	340
TCADSTID	(288)	TCA	338	TCAICRTY	1	TCA	349
TCADUPQ	1	TCA	348	TCAICRVY	1	TCA	349
TCADWASV	(16C)	TCA	337	TCAICSCD	1	TCA	349
TCADWASV	(6C)	TCADY	354	TCAICSCH	1	TCA	349
TCADWLBA	(12C)	TCA	336	TCAICSRC	1	TCA	349
TCADWLBA	(2C)	TCADY	353	TCAICTEC	340		
TCADY	353			TCAICTFM	1	TCA	349
TCADYCSA	1	TCA	348	TCAICTI	(74)	TCA	340
TCADYRCT	1	TCA	348	TCAICTID	(78)	TCA	340
TCAECDSA	1	TCA	348	TCAICTKA	(80)	TCA	340
TCAEISA	(190)	TCA	337	TCAICTKX	(BIT)	TCA	340
TCAEISA	(90)	TCADY	354	TCAICTR	339		
TCAEISFL	337, 354			TCAICTR2	(7D)	TCA	340
TCAEISTG	(D0)	TCA	335	TCAICTXA	1	TCA	349
TCAEISUN	1	TCA	348	TCAICUDA	1	TCA	349
TCAEIUSA	(1CC)	TCADY	356	TCAICUSA	(78)	TCA	340
TCAEIUSA	(2CC)	TCA	338	TCAICUSR	(BIT)	TCA	340
TCAEMSI	(BIT)	TCA	339	TCAICUSS	(BIT)	TCA	340
TCAEMSI	(BIT)	TCADY	356	TCAICWTM	1	TCA	349
TCAEMSSV	(188)	TCA	337	TCAICXTM	1	TCA	349
TCAEMSSV	(88)	TCADY	354	TCAIDAA	(154)	TCA	336
TCAEND	(208)	TCADY	356	TCAIDAA	(54)	TCADY	353
TCAEND	(308)	TCA	339	TCAIIIRE	(1A0)	TCA	337
TCAENQ31	(BIT)	TCA	334	TCAIIIRE	(A0)	TCADY	354
TCAENQRR	(BIT)	TCA	335	TCAIRTC	(183)	TCA	337
TCAENQTA	(BIT)	TCA	334	TCAIRTC	(83)	TCADY	354
TCAERDSA	1	TCA	348	TCAJCAAD	(D4)	TCA	335
TCAEUDSA	1	TCA	348	TCAJOURN	(BIT)	TCA	335
TCAEXDLI	337, 354			TCAJVM	338, 355		
TCAFASTL	(BIT)	TCA	337	TCAJVMTK	338, 355		
TCAFASTL	(BIT)	TCADY	354	TCAJVMXT	(BIT)	TCA	338
TCAFCAAA	(8)	TCA	334	TCAJVMXT	(BIT)	TCADY	355
TCAFCAID	334			TCAKCAID	339		
TCAFCDCM	(BIT)	TCA	334	TCAKCATF	1	TCA	348
TCAFCCI	334			TCAKCATS	1	TCA	348
TCAFCCM	(BIT)	TCA	334	TCAKCCDM	(BIT)	TCA	339
TCAFPCTR	(8)	TCA	334	TCAKCDER	1	TCA	348
TCAFCTDM	1	TCA	348	TCAKCDST	339		
TCAFCTRM	(BIT)	TCA	334	TCAKCEPA	339		
TCAFLAGS	(181)	TCA	337	TCAKCF	(80)	TCA	339
TCAFLAGS	(81)	TCADY	354	TCAKCFI	339		
TCAFURM	(BIT)	TCA	338	TCAKCCM	(BIT)	TCA	339
TCAFURM	(BIT)	TCADY	355	TCAKCOID	(1C4)	TCA	337
TCAGFLG1	(6)	TCA	334	TCAKCOID	(C4)	TCADY	354
TCAIACB	337, 355			TCAKCOK	1	TCA	348
TCAIACCLS	(7C)	TCA	340	TCAKCPA	(74)	TCA	339
TCAIACNL	1	TCA	349	TCAKCPBA	(14)	TCA	334
TCAIACCSA	1	TCA	349	TCAKCPFA	(38)	TCA	335
TCAICDA	(64)	TCA	340	TCAKCPPL	(7C)	TCA	339
TCAICDFS	(BIT)	TCA	340	TCAKCPTR	(80)	TCA	339
TCAICDWE	1	TCA	349	TCAKCRC	339		
TCAICEAD	(130)	TCA	336	TCAKCRC2	(62)	TCA	339
TCAICEAD	(30)	TCADY	353	TCAKCREP	1	TCA	348
TCAICFA	(74)	TCA	340	TCAKCSRB	339		
TCAICFND	1	TCA	349	TCAKCSRI	1	TCA	349
TCAICGET	1	TCA	349	TCAKCSRK	1	TCA	349
TCAICGNR	1	TCA	349	TCAKCSRQ	1	TCA	348
TCAICGTM	1	TCA	349	TCAKCSRR	1	TCA	349
TCAICGWT	1	TCA	349	TCAKCSRW	1	TCA	349
TCAICHDR	(BIT)	TCA	340	TCAKCSSF	(64)	TCA	339
TCAICHSZ	(BIT)	TCA	340	TCAKCSYS	(74)	TCA	339
TCAICIDM	1	TCA	349	TCAKCTA	(80)	TCA	339
TCAICIND	1	TCA	349	TCAKCTI	(78)	TCA	339
TCAICINT	1	TCA	349	TCAKCTNF	1	TCA	348
TCAICNFD	1	TCA	349	TCAKCTRM	(BIT)	TCA	339
TCAICNRL	1	TCA	349	TCAKCTTA	336, 353		
TCAICPFM	1	TCA	349	TCAKCTTI	(1B0)	TCA	337
TCAICPST	1	TCA	349	TCAKCTTI	(B0)	TCADY	354
TCAICPTH	1	TCA	349	TCAKCUID	(65)	TCA	339
TCAICPUT	1	TCA	349	TCAKCUIL	(64)	TCA	339
TCAICQID	(68)	TCA	340				
TCAICQPX	(68)	TCA	340				

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TCAKCWRN	1	TCA	348
TCAKEDAD	(1F8)	TCADY	356
TCAKEDAD	(2F8)	TCA	339
TCALCDSA	(10)	TCA	334
TCALOCA	1	TCA	348
TCALOCR	1	TCA	348
TCALTFRE	(130)	TCADY	355
TCALTFRE	(230)	TCA	338
TCALTGET	(1A4)	TCA	337
TCALTGET	(A4)	TCADY	354
TCAMAPNM	(85)	TCA	344
TCAMCPY	(9C)	TCA	344
TCAMSAPR	(BIT)	TCA	343
TCAMSCBM	(BIT)	TCA	342
TCAMSDSS	(BIT)	TCA	343
TCAMSEIC	(BIT)	TCA	344
TCAMSEO	(BIT)	TCA	343
TCAMSEOC	(BIT)	TCA	343
TCAMSEOD	(BIT)	TCA	343
TCAMSEPO	(BIT)	TCA	343
TCAMSETI	(BIT)	TCA	343
TCAMSFMP			344
TCAMSFSC	(6C)	TCA	344
TCAMSHDR	(70)	TCA	344
TCAMSJET	(BIT)	TCA	342
TCAMSIFH	(BIT)	TCA	343
TCAMSIGR			343
TCAMSIMN	(BIT)	TCA	342
TCAMSIOA	(68)	TCA	344
TCAMSJOT	(BIT)	TCA	343
TCAMSJPF	(BIT)	TCA	343
TCAMSJPN	(BIT)	TCA	343
TCAMSJPR	(BIT)	TCA	344
TCAMSJPS	(BIT)	TCA	342
TCAMSJIR	(BIT)	TCA	342
TCAMSJ	(6D)	TCA	344
TCAMSJF	1	TCA	351
TCAMSJL	1	TCA	351
TCAMSLDC	(82)	TCA	344
TCAMSLDM	(80)	TCA	344
TCAMSLPS	(BIT)	TCA	343
TCAMSLST	(BIT)	TCA	343
TCAMSMGC	(BIT)	TCA	344
TCAMSMGM	(BIT)	TCA	344
TCAMSMSA	(78)	TCA	344
TCAMSMSN	(78)	TCA	344
TCAMSMSR	(90)	TCA	344
TCAMSMTL			342
TCAMSNR1	1	TCA	351
TCAMSOC			344
TCAMSOCN	(66)	TCA	343
TCAMSOI	(BIT)	TCA	343
TCAMSOPR	(BIT)	TCA	343
TCAMSOPT	(BIT)	TCA	343
TCAMSPGN	(64)	TCA	343
TCAMSPGS	(BIT)	TCA	343
TCAMSPOF	(64)	TCA	343
TCAMSPRI	(BIT)	TCA	342
TCAMSPSN	(70)	TCA	344
TCAMSRA	(BIT)	TCA	343
TCAMSRC1			342
TCAMSRC2	(61)	TCA	342
TCAMSRC3	(62)	TCA	343
TCAMSRC4	(BIT)	TCA	342
TCAMSRDA	(BIT)	TCA	344
TCAMSRF	(BIT)	TCA	342
TCAMSRJ	(BIT)	TCA	343
TCAMSR11	(63)	TCA	343
TCAMSRID	(83)	TCA	344
TCAMSRIN	(BIT)	TCA	343
TCAMSRLA	(70)	TCA	344
TCAMSRLOC	(BIT)	TCA	343
TCAMSRPL	(6E)	TCA	344
TCAMSRPT	(BIT)	TCA	343
TCAMSRQI	(BIT)	TCA	343
TCAMSRQS	(94)	TCA	344
TCAMSRSA	(BIT)	TCA	343
TCAMSRST	(BIT)	TCA	343
TCAMSRSTI	(74)	TCA	344
TCAMSRSTL	(BIT)	TCA	343
TCAMSRW	(BIT)	TCA	342
TCAMSSIG	(BIT)	TCA	344
TCAMSTA	(68)	TCA	344
TCAMSTC	(BIT)	TCA	343
TCAMSTCA	(BIT)	TCA	343
TCAMSTCK	(BIT)	TCA	343
TCAMSTCP	(BIT)	TCA	343
TCAMSTCR	(BIT)	TCA	343
TCAMSTCW	(BIT)	TCA	343
TCAMSTDN			343
TCAMSTDY	1	TCA	351
TCAMSTEU	(BIT)	TCA	343
TCAMSTFF	(BIT)	TCA	343
TCAMSTFP	(BIT)	TCA	344
TCAMSTH	(BIT)	TCA	343
TCAMSTI	(78)	TCA	344
TCAMSTJ	(BIT)	TCA	343
TCAMSTLD	(BIT)	TCA	343
TCAMSTMA	(BIT)	TCA	343
TCAMSTMN	(BIT)	TCA	343
TCAMSTOF	(BIT)	TCA	343
TCAMSTR1			343
TCAMSTR2	(61)	TCA	343
TCAMSTR3	(62)	TCA	343
TCAMSTR4	(63)	TCA	343
TCAMSTR5	(64)	TCA	343
TCAMSTR6	(65)	TCA	343
TCAMSTR7	(66)	TCA	343
TCAMSTR8	(67)	TCA	343
TCAMSTRB	(BIT)	TCA	343
TCAMSTRE	(BIT)	TCA	343
TCAMSTRF	(BIT)	TCA	343
TCAMSTRG	(BIT)	TCA	343
TCAMSTRI	(BIT)	TCA	343
TCAMSTRL	(74)	TCA	344
TCAMSTRLOC	(BIT)	TCA	343
TCAMSTRM	(BIT)	TCA	343
TCAMSTRN	(BIT)	TCA	343
TCAMSTRO	(BIT)	TCA	343
TCAMSTRP	(BIT)	TCA	343
TCAMSTRR	(BIT)	TCA	343
TCAMSTRS	(BIT)	TCA	343
TCAMSTRT	(BIT)	TCA	343
TCAMSTRU	(BIT)	TCA	343
TCAMSTRW	(BIT)	TCA	343
TCAMSTRX	(BIT)	TCA	343
TCAMSTSA	(BIT)	TCA	343
TCAMSTSE	(BIT)	TCA	342
TCAMSTSN	(BIT)	TCA	343
TCAMSTT	(BIT)	TCA	343
TCAMSUXI	(BIT)	TCA	342
TCAMSWBA	(BIT)	TCA	343
TCAMSWBC	(BIT)	TCA	343
TCAMSWCC	(6C)	TCA	344
TCAMSWRB	(BIT)	TCA	344
TCANOHIT	1	TCA	348
TCANOTRC			337, 354
TCAORABC			337, 354
TCAOSPWA	(158)	TCA	336
TCAOSPWA	(58)	TCADY	354
TCAPCAAC	1	TCA	348
TCAPCABA	1	TCA	350
TCAPCABC	(1D4)	TCA	337
TCAPCABC	(D4)	TCADY	355
TCAPCABD	1	TCA	350
TCAPCABN	1	TCA	350
TCAPCABR			334
TCAPCAC	(6C)	TCA	342
TCAPCACA	1	TCA	350
TCAPCACB	(1DC)	TCA	337
TCAPCACB	(DC)	TCADY	355
TCAPCADC	1	TCA	350
TCAPCAGO	1	TCA	348
TCAPCANC	1	TCA	348
TCAPCARO	(FA)	TCA	336
TCAPCCA	(144)	TCA	336
TCAPCCA	(44)	TCADY	353
TCAPCCIK	1	TCA	348
TCAPCDMP	(1B)	TCA	334
TCAPCDSA	(144)	TCA	336
TCAPCDSA	(44)	TCADY	353
TCAPCEA	(6C)	TCA	342
TCAPCEPI	(7C)	TCA	342
TCAPCERA	(64)	TCA	342
TCAPCEXR	1	TCA	351

TCAPCEXT 1 TCA 350  
TCAPCFFA 1 TCA 350  
TCAPCHS 336, 353  
TCAPCINV 1 TCA 350  
TCAPCIPN 336, 353  
TCAPCLA (70) TCA 342  
TCAPCLNK 1 TCA 350  
TCAPCMEA (F4) TCA 335  
TCAPCNOD 1 TCA 351  
TCAPCNON 1 TCA 350  
TCAPCPA (144) TCA 336  
TCAPCPA (44) TCADY 353  
TCAPCPI (64) TCA 342  
TCAPCPNR 1 TCA 351  
TCAPCREX 1 TCA 351  
TCAPCRFL (F8) TCA 335  
TCAPCROK 1 TCA 350  
TCAPCRS 342  
TCAPCSA 336, 353  
TCAPCSR (61) TCA 342  
TCAPCSTG (F9) TCA 336  
TCAPCSYS 1 TCA 351  
TCAPCTR 342  
TCAPCTWA (13C) TCA 336  
TCAPCTWA (3C) TCADY 353  
TCAPCUSK 1 TCA 348  
TCAPCWAM 1 TCA 350  
TCAPCXA (1FC) TCA 338  
TCAPCXA (FC) TCADY 355  
TCAPGENT (74) TCA 342  
TCAPGTKN (78) TCA 342  
TCAPH 342  
TCAPHERR 1 TCA 351  
TCAPHIPS 1 TCA 351  
TCAPHNP 1 TCA 351  
TCAPHNPS 1 TCA 351  
TCAPHPID (6C) TCA 342  
TCAPHPIN 1 TCA 351  
TCAPHPN (68) TCA 342  
TCAPHPSC 1 TCA 351  
TCAPHPSI 1 TCA 351  
TCAPHPSN (64) TCA 342  
TCAPHPIX 1 TCA 351  
TCAPHRC (60) TCA 342  
TCAPHRCV (75) TCA 342  
TCAPHROK 1 TCA 351  
TCAPHTIO (70) TCA 342  
TCAPHTR (74) TCA 342  
TCAPLAN (1B0) TCADY 356  
TCAPLAN (2B0) TCA 338  
TCAPRIP (BIT) TCA 338  
TCAPRIP (BIT) TCADY 356  
TCAPROB 1 TCA 348  
TCAPROBU 1 TCA 348  
TCAPROFL 1 TCA 348  
TCAPRTCM 337, 354  
TCAPRUWA 336  
TCAPSDBA 338, 355  
TCAPSS (190) TCADY 355  
TCAPSS (290) TCA 338  
TCAPSTBA (190) TCADY 355  
TCAPSTBA (290) TCA 338  
TCAPURGI (1C) TCA 334  
TCARDSA 1 TCA 348  
TCAREGPT (19C) TCA 337  
TCAREGPT (9C) TCADY 354  
TCAREMOT 337, 354  
TCARLB (184) TCA 337  
TCARLB (84) TCADY 354  
TCARMSYS (204) TCADY 356  
TCARMSYS (304) TCA 339  
TCARMTRA (200) TCADY 356  
TCARMTRA (300) TCA 339  
TCARROUTE (BIT) TCA 337  
TCARROUTE (BIT) TCADY 355  
TCARSBA (1C0) TCA 337  
TCARSBA (C0) TCADY 354  
TCARSREQ (BIT) TCA 337  
TCARSREQ (BIT) TCADY 355  
TCARSTSK 336, 353  
TCARTNSV 335  
TCARTST (BIT) TCA 338  
TCARTST (BIT) TCADY 356  
TCASCFRE (BIT) TCA 335  
TCASCGET (BIT) TCA 335  
TCASCIB 335  
TCASCNB (3E) TCA 335  
TCASCREL (BIT) TCA 335  
TCASCRS (40) TCA 335  
TCASCS (182) TCA 337  
TCASCS (82) TCADY 354  
TCASCSA 337, 354  
TCASCSA (38) TCA 335  
TCASCTR (3C) TCA 335  
TCASCUSR 335  
TCASENSE (1E0) TCA 337  
TCASENSE (E0) TCADY 355  
TCASNPRG 1 TCA 348  
TCASPEXP (BIT) TCA 344  
TCASPOOL (114) TCA 336  
TCASPOOL (14) TCADY 353  
TCASPRAB (BIT) TCA 344  
TCASPRC 344  
TCASPRC0 1 TCA 351  
TCASPRC1 1 TCA 351  
TCASPRC8 1 TCA 351  
TCASPREP 344  
TCASPROL 344  
TCASPSDA 344  
TCASPTR 344  
TCASPURG 334  
TCASPUSR (BIT) TCA 344  
TCASRAP (BIT) TCA 339  
TCASRAP (BIT) TCADY 356  
TCASRDAT (1E8) TCADY 356  
TCASRDAT (2E8) TCA 339  
TCASRDMP (BIT) TCA 339  
TCASRDMP (BIT) TCADY 356  
TCASREXC (1FE) TCADY 356  
TCASREXC (2FE) TCA 339  
TCASRFLG (1FC) TCADY 356  
TCASRFLG (2FC) TCA 339  
TCASRLOC 339, 356  
TCASROFF (1F8) TCADY 356  
TCASROFF (2F8) TCA 339  
TCASRPCD (1F0) TCADY 356  
TCASRPCD (2F0) TCA 339  
TCASRPGM (1E8) TCADY 356  
TCASRPGM (2E8) TCA 339  
TCASRPLI (BIT) TCA 339  
TCASRPLI (BIT) TCADY 356  
TCASS1 (1E0) TCA 337  
TCASS1 (E0) TCADY 355  
TCASUTOK 338, 356  
TCASYAA (0) TCA 334  
TCASYABD (1F0) TCADY 356  
TCASYABD (2F0) TCA 339  
TCASYABI 335  
TCASYSNE (1D0) TCADY 356  
TCASYSNE (2D0) TCA 338  
TCASYSNP (BIT) TCA 338  
TCASYSNP (BIT) TCADY 356  
TCASZUSE 337, 354  
TCATALGI (BIT) TCA 341  
TCATCABT (BIT) TCA 337  
TCATCABT (BIT) TCADY 354  
TCATCCFG (1C) TCA 334  
TCATCDC (18) TCA 334  
TCATCEA (14) TCA 334  
TCATCEI (18) TCA 334  
TCATCMPN (BIT) TCA 341  
TCATCOK 1 TCA 348  
TCATCONQ 1 TCA 348  
TCATCPC (11C) TCA 336  
TCATCPC (1C) TCADY 353  
TCATCQA (14) TCA 334  
TCATCQA4 (14) TCA 334  
TCATCQL4 (5) TCA 334  
TCATQLN (5) TCA 334  
TCATCTFA (14) TCA 334  
TCATCTR (19) TCA 334  
TCATCUCN (1B4) TCA 337  
TCATCUCN (B4) TCADY 354  
TCATDAA 346  
TCATDBRW 1 TCA 352  
TCATDCGT 1 TCA 352

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TCATDCLO	1	TCA	352	TCATPFS	(7C)	TCA	341
TCATDCPR	1	TCA	352	TCATPFST	1	TCA	350
TCATDCPT	1	TCA	352	TCATPFSY	(BIT)	TCA	340
TCATDDA	346			TCATPGBL	1	TCA	350
TCATDDI	346			TCATPGRP	1	TCA	350
TCATDFLG	(18C)	TCADY	355	TCATPIDT	(BIT)	TCA	340
TCATDFLG	(28C)	TCA	338	TCATPINP	340		
TCATDINI	1	TCA	352	TCATPINS	341		
TCATDITD	1	TCA	352	TCATPINV	(BIT)	TCA	341
TCATDLM	1	TCA	348	TCATPIOR	1	TCA	349
TCATDM	1	TCA	348	TCATPIRC	1	TCA	350
TCATDOCP	(6C)	TCA	346	TCATPISG	1	TCA	349
TCATDPUT	346			TCATPLCL	1	TCA	350
TCATDROA	(68)	TCA	346	TCATPLDA	(70)	TCA	341
TCATDRS	346			TCATPLDC	(63)	TCA	340
TCATDRST	1	TCA	352	TCATPLDM	(68)	TCA	341
TCATDTPD	(6C)	TCA	346	TCATPLDR	1	TCA	350
TCATDTLO	1	TCA	352	TCATPLIA	1	TCA	349
TCATDTR	346			TCATPLII	1	TCA	349
TCATDWTI	1	TCA	352	TCATPLIL	1	TCA	349
TCATEM	1	TCA	348	TCATPLIR	1	TCA	349
TCATIEBA	(1E4)	TCA	337	TCATPLLE	1	TCA	349
TCATIEBA	(E4)	TCADY	355	TCATPLMP	(BIT)	TCA	341
TCATMRLP	(124)	TCADY	355	TCATPLNL	1	TCA	349
TCATMRLP	(224)	TCA	338	TCATPLNR	1	TCA	349
TCATNATI	1	TCA	350	TCATPLOC	1	TCA	350
TCATNLGI	(BIT)	TCA	341	TCATPLRC	(60)	TCA	340
TCATNTTI	1	TCA	350	TCATPLUA	1	TCA	349
TCATNVTA	(BIT)	TCA	341	TCATPLUC	1	TCA	350
TCATOATI	1	TCA	350	TCATPLUF	1	TCA	349
TCATOM	334			TCATPLWT	(BIT)	TCA	341
TCATOMCN	(BIT)	TCA	339	TCATPMOD	1	TCA	350
TCATOMEPI	(BIT)	TCA	339	TCATPNAB	(BIT)	TCA	340
TCATOMOP	(63)	TCA	339	TCATPNAT	1	TCA	349
TCATOMST	(BIT)	TCA	339	TCATPNCM	341		
TCATOMX	1	TCA	348	TCATPNEC	(BIT)	TCA	341
TCATOPNW	(BIT)	TCA	341	TCATPNET	1	TCA	350
TCATOTTI	1	TCA	350	TCATPNIB	1	TCA	350
TCATP_TRACE	340			TCATPNNI	(BIT)	TCA	340
TCATP120	1	TCA	350	TCATPNOP	(BIT)	TCA	340
TCATPABN	1	TCA	350	TCATPNVL	1	TCA	349
TCATPABT	1	TCA	350	TCATPNXT	1	TCA	350
TCATPACQ	(BIT)	TCA	341	TCATPOAO	(BIT)	TCA	341
TCATPADR	1	TCA	350	TCATPOC1	(66)	TCA	341
TCATPAID	(70)	TCA	341	TCATPOC2	(67)	TCA	341
TCATPALL	1	TCA	349	TCATPOC3	(6B)	TCA	341
TCATPAPL	(78)	TCA	341	TCATPODR	(BIT)	TCA	340
TCATPAPR	(60)	TCA	340	TCATPOER	(BIT)	TCA	340
TCATPASS	1	TCA	349	TCATPOFR	1	TCA	350
TCATPATI	1	TCA	350	TCATPOLA	340		
TCATPAU	(BIT)	TCA	340	TCATPOOL	1	TCA	350
TCATPBPQ	(BIT)	TCA	341	TCATPOOS	(BIT)	TCA	341
TCATPBSY	1	TCA	349	TCATPORR	(BIT)	TCA	340
TCATPCBR	1	TCA	350	TCATPOS1	340		
TCATPCEU	(BIT)	TCA	341	TCATPOS2	(63)	TCA	340
TCATPCMM	1	TCA	350	TCATPOSO	(BIT)	TCA	341
TCATPCND	(BIT)	TCA	341	TCATPOSR	(BIT)	TCA	340
TCATPCNT	(BIT)	TCA	341	TCATPOSS	(BIT)	TCA	340
TCATPCOM	1	TCA	350	TCATPOWR	340		
TCATPCON	(6A)	TCA	341	TCATPOWS	(BIT)	TCA	341
TCATPCPB	(BIT)	TCA	341	TCATPPBK	1	TCA	350
TCATPCPT	(BIT)	TCA	341	TCATPPFL	(74)	TCA	341
TCATPCPY	(BIT)	TCA	341	TCATPPG	(BIT)	TCA	340
TCATPCRB	(BIT)	TCA	341	TCATPPGM	1	TCA	349
TCATPCRL	(BIT)	TCA	341	TCATPPNM	(6C)	TCA	341
TCATPCS1	(64)	TCA	340	TCATPPRP	1	TCA	350
TCATPCS2	(65)	TCA	341	TCATPPRT	1	TCA	350
TCATPCVS	340			TCATPPUR	1	TCA	350
TCATPCWL	(BIT)	TCA	341	TCATPQAF	(BIT)	TCA	340
TCATPDET	1	TCA	350	TCATPQAR	(BIT)	TCA	340
TCATPDFR	1	TCA	349	TCATPQAU	(BIT)	TCA	340
TCATPDRR	1	TCA	350	TCATPQUE	(BIT)	TCA	340
TCATPDWR	(BIT)	TCA	341	TCATPR10	340		
TCATPEB	(BIT)	TCA	340	TCATPR14	1	TCA	349
TCATPEOD	1	TCA	349	TCATPR18	1	TCA	349
TCATPERR	1	TCA	350	TCATPR1C	1	TCA	349
TCATPFM7	1	TCA	350	TCATPRAR	1	TCA	350
TCATPFOR	1	TCA	350	TCATPRC4	(BIT)	TCA	340
TCATPFPD	(BIT)	TCA	341	TCATPRC8	(BIT)	TCA	340
TCATPFRC	(BIT)	TCA	341	TCATPRCC	1	TCA	349
TCATPFRD	1	TCA	349	TCATPRCY	1	TCA	350
TCATPFRE	1	TCA	349	TCATPREL	(BIT)	TCA	341
TCATPFRR	1	TCA	349	TCATPREM	1	TCA	350

TCATPREQ (70) TCA 341  
TCATPRFL 1 TCA 349  
TCATPRMT (74) TCA 341  
TCATPRS 342  
TCATPRSO (BIT) TCA 341  
TCATPSAI (BIT) TCA 340  
TCATPSES 1 TCA 350  
TCATPSHU 1 TCA 350  
TCATPSID 1 TCA 350  
TCATPSKA (7C) TCA 341  
TCATPSNC (BIT) TCA 340  
TCATPSPR 1 TCA 350  
TCATPSRB 1 TCA 350  
TCATPSTM 1 TCA 350  
TCATPSUR 1 TCA 350  
TCATPSYN 1 TCA 350  
TCATPSYS (78) TCA 341  
TCATPTA (6C) TCA 341  
TCATPTID 1 TCA 350  
TCATPTSA (BIT) TCA 341  
TCATPTST 1 TCA 350  
TCATPTTA (BIT) TCA 341  
TCATPTTO (BIT) TCA 341  
TCATPUNL 1 TCA 350  
TCATPUNQ 1 TCA 350  
TCATPUSR 1 TCA 349  
TCATPVAL 1 TCA 349  
TCATPWBR 1 TCA 350  
TCATPWCI 1 TCA 350  
TCATPWRO (BIT) TCA 341  
TCATPWSR (BIT) TCA 341  
TCATPXL 1 TCA 350  
TCATPZT1 (80) TCA 341  
TCATPZT2 (84) TCA 341  
TCATPZTR (80) TCA 341  
TCATQEA (120) TCA 336  
TCATQEA (20) TCADY 353  
TCATRABD 339, 356  
TCATRET (BIT) TCA 335  
TCATRF (C4) TCA 335  
TCATRF1 (C4) TCA 335  
TCATRF2 (C8) TCA 335  
TCATRID 335  
TCATRID1 335  
TCATRIDQ (158) TCADY 355  
TCATRIDQ (258) TCA 338  
TCATRM 1 TCA 348  
TCATRMF (CE) TCA 335  
TCATRMNE (1B8) TCADY 356  
TCATRMNE (2B8) TCA 338  
TCATRMNP (BIT) TCA 338  
TCATRMNP (BIT) TCADY 356  
TCATRPRI 338, 356  
TCATRRC (1EC) TCA 337  
TCATRRC (EC) TCADY 355  
TCATRRSN (100) TCADY 355  
TCATRRSN (200) TCA 338  
TCATRSI (BIT) TCA 335  
TCATRSM (BIT) TCA 335  
TCATRST 335  
TCATRSYS 335  
TCATRTO (180) TCA 337  
TCATRTO (80) TCADY 354  
TCATRTR (CC) TCA 335  
TCATRU24 (1DC) TCADY 356  
TCATRU24 (2DC) TCA 338  
TCATRUSE (BIT) TCA 335  
TCATSADR (BIT) TCA 346  
TCATSABMS (BIT) TCA 346  
TCATSCBA (74) TCA 347  
TCATSCBP (74) TCA 347  
TCATSCMD (80) TCA 347  
TCATSCND (BIT) TCA 346  
TCATSDA 347  
TCATSDI (68) TCA 347  
TCATSDUP 1 TCA 352  
TCATSELC (BIT) TCA 341  
TCATSEMR (BIT) TCA 346  
TCATSENE 1 TCA 352  
TCATSENT (BIT) TCA 346  
TCATSES2 (BIT) TCA 347  
TCATSEXT (BIT) TCA 347  
TCATSFLB (BIT) TCA 347  
TCATSGDB (BIT) TCA 347  
TCATSGDE 1 TCA 352  
TCATSGDM 1 TCA 352  
TCATSGDY 1 TCA 352  
TCATSGET (BIT) TCA 346  
TCATSHDI (BIT) TCA 347  
TCATSHDO (BIT) TCA 347  
TCATSHDR 1 TCA 352  
TCATSHLL (BIT) TCA 347  
TCATSICE (BIT) TCA 346  
TCATSIDE 1 TCA 352  
TCATSIND (BIT) TCA 341  
TCATSINI (BIT) TCA 347  
TCATSINV 1 TCA 352  
TCATSIOE 1 TCA 352  
TCATSL 7C) TCA 347  
TCATSLRE (BIT) TCA 347  
TCATSLRH (BIT) TCA 347  
TCATSLRU (BIT) TCA 347  
TCATSMST (BIT) TCA 346  
TCATSNML 1 TCA 352  
TCATSNOS 1 TCA 352  
TCATSNRM 1 TCA 352  
TCATSPRV (BIT) TCA 347  
TCATSPUN (BIT) TCA 346  
TCATSPUT (BIT) TCA 346  
TCATSQUE (BIT) TCA 346  
TCATSREL (BIT) TCA 346  
TCATSRN (70) TCA 347  
TCATSR 347  
TCATSR 73) TCA 347  
TCATSRST (BIT) TCA 347  
TCATSSTA (78) TCA 347  
TCATST 1 TCA 352  
TCATSTG 1 TCA 352  
TCATST 1 TCA 352  
TCATSTT (62) TCA 347  
TCATSTU 1 TCA 352  
TCATSSYS (BIT) TCA 346  
TCATSTAT (BIT) TCA 341  
TCATSTNR (82) TCA 347  
TCATSTR 346  
TCATSTR2 (61) TCA 346  
TCATSTR3 (72) TCA 347  
TCATSTRM (BIT) TCA 346  
TCATSUPD (BIT) TCA 346  
TCATSWRM (BIT) TCA 346  
TCATSWTI (BIT) TCA 347  
TCATTFOR (BIT) TCA 341  
TCATTMID (BIT) TCA 341  
TCATTPUR (BIT) TCA 341  
TCATTRMT (BIT) TCA 341  
TCATWAAD 335  
TCATWALN (F0) TCA 335  
TCATWM 1 TCA 348  
TCATXNO 335  
TCATXNUM 336, 353  
TCAUDSA 1 TCA 348  
TCAUIBAQ (BIT) TCA 337  
TCAUIBAQ (BIT) TCADY 354  
TCAUKCAL 337, 354  
TCAUS1 (1E2) TCA 337  
TCAUS1 (E2) TCADY 355  
TCAXFS23 337, 354  
TCAXGETL (BIT) TCX 421  
TCAXMODN (0) TCX 421  
TCAXMSOT (BIT) TCA 337  
TCAXMSOT (BIT) TCADY 355  
TCAXMSRF (4) TCA 334  
TCAXPIP (0) TCX 421  
TCAXPIPL (8) TCX 421  
TCAXTPN (B) TCX 421  
TCAXTPNL (A) TCX 421  
TCAZAKPT (BIT) TCA 336  
TCAZAKPT (BIT) TCADY 354  
TCAZDLIC 337, 354  
TCAZINDT (BIT) TCA 337  
TCAZINDT (BIT) TCADY 354  
TCAZLUWD (168) TCA 336  
TCAZLUWD (68) TCADY 354  
TCAZLUWT 337, 354  
TCAZRRD (BIT) TCA 337  
TCAZRRD (BIT) TCADY 354

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TCAZRVRT (BIT) TCA 337  
 TCAZRVRT (BIT) TCADY 354  
 TCBA\_STR (88) XCTRC 557  
 TCECTIO (BIT) TACLE 333  
 TCEIDTD (BIT) TACLE 333  
 TCEIRE (BIT) TACLE 333  
 TCEMCIER (BIT) TACLE 333  
 TCEMCMTL (BIT) TACLE 333  
 TCEMCNOA (BIT) TACLE 333  
 TCEMCOAE (BIT) TACLE 333  
 TCEMCOER (BIT) TACLE 333  
 TCEMCOLZ (BIT) TACLE 333  
 TCEMCROT (BIT) TACLE 333  
 TCEMCTCT (BIT) TACLE 333  
 TCEMCUC (BIT) TACLE 333  
 TCEMCUCS (BIT) TACLE 333  
 TCEMCUDT (BIT) TACLE 333  
 TCEMCUE (BIT) TACLE 333  
 TCEMCUES (BIT) TACLE 333  
 TCEMCUI (BIT) TACLE 333  
 TCEMIDR (BIT) TACLE 333  
 TCERRSA (5) TCTWA 414  
 TCL3PTSV (14) TCTWA 414  
 TCLASS  
   transaction manager TCLASS stats, XMCDS 565  
 TCME\_LOCK\_DENIED (BIT) TCTTE 403  
 TCME\_LOCK\_TOKEN (80) TCTTE 403  
 TCME\_LTW\_COUNT (88) TCTTE 403  
 TCME\_ORD\_COUNT (84) TCTTE 403  
 TCME\_WTL\_COUNT (86) TCTTE 403  
 TCME1HWM (3E) TCTTE 402  
 TCME1RY (34) TCTTE 402  
 TCME2HWM (38) TCTTE 402  
 TCME2RY (30) TCTTE 402  
 TCMEACNT (72) TCTTE 403  
 TCMEACT (BIT) TCTTE 402  
 TCMEAQTS (78) TCTTE 403  
 TCMEAR12 (74) TCTTE 403  
 TCMEBCL (BIT) TCTTE 402  
 TCMEBHWM (3A) TCTTE 402  
 TCMEBID (2E) TCTTE 402  
 TCMEBND (32) TCTTE 402  
 TCMECLO (BIT) TCTTE 402  
 TCMECNO (BIT) TCTTE 402  
 TCMECON 402  
 TCMECONL (26) TCTTE 402  
 TCMECONW (24) TCTTE 402  
 TCMEDAP (BIT) TCTTE 402  
 TCMEDDP (BIT) TCTTE 402  
 TCMEIDI 402  
 TCMEIDI2 (66) TCTTE 402  
 TCMEDPGR (6C) TCTTE 402  
 TCMEERR (BIT) TCTTE 403  
 TCMEGET (8A) TCTTE 403  
 TCMEIFG1 (70) TCTTE 402  
 TCMEIFG2 (71) TCTTE 402  
 TCMEINT (BIT) TCTTE 402  
 TCMELEN (1C) TCTTE 402  
 TCMELMAX (1E) TCTTE 402  
 TCMELSM (BIT) TCTTE 402  
 TCMEI2ST (28) TCTTE 402  
 TCMEMAXS (22) TCTTE 402  
 TCMEMCON (20) TCTTE 402  
 TCMEMODE 402  
 TCME NXT (10) TCTTE 402  
 TCMEOUT (BIT) TCTTE 402  
 TCMEPCN (BIT) TCTTE 402  
 TCMEPGIP (BIT) TCTTE 403  
 TCMEPMAX (68) TCTTE 402  
 TCMEPMCO (6A) TCTTE 402  
 TCMEPNAA (BIT) TCTTE 402  
 TCMEPNAC (BIT) TCTTE 402  
 TCMEPNLG (BIT) TCTTE 402  
 TCMEPNOS 402  
 TCMEQPCT (76) TCTTE 403  
 TCMER12 (BIT) TCTTE 403  
 TCMERTK (3C) TCTTE 402  
 TCMS1 (44) TCTTE 402  
 TCMS2 (40) TCTTE 402  
 TCMS2BID (48) TCTTE 402  
 TCMS2ESA (14) TCTTE 402  
 TCMS2SHU (BIT) TCTTE 402  
 TCMS2TAF (54) TCTTE 402  
 TCMESTAG (5C) TCTTE 402  
 TCMESTAM (36) TCTTE 402  
 TCMESTAO (58) TCTTE 402  
 TCMESTAP (60) TCTTE 402  
 TCMESTAQ (50) TCTTE 402  
 TCMESTAS (4C) TCTTE 402  
 TCMESYSA (18) TCTTE 402  
 TCMETRM (BIT) TCTTE 402  
 TCMEUIP 402  
 TCMEZQPC (2C) TCTTE 402  
 TCP  
   TCP modules address list, ZEPD 589  
 tcp/ip  
   tcp/ip service, SORDS 322  
 TCPIND (4) TCTWA 414  
 TCPRA 357  
 TCRAAREC (BIT) TCTWA 415  
 TCRAFDA (0) TCTWA 415  
 TCRWE 358  
 TCSACCM (30) TCTTE 398  
 TCSE\_AI\_CREATE\_TIME (E8) TCTTE 401  
 TCSE\_APPC\_CONV (FC) TCTTE 401  
 TCSE\_APPLID (15) TCTTE 408  
 TCSE\_APPLID\_LENGTH (10) TCTTE 408  
 TCSE\_APPLID\_PARM (10) TCTTE 408  
 TCSE\_APPLID\_PARM\_TYPE (14) TCTTE 408  
 TCSE\_ATTACH\_SEC (D3) TCTTE 400  
 TCSE\_BIGENDIAN (BIT) TCTTE 409  
 TCSE\_CAPABILITIES\_LENGTH (30) TCTTE 409  
 TCSE\_CAPABILITIES\_PARM 409  
 TCSE\_CAPABILITIES\_PARM\_TYPE (34) TCTTE 409  
 TCSE\_CATLG\_DONE (BIT) TCTTE 399  
 TCSE\_CATLG\_NO (BIT) TCTTE 398  
 TCSE\_CBD\_SECURITY 400  
 TCSE\_CCINDATA (0) TCTTE 408  
 TCSE\_CCINDATA\_PTR (100) TCTTE 401  
 TCSE\_CLIENT\_CAPABILITIES (36) TCTTE 409  
 TCSE\_CLONE (BIT) TCTTE 398  
 TCSE\_CLPEND (BIT) TCTTE 400  
 TCSE\_CNOS\_SHUT (BIT) TCTTE 399  
 TCSE\_CODEPAGE (25) TCTTE 409  
 TCSE\_CODEPAGE\_LENGTH (20) TCTTE 408  
 TCSE\_CODEPAGE\_PARM 408  
 TCSE\_CODEPAGE\_PARM\_TYPE (24) TCTTE 408  
 TCSE\_CQP\_COMPLETE (BIT) TCTTE 401  
 TCSE\_CQP\_FAILED (BIT) TCTTE 401  
 TCSE\_CQP\_FLAGS (108) TCTTE 401  
 TCSE\_CQP\_SUPPORTED (BIT) TCTTE 401  
 TCSE\_CQPI\_COMPLETE (BIT) TCTTE 401  
 TCSE\_CQPO\_ATTACHED (BIT) TCTTE 401  
 TCSE\_CTIN\_INSTALL\_COUNT 409  
 TCSE\_CTINATTACH\_REQS (41) TCTTE 409  
 TCSE\_DATA\_LENGTH (0) TCTTE 408  
 TCSE\_DELETE\_AND\_LOGON (BIT) TCTTE 398  
 TCSE\_DELETE\_AT\_RESTART (BIT) TCTTE 398  
 TCSE\_DELETE\_ENTRIES (BIT) TCTTE 409  
 TCSE\_DELETE\_SCHEDULED (BIT) TCTTE 398  
 TCSE\_DELETE\_STARTED (BIT) TCTTE 398  
 TCSE\_DISTINGUISHED\_NAME\_PTR (F0) TCTTE 401  
 TCSE\_EBCDIC 409  
 TCSE\_ECIATTACH\_PASSWORD (3E) TCTTE 409  
 TCSE\_ECIATTACH\_USERID (3D) TCTTE 409  
 TCSE\_ENDAFFIN\_REQD (BIT) TCTTE 401  
 TCSE\_ENVIRON (35) TCTTE 409  
 TCSE\_EPIATTACH\_PASSWORD (40) TCTTE 409  
 TCSE\_EPIATTACH\_USERID (3F) TCTTE 409  
 TCSE\_EXIT\_PROCESSING 409  
 TCSE\_EXT\_SEC\_FBN (BIT) TCTTE 401  
 TCSE\_EXTENDEDONLY (BIT) TCTTE 400  
 TCSE\_FUNCTION (9) TCTTE 408  
 TCSE\_GR (BIT) TCTTE 398  
 TCSE\_GRNAME\_CONN (BIT) TCTTE 398  
 TCSE\_GROUP (8) TCTTE 408  
 TCSE\_HEADER\_BLOCK (4) TCTTE 408  
 TCSE\_HEADER\_LENGTH (4) TCTTE 408  
 TCSE\_HIS\_AV (BIT) TCTTE 400  
 TCSE\_HIS\_CBDSEC 400  
 TCSE\_HIS\_CBDSEC\_REQD (BIT) TCTTE 400  
 TCSE\_HIS\_EXT\_SEC (BIT) TCTTE 401  
 TCSE\_HIS\_PV (BIT) TCTTE 400  
 TCSE\_HIS\_UP (BIT) TCTTE 400  
 TCSE\_IMPLICIT\_DELETE (BIT) TCTTE 398  
 TCSE\_LR (BIT) TCTTE 400

TCSE\_LR\_CATLGED (BIT) TCTTE 400  
TCSE\_LU61\_CHAIN (104) TCTTE 401  
TCSE\_MISC (89) TCTTE 399  
TCSE\_MRO\_CHAIN (C4) TCTTE 401  
TCSE\_MSG177\_ISSUED (BIT) TCTTE 399  
TCSE\_MSG179\_ISSUED (BIT) TCTTE 399  
TCSE\_MY\_AV (BIT) TCTTE 400  
TCSE\_MY\_CBDSEC (BIT) TCTTE 400  
TCSE\_MY\_CBDSEC\_REQD (BIT) TCTTE 400  
TCSE\_MY\_PV (BIT) TCTTE 400  
TCSE\_MY\_UP (BIT) TCTTE 400  
TCSE\_NETID 400  
TCSE\_NUM\_PARMS (E) TCTTE 408  
TCSE\_PRA 401  
TCSE\_PRSS\_FLAGS (E0) TCTTE 400  
TCSE\_PRSS\_OPNDST\_RESTORE\_FAILED (BIT) TCTTE 400  
TCSE\_PRSS\_PS\_REQD (BIT) TCTTE 400  
TCSE\_PRSS\_REC\_ACT (BIT) TCTTE 400  
TCSE\_PRSS\_RECOV (BIT) TCTTE 400  
TCSE\_PRSS\_REL\_CONN (BIT) TCTTE 400  
TCSE\_PRSS\_WAS\_SHUTTING (BIT) TCTTE 400  
TCSE\_REASON (C) TCTTE 408  
TCSE\_REL\_REQD (BIT) TCTTE 400  
TCSE\_REMDEL\_CHAIN (9C) TCTTE 399  
TCSE\_RESERVED (BE) TCTTE 399  
TCSE\_RESPONSE (B) TCTTE 408  
TCSE\_ROUTABLE\_START (BIT) TCTTE 399  
TCSE\_SD\_HANG\_REPORTED (BIT) TCTTE 399  
TCSE\_SECURITY\_LENGTH (38) TCTTE 409  
TCSE\_SECURITY\_PARM (38) TCTTE 409  
TCSE\_SECURITY\_PARM\_TYPE (3C) TCTTE 409  
TCSE\_SUPPORTS\_FLG1 (BC) TCTTE 399  
TCSE\_SUPPORTS\_FLG2 (BD) TCTTE 399  
TCSE\_SUPPORTS\_FUNCTION (BC) TCTTE 399  
TCSE\_SYSTEM\_SUPPORTS\_TIMEOUT (BIT) TCTTE 399  
TCSE\_TCTUA\_COMMAREA (BIT) TCTTE 409  
TCSE\_TITOKEN (F4) TCTTE 401  
TCSE\_TRANSLATE\_CAPABLE (BIT) TCTTE 409  
TCSE\_USE\_OUR\_MEMBER\_NAME (BIT) TCTTE 398  
TCSE\_VERSION (A) TCTTE 408  
TCSE\_XLN\_COLD (BIT) TCTTE 400  
TCSE1HWM (8C) TCTTE 399  
TCSE1RY (8A) TCTTE 399  
TCSE2HWM (40) TCTTE 398  
TCSE2RY (3A) TCTTE 398  
TCSEACNT (A6) TCTTE 399  
TCSEACT (BIT) TCTTE 399  
TCSEALIM (A4) TCTTE 399  
TCSEALL (34) TCTTE 398  
TCSEALRJ (B4) TCTTE 399  
TCSEANB (BIT) TCTTE 400  
TCSEAQTS (A8) TCTTE 399  
TCSEAR0I (BIT) TCTTE 399  
TCSEARC8 (8E) TCTTE 399  
TCSEBHHM (42) TCTTE 398  
TCSEBID (38) TCTTE 398  
TCSEBSY (BIT) TCTTE 400  
TCSEBTCH (BIT) TCTTE 400  
TCSECAL (BIT) TCTTE 400  
TCSECCIN (BIT) TCTTE 401  
TCSECNS (BIT) TCTTE 398  
TCSECOMN (C0) TCTTE 399  
TCSECRRD (BIT) TCTTE 399  
TCSECRSR (BIT) TCTTE 399  
TCSECRTE (BIT) TCTTE 399  
TCSECSRE (BIT) TCTTE 399  
TCSEDAID 397  
TCSEDAP (BIT) TCTTE 399  
TCSEDBA (32) TCTTE 398  
TCSEDBUS 1 TCTTE 413  
TCSEDBVB 1 TCTTE 413  
TCSEDDP (BIT) TCTTE 399  
TCSEDI (99) TCTTE 399  
TCSEDI2 (A2) TCTTE 399  
TCSEDI3 (A3) TCTTE 399  
TCSEDS32 1 TCTTE 413  
TCSEDSL M 1 TCTTE 413  
TCSEDSP (31) TCTTE 398  
TCSEDS S C 1 TCTTE 413  
TCSEDS S T 1 TCTTE 413  
TCSEDSUS 1 TCTTE 413  
TCSEFBN (BIT) TCTTE 400  
TCSEFLGS (15) TCTTE 398  
TCSEGET1 (C0) TCTTE 399  
TCSEGET2 (C8) TCTTE 402  
TCSEGET3 401  
TCSEGET4 (10C) TCTTE 401  
TCSEGET6 (D0) TCTTE 400  
TCSEL\_AI (33) TCTTE 398  
TCSEL\_CC\_FLAG (FE) TCTTE 401  
TCSEL\_GR (88) TCTTE 398  
TCSEIAID (BIT) TCTTE 401  
TCSEIDEF (BIT) TCTTE 401  
TCSEILUC (15) TCTTE 398  
TCSEINBT (BIT) TCTTE 401  
TCSEINDA 402  
TCSEINDN (C4) TCTTE 402  
TCSEINUC (9A) TCTTE 399  
TCSEIRCF (C8) TCTTE 401  
TCSEIRCH (C4) TCTTE 401  
TCSEIRCQ (BIT) TCTTE 401  
TCSEIRF2 (C9) TCTTE 401  
TCSEIRIC (BIT) TCTTE 401  
TCSEIRMD (BIT) TCTTE 401  
TCSEIRNC 401  
TCSEIRSF (BIT) TCTTE 401  
TCSEIRXC (BIT) TCTTE 401  
TCSEIRXM (BIT) TCTTE 401  
TCSEIRXU (BIT) TCTTE 401  
TCSELEN (16) TCTTE 398  
TCSELFLG (DC) TCTTE 400  
TCSELU6 (BIT) TCTTE 398  
TCSELUC (BIT) TCTTE 398  
TCSELUIT (D4) TCTTE 400  
TCSEMM (28) TCTTE 398  
TCSEMODE (2C) TCTTE 398  
TCSEMQPC (7C) TCTTE 398  
TCSEMRO (BIT) TCTTE 398  
TCSEMROG (BIT) TCTTE 399  
TCSEMROP (BIT) TCTTE 399  
TCSEMXTQ (78) TCTTE 398  
TCSENEXT (90) TCTTE 399  
TCSENQCT 399  
TCSENQTI (96) TCTTE 399  
TCSEORIS 399  
TCSEPGIP (BIT) TCTTE 399  
TCSEPNA A (BIT) TCTTE 399  
TCSEPNA C (BIT) TCTTE 399  
TCSEPNA R (BIT) TCTTE 400  
TCSEPNA LG (BIT) TCTTE 399  
TCSEPNA OS (BIT) TCTTE 399  
TCSEPRA (BIT) TCTTE 400  
TCSEPRA M N (C2) TCTTE 401  
TCSEP S F 400  
TCSEQLIM (BIT) TCTTE 399  
TCSEQPCT (7A) TCTTE 398  
TCSEQTIM (BIT) TCTTE 399  
TCSERC8 (BIT) TCTTE 399  
TCSE RDL R (BIT) TCTTE 399  
TCSE R T K (3C) TCTTE 398  
TCSES1 (48) TCTTE 398  
TCSES2 (44) TCTTE 398  
TCSESALL (36) TCTTE 398  
TCSESBID (4C) TCTTE 398  
TCSESECN 401  
TCSESES1 (28) TCTTE 398  
TCSESHU (BIT) TCTTE 398  
TCSESID (18) TCTTE 398  
TCSESKA (9C) TCTTE 399  
TCSE S N G (BIT) TCTTE 398  
TCSESR T K (A0) TCTTE 399  
TCSESSRE (BIT) TCTTE 399  
TCSESTAF (58) TCTTE 398  
TCSESTAM (3E) TCTTE 398  
TCSESTAO (5C) TCTTE 398  
TCSESTAQ (54) TCTTE 398  
TCSESTAS (50) TCTTE 398  
TCSESTDL (70) TCTTE 398  
TCSESTFC (60) TCTTE 398  
TCSESTIC (64) TCTTE 398  
TCSESTOD (CA) TCTTE 401  
TCSESTPC (B8) TCTTE 399  
TCSESTTC (74) TCTTE 398  
TCSESTTD (68) TCTTE 398  
TCSESTTS (6C) TCTTE 398  
TCSESUR (BIT) TCTTE 398



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 TCSESUSF (C) TCTTE 397  
 TCSESYSI (D8) TCTTE 400  
 TCSETAQ (B0) TCTTE 399  
 TCSETIND 1 TCTTE 413  
 TCSETLOC 1 TCTTE 413  
 TCSETMC (BIT) TCTTE 399  
 TCSETOIP (BIT) TCTTE 400  
 TCSETRAN (BIT) TCTTE 398  
 TCSETSYS 1 TCTTE 412  
 TCSETYPE (14) TCTTE 397  
 TCSEUDU (BIT) TCTTE 399  
 TCSEUIP (BIT) TCTTE 399  
 TCSEUTA 400  
 TCSEVC1 (28) TCTTE 398  
 TCSEVC2 (2C) TCTTE 398  
 TCSEWRS (BIT) TCTTE 400  
 TCSEX61N (C8) TCTTE 400  
 TCSEX62N (C8) TCTTE 400  
 TCSEXLA (BIT) TCTTE 398  
 TCSEXLD (BIT) TCTTE 400  
 TCSEXLNC (FF) TCTTE 401  
 TCSEXSNM (20) TCTTE 398  
 TCSEZQPC (86) TCTTE 398  
 TCSEZQPU (84) TCTTE 398  
 TCSEZQRJ 398  
 TCSPTA (0) TCTWA 414  
 TCT  
 TCT terminal entry, TCTTE 370  
 TCT transaction work area, TCTWA 414  
 TCT\_BIND (0) ZGRP 604  
 TCT\_BIND\_LENGTH (0) ZGRP 604  
 TCT\_BINLUP 604  
 TCTCATWE (128) TCTFX 362  
 TCTCWE (20) TCTWE 417  
 TCTCWE\_CART (24) TCTWE 417  
 TCTCWE\_CHAIN (48) TCTWE 417  
 TCTCWE\_CNID (2C) TCTWE 417  
 TCTCWE\_CNNM (30) TCTWE 417  
 TCTCWE\_CONID (30) TCTWE 417  
 TCTCWE\_DATA (4C) TCTWE 417  
 TCTCWE\_DATAL (20) TCTWE 417  
 TCTCWE\_EXT (BIT) TCTWE 417  
 TCTCWE\_FLG (22) TCTWE 417  
 TCTCWE\_SEC (BIT) TCTWE 417  
 TCTCWE\_SGN (BIT) TCTWE 417  
 TCTCWE\_TERMID (44) TCTWE 417  
 TCTCWE\_USERID 417  
 TCTCWE\_USERID\_LEN (42) TCTWE 417  
 TCTE\_0813\_RECEIVED 1 TCTTE 413  
 TCTE\_0814\_RECEIVED 1 TCTTE 413  
 TCTE\_ACQUIRE\_DATA (1E8) TCTTE 386  
 TCTE\_ACQUIRE\_OPTIONS (1F3) TCTTE 386  
 TCTE\_ALLOCATE\_IN\_PROGRESS 1 TCTTE 412  
 TCTE\_ALLOCATED\_CONFIRM\_RECEIVER 1 TCTTE 412  
 TCTE\_ALLOCATED\_CONFIRM\_SENDER 1 TCTTE 412  
 TCTE\_ALLOCATED\_RECEIVE 1 TCTTE 412  
 TCTE\_ALLOCATED\_RECEIVE\_PENDING 1 TCTTE 412  
 TCTE\_ALLOCATED\_SEND 1 TCTTE 412  
 TCTE\_AWAITING\_BB\_RESPONSE 1 TCTTE 413  
 TCTE\_AWAITING\_RESPONSE\_RECEIVE 1 TCTTE 411  
 TCTE\_AWAITING\_RESPONSE\_SEND 1 TCTTE 411  
 TCTE\_BETWEEN\_BRACKETS 1 TCTTE 411  
 TCTE\_BETWEEN\_CHAINS\_RECEIVE 1 TCTTE 411  
 TCTE\_BETWEEN\_CHAINS\_SEND 1 TCTTE 411  
 TCTE\_BID\_SEQ 405  
 TCTE\_BID\_STATUS (B6) TCTTE 405  
 TCTE\_BOUND\_CON\_LOSE 1 TCTTE 411  
 TCTE\_BOUND\_CON\_LOSE\_ALLOCATED 1 TCTTE 411  
 TCTE\_BOUND\_CON\_LOSE\_AWAITING\_ACTIVITY 1 TCTTE 411  
 TCTE\_BOUND\_CON\_LOSE\_BB\_CROSSING 1 TCTTE 411  
 TCTE\_BOUND\_CON\_LOSE\_BIDDING 1 TCTTE 411  
 TCTE\_BOUND\_CON\_LOSE\_REBID\_PEND 1 TCTTE 411  
 TCTE\_BOUND\_CON\_LOSE\_RTR\_PEND 1 TCTTE 411  
 TCTE\_BOUND\_CON\_WIN 1 TCTTE 411  
 TCTE\_BOUND\_CON\_WIN\_ALLOCATED 1 TCTTE 411  
 TCTE\_BOUND\_CON\_WIN\_BID\_ACCEPTED 1 TCTTE 411  
 TCTE\_BOUND\_CON\_WIN\_RTR\_PEND 1 TCTTE 411  
 TCTE\_BOUND\_CON\_WIN\_RTR\_SENT 1 TCTTE 411  
 TCTE\_CLONE (BIT) TCTTE 371  
 TCTE\_CLSDST\_SCHEDULED 1 TCTTE 412  
 TCTE\_CODEPAGE (8) TCTTE 409  
 TCTE\_CODEPAGE\_TOKEN (0) TCTTE 409  
 TCTE\_COMP\_REC\_IMM 1 TCTTE 412  
 TCTE\_COMP\_REC\_WAIT 1 TCTTE 412  
 TCTE\_CONFDATA\_YES (BIT) TCTTE 375  
 TCTE\_CTINDATA (0) TCTTE 409  
 TCTE\_CTINDATA\_PTR (1B4) TCTTE 381  
 TCTE\_DR1\_EXPECTED 1 TCTTE 413  
 TCTE\_DR1\_OUTSTANDING 1 TCTTE 413  
 TCTE\_FREE\_PENDING\_SEND 1 TCTTE 412  
 TCTE\_FREE\_REQUIRED 1 TCTTE 412  
 TCTE\_GR\_FLAGS (207) TCTTE 388  
 TCTE\_GR\_LOGGEDON\_BY\_MEMBERNAME (BIT) TCTTE 388  
 TCTE\_HIS\_ATT\_SEQ (E4) TCTTE 405  
 TCTE\_IN\_BRACKET 1 TCTTE 411  
 TCTE\_IN\_BRACKET\_TERM\_RECEIVE 1 TCTTE 411  
 TCTE\_IN\_BRACKET\_TERM\_SEND 1 TCTTE 411  
 TCTE\_IN\_CHAIN\_RECEIVE 1 TCTTE 411  
 TCTE\_IN\_CHAIN\_SEND 1 TCTTE 411  
 TCTE\_IN\_SYNCPT\_BACKOUT\_RECEIVER 1 TCTTE 412  
 TCTE\_IN\_SYNCPT\_BACKOUT\_SENDER 1 TCTTE 412  
 TCTE\_IN\_SYNCPT\_RCVR\_ONE\_PHASE 1 TCTTE 412  
 TCTE\_IN\_SYNCPT\_RCVR\_TWO\_PHASE 1 TCTTE 412  
 TCTE\_IN\_SYNCPT\_SENDER\_ONE\_PHASE 1 TCTTE 412  
 TCTE\_IN\_SYNCPT\_SENDER\_TWO\_PHASE 1 TCTTE 412  
 TCTE\_INACTIVE 1 TCTTE 412  
 TCTE\_INCOMP\_REC\_IMM 1 TCTTE 412  
 TCTE\_INCOMP\_REC\_WAIT 1 TCTTE 412  
 TCTE\_LOGON\_LOGMODE (58) TCTTE 406  
 TCTE\_LR (BIT) TCTTE 385  
 TCTE\_LUCX\_TRACE (0) TCTTE 404  
 TCTE\_MY\_ATT\_SEQ (DC) TCTTE 405  
 TCTE\_NEGATIVE\_RESPONSE\_RECEIVED 1 TCTTE 411  
 TCTE\_NEGATIVE\_RESPONSE\_SEND 1 TCTTE 411  
 TCTE\_NEXT\_APPC\_SURROG (FC) TCTTE 379  
 TCTE\_NIB\_MATCHED 1 TCTTE 412  
 TCTE\_NIBD\_TRACE (0) TCTTE 405  
 TCTE\_NO\_PRSS\_RECOVERY 1 TCTTE 412  
 TCTE\_NOT\_ALLOCATED 1 TCTTE 412  
 TCTE\_NOT\_BOUND 1 TCTTE 411  
 TCTE\_NOT\_BOUND\_CON\_LOSE 1 TCTTE 411  
 TCTE\_NOT\_BOUND\_CON\_WIN 1 TCTTE 411  
 TCTE\_OPNDST\_RESTORE\_COMPLETED 1 TCTTE 412  
 TCTE\_PENDING\_RESPONSE\_RECEIVE 1 TCTTE 411  
 TCTE\_PENDING\_RESPONSE\_SEND 1 TCTTE 411  
 TCTE\_PREV\_APPC\_SURROG (1E4) TCTTE 386  
 TCTE\_PROCESSED 1 TCTTE 412  
 TCTE\_PRSS (206) TCTTE 388  
 TCTE\_PRSS\_CLSDST\_SCHEDULED 1 TCTTE 412  
 TCTE\_PRSS\_CV29\_PTR (21C) TCTTE 388  
 TCTE\_PRSS\_MATCHED (BIT) TCTTE 405  
 TCTE\_PRSS\_REJ\_ATTACH (BIT) TCTTE 405  
 TCTE\_PRSS\_REM\_SCHED (BIT) TCTTE 405  
 TCTE\_QALL\_RQD (BIT) TCTTE 386  
 TCTE\_QNOTENAB\_RQD (BIT) TCTTE 386  
 TCTE\_QSESSLIM\_RQD (BIT) TCTTE 386  
 TCTE\_READ\_AHEAD 1 TCTTE 412  
 TCTE\_RECOV\_STATUS\_DEFERRED 374  
 TCTE\_RELAY\_LINK\_ACTIVE (BIT) TCTTE 374  
 TCTE\_RELAY\_LINK\_ASSIGNED (BIT) TCTTE 374  
 TCTE\_RELAY\_LINK\_STATUS (A5) TCTTE 374  
 TCTE\_RELREQ\_RQD (BIT) TCTTE 386  
 TCTE\_REM\_EOD (BIT) TCTTE 386  
 TCTE\_REM\_FRI (BIT) TCTTE 386  
 TCTE\_RES\_SA (EA) TCTTE 377  
 TCTE\_RES\_SNA 381  
 TCTE\_RESETSR 1 TCTTE 412  
 TCTE\_RESP\_STATUS (B7) TCTTE 405  
 TCTE\_SEND\_LUSTAT\_BB\_EB 1 TCTTE 413  
 TCTE\_SEND\_LUSTAT\_EB 1 TCTTE 413  
 TCTE\_SEND\_NEGATIVE\_RESPONSE 1 TCTTE 413  
 TCTE\_SEND\_POSITIVE\_RESPONSE 1 TCTTE 413  
 TCTE\_SEND\_RECOVERY\_MESSAGE 1 TCTTE 413  
 TCTE\_SEND\_RTR 1 TCTTE 413  
 TCTE\_SENT\_POSITIVE\_RESPONSE 1 TCTTE 413  
 TCTE\_SENT\_RTR 1 TCTTE 413  
 TCTE\_SERVICE\_REPORTING\_CLASS 397  
 TCTE\_SIMLOG\_RQD (BIT) TCTTE 386  
 TCTE\_STORAGE\_FREEZE (BIT) TCTTE 376  
 TCTE\_TITOKEN (130) TCTTE 381  
 TCTE\_TRACE\_1 (0) TCTTE 370  
 TCTE\_TRACE\_3 (F4) TCTTE 379  
 TCTE\_TRACE\_5 (1A8) TCTTE 381  
 TCTE\_TRANNUM (14) TCTTE 370  
 TCTE\_UR\_BIND\_NEEDED (BIT) TCTTE 397

TCTE_UR_INIT_NEEDED	397	TCTEARC2	(111) TCTTE	380
TCTE_USE_MRO_BITMAP	396	TCTEASC7	(BIT) TCTTE	371
TCTE_ZBAN_REASON (1E3)	TCTTE 386	TCTEASC8	(BIT) TCTTE	371
TCTE_ZBAN_RESPONSE (1E2)	TCTTE 386	TCTEASCC	(4F) TCTTE	372
TCTE_ZCNIBISC (BIT)	TCTTE 386	TCTEASCI	(BIT) TCTTE	373
TCTE_ZGDA_FMH7_COMP	1 TCTTE 412	TCTEASCL	(4E) TCTTE	372
TCTE_ZGDA_FMH7_REC	1 TCTTE 412	TCTEASCO	(BIT) TCTTE	373
TCTE_ZGDA_FMH7_REC_EOC	1 TCTTE 412	TCTEASCZ	(4C) TCTTE	372
TCTE_ZGDA_FMH7_SEND	1 TCTTE 412	TCTEASE	(BIT) TCTTE	372
TCTE_ZGDA_RESP	1 TCTTE 412	TCTEASRA	(174) TCTTE	381
TCTE_ZNAC_ERRCODE (1A8)	TCTTE 381	TCTEATPN	(10B) TCTTE	380
TCTE_ZXPS_CLEANUP	1 TCTTE 412	TCTEAWEA	(1B4) TCTTE	381
TCTE_ZXPS_DEALLOCATE_ABEND	1 TCTTE 412	TCTEBBA	(BIT) TCTTE	384
TCTE_ZXPS_ISSUE_RECOVERY_MSG	1 TCTTE 412	TCTEBBP	(BIT) TCTTE	384
TCTE_ZXPS_RECEIVE_IN_PROGRESS	1 TCTTE 412	TCTEBBR	(BIT) TCTTE	384
TCTE_ZXPS_SEND_IN_PROGRESS	1 TCTTE 412	TCTEBBS	(BIT) TCTTE	384
TCTE_ZXRC_CLEANUP	1 TCTTE 412	TCTEBCL	380	
TCTE_ZXRC_ISSUE_RECOVERY_MSG	1 TCTTE 412	TCTEBEB	(BIT) TCTTE	385
TCTE1RY (BIT) TCTTE	380	TCTEBFLA	(218) TCTTE	388
TCTE2980	372	TCTEBID	(BIT) TCTTE	387
TCTE2RY (BIT) TCTTE	380	TCTEBIMG	(1EC) TCTTE	386
TCTE3270 (30) TCTTE	371	TCTEBIR	(BIT) TCTTE	387
TCTE327E (BIT) TCTTE	372	TCTEBISI	(BIT) TCTTE	385
TCTE32E2 (51) TCTTE	373	TCTEBISR	(BIT) TCTTE	385
TCTE32E3 (52) TCTTE	373	TCTEBISS	(BIT) TCTTE	385
TCTE32EF (50) TCTTE	373	TCTEBKTS	(1DB) TCTTE	385
TCTE32RA (108) TCTTE	378	TCTEBLST	(80) TCTTE	405
TCTE32RL (106) TCTTE	378	TCTEBNS	(BIT) TCTTE	384
TCTE32SF (47) TCTTE	372	TCTEBPE	(BIT) TCTTE	384
TCTE32SW (105) TCTTE	378	TCTEBRP	(BIT) TCTTE	385
TCTE32WI (BIT) TCTTE	378	TCTEBRS	(BIT) TCTTE	385
TCTE3600 (30) TCTTE	372	TCTEBRT	(BIT) TCTTE	385
TCTE3601	1 TCTTE 410	TCTEBSAM	1 TCTTE 410	
TCTE3614	1 TCTTE 410	TCTEBSC	(BIT) TCTTE	385
TCTE3790	1 TCTTE 410	TCTEBSS	(BIT) TCTTE	382
TCTE50PL	1 TCTTE 410	TCTEBTAM	1 TCTTE 410	
TCTE50UP	1 TCTTE 410	TCTEBTB	(BIT) TCTTE	384
TCTE53HC	1 TCTTE 410	TCTEBUF	(BIT) TCTTE	404
TCTE70HC	1 TCTTE 410	TCTEBWD	(BIT) TCTTE	383
TCTE90PR	1 TCTTE 410	TCTEBYP	(BIT) TCTTE	382
TCTE90UP	1 TCTTE 410	TCTEBYPQ	376	
TCTEABD (BIT) TCTTE	385	TCTEACT	(1FE) TCTTE	387
TCTEABI	1 TCTTE 410	TCTECAP	(BIT) TCTTE	384
TCTEABP (BIT) TCTTE	373	TCTECAR	(BIT) TCTTE	384
TCTEABT	1 TCTTE 410	TCTECAT	(BIT) TCTTE	382
TCTEACC (1DE) TCTTE	385	TCTECBD	(BIT) TCTTE	382
TCTEACC1 (BIT) TCTTE	385	TCTECC	(14) TCTTE	404
TCTEACC2 (BIT) TCTTE	385	TCTECCDR	(BIT) TCTTE	404
TCTEACC3 (BIT) TCTTE	385	TCTECCDS	(BIT) TCTTE	404
TCTEACC4 (BIT) TCTTE	385	TCTECCL	(13) TCTTE	404
TCTEACC5 (BIT) TCTTE	385	TCTECCNT	(AC) TCTTE	374
TCTEACC6 (BIT) TCTTE	385	TCTECCT	(BIT) TCTTE	382
TCTEACC7 (BIT) TCTTE	385	TCTECCV	(BIT) TCTTE	384
TCTEACC8 (BIT) TCTTE	385	TCTECDH	(BIT) TCTTE	382
TCTEACIG	1 TCTTE 413	TCTECDR1	(BIT) TCTTE	404
TCTEACIV	1 TCTTE 413	TCTECDR2	(BIT) TCTTE	404
TCTEACR (1B8) TCTTE	382	TCTECDS	384	
TCTEACR1 (1B8) TCTTE	382	TCTECDSV	(1A4) TCTTE	381
TCTEACR2 (1B9) TCTTE	382	TCTECDSY	(BIT) TCTTE	376
TCTEACR3 (1BA) TCTTE	382	TCTECDT	(BIT) TCTTE	382
TCTEACR4 (1BB) TCTTE	382	TCTECDV	(BIT) TCTTE	384
TCTEACSA (170) TCTTE	381	TCTECDX	(BIT) TCTTE	387
TCTEACSE	1 TCTTE 413	TCTECEA	(BIT) TCTTE	382
TCTEACST	1 TCTTE 413	TCTECEBR	(BIT) TCTTE	404
TCTEACT (BIT) TCTTE	371	TCTECEBS	(BIT) TCTTE	404
TCTEAHB (BIT) TCTTE	404	TCTECELP	(DC) TCTTE	376
TCTEAIDP	371	TCTECERT	(BIT) TCTTE	372
TCTEAIO (BIT) TCTTE	380	TCTECFA	(BIT) TCTTE	382
TCTEAIP (BIT) TCTTE	384	TCTECFR	(BIT) TCTTE	382
TCTEALM	1 TCTTE 410	TCTECFS	(BIT) TCTTE	383
TCTEALW (BIT) TCTTE	372	TCTECGR	(BIT) TCTTE	382
TCTEAMIB (C4) TCTTE	375	TCTECHLE	(BIT) TACTLE	333
TCTEANDX (6A) TCTTE	373	TCTECHMX	(192) TCTTE	381
TCTEANET (238) TCTTE	388	TCTECHS	(BIT) TCTTE	382
TCTEAPBF (40) TCTTE	405	TCTECHSS	(1DD) TCTTE	385
TCTEAPBL (44) TCTTE	405	TCTECID	(17C) TCTTE	381
TCTEAPGC (A) TCTTE	403	TCTECIP	(BIT) TCTTE	384
TCTEAPGL (9) TCTTE	403	TCTECKR	(BIT) TCTTE	382
TCTEAPKB (BIT) TCTTE	372	TCTECL	(BIT) TCTTE	386
TCTEAPT (228) TCTTE	388	TCTECLG	(BIT) TCTTE	374
TCTEAPTX (BIT) TCTTE	372	TCTECLIM	(1FF) TCTTE	387
TCTEARC (110) TCTTE	380	TCTECLR	(BIT) TCTTE	382
TCTEARC1 (110) TCTTE	380	TCTECLRQ	(BIT) TCTTE	375

"Restricted Materials of IBM"  
 Licensed Materials – Property of IBM

TCTECLST	(1D8)	TCTTE	385
TCTECMT	(BIT)	TCTTE	384
TCTECNCL	(BIT)	TCTTE	382
TCTECND	(BIT)	TCTTE	376
TCTECNO	(BIT)	TCTTE	385
TCTECNTS	(1DC)	TCTTE	385
TCTECON	(BIT)	TCTTE	387
TCTECOR	(BIT)	TCTTE	382
TCTECORR	(208)	TCTTE	388
TCTECPA	(BIT)	TCTTE	387
TCTECPCA	(D4)	TCTTE	405
TCTECPG	(BIT)	TCTTE	385
TCTECPIC			405
TCTECPMI	(BIT)	TCTTE	386
TCTECPY	(BIT)	TCTTE	387
TCTECRAS	(BIT)	TCTTE	382
TCTECRC	(BIT)	TCTTE	382
TCTECRP	(BIT)	TCTTE	382
TCTECRQ	(BIT)	TCTTE	381
TCTECRR	(BIT)	TCTTE	382
TCTECRS	(BIT)	TCTTE	382
TCTECRTF	(BIT)	TCTTE	372
TCTECRY	(BIT)	TCTTE	382
TCTECSA	(BIT)	TCTTE	382
TCTECSC	(BIT)	TCTTE	382
TCTECSG1			373
TCTECSG2	(62)	TCTTE	373
TCTECSL	(BIT)	TCTTE	382
TCTECSM	(BIT)	TCTTE	384
TCTECSNI	(BIT)	TCTTE	386
TCTECSR	(BIT)	TCTTE	382
TCTECSRI			386
TCTECSS	(BIT)	TCTTE	382
TCTECTA	(BIT)	TCTTE	382
TCTECTI	(BIT)	TCTTE	382
TCTECTS	(BIT)	TCTTE	383
TCTECUSR	(56)	TCTTE	405
TCTECV0	1	TCTTE	413
TCTECVD	(BIT)	TCTTE	383
TCTECVI	(BIT)	TCTTE	383
TCTECVR	(BIT)	TCTTE	383
TCTECVT	(11)	TCTTE	404
TCTECWT	(BIT)	TCTTE	382
TCTECXA	(BIT)	TCTTE	382
TCTEDAB			374
TCTEDATL	(4C)	TCTTE	405
TCTEDCA	(BIT)	TCTTE	382
TCTEDEF	(BIT)	TCTTE	384
TCTEDEL	(BIT)	TCTTE	382
TCTEDELP			374
TCTEDELQ	(BIT)	TCTTE	374
TCTEDEX	(BIT)	TCTTE	404
TCTEDIBA	(58)	TCTTE	373
TCTEDIBS	(BIT)	TCTTE	375
TCTEDIP	(BIT)	TCTTE	384
TCTEDL1M	(BIT)	TCTTE	380
TCTEDLAB	(1D9)	TCTTE	397
TCTEDLG	(BIT)	TCTTE	387
TCEDMAI	(BIT)	TCTTE	407
TCEDMAX	(BIT)	TCTTE	407
TCEDMBD	(1C)	TCTTE	407
TCEDMBL	(20)	TCTTE	407
TCEDMCH	(0)	TCTTE	406
TCEDMCL	(BIT)	TCTTE	406
TCEDMDT	(E)	TCTTE	407
TCEDME2	(5)	TCTTE	407
TCEDMER	(4)	TCTTE	406
TCEDMGC	(3A)	TCTTE	371
TCEDMGF	(BIT)	TCTTE	407
TCEDMID	(17)	TCTTE	407
TCEDMIT	(BIT)	TCTTE	407
TCEDMLG			407
TCEDMMI	(1B)	TCTTE	407
TCEDMMN	(35)	TCTTE	371
TCEDMNN	(6)	TCTTE	407
TCEDMPD	(BIT)	TCTTE	407
TCEDMQN			407
TCEDMRA	(BIT)	TCTTE	407
TCEDMRV	(BIT)	TCTTE	407
TCEDMS1	(24)	TCTTE	407
TCEDMS2	(25)	TCTTE	407
TCEDMSL	(BIT)	TCTTE	407
TCEDMSM	(BIT)	TCTTE	407
TCEDMSN	(24)	TCTTE	407
TCEDMSQ	(F)	TCTTE	407
TCEDMU1	(26)	TCTTE	407
TCEDMU2	(27)	TCTTE	407
TCEDMUL	(BIT)	TCTTE	407
TCEDMWE	(0)	TCTTE	406
TCEDMYE	(34)	TCTTE	371
TCEDR2	(BIT)	TCTTE	382
TCEDRD	(BIT)	TCTTE	376
TCEDRI	(BIT)	TCTTE	384
TCEDRQ	(BIT)	TCTTE	384
TCEDRR	(BIT)	TCTTE	375
TCEDSCC	(4B)	TCTTE	372
TCEDSCL	(4A)	TCTTE	372
TCEDSCZ	(48)	TCTTE	372
TCEDTR	(BIT)	TCTTE	376
TCEDVSC	(B8)	TCTTE	374
TCEDWDP	(BIT)	TCTTE	376
TCEDYN	(BIT)	TCTTE	380
TCEDZIP	(BIT)	TCTTE	374
TCTEEBM			385
TCTEEBR	(BIT)	TCTTE	385
TCTEEBX			387
TCTEEBY			387
TCTEEBZ			387
TCTEECN	(BIT)	TCTTE	385
TCTEEEB	(BIT)	TCTTE	384
TCTEEID0	(1A0)	TCTTE	381
TCTEEID1	(1A1)	TCTTE	381
TCTEEID2	(1A2)	TCTTE	381
TCTEEID3	(1A3)	TCTTE	381
TCTEEIDA	(1A0)	TCTTE	381
TCTEIDL	(9E)	TCTTE	374
TCTEEIEX	(84)	TCTTE	373
TCTEEILR	(80)	TCTTE	373
TCTEELGM	(65)	TCTTE	373
TCTEEMF	(1C7)	TCTTE	383
TCTEEMW			383
TCTEEMX	(BIT)	TCTTE	380
TCTEEOC	(BIT)	TCTTE	372
TCTEEOD	(BIT)	TCTTE	386
TCTEERAC	(CF)	TCTTE	376
TCTEERAF	(CD)	TCTTE	376
TCTEERAH	(CE)	TCTTE	376
TCTEERAI	(BIT)	TCTTE	376
TCTEERAL	(BIT)	TCTTE	376
TCTEERIS	(1A8)	TCTTE	381
TCTEERIS	(1AA)	TCTTE	381
TCTEERIS	(1AC)	TCTTE	381
TCTEERIS	(1AE)	TCTTE	381
TCTEERIS	(1B0)	TCTTE	381
TCTEERIA	(1B2)	TCTTE	381
TCTEERL	(BIT)	TCTTE	384
TCTEERP	(41)	TCTTE	406
TCTEERS	(BIT)	TCTTE	384
TCTEERT	(BIT)	TCTTE	376
TCTEESC	(BIT)	TCTTE	387
TCTEESG	(BIT)	TCTTE	383
TCTEESR	(BIT)	TCTTE	385
TCTEESS	(BIT)	TCTTE	382
TCTEEWN	(BIT)	TCTTE	372
TCTEEXAT	(BIT)	TCTTE	380
TCTEEXI			387
TCTEEXNO	(BIT)	TCTTE	380
TCTEF12	(BIT)	TCTTE	387
TCTEFBF	(BIT)	TCTTE	383
TCTEFBIS	(BIT)	TCTTE	385
TCTEFCTK	(BIT)	TCTTE	371
TCTEFDM	(BIT)	TCTTE	380
TCTEFHA	(BIT)	TCTTE	380
TCTEFHD	(BIT)	TCTTE	380
TCTEFHE	(BIT)	TCTTE	380
TCTEFLC	(BIT)	TCTTE	383
TCTEFLUS	(BIT)	TCTTE	387
TCTEFMH			372
TCTEFMH1	(2C)	TCTTE	371
TCTEFMHA	(50)	TCTTE	405
TCTEFMR	(BIT)	TCTTE	404
TCTEFMS	(BIT)	TCTTE	404
TCTEFMSA	(170)	TCTTE	381
TCTEFNB	(BIT)	TCTTE	383
TCTEFNL	(BIT)	TCTTE	383
TCTEFNPR	(BIT)	TCTTE	387
TCTEFNPS	(BIT)	TCTTE	387

TCTEFOD	1	TCTTE	410	TCTEKUS2	(2B)	TCTTE	406
TCTEFPD	(BIT)	TCTTE	376	TCTEL06	(BIT)	TCTTE	387
TCTEFPP	(BIT)	TCTTE	371	TCTEL07	(BIT)	TCTTE	387
TCTEFPX	(BIT)	TCTTE	371	TCTEL62A	(1E0)	TCTTE	385
TCTEFRC	(BIT)	TCTTE	376	TCTELCL	1	TCTTE	410
TCTEFRM	(22C)	TCTTE	388	TCTELDCI	(184)	TCTTE	381
TCTEFRS	(BIT)	TCTTE	383	TCTELENC	(3F)	TCTTE	404
TCTEFST	(BIT)	TCTTE	387	TCTELEWA	(BIT)	TCTTE	372
TCTEFUP	(BIT)	TCTTE	386	TCTELFM	(BIT)	TCTTE	380
TCTEGAM	1	TCTTE	410	TCTELGX	(BIT)	TCTTE	384
TCTEGBF	(BIT)	TCTTE	382	TCTELHNP	(5C)	TCTTE	405
TCTEGET1	(240)	TCTTE	388	TCTELIC	(BIT)	TCTTE	404
TCTEGET2	(240)	TCTTE	388	TCTELIRI	(BIT)	TCTTE	386
TCTEGET3	(228)	TCTTE	396	TCTELLC	(3C)	TCTTE	404
TCTEGET4	(1B1)	TCTTE	397	TCTELLCT	(54)	TCTTE	405
TCTEGET5	(1DE)	TCTTE	397	TCTELLDC	(19C)	TCTTE	381
TCTEGET6	(FC)	TCTTE	377	TCTELLK	(BIT)	TCTTE	404
TCTEGET7	(22C)	TCTTE	396	TCTELMP	(BIT)	TCTTE	376
TCTEGET8	(22C)	TCTTE	396	TCTELOS	(BIT)	TCTTE	384
TCTEGET9	(224)	TCTTE	396	TCTELRD	(BIT)	TCTTE	383
TCTEGLC	(BIT)	TCTTE	382	TCTELRN	(BIT)	TCTTE	383
TCTEGMMI	(BIT)	TCTTE	386	TCTELRPF	(196)	TCTTE	381
TCTEGNB	(BIT)	TCTTE	382	TCTELRP	(BIT)	TCTTE	383
TCTEGNXT	(BIT)	TCTTE	373	TCTELRPF	(1CC)	TCTTE	383
TCTEGRS	(F2)	TCTTE	379	TCTELRQ	(BIT)	TCTTE	380
TCTEHACP	(178)	TCTTE	381	TCTELRTA	(198)	TCTTE	381
TCTEHDA	376			TCTELRZ	(BIT)	TCTTE	383
TCTEHOR	387			TCTELS25	(BIT)	TCTTE	387
TCTEHQS	(BIT)	TCTTE	384	TCTELS26	(BIT)	TCTTE	387
TCTEIFM	1	TCTTE	411	TCTELS27	(BIT)	TCTTE	387
TCTEIFP	(BIT)	TCTTE	371	TCTELS28	(BIT)	TCTTE	387
TCTEIIR	405			TCTELS29	(BIT)	TCTTE	387
TCTEIKPC	(C9)	TCTTE	376	TCTELS30	(BIT)	TCTTE	387
TCTEILUC	(2F)	TCTTE	371	TCTELS31	(BIT)	TCTTE	387
TCTEIMJ	(BIT)	TCTTE	380	TCTELS32	(BIT)	TCTTE	387
TCTEIMP	(BIT)	TCTTE	404	TCTELSB	(1FD)	TCTTE	387
TCTEINB	(BIT)	TCTTE	384	TCTELSE	(BIT)	TCTTE	380
TCTEINN	(BIT)	TCTTE	376	TCTELSED	(3E)	TCTTE	404
TCTEINSH	(1FA)	TCTTE	387	TCTELST	(BIT)	TCTTE	376
TCTEINT	(BIT)	TCTTE	387	TCTELTEC	(1CB)	TCTTE	383
TCTEIRAA	(BIT)	TCTTE	397	TCTELU4	1	TCTTE	410
TCTEIRAO	(BIT)	TCTTE	397	TCTELU6	1	TCTTE	410
TCTEIRBN	397			TCTELUC	(BIT)	TCTTE	371
TCTEIRCD	(BIT)	TCTTE	397	TCTELUC1	(1)	TCTTE	404
TCTEIRCO	(BIT)	TCTTE	397	TCTELUC2	(2)	TCTTE	404
TCTEIRDA	(18C)	TCTTE	397	TCTELUC3	(3)	TCTTE	404
TCTEIRDL	(BIT)	TCTTE	397	TCTELUCX	(220)	TCTTE	388
TCTEIRDP	(BIT)	TCTTE	397	TCTELUN	(BIT)	TCTTE	404
TCTEIRET	(12C)	TCTTE	381	TCTELUS	(BIT)	TCTTE	382
TCTEIRF1	(1A8)	TCTTE	397	TCTELUSM	(BIT)	TCTTE	374
TCTEIRF2	(1A9)	TCTTE	397	TCTELXS	(BIT)	TCTTE	376
TCTEIRFA	(19C)	TCTTE	397	TCTEMAPD	404		
TCTEIRFL	(1A0)	TCTTE	397	TCTEMAXL	(48)	TCTTE	405
TCTEIRFR	(BIT)	TCTTE	373	TCTEMCNT	(AE)	TCTTE	374
TCTEIRFS	(1A8)	TCTTE	397	TCTEMDID	(1A3)	TCTTE	381
TCTEIRGI	(BIT)	TCTTE	397	TCTEMDL	(BIT)	TCTTE	376
TCTEIRJL	(BIT)	TCTTE	397	TCTEMI	380		
TCTEIRRA	(18C)	TCTTE	397	TCTEMID5	(1A9)	TCTTE	381
TCTEIRRL	(190)	TCTTE	397	TCTEMID6	(1AB)	TCTTE	381
TCTEIRSR	(BIT)	TCTTE	397	TCTEMID7	(1AD)	TCTTE	381
TCTEIRST	(1B0)	TCTTE	397	TCTEMID8	(1AF)	TCTTE	381
TCTEIRTA	(194)	TCTTE	397	TCTEMID9	(1B1)	TCTTE	381
TCTEIRTL	(198)	TCTTE	397	TCTEMIDA	(1B3)	TCTTE	381
TCTEIRTT	(1A4)	TCTTE	397	TCTEMIH	(10C)	TCTTE	380
TCTEIRUT	(BIT)	TCTTE	397	TCTEMINL	(B0)	TCTTE	405
TCTEIRWL	(BIT)	TCTTE	397	TCTEMOPU	(BIT)	TCTTE	371
TCTEIRXM	(BIT)	TCTTE	397	TCTEMROP	(BIT)	TCTTE	373
TCTEISCI	(112)	TCTTE	380	TCTEMROS	373		
TCTEISMM	1	TCTTE	410	TCTEMRST	(95)	TCTTE	374
TCTEISSQ	(1C6)	TCTTE	383	TCTEMRSV	(96)	TCTTE	374
TCTEIXRP	(1C9)	TCTTE	383	TCTEMRSX	374		
TCTEJID	(129)	TCTTE	380	TCTEMTO	(BIT)	TCTTE	385
TCTEJINF	(126)	TCTTE	380	TCTENASI	(BIT)	TCTTE	387
TCTEJSA	(126)	TCTTE	380	TCTENBD	381		
TCTEKBD	(BIT)	TCTTE	385	TCTENBDL	(24)	TCTTE	405
TCTEKCA	(BIT)	TCTTE	385	TCTENBDR	(1E)	TCTTE	405
TCTEKNE	385			TCTENBDS	(20)	TCTTE	405
TCTEKSD	(BIT)	TCTTE	385	TCTENBK	(BIT)	TCTTE	387
TCTEKSS	(28)	TCTTE	405	TCTENBLE	(BIT)	TCTTE	406
TCTEKSS1	(28)	TCTTE	406	TCTENBLR	(BIT)	TCTTE	406
TCTEKSS2	(29)	TCTTE	406	TCTENCD	(BIT)	TCTTE	386
TCTEKST	(BIT)	TCTTE	385	TCTENCK	(BIT)	TCTTE	387
TCTEKUS1	(2A)	TCTTE	406				

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TCTENCPC	(BIT)	TCTTE	405	TCTEPRA	(BIT)	TCTTE	384
TCTENDEL	(BIT)	TCTTE	374	TCTEPRC	(BIT)	TCTTE	385
TCTENDT	(BIT)	TCTTE	387	TCTEPREV			396
TCTENDVP	(1F)	TCTTE	405	TCTEPROP	(BIT)	TCTTE	376
TCTENEC	(BIT)	TCTTE	376	TCTEPRP	(BIT)	TCTTE	387
TCTENEPC	(12A)	TCTTE	380	TCTEPRQ	(BIT)	TCTTE	386
TCTENEPS	(113)	TCTTE	380	TCTEPRT	(BIT)	TCTTE	383
TCTENET	(130)	TCTTE	381	TCTEPRUS	(186)	TCTTE	381
TCTENEXT	(FC)	TCTTE	379	TCTEPSA	(BIT)	TCTTE	384
TCTENFRI	(BIT)	TCTTE	387	TCTEPSES			406
TCTENFSI	(BIT)	TCTTE	387	TCTEPSN	(BIT)	TCTTE	374
TCTENIB	(0)	TCTTE	405	TCTEPSQ	(1)	TCTTE	406
TCTENIBA	(6C)	TCTTE	373	TCTEPSQL	(0)	TCTTE	406
TCTENIBE	(60)	TCTTE	406	TCTEPSQR	(0)	TCTTE	406
TCTENIBN			405	TCTEPSQS			406
TCTENIP	(BIT)	TCTTE	384	TCTEPSS	(BIT)	TCTTE	387
TCTENIS	(BIT)	TCTTE	384	TCTEPTBI			386
TCTENIT	(BIT)	TCTTE	385	TCTEPTI			386
TCTENLEX			405	TCTEPTO	(224)	TCTTE	388
TCTENLLC	(3E)	TCTTE	404	TCTEPTUR	(BIT)	TCTTE	383
TCTENLOG	(14)	TCTTE	405	TCTEQCM	(BIT)	TCTTE	382
TCTENLS			376	TCTEQE2			384
TCTENMA	1	TCTTE	410	TCTEQEOC	(BIT)	TCTTE	383
TCTENNAM	(C)	TCTTE	405	TCTEQM	(BIT)	TCTTE	380
TCTENNCH	(54)	TCTTE	406	TCTEQRI			384
TCTENNND	(BIT)	TCTTE	384	TCTEQRQ	(BIT)	TCTTE	383
TCTENNQI	(BIT)	TCTTE	374	TCTEQRS	(BIT)	TCTTE	387
TCTENOA	(BIT)	TCTTE	376	TCTERAD	(BIT)	TCTTE	384
TCTENOB	(BIT)	TCTTE	385	TCTERAE	(BIT)	TCTTE	385
TCTENOCI	(BIT)	TCTTE	386	TCTERAN	(BIT)	TCTTE	385
TCTENPTR	(4)	TCTTE	405	TCTERAP	(BIT)	TCTTE	384
TCTENQCI	(BIT)	TCTTE	387	TCTERAQ	(BIT)	TCTTE	384
TCTENQS	(BIT)	TCTTE	384	TCTERASY	1	TCTTE	413
TCTENRBD	(38)	TCTTE	406	TCTERAT	(BIT)	TCTTE	382
TCTENRI	(BIT)	TCTTE	405	TCTERBA	(2C)	TCTTE	404
TCTENRQ	(BIT)	TCTTE	383	TCTERBDL	(38)	TCTTE	404
TCTENSD	(BIT)	TCTTE	384	TCTERBL	(30)	TCTTE	404
TCTENSH	(BIT)	TCTTE	387	TCTERBLA	(CC)	TCTTE	405
TCTENSP1	(124)	TCTTE	380	TCTERBLL	(D0)	TCTTE	405
TCTENSP2	(125)	TCTTE	380	TCTERBP	(BIT)	TCTTE	383
TCTENSS1	(F8)	TCTTE	379	TCTERCA	1	TCTTE	413
TCTENSS2	(F9)	TCTTE	379	TCTERCDI	(BIT)	TCTTE	372
TCTENTA	(BIT)	TCTTE	373	TCTERCL	(BIT)	TCTTE	404
TCTENUS1	(FA)	TCTTE	379	TCTERCM	(BIT)	TCTTE	385
TCTENUS2	(FB)	TCTTE	379	TCTERCMO	(BIT)	TCTTE	383
TCTENUSA	(8)	TCTTE	405	TCTERCR	(BIT)	TCTTE	404
TCTEOAL	(190)	TCTTE	381	TCTERCS	(BIT)	TCTTE	382
TCTEOC3	(CA)	TCTTE	376	TCTERCSA			405
TCTEOC4	(CB)	TCTTE	376	TCTERCSM	1	TCTTE	413
TCTEOCB	(C8)	TCTTE	376	TCTERCSV	(1A4)	TCTTE	381
TCTEOCC			380	TCTERDA	(34)	TCTTE	404
TCTEOEXM	(BIT)	TCTTE	384	TCTERDR	(BIT)	TCTTE	382
TCTEOFME	(BIT)	TCTTE	384	TCTERDS			382
TCTEOFP			371	TCTERDT	(BIT)	TCTTE	385
TCTEOLD	(BIT)	TCTTE	384	TCTERED	(BIT)	TCTTE	387
TCTEOMJ	(BIT)	TCTTE	380	TCTERELR	(BIT)	TCTTE	384
TCTEOPCM	(BIT)	TCTTE	380	TCTERENC	(48)	TCTTE	405
TCTEOPD	(BIT)	TCTTE	384	TCTEREO	(BIT)	TCTTE	384
TCTEOPQ	(BIT)	TCTTE	383	TCTERERA	(C8)	TCTTE	405
TCTEOPSE	(BIT)	TCTTE	376	TCTERES	(BIT)	TCTTE	404
TCTEOPT2	(128)	TCTTE	380	TCTERFB	(BIT)	TCTTE	382
TCTEORAS	(BIT)	TCTTE	376	TCTERIB	(BIT)	TCTTE	387
TCTEORRN	(BIT)	TCTTE	384	TCTERIN	(BIT)	TCTTE	387
TCTEORSP	(BIT)	TCTTE	382	TCTERIND			382
TCTEORSY	(BIT)	TCTTE	376	TCTERIP	(BIT)	TCTTE	405
TCTEOS			372	TCTERIR	(BIT)	TCTTE	387
TCTEOWCI	(BIT)	TCTTE	386	TCTERIS	(BIT)	TCTTE	387
TCTEOWO			380	TCTERLM	(BIT)	TCTTE	386
TCTEPABP	(BIT)	TCTTE	375	TCTERLR	(BIT)	TCTTE	382
TCTEPAR	(BIT)	TCTTE	385	TCTERLS	(BIT)	TCTTE	382
TCTEPAS	(BIT)	TCTTE	383	TCTERLSQ	(BIT)	TCTTE	383
TCTEPCLK	(A8)	TCTTE	405	TCTERLT	(BIT)	TCTTE	376
TCTEPENC	(A0)	TCTTE	405	TCTERLX	(BIT)	TCTTE	376
TCTEPH1			376	TCTERMC	(BIT)	TCTTE	385
TCTEPH2	(BIT)	TCTTE	376	TCTERMD	(BIT)	TCTTE	385
TCTEPIPE	(220)	TCTTE	388	TCTERMDL	(BIT)	TCTTE	373
TCTEPLCH			396	TCTERMOD	(BIT)	TCTTE	383
TCTEPLI	(228)	TCTTE	396	TCTERNU			385
TCTEPLID	(224)	TCTTE	396	TCTERNW	(BIT)	TCTTE	384
TCTEPLL	(BIT)	TCTTE	404	TCTEROCS	(BIT)	TCTTE	375
TCTEPLLC	(12)	TCTTE	404	TCTERORN	(BIT)	TCTTE	375
TCTEPLLP	(224)	TCTTE	396	TCTERORT			375
TCTEPNET	(230)	TCTTE	388	TCTEROS	(BIT)	TCTTE	375

TCTERPBS	(B5)	TCTTE	405
TCTERPIV	1	TCTTE	413
TCTERPL	(BIT)	TCTTE	382
TCTERPLA	(70)	TCTTE	373
TCTERPLB	(AC)	TCTTE	405
TCTERPM	1	TCTTE	411
TCTERPR	(BIT)	TCTTE	384
TCTERPRC	(BIT)	TCTTE	379
TCTERPRL	(BIT)	TCTTE	379
TCTERPRR	1	TCTTE	413
TCTERPTN	1	TCTTE	413
TCTERPTP	1	TCTTE	413
TCTERQD1	(BIT)	TCTTE	404
TCTERQD2	(BIT)	TCTTE	404
TCTERQE	(BIT)	TCTTE	404
TCTERRI	(BIT)	TCTTE	387
TCTERRS	(BIT)	TCTTE	385
TCTERRSP	1	TCTTE	413
TCTERRSS	(BIT)	TCTTE	397
TCTERRT	(BIT)	TCTTE	387
TCTERRU	(BIT)	TCTTE	383
TCTERS1	(BIT)	TCTTE	385
TCTERSD	(BIT)	TCTTE	383
TCTERSED	(C0)	TCTTE	405
TCTERSFR	(D8)	TCTTE	405
TCTERSH	383		
TCTERSI	(BIT)	TCTTE	384
TCTERSP	(BIT)	TCTTE	382
TCTERSRR	(1C5)	TCTTE	383
TCTERSYN	1	TCTTE	413
TCTERTE	(BIT)	TCTTE	376
TCTERTEC	(BIT)	TCTTE	376
TCTERTNT	(BIT)	TCTTE	376
TCTERTP	385		
TCTERTR	(BIT)	TCTTE	382
TCTERUB	383		
TCTERUSZ	(194)	TCTTE	381
TCTERV D	(BIT)	TCTTE	383
TCTERVL	(BIT)	TCTTE	382
TCTERV P	(BIT)	TCTTE	384
TCTERV R	(BIT)	TCTTE	383
TCTERYCF	(BIT)	TCTTE	386
TCTES2EB	(BIT)	TCTTE	387
TCTES7TX	373		
TCTESAB	(BIT)	TCTTE	382
TCTESABC	(BIT)	TCTTE	379
TCTESABP	(BIT)	TCTTE	379
TCTESABR	(BIT)	TCTTE	379
TCTESABS	(BIT)	TCTTE	379
TCTESARB	(108)	TCTTE	379
TCTESARR	379		
TCTESBA	(1C)	TCTTE	404
TCTESBB	(BIT)	TCTTE	385
TCTESBBI	(BIT)	TCTTE	396
TCTESBBR	1	TCTTE	412
TCTESBBS	1	TCTTE	412
TCTESBDA	(24)	TCTTE	404
TCTESBDI	(BIT)	TCTTE	387
TCTESBDL	(28)	TCTTE	404
TCTESBIF	(BIT)	TCTTE	387
TCTESBIR	385		
TCTESBIS	(BIT)	TCTTE	385
TCTESBL	(20)	TCTTE	404
TCTESBRS	(17A)	TCTTE	396
TCTESCCB	(188)	TCTTE	397
TCTESCDI	(BIT)	TCTTE	396
TCTESCFI	(64)	TCTTE	373
TCTESCFM	(BIT)	TCTTE	373
TCTESCHM	(BIT)	TCTTE	380
TCTESCLG	(BIT)	TCTTE	373
TCTESCM	(BIT)	TCTTE	382
TCTESCNT	(AA)	TCTTE	374
TCTESCSB	(BIT)	TCTTE	371
TCTESCST	(BIT)	TCTTE	373
TCTESCTO	(BIT)	TCTTE	373
TCTESCUR	(60)	TCTTE	373
TCTESD2	(1F8)	TCTTE	387
TCTESD3	(1F9)	TCTTE	387
TCTESD4	(1FA)	TCTTE	387
TCTESD5	(1FB)	TCTTE	387
TCTESDA	(BIT)	TCTTE	387
TCTESDBP	(BIT)	TCTTE	387
TCTESDED	(BIT)	TCTTE	387
TCTESDEM	(BIT)	TCTTE	387
TCTESDFC	(BIT)	TCTTE	396
TCTESDIS	(BIT)	TCTTE	387
TCTESDL	(BIT)	TCTTE	382
TCTESDLC	1	TCTTE	410
TCTESDLD	(BIT)	TCTTE	387
TCTESDN	(BIT)	TCTTE	387
TCTESDR	(BIT)	TCTTE	404
TCTESDR1	(BIT)	TCTTE	396
TCTESDR2	396		
TCTESDT	(BIT)	TCTTE	382
TCTESEB	(BIT)	TCTTE	387
TCTESEBI	(BIT)	TCTTE	396
TCTESEBR	1	TCTTE	412
TCTESEBS	1	TCTTE	412
TCTESECA	(69)	TCTTE	405
TCTESEED	(B8)	TCTTE	405
TCTESEM	(BIT)	TCTTE	383
TCTESEO	(BIT)	TCTTE	384
TCTESER	(BIT)	TCTTE	380
TCTESERI	(BIT)	TCTTE	396
TCTESERV	(A8)	TCTTE	374
TCTESESS	(224)	TCTTE	388
TCTESEST	(2F)	TCTTE	371
TCTESFFB	(1F6)	TCTTE	386
TCTESFI	(BIT)	TCTTE	396
TCTESFR	(BIT)	TCTTE	376
TCTESFU	(BIT)	TCTTE	376
TCTESHP	384		
TCTESIB	1	TCTTE	412
TCTESIDI	(3C)	TCTTE	372
TCTESIDO	(40)	TCTTE	372
TCTESIG	(BIT)	TCTTE	372
TCTESII	(61)	TCTTE	405
TCTESIL	(60)	TCTTE	405
TCTESIO	(BIT)	TCTTE	380
TCTESKI	(BIT)	TCTTE	385
TCTESKSH	(BIT)	TCTTE	373
TCTESL00	(1B4)	TCTTE	397
TCTESLGI	(BIT)	TCTTE	371
TCTESLGT	(BIT)	TCTTE	371
TCTESLNK	(FC)	TCTTE	379
TCTESLP	(BIT)	TCTTE	384
TCTESLWD	(1B6)	TCTTE	397
TCTESLWN	397		
TCTESMA	(BIT)	TCTTE	385
TCTESMD	(BIT)	TCTTE	385
TCTESMP	(BIT)	TCTTE	385
TCTESNEX	(5C)	TCTTE	373
TCTESNQ	(BIT)	TCTTE	383
TCTESNR	(BIT)	TCTTE	383
TCTESNS	(BIT)	TCTTE	386
TCTESNU	(BIT)	TCTTE	382
TCTESOAL	(F0)	TCTTE	379
TCTESOB	1	TCTTE	412
TCTESONC	(78)	TCTTE	405
TCTESONS	(A2)	TCTTE	374
TCTESOPR	(BIT)	TCTTE	371
TCTESPI	(BIT)	TCTTE	385
TCTESP2	385		
TCTESPAB	(BIT)	TCTTE	379
TCTESPER	(BIT)	TCTTE	379
TCTESPID	(BIT)	TCTTE	379
TCTESPL	404		
TCTESPL0	1	TCTTE	413
TCTESPL1	1	TCTTE	413
TCTESPL2	1	TCTTE	413
TCTESPLI	(BIT)	TCTTE	386
TCTESPPA	(200)	TCTTE	387
TCTESPPR	(BIT)	TCTTE	379
TCTESPRB	(BIT)	TCTTE	379
TCTESPRC	(BIT)	TCTTE	379
TCTESPRL	(BIT)	TCTTE	379
TCTESPRP	379		
TCTESPRR	(BIT)	TCTTE	376
TCTESPS	379		
TCTESPSA	(106)	TCTTE	379
TCTESPSH	(BIT)	TCTTE	379
TCTESPSR	(BIT)	TCTTE	379
TCTESPSS	(BIT)	TCTTE	379
TCTESPST	(107)	TCTTE	379
TCTESPUN	379		
TCTESQA	(BIT)	TCTTE	384

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TCTESQAT (BIT) TCTTE 396	TCTETLDD (BIT) TCTTE 405
TCTESQCI (32) TCTTE 406	TCTETLX (30) TCTTE 372
TCTESQCM (36) TCTTE 406	TCTETMD (BIT) TCTTE 377
TCTESQCO (34) TCTTE 406	TCTETME 377
TCTESQER (18E) TCTTE 381	TCTETMSN 1 TCTTE 410
TCTESQI (BIT) TCTTE 387	TCTETNNB (BIT) TCTTE 406
TCTESQIL (118) TCTTE 380	TCTETOBFB 373
TCTESQIP (114) TCTTE 380	TCTETPPA (200) TCTTE 387
TCTESQNS (114) TCTTE 380	TCTETPSI (BIT) TCTTE 386
TCTESQOL (11A) TCTTE 380	TCTETPWA 405
TCTESQOP (116) TCTTE 380	TCTETRA (BIT) TCTTE 382
TCTESQOS (188) TCTTE 381	TCTETRAN (BIT) TCTTE 374
TCTESQP (42) TCTTE 406	TCTETRC (BIT) TCTTE 387
TCTESQPL (42) TCTTE 406	TCTETRC1 (120) TCTTE 380
TCTESQR1 (11C) TCTTE 380	TCTETRC2 (121) TCTTE 380
TCTESQR2 (11E) TCTTE 380	TCTETRND (100) TCTTE 379
TCTESQRD (BIT) TCTTE 396	TCTETRS (BIT) TCTTE 376
TCTESQRP (18A) TCTTE 381	TCTETRTO (A3) TCTTE 374
TCTESQSC (18C) TCTTE 381	TCTETRX 376
TCTESQSG (BIT) TCTTE 396	TCTETSBI (BIT) TCTTE 383
TCTESQSY (BIT) TCTTE 396	TCTETSPB (1F4) TCTTE 386
TCTESQWP (BIT) TCTTE 396	TCTETSU (CC) TCTTE 376
TCTESQWR (BIT) TCTTE 396	TCTETSU2 (D4) TCTTE 376
TCTESRAQ (BIT) TCTTE 380	TCTETSU3 376
TCTESRBR (BIT) TCTTE 373	TCTETTSI (BIT) TCTTE 371
TCTESRHI 396	TCTETUCT (BIT) TCTTE 380
TCTESRHO (173) TCTTE 396	TCTETXKB (BIT) TCTTE 372
TCTESR11 (170) TCTTE 396	TCTETXPR (BIT) TCTTE 372
TCTESR12 (171) TCTTE 396	TCTETXT6 (BIT) TCTTE 372
TCTESR13 (172) TCTTE 396	TCTETXT7 (BIT) TCTTE 372
TCTESRO1 (173) TCTTE 396	TCTETXT8 (BIT) TCTTE 372
TCTESRO2 (174) TCTTE 396	TCTETXTF 372
TCTESRO3 (175) TCTTE 396	TCTEUBR (BIT) TCTTE 387
TCTESRPI (BIT) TCTTE 387	TCTEUCFM (BIT) TCTTE 373
TCTESRQ 396	TCTEUCOM (BIT) TCTTE 372
TCTESRSP (BIT) TCTTE 396	TCTEUCTB (6B) TCTTE 373
TCTESRTI (BIT) TCTTE 396	TCTEUCTR (BIT) TCTTE 376
TCTESRUS (187) TCTTE 381	TCTEUERR (BIT) TCTTE 373
TCTESRV (BIT) TCTTE 382	TCTEUFRP (BIT) TCTTE 372
TCTESS1 (F4) TCTTE 379	TCTEUNMP 1 TCTTE 413
TCTESS2 (F5) TCTTE 379	TCTEUNUL (BIT) TCTTE 373
TCTESSDI (BIT) TCTTE 396	TCTEURAD 397
TCTESSNS (79) TCTTE 405	TCTEURCV (BIT) TCTTE 373
TCTESSPL (1DF) TCTTE 385	TCTEUS1 (F6) TCTTE 379
TCTESSQ (1) TCTTE 406	TCTEUS2 (F7) TCTTE 379
TCTESSQL (0) TCTTE 406	TCTEUSE1 (44) TCTTE 372
TCTESSQR (0) TCTTE 406	TCTEUSE2 373
TCTESTAC (2D) TCTTE 406	TCTEUSMD (BIT) TCTTE 373
TCTESTAR (BIT) TCTTE 373	TCTEUSNS (7B) TCTTE 405
TCTESTAT (1) TCTTE 404	TCTEUSRB (BIT) TCTTE 373
TCTESTIB (2E) TCTTE 406	TCTEUSRS (1DA) TCTTE 385
TCTESTL 387	TCTEUSRV 386
TCTESTNR (2C) TCTTE 406	TCTEVBPS (1D4) TCTTE 384
TCTESTOP (30) TCTTE 406	TCTEVIP2 (1D3) TCTTE 384
TCTESTR (BIT) TCTTE 387	TCTEVIPS (1D2) TCTTE 384
TCTESTRI (2C) TCTTE 406	TCTEVIR1 382
TCTESTRP (2D) TCTTE 406	TCTEVIR2 (1C0) TCTTE 382
TCTESTSN (BIT) TCTTE 382	TCTEVIR3 (1C1) TCTTE 382
TCTESUP1 (122) TCTTE 380	TCTEVIR4 (1C2) TCTTE 382
TCTESUP2 (123) TCTTE 380	TCTEVIR5 (1C3) TCTTE 382
TCTESUR (BIT) TCTTE 376	TCTEVIR6 (1C4) TCTTE 383
TCTESUS (BIT) TCTTE 385	TCTEVISC (1D1) TCTTE 384
TCTESWT (BIT) TCTTE 383	TCTEVLDC 371
TCTESXC (BIT) TCTTE 382	TCTEVNSS (F8) TCTTE 379
TCTESXD (BIT) TCTTE 382	TCTEVOP2 (1CE) TCTTE 384
TCTESYID (D0) TCTTE 376	TCTEVOP3 (B4) TCTTE 405
TCTESYM 1 TCTTE 410	TCTEVPAC (1BD) TCTTE 382
TCTESYSM (BIT) TCTTE 380	TCTEVRCS (1A8) TCTTE 381
TCTETABP (BIT) TCTTE 375	TCTEVRCS (1AA) TCTTE 381
TCTETBIS (BIT) TCTTE 382	TCTEVRCS (1AC) TCTTE 381
TCTETBLU 1 TCTTE 410	TCTEVRCS (1AE) TCTTE 381
TCTETCAM 1 TCTTE 410	TCTEVRCS (1B0) TCTTE 381
TCTETCLU 1 TCTTE 410	TCTEVRCA (1B2) TCTTE 381
TCTETCM1 (F0) TCTTE 377	TCTEVSDA (F4) TCTTE 379
TCTETCM2 (F3) TCTTE 377	TCTEVSSC (180) TCTTE 381
TCTETCNT (A8) TCTTE 374	TCTEVSSS (F4) TCTTE 379
TCTETCSN 1 TCTTE 410	TCTEVTAM 1 TCTTE 410
TCTETDST (2E) TCTTE 371	TCTEVTC (2C) TCTTE 371
TCTETHID (184) TCTTE 397	TCTEVTCT (BIT) TCTTE 371
TCTETHNO (180) TCTTE 397	TCTEVTMP (BIT) TCTTE 407
TCTETIA (BIT) TCTTE 387	TCTEVTMQ (BIT) TCTTE 407
TCTETILU 1 TCTTE 410	TCTEVTPT (1D7) TCTTE 385
TCTETLD (7D) TCTTE 405	

TCTEVTPS (1CD) TCTTE 384	TCTLEFL4 (BIT) TCTLE 368
TCTEVTS2 (1D0) TCTTE 384	TCTLEFL5 (BIT) TCTLE 368
TCTEV TSA 379	TCTLEFLO (BIT) TCTLE 369
TCTEVTSI (BIT) TCTTE 386	TCTLEFSC (BIT) TCTLE 369
TCTEVTS2 (1CF) TCTTE 384	TCTLEFWL (BIT) TCTLE 369
TCTEWA (BIT) TCTTE 372	TCTLEGLR (1D) TCTLE 368
TCTE WDA (BIT) TCTTE 382	TCTLEGRC 368
TCTE WGS (BIT) TCTTE 384	TCTLEIBS (69) TCTLE 369
TCTEWIN 380	TCTLEIOA (C) TCTLE 368
TCTE WPD (BIT) TCTTE 387	TCTLEIOB 368
TCTE WSR (BIT) TCTTE 376	TCTLEIOL (6) TCTLE 368
TCTEXCA (BIT) TCTTE 384	TCTLELE 369
TCTEXCC (BIT) TCTTE 383	TCTLELEC (50) TCTLE 369
TCTEXCL (BIT) TCTTE 383	TCTLELF (40) TCTLE 369
TCTEXCM (BIT) TCTTE 384	TCTLELGC (14) TCTLE 368
TCTEXCS (BIT) TCTTE 384	TCTLELPI (BIT) TCTLE 368
TCTEXDEL (BIT) TCTTE 374	TCTLELRC (1B) TCTLE 368
TCTEXEB (BIT) TCTTE 383	TCTLELRL 368
TCTEXIP (BIT) TCTTE 387	TCTLELS (BIT) TCTLE 369
TCTEXNC (BIT) TCTTE 386	TCTLEMET (BIT) TCTLE 369
TCTEXNG 386	TCTLEMFP (BIT) TCTLE 369
TCTEXNM (BIT) TCTTE 386	TCTLEMI (31) TCTLE 368
TCTEXNN (BIT) TCTTE 386	TCTLEMLU (BIT) TCTLE 369
TCTEXNO (BIT) TCTTE 383	TCTLEMWL (BIT) TCTLE 368
TCTEXNR (BIT) TCTTE 383	TCTLENP (38) TCTLE 369
TCTEXNT (BIT) TCTTE 386	TCTLEOA (2C) TCTLE 368
TCTEXOC (BIT) TCTTE 386	TCTLEOL 368
TCTEXOD (BIT) TCTTE 386	TCTLEOQ 368
TCTEXON (BIT) TCTTE 386	TCTLEPA (54) TCTLE 369
TCTEXOR (BIT) TCTTE 386	TCTLEPCH (4) TACLE 333
TCTEXOT (BIT) TCTTE 386	TCTLEPF2 (9) TACLE 333
TCTEXPT (BIT) TCTTE 383	TCTLEPFL (8) TACLE 333
TCTEXPU (BIT) TCTTE 383	TCTLEPLA (40) TCTLE 369
TCTEXRC (BIT) TCTTE 382	TCTLEPP (51) TCTLE 369
TCTEXRE (BIT) TCTTE 384	TCTLEPRE (BIT) TACLE 333
TCTEXRM (BIT) TCTTE 383	TCTLEPSA (0) TACLE 333
TCTEXRO (BIT) TCTTE 386	TCTLEPTE 333
TCTEXRT (BIT) TCTTE 383	TCTLEPUI (BIT) TCTLE 369
TCTEXS1 (BIT) TCTTE 386	TCTLERA (34) TCTLE 369
TCTEXSB (BIT) TCTTE 386	TCTLERLN (19) TCTLE 368
TCTEXSC (BIT) TCTTE 383	TCTLERPS (6A) TCTLE 369
TCTEXSL (BIT) TCTTE 386	TCTLERSP (1A) TCTLE 368
TCTEXSN (BIT) TCTTE 386	TCTLES AK (BIT) TCTLE 368
TCTEXSW (BIT) TCTTE 386	TCTLESBI (68) TCTLE 369
TCTEXTOK (9A) TCTTE 374	TCTLESEP (BIT) TCTLE 368
TCTEXTOP (127) TCTTE 380	TCTLESF (18) TCTLE 368
TCTEXUB (BIT) TCTTE 383	TCTLESI (30) TCTLE 368
TCTFX 359	TCTLESID (14) TCTLE 368
TCTIQLS (BIT) TCTTE 384	TCTLESIR (BIT) TCTLE 368
TCTLE 368	TCTLES LC (BIT) TCTLE 368
TCTLEAGA (BIT) TCTLE 369	TCTLES LI (BIT) TCTLE 368
TCTLEAL (32) TCTLE 369	TCTLES M1 (10) TCTLE 368
TCTLEALP (20) TCTLE 368	TCTLES M2 (11) TCTLE 368
TCTLEASA (BIT) TCTLE 369	TCTLESNA (BIT) TCTLE 368
TCTLEATA (BIT) TCTLE 369	TCTLESOD (18) TCTLE 368
TCTLEBAA (5C) TCTLE 369	TCTLESOS (BIT) TCTLE 368
TCTLEBC (3C) TCTLE 369	TCTLESPO (BIT) TCTLE 368
TCTLEBEI (67) TCTLE 369	TCTLESTR (BIT) TCTLE 368
TCTLEBRA (64) TCTLE 369	TCTLESWL 369
TCTLEBTO (66) TCTLE 369	TCTLETCM (BIT) TCTLE 369
TCTLECBS 369	TCTLETEA (44) TCTLE 369
TCTLECC (14) TCTLE 368	TCTLETLA (15) TCTLE 368
TCTLECL 369	TCTLETOP (4) TCTLE 368
TCTLECSW (1E) TCTLE 368	TCTLETPO (1C) TCTLE 368
TCTLEDCB (8) TCTLE 368	TCTLETRC (12) TCTLE 368
TCTLEDGC 368	TCTLUHWM (5FC) TCTFX 366
TCTLEDP1 (BIT) TCTLE 369	TCTLUNUM (5F8) TCTFX 366
TCTLEDP2 (BIT) TCTLE 369	TCTNNTMC (BIT) TCTTE 406
TCTLEDTF (8) TCTLE 368	TCTPFXLN (638) TCTFX 366
TCTLEEA (54) TCTLE 369	TCTPNDAC (BIT) TCTTE 374
TCTLEECA (4C) TCTLE 369	TCTPNDAT (BIT) TCTTE 374
TCTLEECB (0) TCTLE 368	TCTPNDLG (BIT) TCTTE 374
TCTLEEGC 368	TCTPNDNP (BIT) TCTTE 374
TCTLEES (1D) TCTLE 368	TCTPNDOS (BIT) TCTTE 374
TCTLEETE (58) TCTLE 369	TCTRA1 (BIT) TCTTE 375
TCTLEFAA (BIT) TCTLE 369	TCTRA2 (BIT) TCTTE 375
TCTLEFAC (BIT) TCTLE 369	TCTRN TA (10) TCTWA 414
TCTLEFAP (BIT) TCTLE 369	TCTRO1 (BIT) TCTTE 371
TCTLEFBR (BIT) TCTLE 369	TCTRO2 (BIT) TCTTE 371
TCTLEFCK (BIT) TCTLE 369	TCTRS COP (18) TCTTE 408
TCTLEFL (18) TCTLE 368	TCTRSEYE (0) TCTTE 408
TCTLEFL1 (BIT) TCTLE 368	TCTRSFIX (0) TCTTE 408
TCTLEFL3 (BIT) TCTLE 368	TCTRSFLN 4 TCTTE 413



"Restricted Materials of IBM"  
 Licensed Materials – Property of IBM

TCTRSFMH	(10)	TCTTE	408
TCTRSLEN	(8)	TCTTE	408
TCTRSTIO	(14)	TCTTE	408
TCTRSTUA	(C)	TCTTE	408
TCTRWE	(0)	TCTTE	358
TCTSK_RT_BITMAP_USED	(BIT)	TCTTE	407
TCTSK_TASK_DETACH_TIME	(28)	TCTTE	408
TCTSK_TERMINAL_NETNAME	(30)	TCTTE	408
TCTSK_TITOKEN	(20)	TCTTE	408
TCTSK_TOR_GRNAME	(38)	TCTTE	408
TCTSK_VIRTUAL_TERMINAL	(BIT)	TCTTE	407
TCTSK_VT_BITMAP_USED	(BIT)	TCTTE	407
TCTSK_VT_SO_CAPABLE	(BIT)	TCTTE	408
TCTSKAIP	(BIT)	TCTTE	407
TCTSKDDP			407
TCTSKDSP	4	TCTTE	413
TCTSKHID	(C)	TCTTE	408
TCTSKID	(0)	TCTTE	407
TCTSKINF	(BIT)	TCTTE	407
TCTSKMDE	(10)	TCTTE	408
TCTSKNDF	(BIT)	TCTTE	407
TCTSKNDL	(BIT)	TCTTE	407
TCTSKNET	(18)	TCTTE	408
TCTSKPSH	(BIT)	TCTTE	407
TCTSKSAN	(BIT)	TCTTE	407
TCTSKSHI	(BIT)	TCTTE	407
TCTSKSHO	(BIT)	TCTTE	407
TCTSKSIF			407
TCTSKSRE	(14)	TCTTE	408
TCTSKSYS	(8)	TCTTE	408
TCTSKTT	(4)	TCTTE	407
TCTSPRA	(18)	TCTTE	414
TCTT3750	1	TCTTE	370
TCTTE_ROUTABLE_START			372
TCTTE_START_DATA	(BIT)	TCTTE	377
TCTTE_START_DATA_ADDRESS	(E0)	TCTTE	377
TCTTE_START_DATA_FLAGS	(E4)	TCTTE	377
TCTTE_START_DATA_HEADER	(BIT)	TCTTE	377
TCTTE_START_DATA_ID	(E0)	TCTTE	376
TCTTE_START_DATA_LEN	(E8)	TCTTE	377
TCTTE113	1	TCTTE	410
TCTTE298	1	TCTTE	410
TCTTE32T	(BIT)	TCTTE	371
TCTTE370	1	TCTTE	410
TCTTE378	1	TCTTE	410
TCTTE3SR	(BIT)	TCTTE	378
TCTTEAAI	(BIT)	TCTTE	377
TCTTEAID	(32)	TCTTE	371
TCTTEAMS	(11)	TCTTE	403
TCTTEATP	(BIT)	TCTTE	370
TCTTEAWE	1	TCTTE	410
TCTTEB96			377
TCTTEBAA	(30)	TCTTE	372
TCTTEBAB	(BIT)	TCTTE	377
TCTTEBAI	(BIT)	TCTTE	377
TCTTEBBI	(BIT)	TCTTE	377
TCTTEBC	(A8)	TCTTE	374
TCTTEBDA	(FC)	TCTTE	377
TCTTEBDL	(F0)	TCTTE	377
TCTTEBEA	(FC)	TCTTE	377
TCTTEBES	(F2)	TCTTE	377
TCTTEBFS	(12)	TCTTE	403
TCTTEBIA	(F8)	TCTTE	377
TCTTEBIB			377
TCTTEBMN	(24)	TCTTE	403
TCTTEBSB	(F0)	TCTTE	377
TCTTEBTR	(BIT)	TCTTE	373
TCTTEBUB	(BIT)	TCTTE	377
TCTTEC12	(BIT)	TCTTE	378
TCTTEC15	(BIT)	TCTTE	378
TCTTEC19	(BIT)	TCTTE	378
TCTTEC24	(BIT)	TCTTE	378
TCTTEC48	(BIT)	TCTTE	378
TCTTEC96	(BIT)	TCTTE	378
TCTTECA	(10)	TCTTE	370
TCTTECAD	(30)	TCTTE	371
TCTTECAI	(BIT)	TCTTE	375
TCTTECAU			370
TCTTECB	(BIT)	TCTTE	370
TCTTECBS	(BIT)	TCTTE	370
TCTTECBW	(BIT)	TCTTE	376
TCTTECCE	(30)	TCTTE	372
TCTTECCU	(A0)	TCTTE	374
TCTTECCV	(BIT)	TCTTE	370
TCTTECDF			378
TCTTECEB	(BIT)	TCTTE	372
TCTTECEX	(BIT)	TCTTE	372
TCTTECFB	(BIT)	TCTTE	378
TCTTECFG	(114)	TCTTE	378
TCTTECG	(BIT)	TCTTE	375
TCTTECHC	(BIT)	TCTTE	370
TCTTECIA	(18)	TCTTE	370
TCTTECIL	(1C)	TCTTE	370
TCTTECIS	(BIT)	TCTTE	372
TCTTECL	(6)	TCTTE	370
TCTTECLT	(BIT)	TCTTE	375
TCTTECMF	(BIT)	TCTTE	378
TCTTECND	(BIT)	TCTTE	376
TCTTECNI	(38)	TCTTE	372
TCTTECOL	(BIT)	TCTTE	373
TCTTECON	1	TCTTE	410
TCTTECPF	(BIT)	TCTTE	375
TCTTECPZ	(BIT)	TCTTE	378
TCTTECRC	(BIT)	TCTTE	378
TCTTECRE	(44)	TCTTE	372
TCTTECRI	(BIT)	TCTTE	378
TCTTECRS	(BIT)	TCTTE	375
TCTTECS	(C6)	TCTTE	375
TCTTECSF	(BIT)	TCTTE	375
TCTTECSM			378
TCTTECSO	(BIT)	TCTTE	372
TCTTECSS	(110)	TCTTE	378
TCTTECT	(BIT)	TCTTE	378
TCTTECTC	(BIT)	TCTTE	375
TCTTECTI	(BIT)	TCTTE	378
TCTTECTM	(10D)	TCTTE	378
TCTTECTR	(BIT)	TCTTE	372
TCTTECTT	(10C)	TCTTE	378
TCTTECU	(BIT)	TCTTE	375
TCTTECV	(BIT)	TCTTE	370
TCTTECVS	(BIT)	TCTTE	375
TCTTECWE	1	TCTTE	410
TCTTECYI	(BIT)	TCTTE	375
TCTTEDA	(C)	TCTTE	370
TCTTEDAP	(BIT)	TCTTE	374
TCTTEDBI	(BIT)	TCTTE	378
TCTTEDDP	(BIT)	TCTTE	374
TCTTEDDS			403
TCTTEDES	(20)	TCTTE	371
TCTTEDII	(98)	TCTTE	374
TCTTEDII2			374
TCTTEDLM	(38)	TCTTE	372
TCTTEDMP	(FD)	TCTTE	378
TCTTEDOC	(102)	TCTTE	377
TCTTEDOS	(104)	TCTTE	378
TCTTEDWR	(BIT)	TCTTE	376
TCTTEEDF	(94)	TCTTE	374
TCTTEEDS	(BIT)	TCTTE	373
TCTTEEIA	(88)	TCTTE	373
TCTTEELN	(0)	TCTTE	403
TCTTEEN	(D8)	TCTTE	376
TCTTEEOD	(BIT)	TCTTE	371
TCTTEEU	(BIT)	TCTTE	375
TCTTEEXE			403
TCTTEFAA	(BIT)	TCTTE	371
TCTTEFCP	(BIT)	TCTTE	378
TCTTEFCV	(BIT)	TCTTE	371
TCTTEFDK	(BIT)	TCTTE	371
TCTTEFIB	(33)	TCTTE	371
TCTTEFLG	(FC)	TCTTE	377
TCTTEFMB	(5)	TCTTE	403
TCTTEFMP	(BIT)	TCTTE	403
TCTTEFP7	(BIT)	TCTTE	371
TCTTEFPA	(BIT)	TCTTE	371
TCTTEFRL	(BIT)	TCTTE	373
TCTTEFSP	(BIT)	TCTTE	371
TCTTEFTU	(BIT)	TCTTE	371
TCTTEFX	(1F)	TCTTE	371
TCTTEFXF	(BIT)	TCTTE	371
TCTTEGU	(6C)	TCTTE	373
TCTTEGWI	(BIT)	TCTTE	375
TCTTEHIL	(BIT)	TCTTE	373
TCTTEIGI	(BIT)	TCTTE	378
TCTTEINV	(BIT)	TCTTE	376
TCTTEIO	(C2)	TCTTE	375

TCTTEIO2 (C3) TCTTE 375	TCTTEPDI (BIT) TCTTE 378
TCTTEIRF (BIT) TCTTE 378	TCTTEPG3 (BIT) TCTTE 403
TCTTEISC 1 TCTTE 410	TCTTEPGA (BIT) TCTTE 403
TCTTEISL 1 TCTTE 410	TCTTEPGB (B) TCTTE 403
TCTTEIST (90) TCTTE 374	TCTTEPGC (8) TCTTE 403
TCTTELCE (EC) TCTTE 405	TCTTEPGD (BIT) TCTTE 403
TCTTELDL 403	TCTTEPGG (BIT) TCTTE 403
TCTTELEA (70) TCTTE 373	TCTTEPGI (BIT) TCTTE 403
TCTTEPL (AC) TCTTE 374	TCTTEPGL (7) TCTTE 403
TCTTEPLR (BIT) TCTTE 371	TCTTEPGM (20) TCTTE 403
TCTTELSV (100) TCTTE 377	TCTTEPGO (BIT) TCTTE 403
TCTTELUC (0) TCTTE 404	TCTTEPGP (BIT) TCTTE 403
TCTTELUL 404	TCTTEPGR (BIT) TCTTE 403
TCTTELUN (34) TCTTE 371	TCTTEPIP (BIT) TCTTE 378
TCTTELUS 1 TCTTE 410	TCTTEPL (BIT) TCTTE 372
TCTTEMAP (2C) TCTTE 403	TCTTEPOS (BIT) TCTTE 375
TCTTEMBI (BIT) TCTTE 376	TCTTEPRC (AE) TCTTE 374
TCTTEMBR (BIT) TCTTE 378	TCTTEPRI (BIT) TCTTE 378
TCTTEMBW (BIT) TCTTE 378	TCTTEPRN (BIT) TCTTE 373
TCTTEMC0 1 TCTTE 412	TCTTEPSA (14) TCTTE 403
TCTTEMC1 (FC) TCTTE 378	TCTTEPSE (0) TCTTE 403
TCTTEMEF (BIT) TCTTE 378	TCTTEPSI (BIT) TCTTE 378
TCTTEMFL (10A) TCTTE 378	TCTTEPSS (BIT) TCTTE 373
TCTTEMG1 (BIT) TCTTE 378	TCTTEPUB 1 TCTTE 410
TCTTEMG2 1 TCTTE 410	TCTTEPXE 404
TCTTEMID 372	TCTTEPY1 (BIT) TCTTE 378
TCTTEMIQ 378	TCTTEQAP (10) TCTTE 404
TCTTEMIX (BIT) TCTTE 373	TCTTEQCL (16) TCTTE 404
TCTTEMLN (108) TCTTE 378	TCTTEQF (C) TCTTE 404
TCTTEMND (BIT) TCTTE 376	TCTTEQLC (14) TCTTE 404
TCTTEMOD (1E4) TCTTE 386	TCTTEQLN (0) TCTTE 403
TCTTEMSF (BIT) TCTTE 378	TCTTEQPM 404
TCTTEMSG (BIT) TCTTE 378	TCTTEQPT (2) TCTTE 404
TCTTEMSR (BIT) TCTTE 373	TCTTEQSD (4) TCTTE 404
TCTTEMSS (10) TCTTE 403	TCTTEQSL (1) TCTTE 403
TCTTEMTC (BIT) TCTTE 378	TCTTEQST (4) TCTTE 404
TCTTEMTD (BIT) TCTTE 378	TCTTEQYA (BIT) TCTTE 373
TCTTEMTI (100) TCTTE 378	TCTTEQYC (BIT) TCTTE 373
TCTTEMTU (FC) TCTTE 378	TCTTEQYN (BIT) TCTTE 373
TCTTEMWR (BIT) TCTTE 378	TCTTEQYP (BIT) TCTTE 373
TCTTENCO 1 TCTTE 412	TCTTERBI (BIT) TCTTE 375
TCTTENI (B0) TCTTE 374	TCTTERC (24) TCTTE 371
TCTTENLI (28) TCTTE 371	TCTTEREC (A6) TCTTE 374
TCTTENNM (208) TCTTE 388	TCTTERIN (30) TCTTE 372
TCTTENNO (B4) TCTTE 374	TCTTERKI (BIT) TCTTE 378
TCTTENR (BIT) TCTTE 403	TCTTERLA (6C) TCTTE 373
TCTTENRA (BIT) TCTTE 403	TCTTERLI (BIT) TCTTE 378
TCTTENZA (31) TCTTE 372	TCTTERMC (BIT) TCTTE 370
TCTTENR (BIT) TCTTE 375	TCTTERMI (BIT) TCTTE 370
TCTTEOAO (BIT) TCTTE 375	TCTTERMN (10F) TCTTE 378
TCTTEOAT (BIT) TCTTE 375	TCTTERMP 373
TCTTEOBF (BIT) TCTTE 403	TCTTERMQ (BIT) TCTTE 370
TCTTEOBO (BIT) TCTTE 403	TCTTERMS (BIT) TCTTE 370
TCTTEOC (C7) TCTTE 375	TCTTERMT (BIT) TCTTE 370
TCTTEOCL 403	TCTTERPI (BIT) TCTTE 375
TCTTEODR (BIT) TCTTE 375	TCTTERPR (BIT) TCTTE 375
TCTTEOE (BE) TCTTE 375	TCTTERST (74) TCTTE 373
TCTTEOER (BIT) TCTTE 375	TCTTERTK (D6) TCTTE 376
TCTTEOFC (BIT) TCTTE 371	TCTTERTT (10E) TCTTE 378
TCTTEOFR (BIT) TCTTE 376	TCTTERVT (20) TCTTE 371
TCTTEOGA (BIT) TCTTE 375	TCTTES3 1 TCTTE 410
TCTTEOI (25) TCTTE 371	TCTTES7 1 TCTTE 410
TCTTEOIC (BIT) TCTTE 375	TCTTES7B 1 TCTTE 410
TCTTEOLA (BIT) TCTTE 375	TCTTESA (BIT) TCTTE 373
TCTTEONR (BIT) TCTTE 375	TCTTESAT (BIT) TCTTE 370
TCTTEOP (2B) TCTTE 371	TCTTESBI (BIT) TCTTE 378
TCTTEORL (BIT) TCTTE 375	TCTTESC (8) TCTTE 370
TCTTEORR (BIT) TCTTE 375	TCTTESCN (BIT) TCTTE 377
TCTTEOS (C5) TCTTE 375	TCTTESCV (A4) TCTTE 374
TCTTEOSR (BIT) TCTTE 375	TCTTESCW (BIT) TCTTE 375
TCTTEOSS (BIT) TCTTE 375	TCTTESEG (BIT) TCTTE 377
TCTTEOT (BA) TCTTE 375	TCTTESID (32) TCTTE 372
TCTTEOTI (BIT) TCTTE 375	TCTTESKA (70) TCTTE 373
TCTTEOWL (BIT) TCTTE 375	TCTTESKE 1 TCTTE 410
TCTTEOWR (BIT) TCTTE 375	TCTTESNP (BIT) TCTTE 370
TCTTEOWS (BIT) TCTTE 376	TCTTESOS (BIT) TCTTE 370
TCTTEPBF (BIT) TCTTE 378	TCTTESPA 379
TCTTEPBI (BIT) TCTTE 377	TCTTESPC (F6) TCTTE 379
TCTTEPBK (BIT) TCTTE 376	TCTTESPO (BIT) TCTTE 370
TCTTEPBM (BIT) TCTTE 375	TCTTESQC (BIT) TCTTE 370
TCTTEPCR 370	TCTTESRE (BIT) TCTTE 376
TCTTEPCW (BIT) TCTTE 370	TCTTESRO (BIT) TCTTE 370
TCTTEPDA 377	TCTTESSF (BIT) TCTTE 378

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TCTTESTA (BIT) TCTTE 370  
TCTTESTI (BIT) TCTTE 370  
TCTTESTU (104) TCTTE 378  
TCTTESUA (84) TCTTE 373  
TCTTESUS (BIT) TCTTE 375  
TCTTET35 1 TCTTE 410  
TCTTET36 1 TCTTE 410  
TCTTET37 1 TCTTE 410  
TCTTET40 1 TCTTE 410  
TCTTET4C 1 TCTTE 410  
TCTTET4E 1 TCTTE 410  
TCTTET50 1 TCTTE 410  
TCTTET53 1 TCTTE 410  
TCTTET65 1 TCTTE 410  
TCTTET6L 1 TCTTE 410  
TCTTET6R 1 TCTTE 410  
TCTTET70 1 TCTTE 410  
TCTTET74 1 TCTTE 410  
TCTTET75 1 TCTTE 410  
TCTTET77 1 TCTTE 410  
TCTTET80 1 TCTTE 410  
TCTTET84 1 TCTTE 410  
TCTTET86 1 TCTTE 410  
TCTTETA (6C) TCTTE 373  
TCTTETAB (33) TCTTE 372  
TCTTETAM 1 TCTTE 410  
TCTTETBI 1 TCTTE 410  
TCTTETC (7C) TCTTE 373  
TCTTETC1 (C1) TCTTE 375  
TCTTETCM (24) TCTTE 371  
TCTTETCR 1 TCTTE 410  
TCTTETDE (FC) TCTTE 377  
TCTTETDO (30) TCTTE 371  
TCTTETE (B8) TCTTE 375  
TCTTETEA (78) TCTTE 373  
TCTTETEL (54) TCTTE 373  
TCTTETEN (56) TCTTE 373  
TCTTETFF (BIT) TCTTE 403  
TCTTETFH (BIT) TCTTE 403  
TCTTETFM (BIT) TCTTE 403  
TCTTETFS (5) TCTTE 403  
TCTTETFV (BIT) TCTTE 403  
TCTTETHC 1 TCTTE 410  
TCTTETI (0) TCTTE 370  
TCTTETID (34) TCTTE 372  
TCTTETIM (210) TCTTE 388  
TCTTETIN 1 TCTTE 410  
TCTTETL4 1 TCTTE 410  
TCTTETL6 1 TCTTE 410  
TCTTETL7 1 TCTTE 410  
TCTTETLM (30) TCTTE 372  
TCTTETLX 1 TCTTE 410  
TCTTETM (5) TCTTE 370  
TCTTETM1 (BIT) TCTTE 377  
TCTTETM2 (BIT) TCTTE 377  
TCTTETM4 (BIT) TCTTE 377  
TCTTETMC (BIT) TCTTE 373  
TCTTETML (F0) TCTTE 377  
TCTTETMT 1 TCTTE 410  
TCTTETOT (BIT) TCTTE 371  
TCTTETP (D9) TCTTE 376  
TCTTETPA (18) TCTTE 403  
TCTTETPD 1 TCTTE 410  
TCTTETQN (F4) TCTTE 377  
TCTTETRM (BIT) TCTTE 375  
TCTTETRY (BIT) TCTTE 375  
TCTTETS (7) TCTTE 370  
TCTTETSC (BIT) TCTTE 373  
TCTTETSD 1 TCTTE 410  
TCTTETSY 1 TCTTE 410  
TCTTEIT (4) TCTTE 370  
TCTTETTE (0) TCTTE 403  
TCTTETTO (BIT) TCTTE 376  
TCTTETTV (FD) TCTTE 377  
TCTTETVO 1 TCTTE 410  
TCTTETW (BIT) TCTTE 371  
TCTTETWW (BIT) TCTTE 375  
TCTTETWX 1 TCTTE 410  
TCTTEUCN (8C) TCTTE 373  
TCTTEUIP (BIT) TCTTE 376  
TCTTEURC (1E) TCTTE 371  
TCTTEUSE (54) TCTTE 373  
TCTTEVAL (BIT) TCTTE 373  
TCTTEVDA (3C) TCTTE 372  
TCTTEWCI (BIT) TCTTE 376  
TCTTEWCS (103) TCTTE 378  
TCTTEWKF 377  
TCTTEWLI (BIT) TCTTE 378  
TCTTEX0 (F0) TCTTE 377  
TCTTEX1 (F0) TCTTE 377  
TCTTEXAC (BIT) TCTTE 375  
TCTTEXHN (1C) TCTTE 403  
TCTTEXLT (BIT) TCTTE 377  
TCTTEY1 (FC) TCTTE 377  
TCTTEY2 (FC) TCTTE 377  
TCTTEY3 (FC) TCTTE 378  
TCTTEY5 (FC) TCTTE 378  
TCTTEZ0 (A8) TCTTE 374  
TCTTEZ1 (A8) TCTTE 374  
TCTTEZ2 374  
TCTTEZ3 (A8) TCTTE 374  
TCTTT (4E) TCTWA 414  
TCTUAXFI (BIT) TCTTE 404  
TCTV\_APPC\_BITMAP (4FC) TCTFX 364  
TCTV\_APPC\_BITMAP (80) TCTFX 360  
TCTV\_BRIDGE\_BITMAP (590) TCTFX 366  
TCTV\_CCE\_ATI (BIT) TCTFX 361  
TCTV\_CCE\_TASK (BIT) TCTFX 361  
TCTV\_CESC\_ENABLE\_TIMEOUT 1 TCTFX 367  
TCTV\_CESC\_FLAGS (5CD) TCTFX 366  
TCTV\_CESC\_FUNCTION (5CC) TCTFX 366  
TCTV\_CESC\_SCHEDULED (BIT) TCTFX 366  
TCTV\_CESC\_TERM\_TIMEOUT 1 TCTFX 367  
TCTV\_CESC\_TIME (5C4) TCTFX 366  
TCTV\_CESC\_XRF\_TIMEOUT 1 TCTFX 367  
TCTV\_CONS\_BITMAP (594) TCTFX 366  
TCTV\_FIRST\_NIBLIST\_PTR (530) TCTFX 365  
TCTV\_FLAG\_DELETES (628) TCTFX 366  
TCTV\_GENRNAME (5B0) TCTFX 366  
TCTV\_GR\_DEREGD 1 TCTFX 367  
TCTV\_GR\_DEREGERR 1 TCTFX 367  
TCTV\_GR\_NOTAPPL 1 TCTFX 367  
TCTV\_GR\_NOTAVAIL 1 TCTFX 367  
TCTV\_GR\_NOTREG 1 TCTFX 367  
TCTV\_GR\_REGD 1 TCTFX 367  
TCTV\_GR\_REGERR 1 TCTFX 367  
TCTV\_GRQL 366  
TCTV\_GRQN (59F) TCTFX 366  
TCTV\_GRSTATUS (5B8) TCTFX 366  
TCTV\_IDLE\_COUNT (600) TCTFX 366  
TCTV\_LU61\_HEAD (120) TCTFX 361  
TCTV\_MAXIMUM\_IDLETIME (604) TCTFX 366  
TCTV\_MRO\_BITMAP (84) TCTFX 360  
TCTV\_MRO\_HEAD (A4) TCTFX 361  
TCTV\_NIB\_EXLST\_PTR (54C) TCTFX 365  
TCTV\_PRSS\_AVAILABLE (BIT) TCTFX 365  
TCTV\_PRSS\_CHUNK (50C) TCTFX 365  
TCTV\_PRSS\_ERROR\_COUNT (548) TCTFX 365  
TCTV\_PRSS\_INQUIRE\_COUNT (53C) TCTFX 365  
TCTV\_PRSS\_INQUIRE\_THRESHOLD (510) TCTFX 365  
TCTV\_PRSS\_LNKTABLE\_PTR (534) TCTFX 365  
TCTV\_PRSS\_NIB\_COUNT (538) TCTFX 365  
TCTV\_PRSS\_OPNDST\_COUNT (540) TCTFX 365  
TCTV\_PRSS\_PRED\_TAKEOVER (BIT) TCTFX 365  
TCTV\_PRSS\_PRED\_VICTIM (BIT) TCTFX 365  
TCTV\_PRSS\_RPL\_POOL\_PTR (528) TCTFX 365  
TCTV\_PRSS\_SUBSET (BIT) TCTFX 365  
TCTV\_PRSS\_UNBIND\_COUNT (544) TCTFX 365  
TCTV\_PRSS\_UNBIND\_RPLS\_PTR (52C) TCTFX 365  
TCTV\_PRSS\_UNBIND\_THRESHOLD (514) TCTFX 365  
TCTV\_PRSS\_VTAM\_ABEND (BIT) TCTFX 365  
TCTV\_PSDI (524) TCTFX 365  
TCTV\_RA\_2118\_ISSUED (BIT) TCTFX 362  
TCTV\_RA\_DONE (BIT) TCTFX 365  
TCTV\_RA\_STALL (BIT) TCTFX 360  
TCTV\_RA\_STALL\_COUNT (550) TCTFX 365  
TCTV\_REMDEL\_DELETES (634) TCTFX 366  
TCTV\_REMDEL\_HEAD (124) TCTFX 361  
TCTV\_REMDELS\_IN (62C) TCTFX 366  
TCTV\_REMDELS\_OUT (630) TCTFX 366  
TCTV\_REMDIDLE (618) TCTFX 366  
TCTV\_REMDINT (614) TCTFX 366  
TCTV\_RPL\_NUMBER 1 TCTFX 367  
TCTV\_RT\_BITMAP (588) TCTFX 365  
TCTV\_SAVE\_GRNAME (580) TCTFX 365  
TCTV\_SKELETONS\_BUILT (61C) TCTFX 366

TCTV_SKELETONS_CURRENT (620) TCTFX 366	TCTVCFO (BIT) TCPRA 357
TCTV_SKELETONS_DELETED (624) TCTFX 366	TCTVCFQ (BIT) TCTFX 361
TCTV_TOTAL_IDLETIME (60C) TCTFX 366	TCTVCIQ (BIT) TCTFX 360
TCTV_TRACE (92) TCTFX 360	TCTVCLSS (BIT) TCTFX 359
TCTV_VIRTTERM_BITMAP (58C) TCTFX 365	TCTVCMR (BIT) TCPRA 357
TCTV_ZBLX_ERR_OFFSET (140) TCTFX 362	TCTVCNE (BIT) TCTFX 361
TCTV_ZC_ENQ_POOL_TOKEN (598) TCTFX 366	TCTVCNIB (F8) TCTFX 361
TCTV_ZCN2 (564) TCTFX 365	TCTVCNTE (2C) TCTFX 359
TCTV_ZCNIBLST_TOKEN (518) TCTFX 365	TCTVCONF (E8) TCTFX 361
TCTV_ZGAI (5F4) TCTFX 366	TCTVCPST 1 TCTFX 367
TCTV_ZGBM (5D0) TCTFX 366	TCTVCRPL (100) TCTFX 361
TCTV_ZGCA (5F0) TCTFX 366	TCTVCSAA (8) TCTFX 359
TCTV_ZGCC (5E0) TCTFX 366	TCTVCSAD (C) TCTFX 359
TCTV_ZGCH (55C) TCTFX 365	TCTVCSCL (C8) TCTFX 361
TCTV_ZGCN (5EC) TCTFX 366	TCTVCSQ (BIT) TCTFX 361
TCTV_ZGDA (5E8) TCTFX 366	TCTVCTCT (D4) TCTFX 361
TCTV_ZGIN (560) TCTFX 365	TCTVGUID (B2) TCTFX 361
TCTV_ZGPC (5E4) TCTFX 366	TCTVCSWA (DC) TCTFX 361
TCTV_ZGPR (5C0) TCTFX 366	TCTVDC (BIT) TCTFX 360
TCTV_ZGRP (5D4) TCTFX 366	TCTVDMTE (24) TCTFX 359
TCTV_ZGRP_FAILED (BIT) TCTFX 365	TCTVDO (BIT) TCTFX 360
TCTV_ZGRP_FIN_ECB (520) TCTFX 365	TCTVDOC (15A) TCTFX 362
TCTV_ZGSL (5D8) TCTFX 366	TCTVDRSA (20) TCTFX 359
TCTV_ZGTA (558) TCTFX 365	TCTVDSPA (74) TCTFX 360
TCTV_ZGTI (554) TCTFX 365	TCTVECBC 1 TCTFX 367
TCTV_ZGUB (5DC) TCTFX 366	TCTVEODI (65) TCTFX 360
TCTV_ZGXA 366	TCTVER0 (2A0) TCTFX 363
TCTV_ZLGX_SLUNAME 365	TCTVER1 (2A4) TCTFX 363
TCTV_ZLGX_TOKEN (57C) TCTFX 365	TCTVER10 (2C8) TCTFX 363
TCTV_ZLSL_ECB (1F4) TCTFX 362	TCTVER11 (2CC) TCTFX 363
TCTV31BA (BIT) TCTFX 359	TCTVER12 (2D0) TCTFX 363
TCTV32EA 361	TCTVER14 (298) TCTFX 363
TCTV32P4 (BC) TCTFX 361	TCTVER15 (29C) TCTFX 363
TCTV32PT (BA) TCTFX 361	TCTVER2 (2A8) TCTFX 363
TCTV32RB (B9) TCTFX 361	TCTVER20 (2F0) TCTFX 363
TCTVAA1 361	TCTVER21 (2F4) TCTFX 363
TCTVAA2 (114) TCTFX 361	TCTVER22 (2F8) TCTFX 363
TCTVAA3 (118) TCTFX 361	TCTVER23 (2FC) TCTFX 363
TCTVAA4 (11C) TCTFX 361	TCTVER24 (300) TCTFX 363
TCTVACBA (FC) TCTFX 361	TCTVER25 (304) TCTFX 363
TCTVACWE (20C) TCTFX 362	TCTVER26 (308) TCTFX 363
TCTVADAT (228) TCTFX 363	TCTVER27 (30C) TCTFX 363
TCTVADCB (10) TCTFX 359	TCTVER28 (310) TCTFX 363
TCTVADDF (BIT) TCTFX 362	TCTVER29 (314) TCTFX 363
TCTVADEF (88) TCTFX 360	TCTVER2A (318) TCTFX 363
TCTVADEN (BIT) TCTFX 362	TCTVER2B (31C) TCTFX 363
TCTVADFG (214) TCTFX 362	TCTVER2C (320) TCTFX 363
TCTVADIN (BIT) TCTFX 362	TCTVER2E (2E8) TCTFX 363
TCTVADLO (224) TCTFX 362	TCTVER2F (2EC) TCTFX 363
TCTVADPK (22A) TCTFX 363	TCTVER2H (2DC) TCTFX 363
TCTVADPX (22C) TCTFX 363	TCTVER3 (2AC) TCTFX 363
TCTVADQC (4D8) TCTFX 364	TCTVER4 (2B0) TCTFX 363
TCTVADQK (4E0) TCTFX 364	TCTVER5 (2B4) TCTFX 363
TCTVADQT (4DC) TCTFX 364	TCTVER6 (2B8) TCTFX 363
TCTVADQX (4E2) TCTFX 364	TCTVER7 (2BC) TCTFX 363
TCTVADRJ (220) TCTFX 362	TCTVER8 (2C0) TCTFX 363
TCTVADSH (21E) TCTFX 362	TCTVER9 (2C4) TCTFX 363
TCTVAECB (4E4) TCTFX 364	TCTVERS2 (2DC) TCTFX 363
TCTVAF (BIT) TCTFX 360	TCTVERS2_FLAG (324) TCTFX 363
TCTVAICA (BIT) TCTFX 362	TCTVERS2_IN_USE 363
TCTVAICE (BIT) TCTFX 362	TCTVERSA (28C) TCTFX 363
TCTVAICN (21D) TCTFX 362	TCTVEVRA (288) TCTFX 363
TCTVAICY (BIT) TCTFX 362	TCTVEXC (BIT) TCPRA 357
TCTVAIRU (BIT) TCTFX 362	TCTVFC (BIT) TCTFX 360
TCTVAITR (BIT) TCTFX 362	TCTVFME 360
TCTVALT (BIT) TCTFX 364	TCTVHPOA 360
TCTVALTT (BIT) TCTFX 364	TCTVIAP (BIT) TCPRA 357
TCTVANWE (210) TCTFX 362	TCTVINIT (478) TCTFX 364
TCTVAPCC (16C) TCTFX 362	TCTVIOBL (1F0) TCTFX 362
TCTVAPCE (16C) TCTFX 362	TCTVIOL1 (1F1) TCTFX 362
TCTVAPPL 361	TCTVIOL2 (1F2) TCTFX 362
TCTVAPPN (98) TCTFX 361	TCTVIRCH (A4) TCTFX 361
TCTVAPWE 364	TCTVISC (BIT) TCTFX 360
TCTVASDC (4E8) TCTFX 364	TCTVJBNM (E0) TCTFX 361
TCTVASRR (108) TCTFX 361	TCTVKRSA (240) TCTFX 363
TCTVATTB (44) TCTFX 359	TCTVLMPE 1 TCTFX 367
TCTVAXIT (215) TCTFX 362	TCTVLNIB (F4) TCTFX 361
TCTVBFQ (BIT) TCTFX 360	TCTVLRP (BIT) TCPRA 357
TCTVCAC (BIT) TCTFX 361	TCTVLSY 364
TCTVCCBC 1 TCTFX 367	TCTVLUN (A0) TCTFX 361
TCTVCCE (D0) TCTFX 361	TCTVLUNS (BIT) TCTFX 359
TCTVCDME (D8) TCTFX 361	TCTVLVL (48) TCTFX 359
TCTVCECB (47C) TCTFX 364	TCTVLVL0 (5C) TCTFX 359

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TCTVLLV1	(5D)	TCTFX	359	TCTVRS14	(33C)	TCTFX	363
TCTVLLV2	(5E)	TCTFX	359	TCTVRS15	(340)	TCTFX	363
TCTVLLV3			359	TCTVRS2	(34C)	TCTFX	363
TCTVLLV4	(60)	TCTFX	359	TCTVRS3	(350)	TCTFX	363
TCTVLLV5			360	TCTVRS4	(354)	TCTFX	363
TCTVLLV6	(62)	TCTFX	360	TCTVRS5	(358)	TCTFX	363
TCTVLLV7	(63)	TCTFX	360	TCTVRS6	(35C)	TCTFX	363
TCTVLLVB	(5C)	TCTFX	359	TCTVRS7	(360)	TCTFX	363
TCTVLLVI	(4C)	TCTFX	359	TCTVRS8	(364)	TCTFX	363
TCTVLLVM	(54)	TCTFX	359	TCTVRS9	(368)	TCTFX	363
TCTVLLVR	(30)	TCTFX	359	TCTVRSAA	(28)	TCTFX	359
TCTVMDAD	(6C)	TCTFX	360	TCTVRSAN	1	TCTFX	367
TCTVMDND	(70)	TCTFX	360	TCTVRSAP			363
TCTVMGRP	(B4)	TCTFX	361	TCTVRSBA	(338)	TCTFX	363
TCTVMNIB			362	TCTVRSEA			363
TCTVMODL	(38)	TCTFX	359	TCTVRSID	(338)	TCTFX	363
TCTVMXWE	(208)	TCTFX	362	TCTVRSN	(BIT)	TCPRA	357
TCTVNAC	(BIT)	TCTFX	361	TCTVRSPC			363
TCTVNATF	(BIT)	TCTFX	360	TCTVRSRG	(33C)	TCTFX	363
TCTVNONO	(BIT)	TCTFX	362	TCTVRSTC	(484)	TCTFX	364
TCTVNOP	(BIT)	TCTFX	361	TCTVRVRA	(F0)	TCTFX	361
TCTVNPRC	(90)	TCTFX	360	TCTVSAPL	(488)	TCTFX	364
TCTVNQCT	(8E)	TCTFX	360	TCTVSAPN	(489)	TCTFX	364
TCTVNQTI	(AC)	TCTFX	361	TCTVSAS	(BIT)	TCPRA	357
TCTVNSU	(BIT)	TCTFX	361	TCTVSCSW	(94)	TCTFX	360
TCTVOA	(BIT)	TCTFX	360	TCTVSDAI	1	TCTFX	367
TCTVOCC	(166)	TCTFX	362	TCTVSDFN	1	TCTFX	367
TCTVOECB	(480)	TCTFX	364	TCTVSDIS	1	TCTFX	367
TCTVOPST	(BIT)	TCTFX	364	TCTVSDMT	1	TCTFX	367
TCTVPLUS			360	TCTVSDNO	1	TCTFX	367
TCTVPLUT	(BIT)	TCTFX	360	TCTVSDOP	1	TCTFX	367
TCTVPNTK	(64)	TCTFX	360	TCTVSDST	(93)	TCTFX	360
TCTVPOAC	(138)	TCTFX	362	TCTVSDTD	(BIT)	TCTFX	362
TCTVPOOL	(68)	TCTFX	360	TCTVSDTD6	(BIT)	TCTFX	362
TCTVPRB1	(508)	TCTFX	365	TCTVSDTFO	(BIT)	TCTFX	362
TCTVPRB2	(509)	TCTFX	365	TCTVSDTI	(BIT)	TCTFX	362
TCTVPRB3	(50A)	TCTFX	365	TCTVSDTX	(BIT)	TCTFX	362
TCTVPRB4	(50B)	TCTFX	365	TCTVSDUB			362
TCTVQLUL	(22E)	TCTFX	363	TCTVSDWT	(15C)	TCTFX	362
TCTVQLUN	(22F)	TCTFX	363	TCTVSDXT			361
TCTVQRN	(BIT)	TCTFX	359	TCTVSEBA	(3C)	TCTFX	359
TCTVRAA	(BIT)	TCPRA	357	TCTVSECB	(C4)	TCTFX	361
TCTVRAB	(0)	TCPRA	357	TCTVSHM	(BIT)	TCTFX	360
TCTVRAB2	(1)	TCPRA	357	TCTVSHU	(BIT)	TCTFX	360
TCTVRAEB	(8)	TCPRA	357	TCTVSKAD	(68)	TCTFX	360
TCTVRAEB_POSTED	(BIT)	TCPRA	357	TCTVSKLN	(66)	TCTFX	360
TCTVRAEB_WAITING	(BIT)	TCPRA	357	TCTVSLCT	(BE)	TCTFX	361
TCTVRAF1			357	TCTVSLDC	(104)	TCTFX	361
TCTVRAF2	(10)	TCPRA	357	TCTVSLG	(BIT)	TCTFX	360
TCTVRAF3	(14)	TCPRA	357	TCTVSLHI	(BIT)	TCTFX	362
TCTVRAG	(BIT)	TCPRA	357	TCTVSLHO	(BIT)	TCTFX	359
TCTVRAGN	(2)	TCPRA	357	TCTVSLR	(BIT)	TCTFX	360
TCTVRAHC	(164)	TCTFX	362	TCTVSLS	(BIT)	TCTFX	360
TCTVRAI	(BIT)	TCPRA	357	TCTVSLSS	(108)	TCTFX	361
TCTVRAL	(4)	TCPRA	357	TCTVSLUT	(A8)	TCTFX	361
TCTVRANT	(168)	TCTFX	362	TCTVSQUE	(96)	TCTFX	361
TCTVRAPLF	(BIT)	TCTFX	362	TCTVSRA	(BIT)	TCPRA	357
TCTVRAPS	(0)	TCPRA	357	TCTVSRQ	(130)	TCTFX	362
TCTVRARP	(200)	TCTFX	362	TCTVSRQE	(134)	TCTFX	362
TCTVRASW	(162)	TCTFX	362	TCTVSSON	(BIT)	TCTFX	359
TCTVRATI	(18)	TCPRA	357	TCTVSTAT	(47C)	TCTFX	364
TCTVRAVC	(1FC)	TCTFX	362	TCTVSTYP	(485)	TCTFX	364
TCTVRAVL	(1FE)	TCTFX	362	TCTVSUBP	(4A8)	TCTFX	364
TCTVRCC	(BIT)	TCTFX	364	TCTVSUFY	(332)	TCTFX	363
TCTVRESP	(95)	TCTFX	360	TCTVSUT	(78)	TCTFX	360
TCTVRGM	(BIT)	TCPRA	357	TCTVTATA	(18)	TCTFX	359
TCTVRINC	(204)	TCTFX	362	TCTVTCNT	(8C)	TCTFX	360
TCTVRLCT	(4CC)	TCTFX	364	TCTVTCTE	(10C)	TCTFX	361
TCTVRMAX	(15E)	TCTFX	362	TCTVTTEBA	(1C)	TCTFX	359
TCTVRMIN	(160)	TCTFX	362	TCTVTIHA	(14)	TCTFX	359
TCTVROL	(BIT)	TCPRA	357	TCTVTOKR	(4EC)	TCTFX	364
TCTVRPL2	(14C)	TCTFX	362	TCTVTRA			364
TCTVRPLA	(13C)	TCTFX	362	TCTVTRC	(4C8)	TCTFX	364
TCTVRPLC	(504)	TCTFX	364	TCTVTRF	(4AC)	TCTFX	364
TCTVRPLN	(158)	TCTFX	362	TCTVTRTA	(C0)	TCTFX	361
TCTVRPLQ	(500)	TCTFX	364	TCTVTRV	(4B0)	TCTFX	364
TCTVRPLS	(150)	TCTFX	362	TCTVTRX	(BIT)	TCTFX	364
TCTVRQP	(BIT)	TCPRA	357	TCTVTRXA	(4B4)	TCTFX	364
TCTVRRN	(BIT)	TCTFX	360	TCTVTRXB	(4B8)	TCTFX	364
TCTVRRS	(BIT)	TCPRA	357	TCTVTRXC	(4BC)	TCTFX	364
TCTVRS0	(344)	TCTFX	363	TCTVTRXD	(4C0)	TCTFX	364
TCTVRS1	(348)	TCTFX	363	TCTVTRXE	(4C4)	TCTFX	364
TCTVRS10	(36C)	TCTFX	363	TCTVUAKY	(BIT)	TCTFX	364

TCTVUALC (BIT) TCTFX 364	TD_DELETEQ_QUEUE (0) TDUE 429
TCTVUSFD (BIT) TCTFX 359	TD_DELETEQ_QUEUE_V (BIT) TDUE 428
TCTVUVAR 359	TD_DELETEQ_SYSID (0) TDUE 429
TCTVVAP 361	TD_DELETEQ_SYSID_V (BIT) TDUE 428
TCTVVFO (BIT) TCTFX 360	TD_DISABLED_EIBRCODE 1 TDUE 430
TCTVVMOF 363	TD_DISABLED_EIBRESP 1 TDUE 430
TCTVVPLS (7C) TCTFX 360	TD_EID (0) TDUE 428
TCTVVRZ (BIT) TCTFX 361	TD_EIDOPT5 (5) TDUE 429
TCTVVSG (BIT) TCTFX 360	TD_EIDOPT6 (6) TDUE 429
TCTVVTHA (BIT) TCTFX 360	TD_EIDOPT7 429
TCTVVTHO (BIT) TCTFX 360	TD_EXIST1 (BIT) TDUE 428
TCTVVTHQ (BIT) TCTFX 360	TD_EXIST2 (BIT) TDUE 428
TCTVWBC (BIT) TCPRA 357	TD_EXIST3 (BIT) TDUE 428
TCTVWK1 (2D4) TCTFX 363	TD_EXIST7 428
TCTVWLA (0) TCTFX 359	TD_EXTRA_Q_OWNER 72
TCTVWLA1 (4) TCTFX 359	TD_EXTRA_SYSOUT_CLASS 72
TCTVWLSE (CC) TCTFX 361	TD_FUNCT (1) TDUE 428
TCTVX001 (498) TCTFX 364	TD_GROUP (0) TDUE 428
TCTVX002 (49A) TCTFX 364	TD_INTRA_Q_OWNER 74
TCTVX003 (49C) TCTFX 364	TD_INVREQ_EIBRCODE 1 TDUE 430
TCTVX004 (49E) TCTFX 364	TD_INVREQ_EIBRESP 1 TDUE 430
TCTVXBC 361	TD_IOERR_EIBRCODE 1 TDUE 430
TCTVXNP (BIT) TCTFX 361	TD_IOERR_EIBRESP 1 TDUE 430
TCTVXPLC (492) TCTFX 364	TD_ISCINVREQ_EIBRCODE 1 TDUE 430
TCTVXPLE (494) TCTFX 364	TD_ISCINVREQ_EIBRESP 1 TDUE 430
TCTVXQOA (154) TCTFX 362	TD LENGERR_EIBRCODE 1 TDUE 430
TCTVXREN (486) TCTFX 364	TD LENGERR_EIBRESP 1 TDUE 430
TCTVXRFS 359	TD_LENGTH (0) TDUE 429
TCTVXRPL (170) TCTFX 362	TD_LENGTH_V (BIT) TDUE 428
TCTVXRT (BIT) TCTFX 361	TD_NOSPACE_EIBRCODE 1 TDUE 430
TCTVXSBC 361	TD_NOSPACE_EIBRESP 1 TDUE 430
TCTVXSLM (4A0) TCTFX 364	TD_NOTAUTH_EIBRCODE 1 TDUE 430
TCTVXTS (BIT) TCTFX 361	TD_NOTAUTH_EIBRESP 1 TDUE 430
TCTVXTSE 364	TD_NOTAUTH_EIBRESP2 1 TDUE 430
TCTVZHPR (1F8) TCTFX 362	TD_NOTOPEN_EIBRCODE 1 TDUE 430
TCTVZQTI (40) TCTFX 359	TD_NOTOPEN_EIBRESP 1 TDUE 430
TCTWA 414	TD_OK_EIBRCODE 1 TDUE 430
TCTWA (0) TCTWA 414	TD_OK_EIBRESP 1 TDUE 430
TCTWALEN (188) TCTWA 415	TD_OK_EIBRESP2 1 TDUE 430
TCTWE 415	TD_QBUSY_EIBRCODE 1 TDUE 430
TCTWE_BIND (2A) TCTWE 417	TD_QBUSY_EIBRESP 1 TDUE 430
TCTWE_BIND_CLONING 417	TD_QIDERR_EIBRCODE 1 TDUE 430
TCTWE_BIND_LENGTH (28) TCTWE 417	TD_QIDERR_EIBRESP 1 TDUE 430
TCTWE_GR (BIT) TCTWE 417	TD_QUEUE (0) TDUE 429
TCTWE_GRNAME_CONN (BIT) TCTWE 417	TD_QUEUE_V (BIT) TDUE 428
TCTWE_NETID (18) TCTWE 417	TD_QZERO_EIBRCODE 1 TDUE 430
TCTWE_NETNAME (18) TCTWE 417	TD_QZERO_EIBRESP 1 TDUE 430
TCTWE_RPLSEQNO (24) TCTWE 417	TD_READQ 1 TDUE 430
TCTWE_TEMPLATE_NETNAME (10) TCTWE 417	TD_READQ_INTO (0) TDUE 429
TCTWE_USE_OUR_MEMBER_NAME (BIT) TCTWE 417	TD_READQ_LENGTH (0) TDUE 429
TCTWE_VTAM_BIND (4) TCTWE 416	TD_READQ_LENGTH_V (BIT) TDUE 428
TCTWECHN (0) TCTWE 416	TD_READQ_NOSUSPEND_X 429
TCTWECID (20) TCTWE 417	TD_READQ_QUEUE (0) TDUE 429
TCTWECLN 417	TD_READQ_QUEUE_V (BIT) TDUE 428
TCTWECRU (2A) TCTWE 417	TD_READQ_SET (0) TDUE 429
TCTWELEN (9) TCTWE 417	TD_READQ_SET_INTO_V (BIT) TDUE 428
TCTWETEA (C) TCTWE 417	TD_READQ_SET_X 429
TCTWETYP (8) TCTWE 416	TD_READQ_SYSID (0) TDUE 429
TCTWLA (1C) TCTWA 414	TD_READQ_SYSID_V (BIT) TDUE 428
TCTXLPA (C) TCTWA 414	TD_SYSID (0) TDUE 429
TCTXLPAF (C) TCTWA 414	TD_SYSID_V (BIT) TDUE 428
TCTXLPAV (BIT) TCTWA 414	TD_SYSIDERR_EIBRCODE 1 TDUE 430
TCTXTPA (8) TCTWA 414	TD_SYSIDERR_EIBRESP 1 TDUE 430
TCV29 418	TD_TRANDATA_GROUP 1 TDUE 430
TCX 421	TD_WRITEQ 1 TDUE 430
TCXDF_ENTRY 2 DUA 96	TD_WRITEQ_FROM (0) TDUE 429
TCXDF_EXIT 2 DUA 96	TD_WRITEQ_FROM_V (BIT) TDUE 428
TCXDF_RECOVERY 2 DUA 96	TD_WRITEQ_LENGTH (0) TDUE 429
TD_ADDR_LIST (0) TDUE 428	TD_WRITEQ_LENGTH_V (BIT) TDUE 428
TD_ADDR0 (0) TDUE 428	TD_WRITEQ_QUEUE (0) TDUE 429
TD_ADDR1 (4) TDUE 428	TD_WRITEQ_QUEUE_V (BIT) TDUE 428
TD_ADDR2 (8) TDUE 428	TD_WRITEQ_SYSID (0) TDUE 429
TD_ADDR3 (C) TDUE 428	TD_WRITEQ_SYSID_V (BIT) TDUE 428
TD_ADDR4 (10) TDUE 428	TDATFAIL (BIT) DCT 71
TD_ADDR5 (14) TDUE 428	TDCHF (10) TDCI 422
TD_ADDR6 (18) TDUE 428	TDCHCLK (8) TDCI 422
TD_ADDR7 (1C) TDUE 428	TDCHDI (0) TDCI 421
TD_BITS1 (2) TDUE 428	TDCHFC (4) TDCI 422
TD_DATA1 (0) TDUE 429	TDCHL (BIT) TDCI 422
TD_DATA2 (0) TDUE 429	TDCHREC (BIT) TDCI 421
TD_DATA3 (0) TDUE 429	TDCI 421
TD_DATA7 (0) TDUE 429	TDCIDF (13) TDCI 422
TD_DELETEQ 1 TDUE 430	TDCIDFLN (BIT) TDCI 422

"Restricted Materials of IBM"  
 Licensed Materials – Property of IBM

TDCIEND (BIT) TDCI 422  
 TDDATED (C) TDCI 421  
 TDDCT\_COMMITTED\_NUMELEMS (60) DCT 73  
 TDDCT\_COMMITTED\_READ\_RBA (5C) DCT 73  
 TDDCT\_COMMITTED\_START\_RBA (54) DCT 73  
 TDDCT\_COMMITTED\_WRITE\_RBA (58) DCT 73  
 TDDCT\_COMMON\_STATS (10) DCT 70  
 TDDCT\_CURRENT\_CIS 73  
 TDDCT\_DELETEQ (BIT) DCT 73  
 TDDCT\_DELETES (18) DCT 70  
 TDDCT\_DISABLED (BIT) DCT 70  
 TDDCT\_DISABLING (BIT) DCT 70  
 TDDCT\_ENABLED (BIT) DCT 70  
 TDDCT\_FIRST\_WRITEQ (BIT) DCT 73  
 TDDCT\_FLAGS (A5) DCT 73  
 TDDCT\_HEURISTIC (BIT) DCT 74  
 TDDCT\_INDOUBT (C4) DCT 74  
 TDDCT\_INTRA\_USE\_COUNT (BC) DCT 74  
 TDDCT\_NO\_TIMES\_TRIGRD (48) DCT 73  
 TDDCT\_NUMELEMS\_REC (BIT) DCT 73  
 TDDCT\_PEAK\_CIS (50) DCT 73  
 TDDCT\_PR\_LOG\_RECORD\_TYPE (A4) DCT 73  
 TDDCT\_PR\_Q\_LOG\_STCK 73  
 TDDCT\_PR\_READ\_RBA\_REC\_STCK (94) DCT 73  
 TDDCT\_PR\_START\_RBA\_REC\_STCK (8C) DCT 73  
 TDDCT\_PR\_WRITE\_RBA\_REC\_STCK (9C) DCT 73  
 TDDCT\_PREFIX (0) DCT 70  
 TDDCT\_Q\_INDOUBT (BIT) DCT 73  
 TDDCT\_QUEUE (BIT) DCT 74  
 TDDCT\_READ\_RBA\_REC (BIT) DCT 73  
 TDDCT\_READ\_TDQUB\_PTR 73  
 TDDCT\_READQ (BIT) DCT 73  
 TDDCT\_READS (14) DCT 70  
 TDDCT\_REJECT (BIT) DCT 74  
 TDDCT\_START\_RBA\_REC (BIT) DCT 73  
 TDDCT\_SUSPEND\_TOKEN (A8) DCT 73  
 TDDCT\_TDTIBM\_REC (BIT) DCT 73  
 TDDCT\_TXN\_NUMBER (1C) DCT 70  
 TDDCT\_UNCOMMIT\_DATA\_WRITTEN 73  
 TDDCT\_UOW\_OWNING\_READ\_NQ 73  
 TDDCT\_UOW\_OWNING\_WRITE\_NQ 73  
 TDDCT\_WRITE\_RBA\_REC (BIT) DCT 73  
 TDDCT\_WRITE\_TDQUB\_PTR 73  
 TDDCT\_WRITEQ (BIT) DCT 73  
 TDDCT\_WRITES (10) DCT 70  
 TDDCTAAD (44) DCT 73  
 TDDCTBCN (B0) DCT 74  
 TDDCTCMN (0) DCT 70  
 TDDCTDID (8) DCT 70  
 TDDCTDQL (38) DCT 73  
 TDDCTDT (C) DCT 70  
 TDDCTELN 70  
 TDDCTEXP (0) DCT 72  
 TDDCTFCN 74  
 TDDCTFLC (C6) DCT 74  
 TDDCTIDN 71  
 TDDCTIND (0) DCT 71  
 TDDCTINP (0) DCT 72  
 TDDCTREM (0) DCT 71  
 TDDCTRID (24) DCT 70  
 TDDCTRLN (30) DCT 70  
 TDDCTSLR (BIT) DCT 73  
 TDDCTSPR (BIT) DCT 73  
 TDDCTSYS 70  
 TDDCTTED (40) DCT 73  
 TDDCTTID (3C) DCT 73  
 TDDCTUID (C8) DCT 74  
 TDDCTUIL 74  
 TDDCTUOK (BIT) DCT 74  
 TDDCTUTK (D0) DCT 74  
 TDEXABND (BIT) DCT 72  
 TDEXASDM (74) DCT 72  
 TDEXASDS (70) DCT 72  
 TDEXASYO (BIT) DCT 72  
 TDEXAWCB (7C) DCT 72  
 TDEXCLIP (BIT) DCT 72  
 TDEXCLOS (BIT) DCT 72  
 TDEXDA (BIT) DCT 72  
 TDEXDISP 72  
 TDEXDSN (3C) DCT 72  
 TDEXFEIP (BIT) DCT 72  
 TDEXIOER (BIT) DCT 72  
 TDEXMEMB (80) DCT 72  
 TDEXMOD (BIT) DCT 72  
 TDEXNOSP (BIT) DCT 72  
 TDEXNSDS 72  
 TDEXOLD (BIT) DCT 72  
 TDEXOPEN (BIT) DCT 72  
 TDEXOPIN (BIT) DCT 72  
 TDEXOPIP (BIT) DCT 72  
 TDEXPA (BIT) DCT 72  
 TDEXQZER (BIT) DCT 72  
 TDEXSFL1 72  
 TDEXSFL2 72  
 TDEXSFL3 (37) DCT 72  
 TDEXSHR (BIT) DCT 72  
 TDEXTRBM (BIT) DCT 70  
 TDFSTCI (BIT) TDCI 421  
 TDFULLMSG (BIT) TDST 425  
 TDGCLEN (BIT) DUGS 100  
 TDGDVERS (4) DUGS 100  
 TDGEND (BIT) DUGS 100  
 TDGID (2) DUGS 100  
 TDGIDE (BIT) DUGS 100  
 TDGLEN 100  
 TDGVERS (BIT) DUGS 100  
 TDIA 422  
 TDIA\_ARROW (2) TDIA 422  
 TDIA\_BLOCK (8) TDIA 422  
 TDIA\_DATA (10) TDIA 422  
 TDIA\_DFH (3) TDIA 422  
 TDIA\_DOMID (6) TDIA 422  
 TDIA\_LENGTH (0) TDIA 422  
 TDIA\_PREFIX (0) TDIA 422  
 TDID (0) TDCI 421  
 TDINAWCB (B8) DCT 74  
 TDINDBM (BIT) DCT 70  
 TDINDTBM (BIT) DCT 70  
 TDINSFL1 72  
 TDLENREC (11) TDCI 422  
 TDLUS (15) TDCI 422  
 TDNOTRM 70  
 TDNUMCI (A) TDCI 421  
 TDOA 423  
 TDOADBA (C) TDOA 423  
 TDOAPFX1 (0) TDOA 423  
 TDOAPFX2 (8) TDOA 423  
 TDOASAL (2) TDOA 423  
 TDOASCA (4) TDOA 423  
 TDOASCI (0) TDOA 423  
 TDOASFI (1) TDOA 423  
 TDOAVBB (A) TDOA 423  
 TDOAVRL (8) TDOA 423  
 TDOUS (13) TDCI 422  
 TDQUEUE\_PREFIX 8 DCT 75  
 TDRCLEN (BIT) DUTD 101  
 TDRCODE 101  
 TDRDF (10) TDCI 422  
 TDRDFLN (BIT) TDCI 422  
 TDRDOGRP (28) DCT 70  
 TDRDVERS (4) DUTD 101  
 TDREND (BIT) DUTD 101  
 TDRESRV (10) TDCI 421  
 TDRID (2) DUTD 101  
 TDRIDE (BIT) DUTD 101  
 TDRLEN 101  
 TDRMTBM (BIT) DCT 70  
 TDRSINGL (BIT) TDCI 422  
 TDRSSUPR (10) DUTD 101  
 TDRSTKN (C) DUTD 101  
 TDRTSUPR (18) DUTD 101  
 TDRTTKN (14) DUTD 101  
 TDRVERS (BIT) DUTD 101  
 TDSCHFAL (BIT) DCT 71  
 TDST 424  
 TDST\_ARROW (2) TDST 424  
 TDST\_BLOCK (8) TDST 424  
 TDST\_CLEAR\_INTRA\_QUEUES (BIT) TDST 425  
 TDST\_CLOSED\_FOR\_REC (BIT) TDST 424  
 TDST\_COLD\_IN\_PROGRESS (BIT) TDST 425  
 TDST\_CXRF\_P (7C) TDST 424  
 TDST\_DCT\_INST (BIT) TDST 425  
 TDST\_DCT1\_P (74) TDST 424  
 TDST\_DCTE\_INDIRECTS (CC) TDST 425  
 TDST\_DFH (3) TDST 424  
 TDST\_DIRECTORY\_TOKEN 425

TDST\_DOMID (6) TDST 424  
 TDST\_ECB (88) TDST 425  
 TDST\_ENTRIES (10) TDST 424  
 TDST\_ETOKENS (1C) TDST 424  
 TDST\_EXTRA\_DCTE\_STG\_SUBPOOL (34) TDST 424  
 TDST\_G24 (1C) TDST 424  
 TDST\_G31 (24) TDST 424  
 TDST\_GENBLKS (64) TDST 424  
 TDST\_INDIR\_DCTE\_STG\_SUBPOOL (44) TDST 424  
 TDST\_INTRA\_DCTE\_STG\_SUBPOOL (3C) TDST 424  
 TDST\_JOB (54) TDST 424  
 TDST\_LAST\_CLEAR\_TIME (BC) TDST 425  
 TDST\_LENGTH (0) TDST 424  
 TDST\_MBCA\_P (64) TDST 424  
 TDST\_MRCA\_P (68) TDST 424  
 TDST\_MWCB\_P (90) TDST 425  
 TDST\_NQ\_POOL\_TOKEN (B8) TDST 425  
 TDST\_POST (BIT) TDST 425  
 TDST\_PREFIX (0) TDST 424  
 TDST\_QR\_TCB (D0) TDST 425  
 TDST\_RECOVERY\_DATA 425  
 TDST\_REMOTE\_DCTE\_STG\_SUBPOOL (4C) TDST 424  
 TDST\_RESP 425  
 TDST\_RESP\_DISASTER (BIT) TDST 425  
 TDST\_RESP\_EXCEPTION (BIT) TDST 425  
 TDST\_RESP\_INVALID (BIT) TDST 425  
 TDST\_SDS (2C) TDST 424  
 TDST\_SDS1\_P (78) TDST 424  
 TDST\_SPEBLKS (74) TDST 424  
 TDST\_SRC 425  
 TDST\_STATUS 424  
 TDST\_TCA\_P (8C) TDST 425  
 TDST\_TD\_INIT 425  
 TDST\_TDANA (10) TDST 424  
 TDST\_TDBNA (14) TDST 424  
 TDST\_TDCUB\_STG\_SUBPOOL (A8) TDST 425  
 TDST\_TDQUB\_STG\_SUBPOOL (A0) TDST 425  
 TDST\_TDRM (18) TDST 424  
 TDST\_TDUA\_FIRST 425  
 TDST\_TDUA\_LAST (B4) TDST 425  
 TDST\_TDUA\_STG\_SUBPOOL (98) TDST 425  
 TDST\_WCB (5C) TDST 424  
 TDSTCOLD (BIT) TDST 424  
 TDSTEMER (BIT) TDST 424  
 TDSTFLG0 (84) TDST 424  
 TDSTFLG1 (85) TDST 424  
 TDSTFLG2 (86) TDST 425  
 TDSTFLG3 425  
 TDSTINOP (BIT) TDST 424  
 TDSTLREC (BIT) TDST 424  
 TDSTNDR (BIT) TDST 424  
 TDSTNTRA (BIT) TDST 424  
 TDSTOPIN (BIT) TDST 424  
 TDSTPREC (BIT) TDST 424  
 TDSTUSER (BIT) TDST 424  
 TDSTWARM (BIT) TDST 424  
 TDSTXTRA 424  
 TDSYSTEM (BIT) DCT 70  
 TDTBLOCK\_NAME 8 DUA 94  
 TDTDSFL0 70  
 TDTDSFL1 71  
 TDTDSFL2 (36) DCT 71  
 TDTDSFL3 (37) DCT 71  
 TDTIBM (BIT) DCT 70  
 TDTR\_SIZE\_DUA (4) DCR 68  
 TDTR\_SIZE\_GMAIN (0) DCR 68  
 TDTR\_SIZE\_INT (8) DCR 68  
 TDTR\_TYPE (C) DCR 68  
 TDTRIGRM (BIT) DCT 71  
 TDUE 426  
 TDUSFAIL (BIT) DCT 71  
 TEBUSY 1 TMRQ 440  
 TEMPBLK (114) SIP 290  
 TEMPBUF (10C) SIP 290  
 TEMPIN (118) SIP 290  
 TEMPCIZ (116) SIP 290  
 template  
 document handler template exitpgm interface, DHTX 77  
 web interface template manager, WBTL 514  
 temporary  
 temporary storage domain statistics, TSG 460  
 temporary storage EXEC parameter list, TSUE 462

temporary (continued)  
 temporary storage input/output area, TSIOA 461  
 temporary storage table, TST 461  
 TEP  
 TEP commarea mapper and descriptor, TEPCA 431  
 TEPCA 431  
 TEPCA ACT (E) TEPCA 431  
 TEPCADLN (BIT) TEPCA 431  
 TEPCAGDS (1) TEPCA 431  
 TEPCALDS (0) TEPCA 431  
 TEPCATCA 431  
 TEPCATDB (14) TEPCA 431  
 TEPCATID (F) TEPCA 431  
 TEPECIA (8) TEPCA 431  
 TEPECIL (C) TEPCA 431  
 terminal  
 EXEC terminal control, ETC 127  
 TCT terminal entry, TCTTE 370  
 terminal abnormal condition line entry, TACLE 333  
 terminal control table line entry, TCTLE 368  
 terminal control table prefix, TCTFX 359  
 terminal input/output area, TIOA 435  
 terminal partition extension, TPE 443  
 terminal statistics, A06 16  
 terminal type parameter, TTP 467  
 TERMINAL\_MAP\_OFFSET 2 APSTG 10  
 TERMOS (BIT) TEPCA 431  
 TEXTOFF (BIT) MGM 230  
 thread  
 file request thread element, FRTEC 170  
 TIE 432  
 TIE\_EYE (2) TIE 432  
 TIE\_EYE1 (2) TIE 432  
 TIE\_EYE2 (8) TIE 432  
 TIE\_LEN (0) TIE 432  
 TIE\_PREFIX (0) TIE 432  
 TIE62UOW (38) TIE 432  
 TIEADDLK (BIT) TIE 433  
 TIECEDFY (BIT) TIE 432  
 TIECHNA (10) TIE 432  
 TIEDAT31 (BIT) TIE 432  
 TIEEISFG 432  
 TIEENDA (80) TIE 433  
 TIEEPAD (2C) TIE 432  
 TIEEPBA (68) TIE 433  
 TIEEPN 432  
 TIEFLAG0 (70) TIE 433  
 TIEFLAG1 (71) TIE 433  
 TIEFLAG2 (72) TIE 433  
 TIEFLAG3 (73) TIE 433  
 TIEFLAGS (70) TIE 433  
 TIEFOOTP (6C) TIE 433  
 TIEFREE (78) TIE 433  
 TIEGAL 433  
 TIELTOK (64) TIE 433  
 TIELWA (80) TIE 433  
 TIELWAA (7C) TIE 433  
 TIEMAPPL 433  
 TIEMCTER 433  
 TIEMFEDF 433  
 TIEMSPI (BIT) TIE 433  
 TIEMSYNC 433  
 TIEMTASK 433  
 TIENOSEC (BIT) TIE 432  
 TIEPBTK (24) TIE 432  
 TIERCNT (28) TIE 432  
 TIEREADO (BIT) TIE 433  
 TIERECOV (30) TIE 432  
 TIERMQUA (5C) TIE 432  
 TIERNEC (BIT) TIE 433  
 TIERTKN (30) TIE 432  
 TIESEC 432  
 TIESECBK (1C) TIE 432  
 TIESECFG (20) TIE 432  
 TIESETHR (BIT) TIE 433  
 TIESETLI (BIT) TIE 433  
 TIESETTK (BIT) TIE 433  
 TIESINGU (BIT) TIE 433  
 TIESUPDR (BIT) TIE 433  
 TIESYNCP 433  
 TIETAL (76) TIE 433  
 TIETRABD (BIT) TIE 433  
 TIETRACE 432



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TIETRLV1 (BIT) TIE 432  
 TIETRLV2 (BIT) TIE 432  
 TIETRUPE (18) TIE 432  
 TIEUTCA (14) TIE 432  
 TIEVALID (BIT) TIE 432  
 time-of-day  
   XRF CAVM time-of-day clock difference, WSC 537  
 TIOA 435  
 TIOACLCR (B) TIOA 435  
 TIOADBA (C) TIOA 435  
 TIOALAC (B) TIOA 435  
 TIOASAA (0) TIOA 435  
 TIOASAL 435  
 TIOASCA (4) TIOA 435  
 TIOATDL (8) TIOA 435  
 TIOAWCI (A) TIOA 435  
 TKVFUNC (0) WST 543  
 TKVINST# 543  
 TKVJMTL (C) WST 544  
 TKVMSG (14) WST 544  
 TKVMSGL (10) WST 544  
 TKVPA (0) WST 543  
 TKVPALEN (BIT) WST 544  
 TKVVER 543  
 TLARGOPT (28) SPI 323  
 TLCUBITS (18) SPI 323  
 TLIGNOIW (BIT) SPI 323  
 TLKEYNUM (1A) SPI 323  
 TLLEN1 (4) SPI 323  
 TLLEN2 (C) SPI 323  
 TLMMSGOFF (BIT) SPI 323  
 TLPURRDD (BIT) SPI 323  
 TLPT1 (0) SPI 323  
 TLPT2 (8) SPI 323  
 TLPT3 (10) SPI 323  
 TLRDCICS (BIT) SPI 323  
 TLRDTMIG (BIT) SPI 323  
 TLS\_CONN\_NAME (11C) SPI 324  
 TLS\_POOL\_NAME (11C) SPI 324  
 TLSYSID (14) SPI 323  
 TLUPGUSG (BIT) SPI 323  
 TLUSRDEF (BIT) SPI 323  
 TMABORD (20) TMS 441  
 TMASKT (8) TMS 441  
 TMATTV (8) TMS 441  
 TMBITS (1C) TMS 441  
 TMCLHD 441  
 TMCLLAST (318) TMS 441  
 TMCOUNT (14) TMS 441  
 TMDL 436  
 TMDSG 437  
 TMELD 438  
 TMELKEND (BIT) TMELD 438  
 TMELKSIZ (BIT) TMELD 438  
 TMELKSTR (BIT) TMELD 438  
 TMELOCK1 (80) TMELD 438  
 TMELOCK2 (78) TMELD 438  
 TMELOCK3 (70) TMELD 438  
 TMELOCK4 (68) TMELD 438  
 TMELOCK5 (60) TMELD 438  
 TMELOCK6 (58) TMELD 438  
 TMELOCK7 (50) TMELD 438  
 TMELOCK8 (48) TMELD 438  
 TMELOCK9 (40) TMELD 438  
 TMELOCKA (38) TMELD 438  
 TMELOCKB (30) TMELD 438  
 TMELOCKC (28) TMELD 438  
 TMELOCKD (20) TMELD 438  
 TMELOCKE (18) TMELD 438  
 TMELOCKF (10) TMELD 438  
 TMELOCKG (8) TMELD 438  
 TMELOCKH (0) TMELD 438  
 TMELOCKI (BIT) TMELD 438  
 TMENQHL (308) TMS 441  
 TMENUMRL (4) TMELD 438  
 TMENUMSL (BIT) TMELD 438  
 TMGLCHPT (31C) TMS 441  
 TMGLCNT (324) TMS 441  
 TMGLLOCK (320) TMS 441  
 TMGLVALU (320) TMS 441  
 TMGRLESEG (31C) TMS 441  
 TMHSIZE 441  
 TMLOCK\_TOKEN (460) TMS 441  
 TMNDESG (C) TMS 441  
 TMNDX (60) SPI 324  
 TMQEQHD (30C) TMS 441  
 TMR61WT (440) MNT 239  
 TMR62ICH (1B4) MNT 237  
 TMR62IMC (1B0) MNT 237  
 TMR62OCH (1BC) MNT 237  
 TMR62OMC (1B8) MNT 237  
 TMR62WT (448) MNT 239  
 TMRABCDC (188) MNT 237  
 TMRABCD (184) MNT 237  
 TMRACMTH (96) MNT 237  
 TMRACMTH\_BGAM (BIT) MNT 237  
 TMRACMTH\_BSAM (BIT) MNT 237  
 TMRACMTH\_BTAM (BIT) MNT 237  
 TMRACMTH\_CONSOLE (BIT) MNT 237  
 TMRACMTH\_NOTAPPLIC (BIT) MNT 237  
 TMRACMTH\_TCAM (BIT) MNT 237  
 TMRACMTH\_TCAMSNA (BIT) MNT 237  
 TMRACMTH\_VTAM (BIT) MNT 237  
 TMRACTID (110) MNT 237  
 TMRACTNM (144) MNT 237  
 TMRATTT (1C) MNT 236  
 TMRBAADC (30C) MNT 238  
 TMRBAAPC (300) MNT 238  
 TMRBADAC (2EC) MNT 238  
 TMRBADIC (318) MNT 238  
 TMRBADPC (2E8) MNT 238  
 TMRBALKC (2E4) MNT 238  
 TMRBAPDC (308) MNT 238  
 TMRBARAC (2E0) MNT 238  
 TMRBAREC (314) MNT 238  
 TMRBARSC (2DC) MNT 238  
 TMRBATAC (31C) MNT 238  
 TMRBATCC (310) MNT 238  
 TMRBATEC (320) MNT 238  
 TMRBATPC (304) MNT 238  
 TMRBDCPC (2FC) MNT 238  
 TMRBEGIN 236  
 TMRBMIC (280) MNT 238  
 TMRBMMC (27C) MNT 238  
 TMRBMOC (284) MNT 238  
 TMRBMTC (288) MNT 238  
 TMRBRPAC (2F8) MNT 238  
 TMRBSPAC (2F4) MNT 238  
 TMRBTPAC (2F0) MNT 238  
 TMRBTRID (9C) MNT 237  
 TMRCDTWT (4B0) MNT 239  
 TMRCFAC (2B4) MNT 238  
 TMRCHMDC (368) MNT 239  
 TMRCHWMA (1E0) MNT 238  
 TMRCHWMB (1DC) MNT 238  
 TMRICIPAD (154) MNT 237  
 TMRCOCCA (1FC) MNT 238  
 TMRCOCCB (1F4) MNT 238  
 TMRCONWT (4F0) MNT 239  
 TMRCPUT (378) MNT 239  
 TMRDB2RC (364) MNT 239  
 TMRDB2WT (4F8) MNT 239  
 TMRDETT (24) MNT 236  
 TMRDHCR (340) MNT 239  
 TMRDHINC (344) MNT 239  
 TMRDHRTC (34C) MNT 239  
 TMRDHSTC (348) MNT 239  
 TMRDHTC (350) MNT 239  
 TMRDHTDL (354) MNT 239  
 TMRDIST (370) MNT 239  
 TMRDVTCD (97) MNT 237  
 TMRDWT (388) MNT 239  
 TMRHASH (BIT) TMS 441  
 TMRERROR (180) MNT 237  
 TMRXWT (3D8) MNT 239  
 TMRFCAC (24C) MNT 238  
 TMRFCAMC (258) MNT 238  
 TMRFCBC (248) MNT 238  
 TMRFCDC (250) MNT 238  
 TMRFCGC (240) MNT 238  
 TMRFCPC (244) MNT 238  
 TMRFCTC (254) MNT 238  
 TMRFCTY (88) MNT 236  
 TMRFCWT (3E8) MNT 239  
 TMRFDLY (418) MNT 239  
 TMRFDMXT (428) MNT 239



"Restricted Materials of IBM"  
 Licensed Materials – Property of IBM

TMRSZACT (2B8) MNT 238  
 TMRSZATO (2D0) MNT 238  
 TMRSZCIN (2CC) MNT 238  
 TMRSZCOT (2C8) MNT 238  
 TMRSZRCT (2BC) MNT 238  
 TMRSZRT0 (2D4) MNT 238  
 TMRSZSCT (2C0) MNT 238  
 TMRSZTCT (2C4) MNT 238  
 TMRSZTOT (2D8) MNT 238  
 TMRSZWT (450) MNT 239  
 TMRTAC (1C0) MNT 237  
 TMRTCBAC (36C) MNT 239  
 TMRTCH1C (194) MNT 237  
 TMRTCI2C (1A4) MNT 237  
 TMRTCLSN (34) MNT 236  
 TMRTCO1C (19C) MNT 237  
 TMRTCO2C (1AC) MNT 237  
 TMRTCWT (3E0) MNT 239  
 TMRTDGC (25C) MNT 238  
 TMRTDPC (260) MNT 238  
 TMRTDRC (264) MNT 238  
 TMRTDTC (268) MNT 238  
 TMRTDWT (408) MNT 239  
 TMRTECNM (98) MNT 237  
 TMRTEID (C) MNT 236  
 TMRTEINF (94) MNT 237  
 TMRTFFL2\_RUN\_TRAN (BIT) MNT 236  
 TMRTGPID (164) MNT 237  
 TMRTPRI (30) MNT 236  
 TMRTRFL1 (8C) MNT 236  
 TMRTRFL1\_BRDG (BIT) MNT 236  
 TMRTRFL1\_DEST (BIT) MNT 236  
 TMRTRFL1\_NONE (BIT) MNT 236  
 TMRTRFL1\_SURR (BIT) MNT 236  
 TMRTRFL1\_TERM (BIT) MNT 236  
 TMRTRFL2 (8D) MNT 236  
 TMRTRFL2\_BRIDGE (BIT) MNT 236  
 TMRTRFL2\_DPL (BIT) MNT 236  
 TMRTRFL2\_MIRROR (BIT) MNT 236  
 TMRTRFL2\_ONC\_RPC (BIT) MNT 236  
 TMRTRFL2\_SYSTEM (BIT) MNT 236  
 TMRTRFL2\_WEB (BIT) MNT 236  
 TMRTRFL3 (8E) MNT 236  
 TMRTRFL3\_NTFY (BIT) MNT 237  
 TMRTRFL3\_NTFY\_COMP (BIT) MNT 237  
 TMRTRFL3\_RPT (BIT) MNT 237  
 TMRTRFL4 (8F) MNT 237  
 TMRTRFL4\_CICS\_KEY (BIT) MNT 237  
 TMRTRFL4\_DYNAMIC (BIT) MNT 237  
 TMRTRFL4\_ISOLATE\_NO (BIT) MNT 237  
 TMRTRFL4\_LOC\_BELOW (BIT) MNT 237  
 TMRTRFL5 (90) MNT 237  
 TMRTRFL6 (91) MNT 237  
 TMRTRFL7 (92) MNT 237  
 TMRTRFL8 (93) MNT 237  
 TMRTRFL8\_COMMIT (BIT) MNT 237  
 TMRTRFL8\_INDBT\_FAIL (BIT) MNT 237  
 TMRTRFL8\_INDOUBT\_ACT (BIT) MNT 237  
 TMRTRFL8\_RO\_FAILURE (BIT) MNT 237  
 TMRTRFL8\_UOW\_SHUNT (BIT) MNT 237  
 TMRTRFL8\_UOW\_UNSHUNT (BIT) MNT 237  
 TMRTRFL8\_WAIT\_NO (BIT) MNT 237  
 TMRTRFLG (8C) MNT 236  
 TMRTRID (8) MNT 236  
 TMRTRSN (2C) MNT 236  
 TMRTRTY (18) MNT 236  
 TMRTSGC (26C) MNT 238  
 TMRTSHWT (4A8) MNT 239  
 TMRTSPAC (270) MNT 238  
 TMRTSPMC (274) MNT 238  
 TMRTSTC (278) MNT 238  
 TMRTSWT (3F8) MNT 239  
 TMRTYPE (18C) MNT 237  
 TMRULRC (10) TMRQ 439  
 TMRURID (A0) MNT 237  
 TMRUSHWA (1D8) MNT 238  
 TMRUSHWB (1D4) MNT 237  
 TMRUSID (10) MNT 236  
 TMRUTSOA (1EC) MNT 238  
 TMRUTSOB (1E4) MNT 238  
 TMRWBCIN (328) MNT 238  
 TMRWBCOT (330) MNT 238  
 TMRWBRCT (324) MNT 238

TMRWBRPR (338) MNT 238  
 TMRWBRPW (33C) MNT 238  
 TMRWBSC (32C) MNT 238  
 TMRWBTC (334) MNT 238  
 TMRWCEWT (490) MNT 239  
 TMRWTXWT (488) MNT 239  
 TMS 440  
 TMSKT 442  
 TMSTATIC (0) TMS 440  
 TMSTATLN (464) TMS 441  
 TMTRIGR (18) TMS 441  
 TMUSE (74) SPI 324  
 TOP\_NIBLIST (14) ZGRP 602  
 TOTAL\_MAPPINGS 2 APSTG 10  
 TPE 443  
 TPECPSET (3) TPE 443  
 TPECPST6 (3) TPE 443  
 TPEFLG1 (2) TPE 443  
 TPEFLG2 (13) TPE 443  
 TPELL (0) TPE 443  
 TPELPER (BIT) TPE 443  
 TPELPSET (B) TPE 443  
 TPEPSETS (3) TPE 443  
 TPESTART (0) TPE 443  
 TPETPSET 443  
 TPEVCHAR (BIT) TPE 443  
 TPID\_DUDM\_ENTER 2 DUA 95  
 TPID\_DUDM\_EXIT 2 DUA 95  
 TPID\_DUDM\_GMAIN\_DUA 2 DUA 95  
 TPID\_DUDM\_GMAIN\_DUA\_RET 2 DUA 95  
 TPID\_DUDM\_GMAIN\_SDT 2 DUA 95  
 TPID\_DUDM\_GMAIN\_SDT\_RET 2 DUA 95  
 TPID\_DUDM\_GMAIN\_STATS\_BUF 2 DUA 95  
 TPID\_DUDM\_GMAIN\_STATS\_BUF\_RET 2 DUA 95  
 TPID\_DUDM\_GMAIN\_TDT 2 DUA 95  
 TPID\_DUDM\_GMAIN\_TDT\_RET 2 DUA 95  
 TPID\_DUDM\_INVALID 2 DUA 95  
 TPID\_DUDM\_LOADFAIL 2 DUA 95  
 TPID\_DUDM\_RECOV 2 DUA 95  
 TPID\_DUDT\_ENTER 2 DUA 95  
 TPID\_DUDT\_EXIT 2 DUA 95  
 TPID\_DUDT\_INVAL\_DT\_FUNCTION 2 DUA 95  
 TPID\_DUDT\_INVAL\_FORMAT 2 DUA 95  
 TPID\_DUDT\_INVAL\_ST\_FUNCTION 2 DUA 95  
 TPID\_DUDT\_RECOV 2 DUA 95  
 TPID\_DUDU\_DUMP\_TABLE\_NOT\_INIT 2 DUA 95  
 TPID\_DUDU\_ENTER 2 DUA 95  
 TPID\_DUDU\_EXIT 2 DUA 95  
 TPID\_DUDU\_INVALID 2 DUA 95  
 TPID\_DUDU\_RECOV 2 DUA 95  
 TPID\_DUFT\_ENTER 2 DUA 97  
 TPID\_DUFT\_EXIT 2 DUA 97  
 TPID\_DUFT\_FT\_NOSTOR 2 DUA 97  
 TPID\_DUFT\_GMAIN\_FT 2 DUA 97  
 TPID\_DUFT\_GMAIN\_FT\_RET 2 DUA 97  
 TPID\_DUFT\_RECOV 2 DUA 97  
 TPID\_DUSR\_DFHDXMPX\_ADD\_FAILED 2 DUA 95  
 TPID\_DUSR\_ENTER 2 DUA 95  
 TPID\_DUSR\_EXIT 2 DUA 95  
 TPID\_DUSR\_RECOV 2 DUA 95  
 TPID\_DUTM\_BTT\_NOSTOR 2 DUA 96  
 TPID\_DUTM\_ENTER 2 DUA 95  
 TPID\_DUTM\_EXIT 2 DUA 95  
 TPID\_DUTM\_GMAIN\_BTT 2 DUA 96  
 TPID\_DUTM\_GMAIN\_BTT\_RET 2 DUA 96  
 TPID\_DUTM\_GMAIN\_SDT 2 DUA 96  
 TPID\_DUTM\_GMAIN\_SDT\_RET 2 DUA 96  
 TPID\_DUTM\_GMAIN\_TDT 2 DUA 96  
 TPID\_DUTM\_GMAIN\_TDT\_RET 2 DUA 96  
 TPID\_DUTM\_INVAL\_ENDBR\_BT 2 DUA 95  
 TPID\_DUTM\_INVAL\_FORMAT 2 DUA 95  
 TPID\_DUTM\_INVAL\_GETN\_BT 2 DUA 95  
 TPID\_DUTM\_INVAL\_ST\_FUNCTION 2 DUA 95  
 TPID\_DUTM\_INVAL\_TM\_FUNCTION 2 DUA 95  
 TPID\_DUTM\_INVALID\_ST\_TYPE 2 DUA 96  
 TPID\_DUTM\_RECOV 2 DUA 95  
 TPID\_DUTM\_SDT\_NOSTOR 2 DUA 96  
 TPID\_DUTM\_TDT\_NOSTOR 2 DUA 96  
 TQG 444  
 TQGACISZ (20) TQG 444  
 TQGACNAL (54) TQG 445  
 TQGACNIU (5C) TQG 445  
 TQGACNWT (58) TQG 445

TQGACTCI (68) TQG 445	TRA 447
TQGACTFT (38) TQG 444	TRA_ARROW (2) TRA 447
TQGACTGT (34) TQG 444	TRA_ATS_ECB (68) TRA 447
TQGACTIO (3C) TQG 444	TRA_ATS_REGSAVE (70) TRA 447
TQGACTPT (30) TQG 444	TRA_ATS_TCB (C8) TRA 448
TQGAMXAL (14) TQG 444	TRA_AUTOSW_CONTINUOUS 1 TRA 448
TQGAMXCI (28) TQG 444	TRA_AUTOSW_OFF 1 TRA 448
TQGAMXIU (C) TQG 444	TRA_AUTOSW_ONCE 1 TRA 448
TQGAMXWT (1C) TQG 444	TRA_AUTOSW_STATUS (54) TRA 447
TQGANBFA 444	TRA_AUX_BUF_PTR (30) TRA 447
TQGANCIS (24) TQG 444	TRA_AUX_DCB_DECB_OK (BIT) TRA 447
TQGANOSP (2C) TQG 444	TRA_AUX_DCB_LEN (38) TRA 447
TQGATNAL (10) TQG 444	TRA_AUX_DCB_PTR (34) TRA 447
TQGATNWT (18) TQG 444	TRA_AUX_DECB_LEN (40) TRA 447
TQGCLEN (BIT) TQG 445	TRA_AUX_DECB_PTR (3C) TRA 447
TQGDVERS (4) TQG 444	TRA_AUX_EOF (BIT) TRA 447
TQGEND (BIT) TQG 445	TRA_AUX_EXTENT (4C) TRA 447
TQGID (2) TQG 444	TRA_AUX_FIF (BIT) TRA 447
TQGIDE (BIT) TQG 444	TRA_AUX_INIT_STAT (56) TRA 447
TQGLN 444	TRA_AUX_IO_PENDING (BIT) TRA 447
TQGSCNAL (60) TQG 445	TRA_AUX_PAUSED 1 TRA 448
TQGSCNWT (64) TQG 445	TRA_AUX_STARTED 1 TRA 448
TQGSXAL (48) TQG 444	TRA_AUX_STARTING (BIT) TRA 447
TQGSXWT (50) TQG 445	TRA_AUX_STATUS (55) TRA 447
TQGSNSTA (40) TQG 444	TRA_AUX_STOPPED 1 TRA 448
TQGSTNAL (44) TQG 444	TRA_AUX_TERM_ECB_POST (BIT) TRA 448
TQGSTNWT (4C) TQG 444	TRA_AUX_TERM_ECB_WAIT (BIT) TRA 447
TQGVERS (BIT) TQG 444	TRA_AUX_TERMINATE_ECB (C4) TRA 447
TQR 445	TRA_AVAILABLE (BIT) TRA 447
TQRATNAN 445	TRA_AVLEN (1C) TRA 447
TQRCCIOUS (30) TQR 445	TRA_BLOCK_NAME (8) TRA 447
TQRCLN (BIT) TQR 446	TRA_DFH (3) TRA 447
TQRCNITM (38) TQR 445	TRA_DFHTRAO_PTR (2C) TRA 447
TQRDDNM 446	TRA_DFHTRAP_PTR 447
TQRDELET (18) TQR 445	TRA_DOMID (6) TRA 447
TQRDSNNM (54) TQR 446	TRA_ENDTAB_PTR (28) TRA 447
TQRDVERS (4) TQR 445	TRA_FREEMAIN_REQ (BIT) XCTRC 556
TQREND (BIT) TQR 446	TRA_FT_ERR_BEFORE (BIT) TRA 447
TQRFNAME (20) TQR 445	TRA_GTF_BUF_PTR (64) TRA 447
TQRFTNA (BIT) TQR 446	TRA_GTF_STARTED 0 TRA 448
TQRFTNTE (BIT) TQR 446	TRA_GTF_STATUS (BIT) TRA 447
TQRFTSYS (BIT) TQR 446	TRA_GTF_STOPPED 0 TRA 448
TQRFTTRM (BIT) TQR 446	TRA_INITIALISING (5A) TRA 447
TQRFTYPE (1F) TQR 445	TRA_INT_STARTED 0 TRA 448
TQRID (2) TQR 445	TRA_INT_STATUS (BIT) TRA 447
TQRIDE (BIT) TQR 445	TRA_INT_STOPPED 0 TRA 448
TQRIOIN (BIT) TQR 446	TRA_INTTAB_PTR (24) TRA 447
TQRIONA (BIT) TQR 446	TRA_INTTABSIZE (20) TRA 447
TQRIOOUT (BIT) TQR 446	TRA_LENGTH (0) TRA 447
TQRIOADB (BIT) TQR 446	TRA_LOCK_BLOCK (10) TRA 447
TQRIOOTYP (48) TQR 446	TRA_LOCK_TABLE (BIT) TRA 447
TQRIOID (44) TQR 446	TRA_MAIN_ECB (6C) TRA 447
TQRLEN 445	TRA_MASTER (BIT) TRA 447
TQRPCIOUS (34) TQR 445	TRA_NAB (18) TRA 447
TQRPDMSN (80) TQR 446	TRA_NAB_INFO (18) TRA 447
TQRQID 445	TRA_PA_IN_CONTROL (BIT) TRA 447
TQRQTEXT (BIT) TQR 446	TRA_PREFIX (0) TRA 447
TQRQTIND (BIT) TQR 446	TRA_RETAIN_AUX_DCB (BIT) TRA 447
TQRQTINT (BIT) TQR 446	TRA_SM_ISOLATION_TOKEN (CC) TRA 448
TQRQTREM (BIT) TQR 446	TRA_STATUS_FLAGS 447
TQRQTYPE (C) TQR 445	TRA_TERMINATING (59) TRA 447
TQRREAD (14) TQR 445	TRA_TIME_BASE (44) TRA 447
TQRRQID (40) TQR 446	TRA_TRAO_AUX_ABEND 1 TRA 448
TQRRSYS (3C) TQR 446	TRA_TRAO_AUX_IO_ERROR 1 TRA 448
TQRRTLGL (BIT) TQR 446	TRA_TRAO_BPTR 447
TQRRTNA (BIT) TQR 446	TRA_TRAO_CHECK 1 TRA 448
TQRRTNR (BIT) TQR 446	TRA_TRAO_CLOSE 1 TRA 448
TQRRTPH (BIT) TQR 446	TRA_TRAO_DCB_NOT_FOUND 1 TRA 448
TQRRTYPE (1E) TQR 445	TRA_TRAO_END_OF_EXTENT 1 TRA 448
TQRTRIGL (1C) TQR 445	TRA_TRAO_INVALID 1 TRA 448
TQRTRIGN (2C) TQR 445	TRA_TRAO_OK 1 TRA 448
TQRVERS (BIT) TQR 445	TRA_TRAO_OPEN 1 TRA 448
TQRWAIT (24) TQR 445	TRA_TRAO_OPEN_FAILED 1 TRA 448
TQRWAITA (25) TQR 445	TRA_TRAO_PARAMS (C0) TRA 447
TQRWANA (BIT) TQR 446	TRA_TRAO_RC (B9) TRA 447
TQRWAQUE (BIT) TQR 446	TRA_TRAO_REQ (B8) TRA 447
TQRWAREJ (BIT) TQR 446	TRA_TRAO_RLSE_REQD (BIT) TRA 447
TQRWRITE 445	TRA_TRAO_TERM 1 TRA 448
TQRWTNA (BIT) TQR 446	TRA_TRAO_WRITE 1 TRA 448
TQRWTNO (BIT) TQR 446	TRA_TRAP_ACTIVE (BIT) TRA 447
TQRWTYES (BIT) TQR 446	TRA_TRAP_DISABLED (BIT) TRA 447
TR_BLOCK_PTR (60) XCTRC 556	TRA_TRAP_INIT_STAT (BIT) TRA 447
TR_BLOCK_SIZE_TRAN_DU 2 TRFCA 457	TRA_TRAP_UNUSABLE (BIT) TRA 447

"Restricted Materials of IBM"  
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TRA\_TRAP\_WA\_PTR (60) TRA 447  
 trace  
   feature trace entry header, TRFTE 458  
   trace domain - common structures, TRA 447  
   trace domain - common structures, TRBL 450  
   trace entry, TREN 451  
   trace formatting control area, TRFCA 452  
   trace parameter list, TRAP 449  
   XRF trace control area, WTG 550  
   XRF trace interface, WTR 551  
 TRACE\_FLAGS (74) DUA 93  
 TRACE\_TABLE\_HEADER (0) DCR 67  
 tracking  
   XRF tracking queue organiser, ZXQOD 609  
   XRF tracking record header, ZXTR 610  
 TRACSAAD (24) TRAP 450  
 TRACURTA (4) TRAP 449  
 TRAD1A (C) TRAP 449  
 TRAD1L (10) TRAP 449  
 TRAD2A (14) TRAP 450  
 TRAD2L (18) TRAP 450  
 TRAD3A (1C) TRAP 450  
 TRAD3L (20) TRAP 450  
 TRAEND (30) TRAP 450  
 TRAFLGSA (0) TRAP 449  
 trandef  
   application domain trandef extension, APXDC 11  
 TRANS\_DUMP\_SUPP (C) DUGS 100  
 TRANS\_DUMP\_TAKEN 100  
 transaction  
   dump domain transaction dump statistics, DUTD 101  
   goodnight transaction parameter list, SNGS 320  
   TCT transaction work area, TCTWA 414  
   transaction abend control block, TACB 332  
   transaction dump record formats, DCR 66  
   transaction list table, XLT 565  
   transaction manager global stats, XMGDS 566  
   transaction manager static storage, KCS 195  
   transaction manager TCLASS stats, XMCDS 565  
   transaction manager transaction stats, XMRDS 567  
   transaction monitoring data, MNT 236  
   transaction restart program commarea, XMRSC 568  
 transformed  
   transformed MRO function, XFIOA 561  
 transformer  
   file control transformer table entries, FCENT 134  
 transient  
   transient data buffer control, MBCA 222  
   transient data control intervals, TDCI 421  
   transient data EXEC parameter list, TDUE 426  
   transient data global statistics, TQG 444  
   transient data input area, TDIA 422  
   transient data output area, TDOA 423  
   transient data static storage, TDST 424  
   transient data statistics, TQR 445  
   transient data VSAM control, MRC 240  
   transient data wait control, MWCB 242  
 TRAP 449  
   global trap working storage, TRGTW 459  
 TRAP\_ABCICS 459  
 TRAP\_DISABLE (BIT) TRGTW 459  
 TRAP\_DISABLE (BIT) XCTRC 558  
 TRAP\_DUMP (BIT) TRGTW 459  
 TRAP\_DUMP (BIT) XCTRC 558  
 TRAP\_FLAGS (78) TRGTW 459  
 TRAP\_FLAGS (88) XCTRC 558  
 TRAP\_IN\_CONTROL (BIT) XCTRC 557  
 TRAP\_PLIST (48) TRGTW 459  
 TRAP\_PLIST (48) XCTRC 558  
 TRAP\_REGSAVE (0) TRGTW 459  
 TRAP\_REGSAVE (0) XCTRC 558  
 TRAP\_SKIP\_GTF (BIT) XCTRC 558  
 TRAP\_TR\_DU\_PLIST (8C) XCTRC 558  
 TRAP\_TR\_DU\_RSA (322) XCTRC 558  
 TRAP\_TR\_DU\_WS (10C) XCTRC 558  
 TRAP\_TRACE (BIT) TRGTW 459  
 TRAP\_TRACE (BIT) XCTRC 558  
 TRAP\_TRPLIST 459  
 TRAP\_WA (0) XCTRC 558  
 TRAP\_WA\_FREEMAIN\_REQ (BIT) XCTRC 556  
 TRAP\_WORK (370) XCTRC 558  
 TRAP\_WORK (E8) TRGTW 459  
 TRAP\_WORK\_EYEC (370) XCTRC 558  
 TRAP\_WORK\_EYEC (E8) TRGTW 459  
 TRAP\_WORKAREA (380) XCTRC 558  
 TRAP\_WORKAREA (F8) TRGTW 459  
 TRARSAAD (2C) TRAP 450  
 TRATCAAD (28) TRAP 450  
 TRATRDAT (C) TRAP 449  
 TRAWORKA (8) TRAP 449  
   TRBL 450  
 TRBL\_BWD (4) TRBL 450  
 TRBL\_DATA (18) TRBL 450  
 TRBL\_EOF (BIT) TRBL 450  
 TRBL\_FIF (BIT) TRBL 450  
 TRBL\_FLAGS 450  
 TRBL\_FWD (0) TRBL 450  
 TRBL\_HEADER (0) TRBL 450  
 TRBL\_TIME\_BASE 450  
 TRBLOCK\_DATALIM 2 TRBL 450  
 TRBLOCK\_SIZE 2 TRBL 450  
 TRCURSTA (2C) SPI 324  
 TREN 451  
 TREN\_CALLER (4) TREN 451  
 TREN\_DATA (28) TREN 451  
 TREN\_FIELD\_DATA (2A) TREN 451  
 TREN\_FIELD\_LEN (28) TREN 451  
 TREN\_HEADER (0) TREN 451  
 TREN\_HEADER\_LENGTH (10) TREN 451  
 TREN\_KE\_NUM (C) TREN 451  
 TREN\_LEN (2) TREN 451  
 TREN\_MARKER (0) TREN 451  
 TREN\_OWNING\_DOM (E) TREN 451  
 TREN\_POINTID (6) TREN 451  
 TREN\_RETADDR (1C) TREN 451  
 TREN\_TASK (9) TREN 451  
 TREN\_TCB\_ID (12) TREN 451  
 TREN\_TCBADDR 451  
 TREN\_TIME (20) TREN 451  
 TREN\_TYPE (8) TREN 451  
 TREN\_TYPE\_DB2\_SUBTASK 1 TREN 452  
 TREN\_TYPE\_DBCTL\_RESUME\_EXIT 1 TREN 452  
 TREN\_TYPE\_EXCI 1 TREN 452  
 TREN\_TYPE\_LERAD\_SYNAD 1 TREN 452  
 TREN\_TYPE\_LERADSYNAD\_HPO 1 TREN 452  
 TREN\_TYPE\_MONITORING 1 TREN 452  
 TREN\_TYPE\_NORMAL 1 TREN 452  
 TREN\_TYPE\_R330 1 TREN 452  
 TREN\_TYPE\_R410 1 TREN 452  
 TREN\_TYPE\_R510 1 TREN 452  
 TREN\_TYPE\_R520 1 TREN 452  
 TREN\_TYPE\_R530 1 TREN 452  
 TREN\_TYPE\_RLS\_QUIESCE\_EXIT 1 TREN 452  
 TREN\_TYPE\_RRMS\_EXIT 1 TREN 452  
 TREN\_TYPE\_RRS\_CALL 1 TREN 452  
 TREN\_TYPE\_SDUMP\_EXIT 1 TREN 452  
 TREN\_TYPE\_TP\_END 1 TREN 452  
 TREN\_TYPE\_VTAM\_EXIT 1 TREN 452  
 TREN\_TYPE\_VTAM\_EXIT\_HPO 1 TREN 452  
 TRF\_BPL 2 TRFCA 457  
 TRF\_NUM\_FIELDS 2 TRFCA 457  
 TRFCA 452  
 TRFCA\_ABBREV\_DO (BIT) TRFCA 454  
 TRFCA\_ABBREV\_TRACE (BIT) TRFCA 454  
 TRFCA\_ABDPL\_PTR (B0) TRFCA 453  
 TRFCA\_APPLID (968) TRFCA 454  
 TRFCA\_AUX\_TRACE (BIT) TRFCA 454  
 TRFCA\_BLOCK\_AVLEN (48) TRFCA 452  
 TRFCA\_BUFF\_PTR (18) TRFCA 452  
 TRFCA\_CDED\_TOKEN (C4) TRFCA 453  
 TRFCA\_CURRBL\_PTR (44) TRFCA 452  
 TRFCA\_CURREN\_PTR (4C) TRFCA 452  
 TRFCA\_DATE (960) TRFCA 454  
 TRFCA\_DUFSTG\_PTR 453  
 TRFCA\_ENTRY\_COUNT (8) TRFCA 452  
 TRFCA\_ENTRYNUM\_PTR (3C) TRFCA 452  
 TRFCA\_EXCEPTION (BIT) TRFCA 454  
 TRFCA\_EXTRA\_LINE (BIT) TRFCA 454  
 TRFCA\_FORMATTER\_R330 (6EC) TRFCA 454  
 TRFCA\_FORMATTER\_R410 (6E8) TRFCA 454  
 TRFCA\_FORMATTER\_R510 (6E4) TRFCA 454  
 TRFCA\_FORMATTER\_R520 (6E0) TRFCA 454  
 TRFCA\_FORMATTER\_R530 454  
 TRFCA\_FREE\_BUFFER 454  
 TRFCA\_FULL\_ABBREV (BIT) TRFCA 454  
 TRFCA\_FULL\_DO (BIT) TRFCA 454

TRFCA_FULL_TRACE (BIT) TRFCA	454
TRFCA_GTF_TRACE (BIT) TRFCA	454
TRFCA_IA (D0) TRFCA	453
TRFCA_IA_LEN_LEFT (CC) TRFCA	453
TRFCA_IA_NAB (C8) TRFCA	453
TRFCA_INT_OVERFLOW	454
TRFCA_INTERVAL_PTR (6D8) TRFCA	454
TRFCA_JOB_LINE_PTR	454
TRFCA_KENUM_PTR (38) TRFCA	452
TRFCA_LAST_BLOCK (BIT) TRFCA	454
TRFCA_LAST_TIME (58) TRFCA	452
TRFCA_LEN_REM (8E8) TRFCA	454
TRFCA_LINE_COUNT (BC) TRFCA	453
TRFCA_NEXT_BYTE (7F8) TRFCA	454
TRFCA_NOT_SELECTED (BIT) TRFCA	452
TRFCA_PAGE_COUNT (B8) TRFCA	453
TRFCA_PAGE_SIZE (C0) TRFCA	453
TRFCA_PARM_ERR (BIT) TRFCA	452
TRFCA_PARM_LEN (14) TRFCA	452
TRFCA_PARM_PTR (10) TRFCA	452
TRFCA_PBUF_PTR (4) TRFCA	452
TRFCA_PDX_TRACE (6D1) TRFCA	454
TRFCA_PL_PTR (0) TRFCA	452
TRFCA_PRDCB_PTR (B4) TRFCA	453
TRFCA_PRINT_COUNT (C) TRFCA	452
TRFCA_R330_LOAD_FAIL (BIT) TRFCA	454
TRFCA_R410_LOAD_FAIL (BIT) TRFCA	454
TRFCA_R510_LOAD_FAIL (BIT) TRFCA	454
TRFCA_R520_LOAD_FAIL	454
TRFCA_RECORD_BUFFER	454
TRFCA_SEL_ACTIVE (BIT) TRFCA	452
TRFCA_SEL_PRINT_FLAGS (1C) TRFCA	452
TRFCA_SELECT_ALL (BIT) TRFCA	454
TRFCA_SHORT_DO (BIT) TRFCA	454
TRFCA_SHORT_TRACE (BIT) TRFCA	454
TRFCA_SPACE	453
TRFCA_TASKLIST_PTR (34) TRFCA	452
TRFCA_TCBADLST_PTR (A8) TRFCA	453
TRFCA_TCBIDLST_PTR	453
TRFCA_TERMLIST_PTR	452
TRFCA_TERMTASK_PTR (24) TRFCA	452
TRFCA_TIME_BASE (50) TRFCA	452
TRFCA_TIMELIST_PTR (30) TRFCA	452
TRFCA_TRACE_CALLER (60) TRFCA	452
TRFCA_TRACE_DONE_ALREADY (6D2) TRFCA	454
TRFCA_TRANLIST_PTR (28) TRFCA	452
TRFCA_TRANTASK_PTR (2C) TRFCA	452
TRFCA_TRFPP_INIT (BIT) TRFCA	452
TRFCA_TRIP (4D0) TRFCA	453
TRFCA_TT510_LOAD_FAILED	452
TRFCA_TT520_LOAD_FAILED (BIT) TRFCA	453
TRFCA_TT530_LOAD_FAILED (BIT) TRFCA	453
TRFCA_TT530_PTR	453
TRFCA_TYPTTR_PTR (40) TRFCA	452
TRFCA_UPPERCASE_REQ (BIT) TRFCA	454
TRFPPWA (0) TRFCA	455
TRFTE	458
TRFTE (0) TRFCA	456
TRFTE (0) TRFTE	458
TRFTE_ABBREV_NAME (52) TRFCA	456
TRFTE_ABBREV_NAME (52) TRFTE	458
TRFTE_COMPANY_NAME	456, 458
TRFTE_EXCEPTION_TRACE (BIT) TRFCA	456
TRFTE_EXCEPTION_TRACE (BIT) TRFTE	458
TRFTE_FEATURE_LEVEL (40) TRFCA	456
TRFTE_FEATURE_LEVEL (40) TRFTE	458
TRFTE_FEATURE_NAME (22) TRFCA	456
TRFTE_FEATURE_NAME (22) TRFTE	458
TRFTE_FLAGS (5B) TRFCA	456
TRFTE_FLAGS (5B) TRFTE	458
TRFTE_FORMATTING_ROUTINE (4A) TRFCA	456
TRFTE_FORMATTING_ROUTINE (4A) TRFTE	458
TRFTE_HEADER (2) TRFCA	456
TRFTE_HEADER (2) TRFTE	458
TRFTE_HEADER_LEN (0) TRFCA	456
TRFTE_HEADER_LEN (0) TRFTE	458
TRFTE_VERSION (2) TRFCA	456
TRFTE_VERSION (2) TRFTE	458
TRFTW (0) TRFCA	456
TRFTW (0) TRFTE	458
TRFTW_CDPFTAB_ADDRESS (58) TRFCA	457
TRFTW_CDPFTAB_ADDRESS (58) TRFTE	459
TRFTW_CDPFTAB_ADDRESS (5C8) TRFCA	453
TRFTW_CDPFTAB_ADDRESS (F8) TRFCA	455
TRFTW_DATA 1 TRFCA	457
TRFTW_DATA 1 TRFTE	459
TRFTW_DFHTRIB_ADDRESS (54) TRFCA	457
TRFTW_DFHTRIB_ADDRESS (54) TRFTE	459
TRFTW_DFHTRIB_ADDRESS (5C4) TRFCA	453
TRFTW_DFHTRIB_ADDRESS (F4) TRFCA	455
TRFTW_ENTRY 1 TRFCA	457
TRFTW_ENTRY 1 TRFTE	459
TRFTW_EVENT 1 TRFCA	457
TRFTW_EVENT 1 TRFTE	459
TRFTW_EXCEPTION 1 TRFCA	457
TRFTW_EXCEPTION 1 TRFTE	459
TRFTW_EXIT 1 TRFCA	457
TRFTW_EXIT 1 TRFTE	459
TRFTW_FEATURE_ABEND (BIT) TRFCA	453, 455, 456
TRFTW_FEATURE_ABEND (BIT) TRFTE	458
TRFTW_FLAGS (4D) TRFCA	456
TRFTW_FLAGS (4D) TRFTE	458
TRFTW_FLAGS (5BD) TRFCA	453
TRFTW_FLAGS (ED) TRFCA	455
TRFTW_FORMATTING_ADDRESS (0) TRFCA	456
TRFTW_FORMATTING_ADDRESS (0) TRFTE	458
TRFTW_FORMATTING_ADDRESS (570) TRFCA	453
TRFTW_FORMATTING_ADDRESS (A0) TRFCA	455
TRFTW_FORMATTING_NAME (18) TRFCA	456
TRFTW_FORMATTING_NAME (18) TRFTE	458
TRFTW_FORMATTING_NAME (588) TRFCA	453
TRFTW_FORMATTING_NAME (B8) TRFCA	455
TRFTW_INT_OVERFLOW (BIT) TRFCA	453, 455, 456
TRFTW_INT_OVERFLOW (BIT) TRFTE	458
TRFTW_INTERPRETATION (BIT) TRFCA	453, 455, 456
TRFTW_INTERPRETATION (BIT) TRFTE	458
TRFTW_LEN_LEFT	453, 455, 456, 459
TRFTW_LOAD_FAILED (BIT) TRFCA	453, 455, 456
TRFTW_LOAD_FAILED (BIT) TRFTE	458
TRFTW_MODULE_NAME (5C) TRFCA	457
TRFTW_MODULE_NAME (5C) TRFTE	459
TRFTW_MODULE_NAME (5CC) TRFCA	454
TRFTW_MODULE_NAME (FC) TRFCA	455
TRFTW_NAB (50) TRFCA	456
TRFTW_NAB (50) TRFTE	459
TRFTW_NAB (5C0) TRFCA	453
TRFTW_NAB (F0) TRFCA	455
TRFTW_NO_NAME (BIT) TRFCA	453, 455, 456
TRFTW_NO_NAME (BIT) TRFTE	458
TRFTW_RC_OK 1 TRFCA	457
TRFTW_RC_OK 1 TRFTE	459
TRFTW_RC_OVERFLOW 1 TRFCA	457
TRFTW_RC_OVERFLOW 1 TRFTE	459
TRFTW_RUB 1 TRFCA	457
TRFTW_RUB 1 TRFTE	459
TRFTW_TRACE_TYPE (4C) TRFCA	456
TRFTW_TRACE_TYPE (4C) TRFTE	458
TRFTW_TRACE_TYPE (5BC) TRFCA	453
TRFTW_TRACE_TYPE (EC) TRFCA	455
TRFTW_WIPE_AREA	453, 455, 456, 458
TRGTW	459
TRI_ASCII 1 TRFCA	457
TRI_BIN 1 TRFCA	457
TRI_CDPLIST 1 TRFCA	457
TRI_CHAR 1 TRFCA	457
TRI_DEC 1 TRFCA	457
TRI_HEX 1 TRFCA	457
TRI_IN 1 TRFCA	457
TRI_NO 1 TRFCA	457
TRI_OUT 1 TRFCA	457
TRI_YES 1 TRFCA	457
TRIP_CICS_WORKAREA (0) TRFCA	455
TRIP_CICS_WORKAREA (4D0) TRFCA	453
TRIP_DATA_N (554) TRFCA	453
TRIP_DATA_N (84) TRFCA	455
TRIP_DATA_P (550) TRFCA	453
TRIP_DATA_P (80) TRFCA	455
TRIP_DATA_TYPE (556) TRFCA	453
TRIP_DATA_TYPE (86) TRFCA	455
TRIP_FCA_PTR (0) TRFCA	455
TRIP_FCA_PTR (4D0) TRFCA	453
TRIP_FIELD_N	453, 455
TRIP_FIELD_P (4D8) TRFCA	453
TRIP_FIELD_P (8) TRFCA	455
TRIP_FIELD_T	453, 455
TRIP_FT_TYPE (559) TRFCA	453

“Restricted Materials of IBM”  
 Licensed Materials – Property of IBM

TRIP\_FT\_TYPE (89) TRFCA 455  
 TRIP\_FT\_WORK (570) TRFCA 453  
 TRIP\_FT\_WORK (A0) TRFCA 455  
 TRIP\_FT\_WORKAREA (570) TRFCA 453  
 TRIP\_FT\_WORKAREA (A0) TRFCA 455  
 TRIP\_PLIST\_TYPE (557) TRFCA 453  
 TRIP\_PLIST\_TYPE (87) TRFCA 455  
 TRIP\_POINTID (4) TRFCA 455  
 TRIP\_POINTID (4D4) TRFCA 453  
 TRIP\_POINTID\_BYTE1 (4) TRFCA 455  
 TRIP\_POINTID\_BYTE1 (4D4) TRFCA 453  
 TRIP\_POINTID\_BYTE2 (4D5) TRFCA 453  
 TRIP\_POINTID\_BYTE2 (5) TRFCA 455  
 TRIP\_SPACE (558) TRFCA 453  
 TRIP\_SPACE (88) TRFCA 455  
 TRIP\_TRIB\_PLIST 453, 455  
 TRREASON (34) SPI 324  
 TRRESP (30) SPI 324  
 TRSTATUS 324  
 TRXDF\_ENTRY 2 DUA 96  
 TRXDF\_EXIT 2 DUA 96  
 TRXDF\_RECOVERY 2 DUA 96  
 ts  
   shared ts queue server buffer statistics, XQS2D 570  
   shared ts queue server cf statistics, XQS1D 569  
   shared ts queue server storage statistics, XQS3D 571  
 TS\_ADDR\_LIST (0) TSUE 464  
 TS\_ADDR0 (0) TSUE 464  
 TS\_ADDR1 (4) TSUE 464  
 TS\_ADDR2 (8) TSUE 464  
 TS\_ADDR3 (C) TSUE 464  
 TS\_ADDR4 (10) TSUE 464  
 TS\_ADDR5 (14) TSUE 464  
 TS\_ADDR7 464  
 TS\_BITS1 (2) TSUE 464  
 TS\_DATA1 (0) TSUE 465  
 TS\_DATA1X (0) TSUE 465  
 TS\_DATA2 (0) TSUE 465  
 TS\_DATA3 (0) TSUE 466  
 TS\_DATA4 (0) TSUE 466  
 TS\_DATA5 (0) TSUE 466  
 TS\_DATA7 (0) TSUE 466  
 TS\_DELETEQ 1 TSUE 466  
 TS\_DELETEQ\_QNAME (0) TSUE 465  
 TS\_DELETEQ\_QUEUE (0) TSUE 465  
 TS\_DELETEQ\_QUEUE\_V (BIT) TSUE 464  
 TS\_DELETEQ\_SYSID (0) TSUE 466  
 TS\_DELETEQ\_SYSID\_V (BIT) TSUE 465  
 TS\_EID (0) TSUE 464  
 TS\_EIDOPT5 (5) TSUE 465  
 TS\_EIDOPT6 (6) TSUE 465  
 TS\_EIDOPT7 465  
 TS\_EIDOPT8 465  
 TS\_EXIST1 (BIT) TSUE 464  
 TS\_EXIST2 (BIT) TSUE 464  
 TS\_EXIST3 (BIT) TSUE 464  
 TS\_EXIST4 (BIT) TSUE 464  
 TS\_EXIST5 (BIT) TSUE 465  
 TS\_EXIST7 465  
 TS\_FUNCT (1) TSUE 464  
 TS\_GROUP (0) TSUE 464  
 TS\_INVREQ\_EIBRCODE 1 TSUE 466  
 TS\_INVREQ\_EIBRESP 1 TSUE 466  
 TS\_IOERR\_EIBRCODE 1 TSUE 466  
 TS\_IOERR\_EIBRESP 1 TSUE 466  
 TS\_ISCINVREQ\_EIBRCODE 1 TSUE 466  
 TS\_ISCINVREQ\_EIBRESP 1 TSUE 466  
 TS\_ITEM (0) TSUE 466  
 TS\_ITEMERR\_EIBRCODE 1 TSUE 466  
 TS\_ITEMERR\_EIBRESP 1 TSUE 466  
 TS\_LENGERR\_EIBRCODE 1 TSUE 466  
 TS\_LENGERR\_EIBRESP 1 TSUE 466  
 TS\_LENGTH (0) TSUE 466  
 TS\_LENGTH\_V (BIT) TSUE 464  
 TS\_LOCKED\_EIBRCODE 1 TSUE 466  
 TS\_LOCKED\_EIBRESP 1 TSUE 466  
 TS\_LOCKED\_EIBRESP2 1 TSUE 466  
 TS\_NOSPACE\_EIBRCODE 1 TSUE 466  
 TS\_NOSPACE\_EIBRESP 1 TSUE 466  
 TS\_NOTAUTH\_EIBRCODE 1 TSUE 466  
 TS\_NOTAUTH\_EIBRESP 1 TSUE 466  
 TS\_NOTAUTH\_EIBRESP2 1 TSUE 466  
 TS\_OK\_EIBRCODE 1 TSUE 466  
 TS\_OK\_EIBRESP 1 TSUE 466  
 TS\_OK\_EIBRESP2 1 TSUE 466  
 TS\_QIDERR\_EIBRCODE 1 TSUE 466  
 TS\_QIDERR\_EIBRESP 1 TSUE 466  
 TS\_QNAME (0) TSUE 465  
 TS\_QNAME\_X (BIT) TSUE 465  
 TS\_QUEUE (0) TSUE 465  
 TS\_QUEUE\_V (BIT) TSUE 464  
 TS\_READQ 1 TSUE 466  
 TS\_READQ\_INT0 (0) TSUE 465  
 TS\_READQ\_ITEM (0) TSUE 466  
 TS\_READQ\_ITEM\_V (BIT) TSUE 465  
 TS\_READQ\_ITEM\_X (BIT) TSUE 465  
 TS\_READQ\_LENGTH (0) TSUE 466  
 TS\_READQ\_LENGTH\_V (BIT) TSUE 464  
 TS\_READQ\_NUMITEMS (0) TSUE 466  
 TS\_READQ\_NUMITEMS\_V (BIT) TSUE 465  
 TS\_READQ\_NUMITEMS\_X (BIT) TSUE 465  
 TS\_READQ\_QNAME (0) TSUE 465  
 TS\_READQ\_QUEUE (0) TSUE 465  
 TS\_READQ\_QUEUE\_V (BIT) TSUE 464  
 TS\_READQ\_SET (0) TSUE 465  
 TS\_READQ\_SET\_INT0\_V (BIT) TSUE 464  
 TS\_READQ\_SET\_X 465  
 TS\_READQ\_SYSID (0) TSUE 466  
 TS\_READQ\_SYSID\_V (BIT) TSUE 465  
 TS\_SYSID (0) TSUE 466  
 TS\_SYSID\_V (BIT) TSUE 465  
 TS\_SYSIDERR\_EIBRCODE 1 TSUE 466  
 TS\_SYSIDERR\_EIBRESP 1 TSUE 466  
 TS\_TEMPSTOR\_GROUP 1 TSUE 466  
 TS\_WRITEQ 1 TSUE 466  
 TS\_WRITEQ\_FROM (0) TSUE 465  
 TS\_WRITEQ\_FROM\_V (BIT) TSUE 464  
 TS\_WRITEQ\_ITEM (0) TSUE 466  
 TS\_WRITEQ\_ITEM\_NUMITEMS\_V (BIT) TSUE 465  
 TS\_WRITEQ\_ITEM\_X 465  
 TS\_WRITEQ\_LENGTH (0) TSUE 466  
 TS\_WRITEQ\_LENGTH\_V (BIT) TSUE 464  
 TS\_WRITEQ\_MAIN\_X 465  
 TS\_WRITEQ\_NOSUSPEND\_X 465  
 TS\_WRITEQ\_NUMITEMS (0) TSUE 466  
 TS\_WRITEQ\_QNAME (0) TSUE 465  
 TS\_WRITEQ\_QUEUE (0) TSUE 465  
 TS\_WRITEQ\_QUEUE\_V (BIT) TSUE 464  
 TS\_WRITEQ\_REWRITE\_X 465  
 TS\_WRITEQ\_SYSID (0) TSUE 466  
 TS\_WRITEQ\_SYSID\_V (BIT) TSUE 465  
 TSG 460  
 TSGBPSEG (98) TSG 460  
 TSGBUWT (84) TSG 460  
 TSGBUWTH (4C) TSG 460  
 TSGBWTN 460  
 TSGCLEN (BIT) TSG 460  
 TSGCSA 460  
 TSGDVERS (4) TSG 460  
 TSGEND (BIT) TSG 460  
 TSGID (2) TSG 460  
 TSGIDE (BIT) TSG 460  
 TSGLAR (8C) TSG 460  
 TSGLEN 460  
 TSGNAG (18) TSG 460  
 TSGNAVB (90) TSG 460  
 TSGNBCA (44) TSG 460  
 TSGNCI (38) TSG 460  
 TSGNCIA (7C) TSG 460  
 TSGNCIAH (3C) TSG 460  
 TSGNMG (C) TSG 460  
 TSGNVCA (60) TSG 460  
 TSGNVCAH 460  
 TSGQINH (20) TSG 460  
 TSGQNUM (88) TSG 460  
 TSGQNUMH (1C) TSG 460  
 TSGSHPCN (A0) TSG 460  
 TSGSHPDF (9C) TSG 460  
 TSGSHRDS (A4) TSG 460  
 TSGSHWTS (A8) TSG 460  
 TSGSPCI (94) TSG 460  
 TSGSTA3F (28) TSG 460  
 TSGSTA5F 460  
 TSGSTA6A (74) TSG 460  
 TSGSTA6F (10) TSG 460  
 TSGSTA7F (14) TSG 460

TSGSTA8F	(40)	TSG	460	TTPEASA	(BIT)	TTP	468
TSGSTA9F	(78)	TSG	460	TTPEAU	(BIT)	TTP	468
TSGSTA9F	(78)	TSG	460	TTPEAUS2	(40)	TTP	467
TSGSTA9F	(78)	TSG	460	TTPEAUS3	(41)	TTP	467
TSGSTABF	(34)	TSG	460	TTPEAUSE	(3F)	TTP	467
TSGTRDN	(58)	TSG	460	TTPEAUSF	(3F)	TTP	467
TSGTWTN	(50)	TSG	460	TTPEAVA2	(3D)	TTP	467
TSGTWTNF	(5C)	TSG	460	TTPEAVA3	(3E)	TTP	467
TSGTWTNR	(54)	TSG	460	TTPEAVAF	(3C)	TTP	467
TSGVERS	(BIT)	TSG	460	TTPEAVAL	(3C)	TTP	467
TSGVUWT	(80)	TSG	460	TTPEAVLD	(BIT)	TTP	468
TSGVUWTH	(6C)	TSG	460	TTPERAS	(BIT)	TTP	468
TSGVWTN	(68)	TSG	460	TTPEXTDS	(BIT)	TTP	467
TSIOA	461			TTPFA	(6E)	TTP	468
TSIOACAD	461			TTPFF	(BIT)	TTP	469
TSIOADBA	(BIT)	TSIOA	461	TTPFMHYS	(BIT)	TTP	468
TSIOASAL	461			TTPFPCNT	(69)	TTP	468
TSIOASCA	(4)	TSIOA	461	TTPHDRJP	(BIT)	TTP	468
TSIOAVRL	(8)	TSIOA	461	TTPHL	(71)	TTP	469
TST	461			TTPIND01	(60)	TTP	468
TSTADDRE	(4)	TST	461	TTPIND02	(61)	TTP	468
TSTADDRM	(8)	TST	461	TTPIND03	(62)	TTP	468
TSTADDSE	(C)	TST	461	TTPIND04	(6B)	TTP	468
TSTADDSH	461			TTPIND05	469		
TSTDTAGE	(0)	TST	461	TTPIND06	(6A)	TTP	468
TSTFL	(2)	TST	461	TTPJF	(BIT)	TTP	468
TSTHDX	(10)	TST	461	TTPJL	(BIT)	TTP	468
TSTHDXBM	(BIT)	TST	462	TTPKA	(BIT)	TTP	469
TSTHDXFL	(12)	TST	461	TTPLDCCD	(10)	TTP	469
TSTHDXLN	(10)	TST	461	TTPLDCCF	(BIT)	TTP	468
TSTLL	(0)	TST	461	TTPLDCMN	(12)	TTP	467
TSTLSTBM	(BIT)	TST	462	TTPLDCTT	(14)	TTP	467
TSTMIGBM	(BIT)	TST	462	TTPLDMMN	(11)	TTP	469
TSTPL	(5)	TST	462	TTPLEN	(AC)	TTP	469
TSTPOOL	(6)	TST	462	TTPLENSE	(BIT)	TTP	469
TSTPRFX	(6)	TST	462	TTPLINES	(5C)	TTP	468
TSTRCVBM	(BIT)	TST	461	TTPMAP1	(BIT)	TTP	468
TSTRMTBM	(BIT)	TST	461	TTPMAPA	(30)	TTP	467
TSTRNMBM	(BIT)	TST	462	TTPMAPIP	(BIT)	TTP	468
TSTRPFX	(12)	TST	462	TTPMGMSR	(8C)	TTP	469
TSTRSLBM	(BIT)	TST	462	TTPMHCRT	(BIT)	TTP	468
TSTSHRBM	(BIT)	TST	462	TTPML1	(BIT)	TTP	468
TSTSTART	(0)	TST	461	TTPMLA	(2C)	TTP	467
TSTSYS	(E)	TST	462	TTPMLDC	(BIT)	TTP	468
TSUE	462			TTPMLN	(48)	TTP	468
TSYNS	(3C)	EICD1	114	TTPMMFCP	(34)	TTP	467
TTNDX	(4C)	SPI	324	TTPMODOR	(BIT)	TTP	468
TTP	467			TTPMSC	(47)	TTP	468
TTP16BIT	(BIT)	TTP	469	TTPMSL	(46)	TTP	468
TTP3270	(BIT)	TTP	468	TTPMSUFX	(11)	TTP	467
TTP32SFP	(58)	TTP	468	TTPMSZC	(45)	TTP	468
TTP36OBF	(BIT)	TTP	468	TTPMSZL	(44)	TTP	468
TTPALARM	(BIT)	TTP	468	TTPMXFMP	(BIT)	TTP	468
TTPAPID	(8B)	TTP	469	TTPNOSC	(BIT)	TTP	469
TTPAPNM	(89)	TTP	469	TTPNUSED	(BIT)	TTP	468
TTPASCSA	(BIT)	TTP	468	TTPNXDC	(BIT)	TTP	468
TTPASUFX	(42)	TTP	468	TTPOCN	(1C)	TTP	467
TTPATSKP	(BIT)	TTP	469	TTPOFIP	(BIT)	TTP	468
TTPATTR	(6E)	TTP	468	TTPOPID	(14)	TTP	469
TTPBKTRN	(75)	TTP	469	TTPOPPID	(88)	TTP	469
TTPCBID	(8)	TTP	467	TTPOUTLN	(73)	TTP	469
TTPCHAIN	(20)	TTP	467	TTPPFCL	(63)	TTP	468
TTPCMEND	(B0)	TTP	469	TTPPFLRC	(67)	TTP	468
TTPCOL	(6F)	TTP	469	TTPPFNCL	(65)	TTP	468
TTPCOLS	(5D)	TTP	468	TTPPFNCR	(66)	TTP	468
TTPCURSR	(54)	TTP	468	TTPPFNFL	(64)	TTP	468
TTPDATO	(52)	TTP	468	TTPPFODO	(BIT)	TTP	468
TTPDCCAD	(28)	TTP	467	TTPPFRRC	(68)	TTP	468
TTPDDS	(10)	TTP	467	TTPPFTS	(5E)	TTP	468
TTPDIRCT	(BIT)	TTP	468	TTPPFWRK	(63)	TTP	468
TTPDOOBF	(BIT)	TTP	468	TTPPGBUF	(24)	TTP	467
TTPDSN	(18)	TTP	469	TTPPGNO	(1A)	TTP	467
TTPDSP	(15)	TTP	467	TTPPGNSC	(BIT)	TTP	469
TTPDSPSZ	(5C)	TTP	468	TTPPGPGB	(BIT)	TTP	469
TTPDVC	(17)	TTP	467	TTPPGTXB	(BIT)	TTP	469
TTPEAAPR	(BIT)	TTP	468	TTPPOF	(1A)	TTP	467
TTPEABTR	(BIT)	TTP	468	TTPPRTN	(BIT)	TTP	468
TTPEACOL	(BIT)	TTP	467	TTPPSS	(70)	TTP	469
TTPEAFRL	(BIT)	TTP	468	TTPRCBID	(0)	TTP	469
TTPEAHLT	(BIT)	TTP	467	TTPREQ	(60)	TTP	468
TTPEAMIX	(BIT)	TTP	468	TTPREREM	(BIT)	TTP	469
TTPEAMSR	(BIT)	TTP	468	TTPRETYP	(13)	TTP	469
TTPEAPRT	(BIT)	TTP	468	TTPRL	(BIT)	TTP	469
TTPEAPSS	(BIT)	TTP	467				



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 Licensed Materials – Property of IBM

TPRLCHA (8) TTP 469	TWANLD 246
TPRLEE (BIT) TTP 469	TWANLDL (38) NEPCA 246
TPRLEL (BIT) TTP 469	TWANPFW (BIT) NEPCA 246
TPRLEND 469	TWAOAF (BIT) NEPCA 245
TPRLES (BIT) TTP 469	TWAOAR (BIT) NEPCA 245
TPSAVX2 (A4) TTP 469	TWAOAS (BIT) NEPCA 245
TPSAVXR (98) TTP 469	TWAOASM (BIT) NEPCA 245
TPSCSA (6C) TTP 468	TWAOAT (BIT) NEPCA 245
TPSCSC (6D) TTP 468	TWAOBIND (BIT) NEPCA 245
TPSCSL (6C) TTP 468	TWAOCN (BIT) NEPCA 245
TTPSEEND (20) TTP 469	TWAOCT (BIT) NEPCA 245
TTPSF (17) TTP 469	TWAODNTA (BIT) NEPCA 245
TTPSFGNM (90) TTP 469	TWAOGMM (BIT) NEPCA 245
TTPSFPG (BIT) TTP 469	TWAOINT (BIT) NEPCA 245
TTPSM (BIT) TTP 468	TWAONCN (BIT) NEPCA 245
TTPSOSI (74) TTP 469	TWAONEGR (BIT) NEPCA 245
TTPSTRT 467	TWAONINT (BIT) NEPCA 245
TTPSTRT1 (BIT) TTP 467	TWAOOS (BIT) NEPCA 245
TTPTBKTR (7F) TTP 469	TWAOPBP (BIT) NEPCA 245
TTPTCNT (18) TTP 467	TWAOPT1 (14) NEPCA 245
TTPTCOL (7B) TTP 469	TWAOPT2 (15) NEPCA 245
TTPTCTTE (C) TTP 469	TWAOPT3 (16) NEPCA 245
TTPTF (16) TTP 467	TWAOPTL (14) NEPCA 245
TTPTF2 (17) TTP 467	TWAORPL (BIT) NEPCA 245
TTPTFMA (38) TTP 467	TWAOSCN (BIT) NEPCA 245
TTPTFMH (BIT) TTP 468	TWAOCTE (BIT) NEPCA 245
TTPTFMI (5F) TTP 468	TWAOTIOA (BIT) NEPCA 245
TTPTFMV (BIT) TTP 468	TWAPFLG (2E) NEPCA 246
TTPTFSS (16) TTP 467	TWAPIP (BIT) NEPCA 246
TTPTHL (7D) TTP 469	TWAPNETN (70) NEPCA 246
TTPTOUPL (7E) TTP 469	TWAPNTID (78) NEPCA 246
TTPTPRT (BIT) TTP 468	TWAPPELG (62) NEPCA 246
TTPTPSS (7C) TTP 469	TWAPPELY (BIT) NEPCA 246
TTPTRAN (BIT) TTP 468	TWAPPNTN (56) NEPCA 246
TTPTRAND (BIT) TTP 468	TWAPPPTID (5E) NEPCA 246
TTPTSQUL (43) TTP 468	TWAPSC (BIT) NEPCA 246
TTPTTID (10) TTP 467	TWAR (BIT) NEPCA 246
TTPTXAT 469	TWAREASN (2A) NEPCA 246
TTPTXPTR (50) TTP 468	TWAROPT1 (14) NEPCA 245
TTPXTB (BIT) TTP 468	TWAROPT2 (15) NEPCA 245
TTPXTO (BIT) TTP 468	TWAROPT3 (16) NEPCA 245
TTPVAL (72) TTP 469	TWAROPTL (14) NEPCA 245
TTPWSFYS (BIT) TTP 468	TWARPL (40) NEPCA 246
TTPWSOBF (BIT) TTP 468	TWARPLCD (18) NEPCA 245
TTPWWW (BIT) TTP 468	TWASDCF (20) TCTWA 414
TTPXATTR (6F) TTP 468	TWASENSR (20) NEPCA 245
TWAADINF (24) NEPCA 246	TWASENSS 245
TWAC2260 (3E) TCTWA 414	TWASPELG (6F) NEPCA 246
TWAC3270 (40) TCTWA 414	TWASPELY (BIT) NEPCA 246
TWACAL (BIT) TCTWA 414	TWASPTN (63) NEPCA 246
TWACBAP (4A) TCTWA 414	TWASPTID (6B) NEPCA 246
TWACDSCI (BIT) TCTWA 414	TWASR1 (20) NEPCA 245
TWACFLAG (3D) TCTWA 414	TWASR2 (21) NEPCA 245
TWACFWD1 (2C) TCTWA 414	TWASS1 (1C) NEPCA 245
TWACFWD2 (30) TCTWA 414	TWASS2 (1D) NEPCA 245
TWACFWD3 (34) TCTWA 414	TWASTAT (2B) NEPCA 246
TWACFWD4 (38) TCTWA 414	TWASYSM 246
TWACINIL (9C) NEPCA 246	TWATCTA (3C) NEPCA 246
TWACINIT (98) NEPCA 246	TWATDRSV 414
TWACLSA (4C) TCTWA 414	TWATECIA (50) NEPCA 246
TWACNBEO (48) TCTWA 414	TWATECIL (54) NEPCA 246
TWACOMMA (4C) NEPCA 246	TWATEPF (3C) TCTWA 414
TWACOMML (4A) NEPCA 246	TWATEPI (BIT) TCTWA 414
TWACSC (BIT) NEPCA 246	TWATIOA (BIT) NEPCA 246
TWACSLI (BIT) TCTWA 414	TWATIOAA (44) NEPCA 246
TWACSSFI (BIT) TCTWA 414	TWATIOAL (48) NEPCA 246
TWACTIOE (28) TCTWA 414	TWATRSN (2A) NEPCA 246
TWACTLB 246	TWAUPRDD (BIT) NEPCA 246
TWACWSI (BIT) TCTWA 414	TWAUPRNP (BIT) NEPCA 246
TWACWSIT (BIT) TCTWA 414	TWAUPRPE (BIT) NEPCA 246
TWAE 245	TWAUPRPS (BIT) NEPCA 246
TWAEISAB (30) NEPCA 246	TWAUPRRS (7C) NEPCA 246
TWAERRF1 (7D) NEPCA 246	TWAUR1 (22) NEPCA 245
TWAESAB (BIT) NEPCA 246	TWAUR2 (23) NEPCA 245
TWAFDLBA (42) TCTWA 414	TWAUS1 (1E) NEPCA 245
TWAIBDL (46) TCTWA 414	TWAUS2 (1F) NEPCA 245
TWALDLBA (44) TCTWA 414	TWAVTAM 245
TWALSEI (BIT) TCTWA 414	TWAVTRTC (BIT) NEPCA 246
TWALXS (BIT) NEPCA 246	TWAXMAPN (8C) NEPCA 246
TWANEP 246	TWAXMSTN 246
TWANEP 246	TWAXRMSG (BIT) NEPCA 246
TWANEP 246	TWAXRNON (BIT) NEPCA 246
TWANETN (C) NEPCA 245	TWAXRNOT 246
TWANID 245	

TWAXRPL (150) TCTWA 414  
 TWAXRSN (2C) NEPCA 246  
 TWAXRTRN (BIT) NEPCA 246  
 TWAXTRAN (94) NEPCA 246  
 type  
   terminal type parameter, TTP 467  
 TYPE\_STATS\_UNAVAILABLE 1 APSTG 10

## U

UEAIXFUL (BIT) UEPAR 495  
 UEATDISA (BIT) UEPAR 488  
 UEATENAB (BIT) UEPAR 488  
 UEATFND (BIT) UEPAR 488  
 UEATNFND (BIT) UEPAR 488  
 UEBWOCMP (BIT) UEPAR 493  
 UEBWOINP (BIT) UEPAR 494  
 UEBWOST (BIT) UEPAR 493  
 UECACHE (BIT) UEPAR 495  
 UECONCOP (BIT) UEPAR 493  
 UEDISABL 497  
 UEDLOCK (BIT) UEPAR 495  
 UEDSETN (34) UEPAR 476  
 UEDSNAME (8) UEFD 471  
 UEDUPREC (BIT) UEPAR 495  
 UEF0OFFS (BIT) UEPAR 474  
 UEF1OFFS (BIT) UEPAR 474  
 UEF2OFFS (BIT) UEPAR 474  
 UEF3OFFS (BIT) UEPAR 474  
 UEFACBCP 472  
 UEFADDIM (BIT) UEFD 471  
 UEFBCAS (60) UEFD 472  
 UEFBCFR (BIT) UEFD 471  
 UEFBCLOG (BIT) UEFD 471  
 UEFBCRV (39) UEFD 471  
 UEFBCUNA (BIT) UEFD 472  
 UEFBCVAL (BIT) UEFD 471  
 UEFBDAM (BIT) UEFD 471  
 UEFBRWSE (BIT) UEFD 471  
 UEFBRZIM (BIT) UEFD 471  
 UEFCDATE 472  
 UEFCTIME (5C) UEFD 472  
 UEFD 471  
 UEFDAPPL (BIT) UEPAR 474  
 UEFDCTER (BIT) UEPAR 474  
 UEFDELIM (BIT) UEFD 471  
 UEFDFEDF (BIT) UEPAR 474  
 UEFDSACC (38) UEFD 471  
 UEFDSADD (BIT) UEFD 471  
 UEFDSDI (BIT) UEFD 471  
 UEFDSJAS (BIT) UEFD 471  
 UEFDSJDS (BIT) UEFD 471  
 UEFDSJID (37) UEFD 471  
 UEFDSJL (35) UEFD 471  
 UEFDSJRO (BIT) UEFD 471  
 UEFDSJRU (BIT) UEFD 471  
 UEFDSJSY (BIT) UEFD 471  
 UEFDSJWA (BIT) UEFD 471  
 UEFDSJWU (BIT) UEFD 471  
 UEFDSPI (BIT) UEPAR 474  
 UEFDSRI (BIT) UEFD 471  
 UEFDSUPD (BIT) UEFD 471  
 UEFDSVJL (36) UEFD 471  
 UEFDSYNC (BIT) UEPAR 474  
 UEFDTASK (BIT) UEPAR 474  
 UEFFRCLG 472  
 UEFFRLOG (3A) UEFD 472  
 UEFI (30) UEPAR 476  
 UEFJASY (BIT) UEFD 471  
 UEFJDSN (BIT) UEFD 471  
 UEFJRO (BIT) UEFD 471  
 UEFJRU (BIT) UEFD 471  
 UEFJSYN (BIT) UEFD 471  
 UEFJWA (BIT) UEFD 471  
 UEFJWAC (BIT) UEFD 471  
 UEFJWU (BIT) UEFD 471  
 UEFNAME (0) UEFD 471  
 UEFMAPPL (BIT) UEPAR 474  
 UEFMCTER (BIT) UEPAR 474  
 UEFMFEDF (BIT) UEPAR 474  
 UEFMSPI (BIT) UEPAR 474  
 UEFMSYNC (BIT) UEPAR 474

UEFMTASK (BIT) UEPAR 474  
 UEFPPAPPL (BIT) UEPAR 474  
 UEFPPCTER (BIT) UEPAR 474  
 UEFPPFEDF (BIT) UEPAR 474  
 UEFPPSPI (BIT) UEPAR 474  
 UEFPPSYNC (BIT) UEPAR 474  
 UEFPTASK (BIT) UEPAR 474  
 UEFRDIM (BIT) UEFD 471  
 UEFSESV (34) UEFD 471  
 UEFSSFAL (BIT) UEPAR 478  
 UEFSSNORM (BIT) UEPAR 478  
 UEFSPEND (BIT) UEPAR 478  
 UEFSSWARN (BIT) UEPAR 478  
 UEFUPDIM (BIT) UEFD 471  
 UEFVSAM (BIT) UEFD 471  
 UEIDAITM (BIT) UEPAR 488  
 UEIDCONN (BIT) UEPAR 488  
 UEIDDB2C (BIT) UEPAR 488  
 UEIDDB2E (BIT) UEPAR 488  
 UEIDDB2T (BIT) UEPAR 488  
 UEIDDIS (BIT) UEPAR 487  
 UEIDDOCT (BIT) UEPAR 488  
 UEIDFECO (BIT) UEPAR 488  
 UEIDFENO (BIT) UEPAR 488  
 UEIDFEPO (BIT) UEPAR 488  
 UEIDFEPS (BIT) UEPAR 488  
 UEIDFETA (BIT) UEPAR 488  
 UEIDFILE (BIT) UEPAR 488  
 UEIDINS (BIT) UEPAR 487  
 UEIDJNMD (BIT) UEPAR 488  
 UEIDJNNM (BIT) UEPAR 488  
 UEIDKEEP (BIT) UEPAR 488  
 UEIDLOSE (BIT) UEPAR 488  
 UEIDMAP (BIT) UEPAR 487  
 UEIDMODE (BIT) UEPAR 488  
 UEIDNQRN (BIT) UEPAR 488  
 UEIDPART (BIT) UEPAR 488  
 UEIDPROF (BIT) UEPAR 487  
 UEIDPROG (BIT) UEPAR 487  
 UEIDPRTY (BIT) UEPAR 488  
 UEIDPSET (BIT) UEPAR 487  
 UEIDRQMD (BIT) UEPAR 488  
 UEIDSESS (BIT) UEPAR 488  
 UEIDSTRM (BIT) UEPAR 488  
 UEIDTCLS (BIT) UEPAR 488  
 UEIDTCPS (BIT) UEPAR 488  
 UEIDTDQU (BIT) UEPAR 488  
 UEIDTERM (BIT) UEPAR 487  
 UEIDTRAN (BIT) UEPAR 487  
 UEIDTSMD (BIT) UEPAR 488  
 UEIDWAIT (BIT) UEPB 497  
 UEIMMCLO (BIT) UEPAR 493  
 UEIMQSD (BIT) UEPAR 493  
 UEIOEROR (BIT) UEPAR 495  
 UELCKFUL (BIT) UEPAR 495  
 UELINKAM (BIT) UEPB 497  
 UENBWBK (BIT) UEPAR 495  
 UENBWCM (BIT) UEPAR 493  
 UENBWNP (BIT) UEPAR 494  
 UENBWST (BIT) UEPAR 493  
 UENODEL (BIT) UEPB 497  
 UENOLDEL (BIT) UEPAR 495  
 UENOSPAC (BIT) UEPAR 495  
 UEOPENER (BIT) UEPAR 495  
 UEORDCLO (BIT) UEPAR 493  
 UEORDCOP (BIT) UEPAR 493  
 UEP\_LG\_BLOCK (54) UEPAR 493  
 UEP\_LG\_BLOCK\_ID (5C) UEPAR 493  
 UEP\_LG\_BLOCK\_LENGTH (58) UEPAR 493  
 UEP\_LG\_BLOCK\_TIMESTAMP (60) UEPAR 493  
 UEP\_LG\_CICS\_APPLID (50) UEPAR 493  
 UEP\_LG\_CICS\_START\_GMT (4C) UEPAR 493  
 UEP\_LG\_DELETE\_BLOCK\_ID (64) UEPAR 493  
 UEP\_LG\_DELETE\_TIMESTAMP (68) UEPAR 493  
 UEP\_LG\_FUN\_GET\_DELETE\_POINT (BIT) UEPAR 493  
 UEP\_LG\_FUN\_OPEN (BIT) UEPAR 492  
 UEP\_LG\_FUN\_TERM\_LOG\_FAIL\_GAP (BIT) UEPAR 492  
 UEP\_LG\_FUN\_TERM\_LOG\_FAIL\_NO\_GAP (BIT) UEPAR 492  
 UEP\_LG\_FUN\_TERM\_LOG\_OK\_GAP (BIT) UEPAR 492  
 UEP\_LG\_FUN\_TERM\_LOG\_OK\_NO\_GAP (BIT) UEPAR 493  
 UEP\_LG\_FUN\_WRITE (BIT) UEPAR 492  
 UEP\_LG\_FUNCTION (40) UEPAR 492  
 UEP\_LG\_GENERAL\_LOG (BIT) UEPAR 493

"Restricted Materials of IBM"  
 Licensed Materials – Property of IBM

UEP_LG_LOG_STREAM_NAME (44) UEPAR	493
UEP_LG_LOG_TYPE (48) UEPAR	493
UEP_LG_SYSTEM_LOG (BIT) UEPAR	493
UEP_TS_DATA_L (4C) UEPAR	482
UEP_TS_DATA_P (48) UEPAR	482
UEP_TS_FUN_DELETE (BIT) UEPAR	482
UEP_TS_FUN_GET (BIT) UEPAR	483
UEP_TS_FUN_GET_RELEASE (BIT) UEPAR	483
UEP_TS_FUN_GET_RELEASE_SET (BIT) UEPAR	483
UEP_TS_FUN_GET_SET (BIT) UEPAR	483
UEP_TS_FUN_PUT	483
UEP_TS_FUN_PUT_REPLACE (BIT) UEPAR	483
UEP_TS_FUN_READ_INTO (BIT) UEPAR	482
UEP_TS_FUN_READ_NEXT_INTO (BIT) UEPAR	482
UEP_TS_FUN_READ_NEXT_SET (BIT) UEPAR	482
UEP_TS_FUN_READ_SET (BIT) UEPAR	482
UEP_TS_FUN_RELEASE (BIT) UEPAR	483
UEP_TS_FUN_REWRITE (BIT) UEPAR	482
UEP_TS_FUN_WRITE (BIT) UEPAR	482
UEP_TS_FUNCTION (40) UEPAR	482
UEP_TS_ITEM_NUMBER (50) UEPAR	482
UEP_TS_QUEUE_NAME (44) UEPAR	482
UEP_TS_RESPONSE (5C) UEPAR	482
UEP_TS_RESPONSE_DISASTER (BIT) UEPAR	482
UEP_TS_RESPONSE_EXCEPTION (BIT) UEPAR	482
UEP_TS_RESPONSE_INVALID (BIT) UEPAR	482
UEP_TS_RESPONSE_OK (BIT) UEPAR	482
UEP_TS_RESPONSE_PURGED (BIT) UEPAR	482
UEP_TS_STORAGE_TYPE (54) UEPAR	482
UEP_TS_STORAGE_TYPE_AUX_RECOV_NO (BIT) UEPAR	482
UEP_TS_STORAGE_TYPE_AUX_RECOV_YES (BIT) UEPAR	482
UEP_TS_STORAGE_TYPE_AUX_TST (BIT) UEPAR	482
UEP_TS_STORAGE_TYPE_MAIN (BIT) UEPAR	482
UEP_TS_TOTAL_ITEMS (58) UEPAR	482
UEPAABND (5C) UEPAR	494
UEPABCDE (48) UEPAR	486
UEPACID (44) UEPAR	494
UEPACIN (40) UEPAR	494
UEPACNA (48) UEPAR	494
UEPAIB (BIT) UEPAR	488
UEPAKPER (BIT) UEPAR	480
UEPAKTYP (30) UEPAR	480
UEPAKWSD (BIT) UEPAR	480
UEPALCTR (44) UEPAR	480
UEPALDAT (38) UEPAR	480
UEPALES (30) UEPAR	480
UEPALESD (30) UEPAR	480
UEPALETD (30) UEPAR	480
UEPALEVT (30) UEPAR	480
UEPALFMH (50) UEPAR	480
UEPALFN (BIT) UEPAR	480
UEPALFS (38) UEPAR	480
UEPALFY (BIT) UEPAR	480
UEPALLEN (3C) UEPAR	480
UEPALNNI (58) UEPAR	480
UEPALNNO (5C) UEPAR	480
UEPALNTI (48) UEPAR	480
UEPALNTO (50) UEPAR	480
UEPALQUE (44) UEPAR	480
UEPALRQD (40) UEPAR	480
UEPALRTA (4C) UEPAR	480
UEPALRTE (48) UEPAR	480
UEPALRTR (40) UEPAR	480
UEPALSTC (54) UEPAR	480
UEPALSXI (4C) UEPAR	480
UEPALSXI (54) UEPAR	480
UEPALTN (BIT) UEPAR	480
UEPALTR (34) UEPAR	480
UEPALTRM (34) UEPAR	480
UEPALTRN (3C) UEPAR	480
UEPALTSD (30) UEPAR	480
UEPALTY (BIT) UEPAR	480
UEPAPLIST (34) UEPAR	488
UEPAR	473, 476
UEPARESP (58) UEPAR	494
UEPARG (30) UEPAR	490
UEPASM (BIT) UEPAR	488
UEPATLOC (50) UEPAR	488
UEPATOTI (44) UEPAR	488
UEPATPTI (40) UEPAR	488
UEPATTPA (4C) UEPAR	488
UEPATTPL (48) UEPAR	488
UEPATTTST (54) UEPAR	488
UEPATTTK (58) UEPAR	488
UEPB	497
UEPBLOGR (30) UEPAR	492
UEPBMCNT	494
UEPBMNTAB (3C) UEPAR	494
UEPBMNTCT (30) UEPAR	494
UEPCALAM (48) UEPAR	473
UEPCAM31 (BIT) UEPAR	473
UEPCBL (BIT) UEPAR	488
UEPCCALL (BIT) UEPAR	488
UEPCEXEC (BIT) UEPAR	488
UEPCHILD (BIT) UEPAR	494
UEPCLPS (30) UEPAR	476
UEPCPTEC (3C) UEPAR	493
UEPCRCA (C) UEPAR	473, 476
UEPCSA (14) UEPAR	473, 476
UEPCSHIP (BIT) UEPAR	488
UEPCTYPE (30) UEPAR	488
UEPDBXR (30) UEPAR	485
UEPDICT (40) UEPAR	486
UEPDICTE (44) UEPAR	486
UEPDMMPAB (BIT) UEPAR	487
UEPDMMPBF (44) UEPAR	487
UEPDMMPDD (40) UEPAR	487
UEPDMMPDSN (44) UEPAR	487
UEPDMMPDY (BIT) UEPAR	487
UEPDMMPFC (40) UEPAR	487
UEPDMMPID (6C) UEPAR	486
UEPDMMPLEN (48) UEPAR	487
UEPDMMPRE (BIT) UEPAR	487
UEPDMMPWR (BIT) UEPAR	487
UEPDREAS (74) UEPAR	487
UEPDRESP (70) UEPAR	487
UEPDRPEX (BIT) UEPAR	487
UEPDRPOK (BIT) UEPAR	487
UEPDRPPR (BIT) UEPAR	487
UEPDRSID (BIT) UEPAR	487
UEPDRSND (BIT) UEPAR	487
UEPDRSNO (BIT) UEPAR	487
UEPDRSOE (BIT) UEPAR	487
UEPDRSPS (BIT) UEPAR	487
UEPDRSPT (BIT) UEPAR	487
UEPDRSS1 (BIT) UEPAR	487
UEPDRSS2 (BIT) UEPAR	487
UEPDRSS3 (BIT) UEPAR	487
UEPDRSSA (BIT) UEPAR	487
UEPDRSSB (BIT) UEPAR	487
UEPDSNAM (30) UEPAR	493
UEPDSYST (BIT) UEPAR	486
UEPDTPLE (30) UEPAR	485
UEPDTRAN (BIT) UEPAR	486
UEPDUMPC (40) UEPAR	486
UEPDUMPT (44) UEPAR	486
UEPDURQE (70) UEPAR	486
UEPDXADB (0) DXUEP	105
UEPDXASD (3A) DXUEP	105
UEPDXATC (40) DXUEP	105
UEPDXBDB (4) DXUEP	105
UEPDXCTM (18) DXUEP	105
UEPDXDTM (1C) DXUEP	105
UEPDXIRT (30) DXUEP	105
UEPDXJES (35) DXUEP	105
UEPDXJID (28) DXUEP	105
UEPDXJNM (20) DXUEP	105
UEPDXRSE (10) DXUEP	105
UEPDXRTC (3C) DXUEP	105
UEPDXSAD (8) DXUEP	105
UEPDXSMF (31) DXUEP	105
UEPDXSND (45) DXUEP	105
UEPDXSNM (4E) DXUEP	105
UEPDXSPX (46) DXUEP	105
UEPDXSTK (56) DXUEP	105
UEPEIB (2C) UEPAR	473
UEPENTRY (50) UEPAR	484
UEPEPEND (78) UEPAR	494
UEPEPLEN (BIT) UEPAR	494
UEPEPSA (18) UEPAR	473, 476
UEPERR (44) UEPAR	492
UEPERRA	485
UEPERROR (30) UEPAR	489
UEPEXECB (34) UEPAR	490
UEPEXN (0) UEPAR	473, 476
UEPFABR (BIT) UEPAR	488

UEPFAETU (BIT) UEPAR 488	UEPIOA (40) UEPAR 488
UEPFAIN (BIT) UEPAR 488	UEPIOA1 (BIT) UEPAR 488
UEPFANAM (38) UEPAR 488	UEPIOAX (3C) UEPAR 488
UEPFANTU (BIT) UEPAR 488	UEPISPCA (30) UEPAR 485
UEPFAREQ (30) UEPAR 488	UEPISPP (30) UEPAR 486
UEPFATOK (34) UEPAR 476	UEPIXG (48) UEPAR 492
UEPFATU (BIT) UEPAR 488	UEPL 498
UEPFATUT (34) UEPAR 488	UEPLANG (38) UEPAR 488
UEPFATYP (3C) UEPAR 488	UEPLDPT 484
UEPFAUAA (40) UEPAR 488	UEPLGLEN (38) UEPAR 478
UEPFAUAL (44) UEPAR 488	UEPLGREC (34) UEPAR 478
UEPFCL (48) UEPAR 486	UEPLGTYP (4C) UEPAR 492
UEPFCLNO (4C) UEPAR 486	UEPLOAD (40) UEPAR 490
UEPFCSRSP (40) UEPAR 492	UEPLSN (40) UEPAR 492
UEPFCTOK (34) UEPAR 477	UEPMDOM (44) UEPAR 489
UEPFDATA (40) UEPAR 492	UEPMSLN (44) UEPAR 492
UEPFILE (34) UEPAR 477	UEPMNRC (4C) UEPAR 489
UEPFINFO (38) UEPAR 477	UEPMNTD (54) UEPAR 489
UEPFLAGS (30) UEPAR 473	UEPMNUM (40) UEPAR 489
UEPFLEN (44) UEPAR 492	UEPMPREC (60) UEPAR 486
UEPFLOG (BIT) UEPAR 476	UEPMREC (58) UEPAR 486
UEPFLOGR (30) UEPAR 492	UEPMRLN (54) UEPAR 486
UEPFMOD (70) UEPAR 486	UEPMROU (48) UEPAR 489
UEPFRCV (38) UEPAR 476	UEPMRTYP (50) UEPAR 486
UEPFSCAN (BIT) UEPAR 477	UEPMTDQ (50) UEPAR 489
UEPFSCLS (BIT) UEPAR 477	UEPNETN (40) UEPAR 491
UEPFSCP (BIT) UEPAR 477	UEPNOSEC (BIT) UEPAR 473
UEPFSDIS (BIT) UEPAR 477	UEPNQTOK (34) UEPAR 484
UEPFSSELN (BIT) UEPAR 477	UEPNRTE (60) UEPAR 489
UEPFSENB (BIT) UEPAR 477	UEPODSN (34) UEPAR 492
UEPFSHIP (50) UEPAR 477	UEPOLOGR (30) UEPAR 492
UEPFSICP (BIT) UEPAR 477	UEPPARMD (40) UEPAR 482
UEPFSIMM (BIT) UEPAR 477	UEPPARMS (30) UEPAR 476
UEPFSNC (BIT) UEPAR 477	UEPPBTOK (54) UEPAR 474
UEPFSNOP (BIT) UEPAR 477	UEPPCDS (30) UEPAR 482
UEPFSOFB (BIT) UEPAR 477	UEPPCTOK (34) UEPAR 481
UEPFSOPN (BIT) UEPAR 477	UEPPGM (3C) UEPAR 490
UEPFSQU (BIT) UEPAR 477	UEPPLI (BIT) UEPAR 488
UEPFSREQ (30) UEPAR 477	UEPPRID (4C) UEPAR 494
UEPFSRSP 478	UEPPRNA (54) UEPAR 494
UEPGAA (4) UEPAR 473, 476	UEPPROG (3C) UEPAR 482
UEPGAL (8) UEPAR 473, 476	UEPPROGL (44) UEPAR 484
UEPGANY (BIT) UEPAR 476	UEPPROGN (40) UEPAR 484
UEPGCICS (BIT) UEPAR 476	UEPPRTY (50) UEPAR 494
UEPGENLG (BIT) UEPAR 492	UEPPSB1 (BIT) UEPAR 489
UEPGIND (20) UEPAR 476	UEPPSBNM (48) UEPAR 489
UEPGRPID (38) UEPAR 491	UEPPSBNX (44) UEPAR 488
UEPGRPLN (3C) UEPAR 491	UEPQCONF (3C) UEPAR 493
UEPHMSA (1C) UEPAR 473, 476	UEPQDSNM (30) UEPAR 493
UEPICCTR (44) UEPAR 479	UEPQRQDE (38) UEPAR 493
UEPICE (30) UEPAR 479	UEPQSTAT (34) UEPAR 493
UEPICES (30) UEPAR 479	UEPQUCLS (38) UEPAR 493
UEPICESD (30) UEPAR 479	UEPRCODE (38) UEPAR 476
UEPICEVT (30) UEPAR 479	UEPREADO (BIT) UEPAR 473
UEPICFN (BIT) UEPAR 479	UEPRECUR (48) UEPAR 476
UEPICFS (38) UEPAR 479	UEPREMER (BIT) UEPAR 478
UEPICFY (BIT) UEPAR 479	UEPREMK (40) UEPAR 494
UEPICNNI (58) UEPAR 479	UEPRES (3C) UEPAR 476
UEPICNNO (5C) UEPAR 479	UEPRES2 (40) UEPAR 476
UEPICNTI (48) UEPAR 479	UEPRMEND (5C) UEPAR 474
UEPICNTO (50) UEPAR 479	UEPRMLEN (BIT) UEPAR 474
UEPICQID (30) UEPAR 479	UEPRMQUA (44) UEPAR 473
UEPICRQ1 (3C) UEPAR 479	UEPRMSTK (34) UEPAR 473
UEPICRQ2 (40) UEPAR 479	UEPROOT (BIT) UEPAR 494
UEPICRT (44) UEPAR 479	UEPRSA (44) UEPAR 490
UEPICRTR (40) UEPAR 479	UEPRSRCE 477
UEPICSYI (4C) UEPAR 479	UEPRSTRT 478
UEPICSYO (54) UEPAR 479	UEPRUEI (44) UEPAR 494
UEPICTI (38) UEPAR 479	UEPRWARM (BIT) UEPAR 478
UEPICTID (34) UEPAR 479	UEPSCLD (5C) UEPAR 486
UEPICTN (BIT) UEPAR 479	UEPSCOPE 484
UEPICTOK 479	UEPSDATE (4C) UEPAR 486
UEPICTR (34) UEPAR 479	UEPSEC (BIT) UEPAR 473
UEPICTRN (3C) UEPAR 479	UEPSECBLK (40) UEPAR 473
UEPICTY (BIT) UEPAR 479	UEPSECFLG (3C) UEPAR 473
UEPIDLEN (48) UEPAR 487	UEPSEOD (48) UEPAR 486
UEPIDNAM (44) UEPAR 487	UEPSINT (48) UEPAR 486
UEPIDNUM (4C) UEPAR 487	UEPSIVAL (54) UEPAR 486
UEPIDREC (54) UEPAR 488	UEPSIVN (58) UEPAR 486
UEPIDREQ (40) UEPAR 487	UEPSNFL (BIT) UEPAR 491
UEPIDTYP (50) UEPAR 487	UEPSNFLG (54) UEPAR 491
UEPINS (5C) UEPAR 489	UEPSNML (BIT) UEPAR 491
UEPINSN (58) UEPAR 489	UEPSNOK (BIT) UEPAR 491

"Restricted Materials of IBM"  
 Licensed Materials – Property of IBM

UEPSNTIM (BIT) UEPAR 491	UEPTCTLE (38) UEPAR 480
UEPSRCTL (5C) UEPAR 486	UEPTCTTE (30) UEPAR 480
UEPSREQ (48) UEPAR 486	UEPTCTUA (48) UEPAR 491
UEPSRLEN (44) UEPAR 486	UEPTCTUL (4C) UEPAR 491
UEPSRRT (48) UEPAR 486	UEPTDAMD (3C) UEPAR 484
UEPSTACK (24) UEPAR 476	UEPTDAUD 484
UEPSTATS (40) UEPAR 486	UEPTDCUR (48) UEPAR 484
UEPSTIME (50) UEPAR 486	UEPTDGET (BIT) UEPAR 483
UEPSTYPE (48) UEPAR 486	UEPTDLMD (40) UEPAR 484
UEPSUPDR (BIT) UEPAR 473	UEPTDLUD (38) UEPAR 484
UEPSUSS (48) UEPAR 486	UEPTDNUM (44) UEPAR 484
UEPSYNCA (4C) UEPAR 473	UEPTDPUR (BIT) UEPAR 483
UEPSYS1 (BIT) UEPAR 489	UEPTDPUT (BIT) UEPAR 483
UEPSYSDX (4C) UEPAR 489	UEPTDQUE (30) UEPAR 483
UEPSYSID (50) UEPAR 489	UEPTDTOK (34) UEPAR 484
UEPSYSLG (BIT) UEPAR 492	UEPTDTYP (34) UEPAR 483
UEPSYSRC (40) UEPAR 487	UEPTEID (44) UEPAR 478
UEPSZACN (30) UEPAR 489	UEPTERM (38) UEPAR 482
UEPSZACT (30) UEPAR 489	UEPTFO (20) UEPAR 476
UEPSZALP (3C) UEPAR 489	UEPTFO (50) UEPAR 473
UEPSZALT (44) UEPAR 489	UEPTIND (50) UEPAR 473
UEPSZCNV 489	UEPTIOA (34) UEPAR 480
UEPSZCON 489	UEPTJ8 (20) UEPAR 476
UEPSZEOT (44) UEPAR 490	UEPTJ8 (50) UEPAR 474
UEPSZNOA (44) UEPAR 489	UEPTJS (20) UEPAR 476
UEPSZNOS (44) UEPAR 490	UEPTJS (50) UEPAR 474
UEPSZOAD (44) UEPAR 490	UEPTL8 (20) UEPAR 476
UEPSZOAL (44) UEPAR 489	UEPTL8 (50) UEPAR 473
UEPSZOCD (44) UEPAR 489	UEPTPN (38) UEPAR 481
UEPSZOCF (44) UEPAR 489	UEPTPNL (3C) UEPAR 481
UEPSZODE (44) UEPAR 490	UEPTQR (20) UEPAR 476
UEPSZODN (44) UEPAR 490	UEPTQR (50) UEPAR 473
UEPSZODP (44) UEPAR 490	UEPTQTOK (34) UEPAR 483
UEPSZODT (44) UEPAR 490	UEPTRACE (2C) UEPAR 476
UEPSZODY (44) UEPAR 490	UEPTRAN 480
UEPSZOFR (44) UEPAR 490	UEPTRANID 482
UEPSZOIN (44) UEPAR 490	UEPTRANS (34) UEPAR 492
UEPSZOIP (44) UEPAR 490	UEPTRCE (58) UEPAR 474
UEPSZOIT (44) UEPAR 490	UEPTREQ (34) UEPAR 478
UEPSZOIY (44) UEPAR 490	UEPTRID (40) UEPAR 478
UEPSZOQC (44) UEPAR 490	UEPTRLV1 (BIT) UEPAR 474
UEPSZOQN (44) UEPAR 490	UEPTRLV2 (BIT) UEPAR 474
UEPSZOQP (44) UEPAR 490	UEPTRMID (44) UEPAR 491
UEPSZOQT (44) UEPAR 490	UEPTRMNL (38) UEPAR 492
UEPSZOQY (44) UEPAR 490	UEPTRMTY (50) UEPAR 491
UEPSZORD (44) UEPAR 490	UEPTRO (20) UEPAR 476
UEPSZORF (44) UEPAR 490	UEPTRO (50) UEPAR 473
UEPSZOSD (44) UEPAR 490	UEPTRON (BIT) UEPAR 476
UEPSZOSF (44) UEPAR 490	UEPTRP (20) UEPAR 476
UEPSZOST (44) UEPAR 490	UEPTRP (50) UEPAR 473
UEPSZOSU (44) UEPAR 490	UEPTRUEN (30) UEPAR 491
UEPSZOTC (44) UEPAR 490	UEPTRUEP (34) UEPAR 491
UEPSZOTN (44) UEPAR 490	UEPTS8 (20) UEPAR 476
UEPSZOTP (44) UEPAR 490	UEPTS8 (50) UEPAR 473
UEPSZOTT (44) UEPAR 490	UEPTSL (20) UEPAR 476
UEPSZOXC (44) UEPAR 489	UEPTSL (50) UEPAR 473
UEPSZOXF (44) UEPAR 489	UEPTSO (20) UEPAR 476
UEPSZOXS (44) UEPAR 489	UEPTSO (50) UEPAR 473
UEPSZRP2 (3C) UEPAR 489	UEPTSTOK (44) UEPAR 476
UEPSZRVD (40) UEPAR 489	UEPTSZ (20) UEPAR 476
UEPSZRVL (44) UEPAR 489	UEPTSZ (50) UEPAR 473
UEPSZSDF (44) UEPAR 490	UEPTUTCB (BIT) UEPAR 473
UEPSZSDI (44) UEPAR 490	UEPUIB (48) UEPAR 489
UEPSZSDN (44) UEPAR 490	UEPUIB1 (BIT) UEPAR 489
UEPSZSND (50) UEPAR 489	UEPUIBX 489
UEPSZSNE (61) UEPAR 489	UEPUOWAK (BIT) UEPAR 478
UEPSZSNK (60) UEPAR 489	UEPUOWBO (BIT) UEPAR 478
UEPSZSNK_OFF (BIT) UEPAR 489	UEPUOWCM (BIT) UEPAR 478
UEPSZSNK_ON (BIT) UEPAR 489	UEPUOWDS (38) UEPAR 473
UEPSZSNL (54) UEPAR 489	UEPUOWID (BIT) UEPAR 478
UEPSZSTM (5C) UEPAR 489	UEPUOWIF (BIT) UEPAR 478
UEPSZSTT (58) UEPAR 489	UEPUOWST (30) UEPAR 478
UEPSZTIM (4C) UEPAR 489	UEPURID (20) UEPAR 473
UEPTAA (24) UEPAR 473	UEPUSER (34) UEPAR 482
UEPTACB (34) UEPAR 482	UEPUSID (38) UEPAR 490
UEPTAID (3C) UEPAR 478	UEPUSRID (30) UEPAR 491
UEPTAL (28) UEPAR 473	UEPUSRLN (34) UEPAR 491
UEPTANY (BIT) UEPAR 473	UEPVSACT (34) UEPAR 493
UEPTASK (3C) UEPAR 492	UEPXCNT (60) UEPAR 486
UEPTCA (10) UEPAR 473, 476	UEPXDDE (68) UEPAR 486
UEPTCICS (BIT) UEPAR 473	UEPXDLOC (BIT) UEPAR 486
UEPTCO (20) UEPAR 476	UEPXDMAX (5C) UEPAR 486
UEPTCO (50) UEPAR 473	UEPXDNO (BIT) UEPAR 486

UEPXDREL (BIT) UEPAR 486  
UEPXDSCP (4C) UEPAR 486  
UEPXD SYS (54) UEPAR 486  
UEPXDTRM (58) UEPAR 486  
UEPXD TST (64) UEPAR 486  
UEPXD TXN (50) UEPAR 486  
UEPXDYES (BIT) UEPAR 486  
UEPXSTOR (28) UEPAR 476  
UEPZDATA (30) UEPAR 485  
UEQCANCL (BIT) UEPAR 493  
UEQIOERR (BIT) UEPAR 493  
UEQMIGRT (BIT) UEPAR 494  
UEQOK (BIT) UEPAR 493  
UEQREJEC (BIT) UEPAR 493  
UEQSD (BIT) UEPAR 493  
UEQTIMED (BIT) UEPAR 493  
UEQUIES (BIT) UEPAR 493  
UEQUIINP (BIT) UEPAR 494  
UEQUNKNO (BIT) UEPAR 493  
UERCABDU (BIT) UEPAR 494  
UERCABNO (BIT) UEPAR 494  
UERCAKLL (BIT) UEPAR 494  
UERCAKLM (BIT) UEPAR 494  
UERCAPUR (BIT) UEPAR 494  
UERCAQUE (BIT) UEPAR 494  
UERCBCKO (BIT) UEPAR 494  
UERCBYP (BIT) UEPAR 494  
UERCCANC (BIT) UEPAR 495  
UERCCICS (BIT) UEPAR 495  
UERCCOIG (BIT) UEPAR 494  
UERC DTAC (BIT) UEPAR 494  
UERC DTCL (BIT) UEPAR 494  
UERC DT EX (BIT) UEPAR 494  
UERC DTOK (BIT) UEPAR 494  
UERC DTOP (BIT) UEPAR 494  
UERC DTRJ (BIT) UEPAR 494  
UERC DTSH (BIT) UEPAR 494  
UERC FAIL (BIT) UEPAR 494  
UERCIGN (BIT) UEPAR 494  
UERCLDEL (BIT) UEPAR 494  
UERCMEA (BIT) UEPAR 494  
UERCNETN (BIT) UEPAR 494  
UERCNOAC (BIT) UEPAR 494  
UERCNOCA (BIT) UEPAR 495  
UERCNORM (BIT) UEPAR 476  
UERCNOSW (BIT) UEPAR 494  
UERC PURG (BIT) UEPAR 494  
UERCQUE (BIT) UEPAR 494  
UERCSCOPE (BIT) UEPAR 495  
UERC SWAP (BIT) UEPAR 494  
UERC SWCH (BIT) UEPAR 494  
UERC SYS (BIT) UEPAR 494  
UERC SYSI (BIT) UEPAR 494  
UERCTDNA (BIT) UEPAR 494  
UERCTDOK (BIT) UEPAR 494  
UERCTEUN (BIT) UEPAR 494  
UERESYNC (BIT) UEPB 497  
UERFBACK (BIT) UEPAR 473, 495  
UERFBOUT (BIT) UEPAR 473, 495  
UERFDONE (BIT) UEPAR 473, 495  
UERFEOTR (BIT) UEPAR 473, 495  
UERFHOLD (BIT) UEPAR 473, 495  
UERFNLOG (BIT) UEPAR 473, 495  
UERFOK (BIT) UEPAR 473, 495  
UERFPREP (BIT) UEPAR 473, 495  
UERLSCON (BIT) UEPAR 495  
UERLSDIS (BIT) UEPAR 495  
UERLSERR (BIT) UEPAR 495  
UERTAPI (BIT) UEPAR 474  
UERTAPPL (BIT) UEPAR 474  
UERTBACK (BIT) UEPAR 473, 495  
UERTCABN (BIT) UEPAR 473, 495  
UERTCABY (BIT) UEPAR 473, 495  
UERTC IMM (BIT) UEPAR 473, 495  
UERTCOMM (BIT) UEPAR 473, 495  
UERTCONN (BIT) UEPAR 473, 495  
UERTCORD (BIT) UEPAR 473, 495  
UERTCTER (BIT) UEPAR 474  
UERTDGCS (BIT) UEPAR 473, 495  
UERTDGNK (BIT) UEPAR 473, 495  
UERTELUW (BIT) UEPAR 473, 495  
UERTEOTR (BIT) UEPAR 473, 495  
UERTFAPI (BIT) UEPAR 474  
UERTFEDF (BIT) UEPAR 474  
UERTFGP (0) UEPAR 474  
UERTFID (1) UEPAR 474  
UERTLAST (BIT) UEPAR 473, 495  
UERTNCON (BIT) UEPAR 473, 495  
UERTONLY (BIT) UEPAR 473, 495  
UERTOPCA (BIT) UEPAR 473, 495  
UERTOPT2 (2) UEPAR 474  
UERTPREP (BIT) UEPAR 473, 495  
UERTREND 474  
UERTRLEN (BIT) UEPAR 474  
UERTRMSY (BIT) UEPAR 474  
UERTRSYN (BIT) UEPAR 473, 495  
UERTRTST (BIT) UEPAR 473, 495  
UERTRTTR (BIT) UEPAR 473, 495  
UERTSOTR (BIT) UEPAR 473, 495  
UERTSPI (BIT) UEPAR 474  
UERTSYNC (BIT) UEPAR 474  
UERTTASK (BIT) UEPAR 474  
UERTWAIT (BIT) UEPAR 473, 495  
UESTART 497  
UETE 499  
UETEALL 1 UETE 499  
UETEAP E 1 UETE 499  
UETECHNG (C) UETE 499  
UETEDRC 499  
UETEEND (28) UETE 499  
UETEEXN (0) UETE 499  
UETEFEPL 499  
UETEFLG1 (6) UETE 499  
UETEFLG2 (7) UETE 499  
UETEFLGS (6) UETE 499  
UETEMRC (4) UETE 499  
UETEPL (10) UETE 499  
UETERCSV (BIT) UETE 499  
UETEXCAP (BIT) UETE 499  
UETH 500  
UETHEND (B0) UETH 500  
UETH PBC (80) UETH 500  
UETH PBL (98) UETH 500  
UETH PBT 500  
UETHFEPB (AC) UETH 500  
UETHFEPL (A8) UETH 500  
UETHFLAG (8C) UETH 500  
UETHLEA (84) UETH 500  
UETHLEN (88) UETH 500  
UETHTRUB 500  
UETHSCT (8A) UETH 500  
UETHWA (0) UETH 500  
UEUNEXP (BIT) UEPAR 495  
UEUNKINP (BIT) UEPAR 494  
UEUNQINP (BIT) UEPAR 494  
UEUNQSD (BIT) UEPAR 493  
UEUNQUIS (BIT) UEPAR 493  
UEUSINIT (BIT) UEPAR 478  
UEUSTERM (BIT) UEPAR 478  
UNBIND\_COUNT (10) ZGRP 602  
UNCOND (BIT) SIP 291  
UNRELIABLE 0 TCTTE 411  
unsolicited  
DBCTL unsolicited statistics, DBU 64  
UPENTSAV (29C) SIP 291  
URL 501  
URLCAD (BIT) URL 501  
URLCHADR 501  
URLCHIND (0) URL 501  
URLCONT (0) URL 501  
URLEND (0) URL 501  
URLINVMN (BIT) URL 501  
URLITI (BIT) URL 501  
URLLDCMN (4) URL 501  
URLNEXT (BIT) URL 501  
URLNS (BIT) URL 501  
URLONSO (BIT) URL 501  
URLOPID (6) URL 501  
URLRESV (A) URL 501  
URLSKIP (BIT) URL 501  
URLSOUST (BIT) URL 501  
URLTRMID (0) URL 501  
URLTSF (9) URL 501  
USEEITBS (BIT) EICD1 115  
user

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user (continued)

cics-dbctl XRF user exit parameter list, DXUEP 105  
 EXEC interface user structure, EIUS 125  
 global user exit plist, UEPAR 476  
 monitoring domain user EMP structure, MNEMP 232  
 program control user exits DSECT, PCUES 260  
 task related user exit plist, UEPAR 473  
 user exit file and dataset information, UEFD 471  
 user exit program block, UEPB 497  
 user exit program link, UEPL 498  
 user exit table entry, UETE 499  
 user exit table header, UETH 500  
 user supplied route list entry, URL 501  
 USER\_REC\_TYPE 2 LGGF 206  
 userid  
 zcp local userid table definition, ZLUIT 606  
 UUID\_ENTRIES (5) LUSDS 218

**V**

VBADVIDX 115  
 VBXPTR (20) EICD1 114  
 vector  
 XRF mapping session stste vector '29', TCV29 418  
 VMASM (11) VMID 502  
 VMDATE (14) VMID 502  
 VMDLIGEN (BIT) VMID 502  
 VMEPA31 (9) VMID 502  
 VMFLAG1 (1E) VMID 502  
 VMID 502  
 VMLNGTH (BIT) VMID 502  
 VMMVS811 (BIT) VMID 502  
 VMMVSGEN (BIT) VMID 502  
 VMNAME (1) VMID 502  
 VMPTFNO (16) VMID 502  
 VMSTRGEN (BIT) VMID 502  
 VMSTART (0) VMID 502  
 VMTIME (12) VMID 502  
 VMVERS (D) VMID 502  
 VSAM  
 fc VSAM work area, VSWA 502  
 transient data VSAM control, MRC 240  
 VSAM\_EXLST\_LENGTH 2 FCS 144  
 VSAMECB (4) WS3 546  
 VSAMRBA (0) WS3 546  
 VSAMRPL (8) WS3 546  
 VSAMRQB (0) WS3 546  
 VSAMRQBL (BIT) WS3 546  
 VSWA 502  
 VSWA\_0890\_POST (BIT) VSWA 504  
 VSWA\_0890\_WAIT (BIT) VSWA 503  
 VSWA\_ADD\_DELETE (BIT) VSWA 504  
 VSWA\_BACKWARDS (BIT) VSWA 504  
 VSWA\_BKL (62) VSWA 503  
 VSWA\_DATA\_BUFFER1 504  
 VSWA\_DATA\_BUFFER2 (AC) VSWA 504  
 VSWA\_DELETE\_LOCK (5C) VSWA 503  
 VSWA\_DT\_WAIT 503  
 VSWA\_ESDS\_LOCK (BIT) VSWA 504  
 VSWA\_FRTE (A0) VSWA 504  
 VSWA\_INFLIGHT (BIT) VSWA 503  
 VSWA\_JECN (94) VSWA 504  
 VSWA\_LAST\_LEN (B0) VSWA 504  
 VSWA\_LOG\_LENGTH (B2) VSWA 504  
 VSWA\_MASS\_INSERT (BIT) VSWA 504  
 VSWA\_NONRECOV\_LOCK (BIT) VSWA 504  
 VSWA\_RECORD\_LOCK (58) VSWA 503  
 VSWA\_REM 504  
 VSWA\_REQD\_STRINGS (A4) VSWA 504  
 VSWA\_SAA (0) VSWA 502  
 VSWA\_SAVE\_OPTC (98) VSWA 504  
 VSWA\_SEQUENTIAL (BIT) VSWA 503  
 VSWA\_UPDATE (BIT) VSWA 504  
 VSWAACB (20) VSWA 503  
 VSWAARG (2C) VSWA 503  
 VSWAASY 503  
 VSWABCAD (0) VSWA 504  
 VSWABGEN (BIT) VSWA 503  
 VSWABIP (BIT) VSWA 503  
 VSWABKEY (4) VSWA 504  
 VSWABRBA (BIT) VSWA 503  
 VSWABRZI (BIT) VSWA 503

VSWABUFL (3C) VSWA 503  
 VSWACCHR (1C) VSWA 503  
 VSWACHN (80) VSWA 503  
 VSWACLS (0) VSWA 502  
 VSWACMPN (16) VSWA 503  
 VSWACNDC (16) VSWA 503  
 VSWACTIV 503  
 VSWADBA (B4) VSWA 504  
 VSWADIR 503  
 VSWAECB (10) VSWA 503  
 VSWAECBC (10) VSWA 503  
 VSWAECBS 503  
 VSWAEMA (50) VSWA 503  
 VSWAEML (4E) VSWA 503  
 VSWAENID (0) VSWA 504  
 VSWAENQL (60) VSWA 503  
 VSWAEREQ (BIT) VSWA 503  
 VSWAERRC (17) VSWA 503  
 VSWAEXW (8C) VSWA 503  
 VSWAFCT (54) VSWA 503  
 VSWAFDBK (15) VSWA 503  
 VSWAFRST (BIT) VSWA 503  
 VSWAID (8) VSWA 503  
 VSWAIDWD (8) VSWA 502  
 VSWAIND (8D) VSWA 503  
 VSWAKEYL 503  
 VSWALEN (38) VSWA 503  
 VSWALNTH 502  
 VSWALOCK (BIT) VSWA 504  
 VSWALRBA 503  
 VSWALSRP 504  
 VSWAMASS (BIT) VSWA 503  
 VSWANEXT 503  
 VSWANRPL (34) VSWA 503  
 VSWANXT (4) VSWA 502  
 VSWAOPT1 (30) VSWA 503  
 VSWAOPT2 (31) VSWA 503  
 VSWAOPT3 503  
 VSWAOPT4 (33) VSWA 503  
 VSWAOPTC (30) VSWA 503  
 VSWAOWND (84) VSWA 503  
 VSWAOWNR (88) VSWA 503  
 VSWAPLHP (C) VSWA 503  
 VSWAPREV (7C) VSWA 503  
 VSWARBAR 503  
 VSWAREA (28) VSWA 503  
 VSWAREQ (A) VSWA 503  
 VSWARESP (14) VSWA 503  
 VSWARIF (68) VSWA 503  
 VSWARKYL (18) VSWA 503  
 VSWARLEN (B) VSWA 503  
 VSWARPL (8) VSWA 502  
 VSWARQST (90) VSWA 504  
 VSWARTNC (15) VSWA 503  
 VSWASEQ (BIT) VSWA 503  
 VSWASTAT (14) VSWA 503  
 VSWASTG 504  
 VSWASTID (1A) VSWA 503  
 VSWASTLR (6C) VSWA 503  
 VSWASTRG (BIT) VSWA 503  
 VSWASTYP (9) VSWA 503  
 VSWASV12 (9C) VSWA 504  
 VSWATCB (24) VSWA 503  
 VSWAUPD 503  
 VSWAVRS0 (54) VSWA 503  
 VSWAVRS2 503  
 VSWAVRS3 503  
 VSWAXCHN (80) VSWA 503  
 VSWAXKEY (B4) VSWA 504  
 VTAM  
 CICS VTAM rpl extension, ZRPL 608  
 VTAM autoinstall work element, TCTWE 415  
 VTAM global statistics, A03 14  
 VTAM\_MAP\_OFFSET 2 APSTG 10

**W**

WA\_CNT (4) TRFCA 455  
 WA\_DATA (C) TRFCA 455  
 WA\_IT\_LEN (8) TRFCA 455  
 WA\_LEN (0) TRFCA 455  
 wait

wait (continued)  
 transient data wait control, MWCB 242  
 WAIT\_RPL\_ECB (8) ZGRP 605  
 WARMST (BIT) SIT 302  
 WBCCD 505  
 WBRA\_ALIAS\_TERMID (30) WBTDC 513  
 WBRA\_ALIAS\_TRANID (2C) WBTDC 513  
 WBRA\_CLIENT\_IP\_ADDRESS (44) WBTDC 513  
 WBRA\_CONTENT\_LENGTH (70) WBTDC 513  
 WBRA\_CONVERTER\_PROGRAM (1C) WBTDC 513  
 WBRA\_DFHCNV\_KEY (3C) WBTDC 513  
 WBRA\_EYECATCHER (0) WBTDC 513  
 WBRA\_FUNCTION (8) WBTDC 513  
 WBRA\_HTTP\_VERSION\_LENGTH (66) WBTDC 513  
 WBRA\_HTTP\_VERSION\_PTR (54) WBTDC 513  
 WBRA\_METHOD\_LENGTH (64) WBTDC 513  
 WBRA\_METHOD\_PTR (50) WBTDC 513  
 WBRA\_PARAMS (0) WBTDC 513  
 WBRA\_REASON (10) WBTDC 513  
 WBRA\_REQUEST\_HEADER\_LENGTH (6A) WBTDC 513  
 WBRA\_REQUEST\_HEADER\_PTR (5C) WBTDC 513  
 WBRA\_REQUEST\_TYPE (6E) WBTDC 513  
 WBRA\_RESOURCE\_ESCAPED\_PTR (4C) WBTDC 513  
 WBRA\_RESOURCE\_LENGTH (68) WBTDC 513  
 WBRA\_RESOURCE\_PTR (58) WBTDC 513  
 WBRA\_RESPONSE (C) WBTDC 513  
 WBRA\_SERVER\_IP\_ADDRESS (48) WBTDC 513  
 WBRA\_SERVER\_PROGRAM (14) WBTDC 513  
 WBRA\_UNESCAPE (6F) WBTDC 513  
 WBRA\_USER\_DATA\_LENGTH (6C) WBTDC 513  
 WBRA\_USER\_DATA\_PTR (60) WBTDC 513  
 WBRA\_USER\_TOKEN (34) WBTDC 513  
 WBRA\_USERID (24) WBTDC 513  
 WBTDC 510  
 WBTL\_ADD\_HTML\_SYMBOLS 2 WBTLC 514  
 WBTL\_ADD\_HTML\_TEMPLATE 2 WBTLC 514  
 WBTL\_BUILD\_HTML\_PAGE 2 WBTLC 514  
 WBTL\_CONNECT\_TOKEN (8) WBTLC 514  
 WBTL\_CURRENT\_VERSION 2 WBTLC 514  
 WBTL\_DISASTER 2 WBTLC 514  
 WBTL\_END\_HTML\_PAGE 2 WBTLC 514  
 WBTL\_EXCEPTION 2 WBTLC 514  
 WBTL\_FEATURE\_INACTIVE 2 WBTLC 514  
 WBTL\_FREEMAIN\_ERROR 2 WBTLC 514  
 WBTL\_FUNCTION (2) WBTLC 514  
 WBTL\_GETMAIN\_ERROR 2 WBTLC 514  
 WBTL\_HTML\_BUFFER\_LEN (34) WBTLC 514  
 WBTL\_HTML\_BUFFER\_PTR (30) WBTLC 514  
 WBTL\_INVALID 2 WBTLC 514  
 WBTL\_INVALID\_BUFFER\_PTR 2 WBTLC 514  
 WBTL\_INVALID\_FUNCTION 2 WBTLC 514  
 WBTL\_INVALID\_SYMBOL\_LIST 2 WBTLC 514  
 WBTL\_INVALID\_TOKEN 2 WBTLC 514  
 WBTL\_INVALID\_VERSION 2 WBTLC 514  
 WBTL\_OK 2 WBTLC 514  
 WBTL\_PAGE\_TRUNCATED 2 WBTLC 514  
 WBTL\_PARAMETER\_LEN 2 WBTLC 514  
 WBTL\_READ\_HTML\_TEMPLATE 2 WBTLC 514  
 WBTL\_REASON (6) WBTLC 514  
 WBTL\_RESPONSE (4) WBTLC 514  
 WBTL\_START\_HTML\_PAGE 2 WBTLC 514  
 WBTL\_SYMBOL\_LIST\_LEN (2C) WBTLC 514  
 WBTL\_SYMBOL\_LIST\_PTR (28) WBTLC 514  
 WBTL\_TEMPLATE\_ABSTIME (18) WBTLC 514  
 WBTL\_TEMPLATE\_BUFFER\_LEN (24) WBTLC 514  
 WBTL\_TEMPLATE\_BUFFER\_PTR (20) WBTLC 514  
 WBTL\_TEMPLATE\_NAME (10) WBTLC 514  
 WBTL\_TEMPLATE\_NOT\_FOUND 2 WBTLC 514  
 WBTL\_TEMPLATE\_TRUNCATED 2 WBTLC 514  
 WBTL\_VERSION\_NO (0) WBTLC 514  
 WBTLC 514  
 WCG 515  
 WCGCKDA (C) WCG 515  
 WCGCS (3C) WCG 515  
 WCGCSPRM (84) WCG 515  
 WCGCSSVA (3C) WCG 515  
 WCGDA (18) WCG 515  
 WCGECCS (1C) WCG 515  
 WCGEDATT (8) WCG 515  
 WCGEDISP (18) WCG 515  
 WCGEDWAT (C) WCG 515  
 WCGELFRE (4) WCG 515  
 WCGELGET (0) WCG 515  
 WCGEMS20 (10) WCG 515  
 WCGEND (90) WCG 515  
 WCGENTAB (0) WCG 515  
 WCGETRP (14) WCG 515  
 WCGFA (1C) WCG 515  
 WCGIDENT (0) WCG 515  
 WCGLFA (28) WCG 515  
 WCGMA (20) WCG 515  
 WCGNTA (10) WCG 515  
 WCGSA (2C) WCG 515  
 WCGSAPPL (34) WCG 515  
 WCGSTATA (8) WCG 515  
 WCGSXA (30) WCG 515  
 WCGTRA (24) WCG 515  
 WCGXRFNT (14) WCG 515  
 WCIBLDPC 4 WCG 516  
 WCIBLDPX 4 WCG 516  
 WCIFREEM 4 WCG 516  
 WCIGETM 4 WCG 516  
 WCINTER 4 WCG 516  
 WCIMSGAB 4 WCG 516  
 WCIPABCD (8) WCG 516  
 WCIPCHAR (4) WCG 516  
 WCIPCOMP (8) WCG 516  
 WCIPDOPT (8) WCG 516  
 WCIPCEBA (4) WCG 516  
 WCIPHEX (4) WCG 516  
 WCIPID (0) WCG 516  
 WCIPMSGA (4) WCG 516  
 WCIPPOST 4 WCG 516  
 WCIPSA (4) WCG 516  
 WCIPABC (9) WCG 516  
 WCIPSL (8) WCG 516  
 WCIPSA (8) WCG 516  
 WCIPUABC (A) WCG 516  
 WCIPXPBA (4) WCG 516  
 WCIXCONV 4 WCG 516  
 WCS 517  
 WCSACSV 517  
 WCSACSV (15) WCS 517  
 WCSSEMS (0) WCS 517  
 WCSSENTAB (0) WCS 517  
 WCSSETECB (10) WCS 517  
 WCSGLBLA (8) WCS 517  
 WCSIDENT (0) WCS 517  
 WCSL (BIT) WCS 517  
 WCSPUTAV (BIT) WCS 517  
 WCSREASC 517  
 WCSRESP (28) WCS 517  
 WCSRSOFA (BIT) WCS 517  
 WCSRSOFN (BIT) WCS 517  
 WCSMMMAV (BIT) WCS 517  
 WCSMRST (14) WCS 517  
 WCSOFCD (2B) WCS 517  
 WCSOFML (16) WCS 517  
 WCSOFMP (18) WCS 517  
 WCSSSFIP (BIT) WCS 517  
 WCSSSNIP (BIT) WCS 517  
 WCSSSOFA (BIT) WCS 517  
 WCSSSOFN (BIT) WCS 517  
 WCSSSON (BIT) WCS 517  
 WCSTCECB (1C) WCS 517  
 WCSTKRID (2A) WCS 517  
 WCSTKVP (24) WCS 517  
 WCSTXECB (20) WCS 517  
 WCSXTCBP (C) WCS 517  
 WDG 518  
 WDGALV 4 WDG 519  
 WDGALLK 4 WDG 519  
 WDGXPB (8) WDG 518  
 WDGEND (78) WDG 518  
 WDGESPA (14) WDG 518  
 WDGESTA (10) WDG 518  
 WDGEXTNL (0) WDG 518  
 WDGFXPB (0) WDG 518  
 WDGGLKSM 518  
 WDGAR13 (C) WDG 518  
 WDGKACC (40) WDG 518  
 WDGKI (46) WDG 518  
 WDGKTMP (40) WDG 518  
 WDGLOCAL (40) WDG 518  
 WDGXPB (4) WDG 518  
 WDGNOEV 4 WDG 519



"Restricted Materials of IBM"  
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WDGNOLKS 4 WDG 519  
 WDCP (0) WDG 518  
 WDCPEDA (4) WDG 518  
 WDCPEPRM (4) WDG 518  
 WDCPID (0) WDG 518  
 WDCPIDA (8) WDG 518  
 WDCPNPSW (8) WDG 518  
 WDCPSESP 4 WDG 519  
 WDCPSEST 4 WDG 519  
 WDCPSINT 4 WDG 519  
 WDCPSRPA (8) WDG 518  
 WDCPSTRM 4 WDG 519  
 WDCWL (48) WDG 518  
 WDCWLL 518  
 WDCXPB 518  
 WDCXPBNO (24) WDG 518  
 WDI 519  
 WDIEND (1C) WDI 519  
 WDIEPA (4) WDI 519  
 WDIESPDA (10) WDI 519  
 WDIESPIE (C) WDI 519  
 WDIESTAE (14) WDI 519  
 WDIESTDA (18) WDI 519  
 WDIGA (0) WDI 519  
 WDIIDA (8) WDI 519  
 WDL 520  
 WDSBBPSA 4 WDI 520  
 WDSBCHNG 4 WDI 520  
 WDSBFASA 4 WDI 520  
 WDSBPRST 4 WDI 520  
 WDSBPWC1 4 WDI 520  
 WDSBPWC2 4 WDI 520  
 WDSBPWE1 4 WDI 520  
 WDSBPWE2 4 WDI 520  
 WDSBRSV1 4 WDI 520  
 WDSBSOF 4 WDI 520  
 WDSBSON 4 WDI 520  
 WDSBSSR 4 WDI 520  
 WDSBSSW1 4 WDI 520  
 WDSBSSW2 4 WDI 520  
 WDSBSWE1 4 WDI 520  
 WDSBSWE2 4 WDI 520  
 WDSBTICK 4 WDI 520  
 WDSSEECBA (4) WDI 519  
 WDSSEND (20) WDI 519  
 WDSFLKM (18) WDI 519  
 WDSGLKM (1C) WDI 519  
 WDSIECBA (8) WDI 519  
 WDSLPTW 4 WDI 520  
 WDSLSTW 4 WDI 520  
 WDSPEVM (10) WDI 519  
 WDSREVM (14) WDI 519  
 WDSATYPE (0) WDI 519  
 WDSWEVM (C) WDI 519  
 web  
   web interface analyzer parms, WBTD 510  
   web interface converter parms, WBCDC 505  
   web interface template manager, WBTL 514  
 WFG 521  
 WFGASRBA (20) WFG 521  
 WFGCISIZ (8) WFG 521  
 WFGHARBA (C) WFG 521  
 WFGHURBA (14) WFG 521  
 WFG (BIT) WFG 521  
 WFGLORBA (10) WFG 521  
 WFGPACB (0) WFG 521  
 WFRPLLN (18) WFG 521  
 WFRSVPP (24) WFG 521  
 WFGSACB (4) WFG 521  
 WFGSMRBA (1C) WFG 521  
 WL (0) DUA 94  
 WL\_DCB\_PTR (1) DUA 94  
 WL\_PTR (20) DUA 93  
 WLGEND (64) WDL 520  
 WLGSA (0) WDL 520  
 WLGSAFCN 520  
 WLGSAFCN (8) WDL 520  
 WLGSA00 (14) WDL 521  
 WLGSA01 (18) WDL 521  
 WLGSA11 521  
 WLGSA12 (44) WDL 521  
 WLGSA14 (C) WDL 520  
 WLGSA15 (10) WDL 521  
 WLGSAREG (C) WDL 520  
 WLGSAREG (C) WDL 520  
 WLGTRACE (48) WDL 520  
 WMG 522  
 WMGCFKB (0) WMG 522  
 WMGCFLG1 (8) WMG 522  
 WMGCFMOV (BIT) WMG 522  
 WMGCFMQE (4) WMG 522  
 WMGCINST (24) WMG 522  
 WMGCOMM (0) WMG 522  
 WMGCPOST (20) WMG 522  
 WMGCWAIT (1C) WMG 522  
 WMGGET (0) WMG 523  
 WMGGETA (10) WMG 522  
 WMGGFASA (BIT) WMG 523  
 WMGGH (0) WMG 523  
 WMGGHA (18) WMG 523  
 WMGGHT (4) WMG 523  
 WMGGHTCL (BIT) WMG 523  
 WMGGHTN 2 WMG 524  
 WMGGHTNM (0) WMG 523  
 WMGGID (C) WMG 523  
 WMGGINDX (1C) WMG 523  
 WMGGINST (20) WMG 523  
 WMGGMTA (0) WMG 523  
 WMGGPOST (28) WMG 523  
 WMGGRESP (A) WMG 523  
 WMGGWAIT (24) WMG 523  
 WMGPB (0) WMG 523  
 WMGPCLCK (0) WMG 523  
 WMGPEND 523  
 WMGPID (14) WMG 522  
 WMGPMCEB (18) WMG 522  
 WMGPMTA (10) WMG 522  
 WMGPUT (0) WMG 522  
 WMGPUTA (C) WMG 522  
 WMGPUTQ (0) WMG 522  
 WMGQANCH (0) WMG 524  
 WMGQCLOF 4 WMG 524  
 WMGQCLON 4 WMG 524  
 WMGQCLSD (BIT) WMG 524  
 WMGQECB (8) WMG 524  
 WMGQFRST (0) WMG 524  
 WMGQLAST (4) WMG 524  
 WMGQSEL (C) WMG 524  
 WMGQRESP 524  
 WMGREND (50) WMG 523  
 WMGREQQ (0) WMG 523  
 WMGRID (24) WMG 523  
 WMGRINST (48) WMG 523  
 WMGRIVN (48) WMG 523  
 WMGRMAXC (22) WMG 523  
 WMGRMINC (20) WMG 523  
 WMGRQ (0) WMG 523  
 WMGRQA (50) WMG 523  
 WMGRQIST (0) WMG 523  
 WMGRQNTN 1 WMG 524  
 WMGRQOST (1) WMG 523  
 WMGRQR (0) WMG 523  
 WMGRQRA (14) WMG 522  
 WMGRQRSP 1 WMG 524  
 WMGRSPQ (10) WMG 523  
 WMGRVERN (4C) WMG 523  
 WMI 524  
 WMIG1EST 4 WMI 525  
 WMIG1GET 4 WMI 525  
 WMIG1INT 4 WMI 525  
 WMIMTBLD 4 WMI 525  
 WMIMTFMT 4 WMI 525  
 WMIMTGET 4 WMI 525  
 WMIMTPUT 4 WMI 525  
 WMIP1ESP 4 WMI 525  
 WMIP1EST 4 WMI 525  
 WMIP1INT 4 WMI 525  
 WMIP1PUT 4 WMI 525  
 WMIPCCA (4) WMI 524  
 WMIPCRSP 525  
 WMIPPEPA (4) WMI 525  
 WMIPGESP 4 WMI 525  
 WMIPGWRT 4 WMI 525  
 WMIPID (0) WMI 524  
 WMIPIDA (8) WMI 525  
 WMIPNPSW (8) WMI 525

WMIPOPTC (8) WMI 524  
WMIPQA (8) WMI 524  
WMIPQNAM (8) WMI 524  
WMIPRB (4) WMI 524  
WMIPRESP 524  
WMIPTGT (8) WMI 524  
WMIPTRSP 524  
WMIPWQE (4) WMI 524  
WMIQHENQ 4 WMI 525  
WMIQHINT 4 WMI 525  
WMIQHLOC 4 WMI 525  
WMIQHTRM 4 WMI 525  
WMIQSCMB 4 WMI 525  
WMIQSCMP 4 WMI 525  
WMIQSGN 4 WMI 525  
WMIQSTRM 4 WMI 525  
WMIR1ESP 4 WMI 525  
WMIR1EST 4 WMI 525  
WMIR1INT 4 WMI 525  
WMIR1RCV 4 WMI 525  
WMIR1REQ 4 WMI 525  
WMIR1RSP 4 WMI 525  
WMIRDGET 4 WMI 525  
WMIRDINT 4 WMI 525  
WMIWRHDN 4 WMI 525  
WMIWRINT 4 WMI 525  
WMIWRPUT 4 WMI 525  
WMM 526  
WMMAECEB 526  
WMMAEEND 526  
WMMAEOD 526  
WMMAFRST (8) WMM 526  
WMMAHASH (10) WMM 526  
WMMALAST (C) WMM 526  
WMMANEXT (0) WMM 526  
WMMAPOST 526  
WMMAQNAM (4) WMM 526  
WMME (0) WMM 526  
WMMECTL (0) WMM 526  
WMMEDATA (8) WMM 527  
WMMENEWR (4) WMM 526  
WMMEOLDR (0) WMM 526  
WMQ 527  
WMQB (0) WMQ 528  
WMQBNEXT (0) WMQ 528  
WMQECS (0) WMQ 527  
WMQECSWD 527  
WMQECTL (0) WMQ 527  
WMQEECB (10) WMQ 527  
WMQEEND (30) WMQ 527  
WMQEFATP (BIT) WMQ 527  
WMQEFCAN (BIT) WMQ 527  
WMQEFLGS (0) WMQ 527  
WMQENEWR (4) WMQ 527  
WMQEOLDR (0) WMQ 527  
WMQEPARM (18) WMQ 527  
WMQEPOST 527  
WMQEQA 527  
WMR 528  
WMRCIDF (0) WMR 529  
WMRCIDFL (2) WMR 529  
WMRCIDFO (0) WMR 529  
WMRCR (0) WMR 528  
WMRCRCNO (4) WMR 528  
WMRCREND (8) WMR 528  
WMRDATLN (2) WMR 528  
WMREND (10) WMR 528  
WMRINSTN (8) WMR 528  
WMRIVN (8) WMR 528  
WMRQNAME (C) WMR 528  
WMRRDF (0) WMR 529  
WMRRDFF (0) WMR 529  
WMRRDFL (1) WMR 529  
WMRRFLGS (1) WMR 528  
WMRSEQNO (4) WMR 528  
WMRTCNO 1 WMR 529  
WMRTDATA 1 WMR 529  
WMRTYPE (0) WMR 528  
WMRVERSN (C) WMR 528  
WMS 529  
WMSABEND 1 WMS 530  
WMSBUSY 1 WMS 530  
WMSCANCL 1 WMS 530  
WMSCHECK 1 WMS 530  
WMSCLOSD 1 WMS 530  
WMSCRUCL (BIT) WMS 529  
WMSDATAD (8) WMS 530  
WMSDATLN (E) WMS 530  
WMSDATSZ (C) WMS 530  
WMSDLERR 1 WMS 530  
WMSEND (18) WMS 530  
WMSEOD 1 WMS 530  
WMSEXCPN 1 WMS 530  
WMSFAIL 1 WMS 530  
WMSFMTER 1 WMS 530  
WMSFORCE (BIT) WMS 529  
WMSGMSG 4 WMS 530  
WMSINSTN (10) WMS 530  
WMSINVRC 1 WMS 530  
WMSIOER 1 WMS 530  
WMSIVN (10) WMS 530  
WMSNACTV 1 WMS 530  
WMSNODST 1 WMS 530  
WMSNORML 1 WMS 530  
WMSNOXRF 1 WMS 530  
WMSOVLAP 1 WMS 530  
WMSPPMSG 4 WMS 530  
WMSPREQ 4 WMS 530  
WMSPRSP 4 WMS 530  
WMSQNAME (14) WMS 530  
WMSRC 530  
WMSREASN (1) WMS 530  
WMSREQID (0) WMS 529  
WMSRESP (0) WMS 530  
WMSRETC (0) WMS 530  
WMSRQFL1 (4) WMS 529  
WMSRQFL2 529  
WMSSEQER 1 WMS 530  
WMSSENOF 1 WMS 530  
WMSVERSN (14) WMS 530  
WMT 531  
WMTCBUFA (8) WMT 531  
WMTCCNO (20) WMT 531  
WMTCECB (10) WMT 531  
WMTCFCHG (BIT) WMT 531  
WMTCFDBK (5) WMT 531  
WMTCFGLS 531  
WMTCFSAF (BIT) WMT 531  
WMTCFUWM (BIT) WMT 531  
WMTICIL (1E) WMT 531  
WMTICDFA (C) WMT 531  
WMTCMGSA (24) WMT 531  
WMTCOFF (1C) WMT 531  
WMTCRBA (14) WMT 531  
WMTCRDFA (18) WMT 531  
WMTCRPL (A8) WMT 531  
WMTCRSNC 531  
WMTCRTNC (5) WMT 531  
WMTCWQEF (18) WMT 531  
WMTG (0) WMT 532  
WMTGAWC (8) WMT 532  
WMTGBRC (0) WMT 532  
WMTGCCCA (14) WMT 532  
WMTGEND (1C) WMT 532  
WMTGFFMR (BIT) WMT 532  
WMTGFLGS (18) WMT 532  
WMTGFMOV (BIT) WMT 532  
WMTGRCNO (0) WMT 532  
WMTGRRBA (4) WMT 532  
WMTGSEQN (10) WMT 532  
WMTGWENO (8) WMT 532  
WMTGWRBA (C) WMT 532  
WMTG (0) WMT 531  
WMTPAWC (0) WMT 531  
WMTPCCCA (C) WMT 531  
WMTPCCNO (10) WMT 532  
WMTPEND (18) WMT 532  
WMTPFGLS (14) WMT 532  
WMTPFMDS (BIT) WMT 532  
WMTPFMOV (BIT) WMT 532  
WMTPMAXL 532  
WMTPSEQN (8) WMT 531  
WMTPWENO (0) WMT 531  
WMTPWWRBA (4) WMT 531  
WNF 532  
WNFABCC (8) WNF 533

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WNFD1X (BIT) WNF 532	WSAGQBSR (BIT) WSA 534
WNFD2X (BIT) WNF 533	WSAGRES 534
WNFDATA1 (8) WNF 533	WSAGRSTK (B) WSA 534
WNFDATA2 (C) WNF 533	WSAGSRFL (12) WSA 534
WNFDATAA (10) WNF 533	WSAGSSVR (BIT) WSA 534
WNFDATAL (14) WNF 533	WSAGSSWR (BIT) WSA 534
WNFDAX (BIT) WNF 533	WSAGSWCM (28) WSA 534
WNFEACTV 1 WNF 533	WSAGVRQD (9) WSA 534
WNFECKAS 1 WNF 533	WSAGWCEP (24) WSA 534
WNFECKAT 1 WNF 533	WSAGWCES (2C) WSA 534
WNFECKDC 1 WNF 533	WSAGWCP (20) WSA 534
WNFEFAIL 1 WNF 533	WSAGWCS (28) WSA 534
WNFEHBOD 1 WNF 533	WSAGWEP (18) WSA 534
WNFEHBRS 1 WNF 533	WSAGWES (1C) WSA 534
WNFEICPA 1 WNF 533	WSAGWRQD (8) WSA 534
WNFEIHRC 1 WNF 533	WSAGWSAD (38) WSA 535
WNFEINVL 1 WNF 533	WSAGWSTK (A) WSA 534
WNFEND (18) WNF 533	WSAR (0) WSA 535
WNFENEWA 1 WNF 533	WSARINST (C) WSA 535
WNFENEWQ 1 WNF 533	WSARIV (0) WSA 535
WNFEPRMT 1 WNF 533	WSARIVI 535
WNFEREQM 1 WNF 533	WSARIVL (BIT) WSA 535
WNFERQTK 1 WNF 533	WSARIVRC (4) WSA 535
WNFERSPM 1 WNF 533	WSARL 535
WNFERSPX 1 WNF 533	WSARM (4) WSA 535
WNFESOF A 1 WNF 533	WSARMBRC (4) WSA 535
WNFESOFN 1 WNF 533	WSARMCNO (4) WSA 535
WNFESON 1 WNF 533	WSARMRBA (8) WSA 535
WNFETKFL 1 WNF 533	WSARQR (0) WSA 536
WNFEVENT (4) WNF 532	WSARQRL (BIT) WSA 536
WNFEVNTM (5) WNF 532	WSARQROF 535
WNFHBLAT (8) WNF 533	WSARREQ (0) WSA 536
WNFINDEX 533	WSARRSP 536
WNFINST 533	WSARTM (0) WSA 536
WNFIX (BIT) WNF 532	WSARTMI 536
WNFMDCEC (BIT) WNF 532	WSARTMIV (8) WSA 536
WNFMICPA (BIT) WNF 532	WSARTML (BIT) WSA 536
WNFMSYSD (BIT) WNF 532	WSARTMLN 536
WNFQNAME (C) WNF 533	WSARTMSG (10) WSA 536
WNFRSV1 (0) WNF 532	WSARTMSI (4) WSA 536
WNFVERN 533	WSARTMV 536
WNFXBITS 532	WSAS (0) WSA 535
work	WSASACT (BIT) WSA 535
BMS work area, OSPWA 251	WSASBKUP (BIT) WSA 535
deferred work element, DWE 102	WSASHBC (40) WSA 535
fc VSAM work area, VSWA 502	WSASHBI (3C) WSA 535
remote install work element, TCRWE 358	WSASI#V# 535
skp work queue element, SKW 308	WSASIHGD (14C) WSA 535
TCT transaction work area, TCTWA 414	WSASIHGL 535
VTAM autoinstall work element, TCTWE 415	WSASIHLD (48) WSA 535
XRF work element definition, XRW 577	WSASIHLL 535
WORK3 (90) XCTRC 557	WSASINCP (BIT) WSA 535
WORK4 (A5) XCTRC 557	WSASINST (4) WSA 535
WORK5 (A0) XCTRC 557	WSASIVN (4) WSA 535
WORK8 (80) XCTRC 557	WSASL (14C) WSA 535
WORK9 (97) XCTRC 557	WSASM (C) WSA 535
working	WSASMAWC (10) WSA 535
global trap working storage, TRGTW 459	WSASMCID (C) WSA 535
workspace	WSASMCNO (10) WSA 535
XRF LIFO workspace, WDL 520	WSASMRBA (14) WSA 535
WS2 545	WSASMSQN (18) WSA 535
WS3 546	WSASMSVI (1C) WSA 535
WSA 534	WSASSNAM (30) WSA 535
WSAD (0) WSA 535	WSASSOFA (BIT) WSA 535
WSADIDL (8) WSA 535	WSASSOFN (BIT) WSA 535
WSADL (BIT) WSA 535	WSASSON (BIT) WSA 535
WSADPB (0) WSA 535	WSASSPLX (28) WSA 535
WSADPOFF (A) WSA 535	WSASST1 (0) WSA 535
WSADPSA (0) WSA 535	WSASST2 (1) WSA 535
WSADSHRL (6) WSA 535	WSASST3 (2) WSA 535
WSADSRCP (C) WSA 535	WSASSTOK (38) WSA 535
WSADTOTL (4) WSA 535	WSASV1 (0) WSA 536
WSAG 534	WSASVERN (8) WSA 535
WSAGBN (C) WSA 534	WSASXCFA (BIT) WSA 535
WSAGHDL (BIT) WSA 535	WSC 537
WSAGID (0) WSA 534	WSCKD (0) WSC 537
WSAGINDX (E) WSA 534	WSCKDL (BIT) WSC 537
WSAGP (38) WSA 535	WSJASID (3C) WSM 539
WSAGPAIV 535	WSJATIME (20) WSM 539
WSAGPRST (13) WSA 534	WSJCANNM (34) WSM 539
WSAGPSVR (BIT) WSA 534	WSJDESC (0) WSM 538
WSAGPSWR (BIT) WSA 534	WSJEYECA (48) WSM 539
WSAGPWCM (20) WSA 534	WSJL (BIT) WSM 539

WSJLVER1 (BIT) WSM 539  
WSJMVSID (28) WSM 539  
WSJMVSJ (24) WSM 539  
WSJOBID (10) WSM 538  
WSJOBNAM (8) WSM 538  
WSJOBNID (8) WSM 538  
WSJOBSTI (8) WSM 539  
WSJRSJOB (BIT) WSM 539  
WSJRSSTC (BIT) WSM 539  
WSJRST (48) WSM 539  
WSJRSTYP (4B) WSM 539  
WSJS1END (BIT) WSM 538  
WSJS2END (BIT) WSM 539  
WSJS3END (BIT) WSM 539  
WSJS4END 539  
WSJSAPPL (0) WSM 538  
WSJSDATE (1C) WSM 539  
WSJSDET (58) WSM 539  
WSJSIND (3E) WSM 539  
WSJSNAM (58) WSM 539  
WSJSNTOD (40) WSM 539  
WSJSPLX (50) WSM 539  
WSJSSNAM (24) WSM 539  
WSJSTAT (3F) WSM 539  
WSJSTIME (18) WSM 539  
WSJSTOK (60) WSM 539  
WSJXCFA (BIT) WSM 539  
WSJXCFD (50) WSM 539  
WSM 538  
WSN 540  
WSR 541  
WSS 542  
WSSCOMLN (BIT) WSS 542  
WSSCOMND (BIT) WSS 542  
WSSFSOFF (BIT) WSS 543  
WSSFSON (BIT) WSS 543  
WSSFTKVR (BIT) WSS 543  
WSSFUNC (0) WSS 542  
WSSFUNCM (4) WSS 542  
WSSGAPPL (0) WSS 542  
WSSHBINT (20) WSS 542  
WSSIHEPA (18) WSS 542  
WSSIHPRM (1C) WSS 542  
WSSINST 543  
WSSJSID (28) WSS 542  
WSSJTMTL (8) WSS 543  
WSSMSOFA (BIT) WSS 543  
WSSMSOFN (BIT) WSS 543  
WSSMSONA (BIT) WSS 543  
WSSMSONB (BIT) WSS 543  
WSSMTKVN (BIT) WSS 543  
WSSMTKVP (BIT) WSS 543  
WSSMVID (24) WSS 542  
WSSNFEPFA (10) WSS 542  
WSSNFPRM (14) WSS 542  
WSSREASC (7) WSS 542  
WSSRESP (6) WSS 542  
WSSSAPPL (8) WSS 542  
WSSSFMBL (C) WSS 542  
WSSSFMMMA 542  
WSSSFMML (E) WSS 542  
WSSSIND (40) WSS 542  
WSSSNAM (34) WSS 542  
WSSSOFDS (0) WSS 542  
WSSSOFLN (BIT) WSS 542  
WSSSOFND (BIT) WSS 542  
WSSSONDS (0) WSS 542  
WSSSONLN (BIT) WSS 542  
WSSSONND (BIT) WSS 542  
WSSSPLX (2C) WSS 542  
WSSSTOK (3C) WSS 542  
WSSTKVD (0) WSS 543  
WSSTKVLN (BIT) WSS 543  
WSSTKVMA (C) WSS 543  
WSSTKVML 543  
WSSTKVND (BIT) WSS 543  
WSSUNIQA (8) WSS 542  
WSSUNIQL (C) WSS 542  
WSSVER 543  
WSSXCFA (BIT) WSS 542  
WST 543  
WSV1ACT (BIT) WSA 536  
WSV1BKUP (BIT) WSA 536  
WSV1HBC (2C) WSA 536  
WSV1HBI (28) WSA 536  
WSV1H#V# 536  
WSV1IHGD (138) WSA 536  
WSV1IHGL 536  
WSV1IHLD (34) WSA 536  
WSV1IHLL 536  
WSV1INCP (BIT) WSA 536  
WSV1INST (4) WSA 536  
WSV1IVN (4) WSA 536  
WSV1L (138) WSA 536  
WSV1M (C) WSA 536  
WSV1MAWC (10) WSA 536  
WSV1MCID (C) WSA 536  
WSV1MCNO (10) WSA 536  
WSV1MRBA (14) WSA 536  
WSV1MSQN (18) WSA 536  
WSV1MVISI (1C) WSA 536  
WSV1SOFA (BIT) WSA 536  
WSV1SOFN (BIT) WSA 536  
WSV1SON (BIT) WSA 536  
WSV1ST1 (0) WSA 536  
WSV1ST2 (1) WSA 536  
WSV1VERN (8) WSA 536  
WSX 544  
WSXEND (BIT) WSX 544  
WSXIHEPA (8) WSX 544  
WSXIHEPM (8) WSX 544  
WSXIHPRM (C) WSX 544  
WSXLEN (BIT) WSX 544  
WSXNFEPFA (0) WSX 544  
WSXNFEPM (0) WSX 544  
WSXNFPRM (4) WSX 544  
WTA 547  
WTAARGS 547  
WTACLLEN (BIT) WTA 547  
WTADXLLEN (BIT) WTA 548  
WTAFLC (BIT) WTA 548  
WTAFDX (BIT) WTA 548  
WTAFIS (BIT) WTA 548  
WTAFJS (BIT) WTA 548  
WTAFMU (BIT) WTA 548  
WTAFOC (BIT) WTA 548  
WTAFSC (BIT) WTA 548  
WTAFT (BIT) WTA 548  
WTAFTI (BIT) WTA 548  
WTAFUNC (0) WTA 547  
WTAFAVA (BIT) WTA 548  
WTAFAVC (BIT) WTA 548  
WTAGLOCL (BIT) WTA 548  
WTAGSLEN (BIT) WTA 548  
WTAGSNAM (4) WTA 548  
WTAGSPRT (BIT) WTA 548  
WTAGSTAT (10) WTA 548  
WTAGSTOK (C) WTA 548  
WTAICIND (4) WTA 547  
WTAICISA (BIT) WTA 547  
WTAICMVS (8) WTA 547  
WTAICTOD (C) WTA 547  
WTAIJESI 547  
WTAIJLEN 547  
WTAIJOBI (18) WTA 547  
WTAIJOB (10) WTA 547  
WTAILOCL (BIT) WTA 547  
WTAISCMD (6) WTA 547  
WTAISNAM (20) WTA 547  
WTAISPRT (BIT) WTA 547  
WTAISSID (44) WTA 547  
WTAISTAT (2C) WTA 547  
WTAISTOK (28) WTA 547  
WTAISYSA (BIT) WTA 547  
WTAITASI (3C) WTA 547  
WTAITCAN (30) WTA 547  
WTAITJES (38) WTA 547  
WTALLEN (BIT) WTA 548  
WTAMOD (1) WTA 547  
WTAMULEN (BIT) WTA 548  
WTAOCAD (4) WTA 548  
WTAOCC (8) WTA 548  
WTAOCCLE (BIT) WTA 548  
WTAOCCMD (4) WTA 548  
WTARCO (BIT) WTA 548  
WTARCCF (BIT) WTA 549

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WTARCF	(BIT)	WTA	548	WTRPRITP	(0)	WTR	551
WTARCR1	(0)	WTA	549	WTRPTCLK	1	WTR	553
WTARCSF	(BIT)	WTA	549	WTRPTDSP	1	WTR	553
WTAREQ	(0)	WTA	547	WTRPTLNK	1	WTR	553
WTARIAF	(BIT)	WTA	548	WTRPTMMR	1	WTR	553
WTARIAS	(BIT)	WTA	548	WTRPTMMV	1	WTR	553
WTARIDG	(BIT)	WTA	548	WTRPTRSV	1	WTR	553
WTARIDV	(BIT)	WTA	548	WTRSTATT	1	WTR	553
WTARIIA	(BIT)	WTA	548	WTRSTCAL	1	WTR	553
WTARIMB	(BIT)	WTA	549	WTRSTDET	1	WTR	553
WTARIMC	(BIT)	WTA	549	WTRSTDSP	1	WTR	553
WTARIMS	(BIT)	WTA	549	WTRSTEND	1	WTR	553
WTARIMV	(BIT)	WTA	549	WTRSTENQ	1	WTR	553
WTARISD	(BIT)	WTA	548	WTRSTOSR	1	WTR	553
WTARITF	(BIT)	WTA	548	WTRSTOSW	1	WTR	553
WTARJJDE	(BIT)	WTA	549	WTRSTRPI	1	WTR	553
WTARJNU	(BIT)	WTA	549	WTRSTRPO	1	WTR	553
WTARJNX	(BIT)	WTA	548	WTRSTRQI	1	WTR	553
WTARJSAT	(BIT)	WTA	549	WTRSTRQO	1	WTR	553
WTARJSE	(BIT)	WTA	549	WTRSTRTN	1	WTR	553
WTARJSSG	(BIT)	WTA	549	WTRSTVGT	1	WTR	553
WTARJSTO	(BIT)	WTA	549	WTRSTVPT	1	WTR	553
WTARJSX	(BIT)	WTA	548	WTRSTVRP	1	WTR	553
WTARJXF	(BIT)	WTA	549	WTRSTWRT	1	WTR	553
WTARONA	(BIT)	WTA	549	WTRSTXWE	1	WTR	553
WTARPAF	(BIT)	WTA	549	WTRSTXWL	1	WTR	553
WTARPAS	(BIT)	WTA	549	WTRSUBTP	(1)	WTR	551
WTARSJNA	(BIT)	WTA	549	WTRTYPE	(0)	WTR	551
WTARSJNC	(BIT)	WTA	549	WTRUDATA	(0)	WTR	551
WTARSJND	(0)	WTA	549	WTRUSFLD	(4)	WTR	551
WTARSJNG	(BIT)	WTA	549	WTRX01	(0)	WTR	551
WTARSJNJ	(BIT)	WTA	549	WTRX01LA	(8)	WTR	551
WTARSJNS	(BIT)	WTA	549	WTRX01NM	(0)	WTR	551
WTARSJNT	(BIT)	WTA	549	WTRX02	(0)	WTR	552
WTARSJSE	(1)	WTA	549	WTRX021	(0)	WTR	552
WTARSLOG	(BIT)	WTA	549	WTRX022	(4)	WTR	552
WTARSNFN	(BIT)	WTA	549	WTRX023	(8)	WTR	552
WTARSOK	(BIT)	WTA	549	WTRX024	(C)	WTR	552
WTARSSRC	(0)	WTA	549	WTRX025	(10)	WTR	552
WTARSVND	(2)	WTA	549	WTRX026	(14)	WTR	552
WTARSVNJ	(BIT)	WTA	549	WTRX03	(0)	WTR	552
WTARSVNM	(BIT)	WTA	549	WTRX03FB	552		
WTARSVNS	(BIT)	WTA	549	WTRX03RB	(4)	WTR	552
WTARSVSE	(3)	WTA	549	WTRX03RP	(0)	WTR	552
WTARVAF	(BIT)	WTA	549	WTRX04	(0)	WTR	552
WTARVAS	(BIT)	WTA	549	WTRX041	(0)	WTR	552
WTARVJF	(BIT)	WTA	549	WTRX042	(4)	WTR	552
WTARVMF	(BIT)	WTA	549	WTRX043	(8)	WTR	552
WTARVNF	(BIT)	WTA	549	WTRX044	(C)	WTR	552
WTARVSF	(BIT)	WTA	549	WTRX045	(10)	WTR	552
WTARXNX	(BIT)	WTA	548	WTRX046	(14)	WTR	553
WTASCERE	(BIT)	WTA	548	WTRX046R	553		
WTASCLEN	(BIT)	WTA	547	WTRX04IV	(0)	WTR	552
WTASCSWT	(BIT)	WTA	548	WTRXFE	(0)	WTR	553
WTATECM	(BIT)	WTA	548	WTRXFECK	(0)	WTR	553
WTATELEN	(BIT)	WTA	547	WTRXFENM	(C)	WTR	553
WTATICM	(BIT)	WTA	548	WTRXFEOM	(8)	WTR	553
WTATICS	(BIT)	WTA	548	WTRXFEPE	(10)	WTR	553
WTATILEN	(BIT)	WTA	547	WTRXFF	(0)	WTR	553
WTATIPC	(BIT)	WTA	548	WTRXPBNO	(2)	WTR	551
WTATPCS	(BIT)	WTA	548	WXB	554		
WTAVALEN	(BIT)	WTA	547	WXBBASE	(0)	WXB	554
WTAVANCN	(BIT)	WTA	548	WXBCHAIN	(0)	WXB	554
WTAVANSS	(BIT)	WTA	548	WXBICICS	(18)	WXB	555
WTAVCLEN	(BIT)	WTA	547	WXBSCSA	(1C)	WXB	555
WTG	550			WXBSTAT	(0)	WXB	554
WTG1647	(30)	WTG	550	WXBDSV00	(30)	WXB	554
WTGAHDNG	(0)	WTG	550	WXBDSV01	(34)	WXB	554
WTGASIZE	4	WTG	550	WXBDSV02	(38)	WXB	554
WTGATEXT	16	WTG	550	WXBDSV03	(3C)	WXB	554
WTGCLOCK	(20)	WTG	550	WXBDSV04	(40)	WXB	554
WTGCOFY	(30)	WTG	550	WXBDSV05	(44)	WXB	554
WTGCSTEP	(38)	WTG	550	WXBDSV06	(48)	WXB	554
WTGEND	(14)	WTG	550	WXBDSV07	(4C)	WXB	554
WTGENTRY	(3C)	WTG	550	WXBDSV08	(50)	WXB	554
WTGFLAGS	(1C)	WTG	550	WXBDSV09	(54)	WXB	554
WTGFWRAP	(BIT)	WTG	550	WXBDSV10	(58)	WXB	554
WTGNEXT	(18)	WTG	550	WXBDSV11	(5C)	WXB	554
WTGSTART	(10)	WTG	550	WXBDSV12	(60)	WXB	554
WTR	551			WXBDSV13	(64)	WXB	554
WTRCLOCK	(1C)	WTR	551	WXBDSV14	(68)	WXB	554
WTREND	(20)	WTR	551	WXBDSV15	(6C)	WXB	554
WTRENTY	(0)	WTR	551	WXBDSVA	(30)	WXB	554

WXBEECBA (18) WXB 554  
WXBESFDA (78) WXB 555  
WXBESPIE (74) WXB 555  
WXBESTAE (7C) WXB 555  
WXBESTDA (80) WXB 555  
WXBFWAIT (BIT) WXB 554  
WXBFXRF (BIT) WXB 554  
WXBGLBLA (C) WXB 554  
WXBHLKM (2C) WXB 554  
WXBIDA (70) WXB 555  
WXBIECBA (1C) WXB 554  
WXBISB 555  
WXBLA (8) WXB 554  
WXBBLKA 554  
WXBLED (18) WXB 554  
WXBPEVM (24) WXB 554  
WXBPLGS (12) WXB 554  
WXBPNDSF 2 WXB 555  
WXBPNSRP 2 WXB 555  
WXBRLKM (28) WXB 554  
WXBSSIZE (4) WXB 554  
WXBTCBA (18) WXB 555  
WXBWEVM (20) WXB 554  
WXBXPBNO (10) WXB 554  
WXL 555  
WXLALHN (C) WXL 556  
WXLHDR (0) WXL 556  
WXLHEND (10) WXL 556  
WXLHID (0) WXL 556  
WXLHPLA (8) WXL 556  
WXLBOS (4) WXL 556  
WXLEND (10) WXL 556  
WXL EOS (8) WXL 556  
WXLNAB (C) WXL 556  
WXLPREV (0) WXL 556

## X

X\_NOT\_OPEN (BIT) DUA 90  
X\_OPEN\_ERROR (BIT) DUA 89  
X\_PARTIAL (BIT) DUA 89  
XAKUSER (BIT) UEPAR 475, 496  
XALCAID (BIT) UEPAR 475, 496  
XALTENF (BIT) UEPAR 475, 496  
XBADEACT (BIT) UEPAR 475, 496  
XBFEFL (BIT) UEPAR 495  
XBFEFO (BIT) UEPAR 495  
XBFEFE (BIT) UEPAR 495  
XBFERU (BIT) UEPAR 495  
XBFEWR (BIT) UEPAR 495  
XBMIN (BIT) UEPAR 475, 496  
XBMOU (BIT) UEPAR 475, 496  
XCDMP\_FOOTPRINTS (B4) XCTRC 557  
XCEIP\_ENTRY 2 XCTRC 560  
XCEIP\_ESTAE\_INVOKED 2 XCTRC 560  
XCEIP\_ESTAE\_SETUP\_ERROR 2 XCTRC 560  
XCEIP\_EXIT 2 XCTRC 560  
XCEIP\_INV\_ANAME\_ON\_INIT 2 XCTRC 560  
XCEIP\_INV\_CTYPE\_ON\_ALLOC 2 XCTRC 560  
XCEIP\_INV\_CTYPE\_ON\_CLOSE 2 XCTRC 560  
XCEIP\_INV\_CTYPE\_ON\_DEALL 2 XCTRC 561  
XCEIP\_INV\_CTYPE\_ON\_DPL 2 XCTRC 560  
XCEIP\_INV\_CTYPE\_ON\_INIT 2 XCTRC 560  
XCEIP\_INV\_CTYPE\_ON\_OPEN 2 XCTRC 560  
XCEIP\_INV\_PTOKEN\_ON\_CLOSE 2 XCTRC 561  
XCEIP\_INV\_PTOKEN\_ON\_DEALL 2 XCTRC 561  
XCEIP\_INV\_PTOKEN\_ON\_DPL 2 XCTRC 560  
XCEIP\_INV\_PTOKEN\_ON\_OPEN 2 XCTRC 560  
XCEIP\_INV\_USERID 2 XCTRC 560  
XCEIP\_INV\_UTOKEN\_ON\_ALLOC 2 XCTRC 560  
XCEIP\_INV\_UTOKEN\_ON\_CLOSE 2 XCTRC 560  
XCEIP\_INV\_UTOKEN\_ON\_DEALL 2 XCTRC 561  
XCEIP\_INV\_UTOKEN\_ON\_DPL 2 XCTRC 560  
XCEIP\_INV\_UTOKEN\_ON\_OPEN 2 XCTRC 560  
XCEIP\_INV\_VNUM\_ON\_ALLOC 2 XCTRC 560  
XCEIP\_INV\_VNUM\_ON\_CLOSE 2 XCTRC 560  
XCEIP\_INV\_VNUM\_ON\_DEALL 2 XCTRC 561  
XCEIP\_INV\_VNUM\_ON\_DPL 2 XCTRC 560  
XCEIP\_INV\_VNUM\_ON\_INIT 2 XCTRC 560  
XCEIP\_INV\_VNUM\_ON\_OPEN 2 XCTRC 560  
XCEIP\_PIPE\_MUST\_CLOSE\_ON\_DPL 2 XCTRC 560  
XCEIP\_PIPE\_NOT\_CLOSED\_ON\_DEALL 2 XCTRC 561  
XCEIP\_PIPE\_NOT\_OPEN\_ON\_DPL 2 XCTRC 560  
XCEIP\_RETRYING 2 XCTRC 561  
XCEIP\_SURROGATE\_CHK\_FAIL\_ON\_DPL 2 XCTRC 561  
XCGUR\_ENTRY 2 XCTRC 561  
XCGUR\_EXIT 2 XCTRC 561  
XCGUR\_GETMAIN\_ERR 2 XCTRC 561  
XCGUR\_POST\_SVC 2 XCTRC 561  
XCGUR\_PRE\_SVC 2 XCTRC 561  
XCGUR\_RRS\_ERROR 2 XCTRC 561  
XCGUR\_RRS\_NOT\_SUPPORTED 2 XCTRC 561  
XCGUR\_SVC\_EXCEPTION 2 XCTRC 561  
XCOMROOT (0) EICD1 117  
XCPRH\_ABORT\_RECEIVED 2 XCTRC 559  
XCPRH\_ENTRY 2 XCTRC 560  
XCPRH\_ESTAE\_INVOKED 2 XCTRC 560  
XCPRH\_ESTAE\_SETUP\_FAIL 2 XCTRC 560  
XCPRH\_EXIT 2 XCTRC 560  
XCPRH\_INCORRECT\_IRP\_LVL 2 XCTRC 560  
XCPRH\_INCORRECT\_SVC\_LVL 2 XCTRC 560  
XCPRH\_INVALID\_APPL\_NAME 2 XCTRC 559  
XCPRH\_INVALID\_CICS\_RELEASE 2 XCTRC 559  
XCPRH\_INVALID\_CONNECTION 2 XCTRC 559  
XCPRH\_INVALID\_PIPE\_TOKEN 2 XCTRC 559  
XCPRH\_INVALID\_TRANSID 2 XCTRC 559  
XCPRH\_INVALID\_UOWID 2 XCTRC 559  
XCPRH\_INVALID\_USERID 2 XCTRC 559  
XCPRH\_INVREQ 2 XCTRC 560  
XCPRH\_IRP\_BAD\_IOAREA 2 XCTRC 559  
XCPRH\_IRP\_CONN 2 XCTRC 560  
XCPRH\_IRP\_CONNECT\_FAIL 2 XCTRC 559  
XCPRH\_IRP\_DATA 2 XCTRC 560  
XCPRH\_IRP\_DISC 2 XCTRC 560  
XCPRH\_IRP\_DISC\_FAIL 2 XCTRC 559  
XCPRH\_IRP\_IOAREA\_FM\_ERR 2 XCTRC 559  
XCPRH\_IRP\_IOAREA\_GM\_ERR 2 XCTRC 559  
XCPRH\_IRP\_LOGOFF 2 XCTRC 560  
XCPRH\_IRP\_LOGOFF\_FAILED 2 XCTRC 559  
XCPRH\_IRP\_LOGON 2 XCTRC 560  
XCPRH\_IRP\_LOGON\_FAILURE 2 XCTRC 559  
XCPRH\_IRP\_NEG\_RESPONSE 2 XCTRC 559  
XCPRH\_IRP\_NULL\_DATA 2 XCTRC 559  
XCPRH\_IRP\_PROTOCOL\_ERR 2 XCTRC 559  
XCPRH\_IRP\_SWITCH 2 XCTRC 560  
XCPRH\_IRP\_SWITCH\_DATA 2 XCTRC 560  
XCPRH\_IRP\_SWITCH\_PULL\_ERR 2 XCTRC 559  
XCPRH\_LENGERR 2 XCTRC 560  
XCPRH\_NO\_CICS\_IRC\_STARTED 2 XCTRC 559  
XCPRH\_NO\_CICS\_ON\_DPL\_1 2 XCTRC 559  
XCPRH\_NO\_CICS\_ON\_DPL\_2 2 XCTRC 559  
XCPRH\_NO\_CICS\_ON\_DPL\_3 2 XCTRC 559  
XCPRH\_NO\_CICS\_ON\_OPEN 2 XCTRC 559  
XCPRH\_NO\_PIPE 2 XCTRC 559  
XCPRH\_NOTAUTH 2 XCTRC 560  
XCPRH\_PG MIDERR 2 XCTRC 560  
XCPRH\_PIPE\_ALREADY\_CLOSED 2 XCTRC 559  
XCPRH\_PIPE\_ALREADY\_OPEN 2 XCTRC 559  
XCPRH\_PIPE\_MUST\_CLOSE 2 XCTRC 559  
XCPRH\_PIPE\_NOT\_CLOSED 2 XCTRC 559  
XCPRH\_PIPE\_NOT\_OPEN 2 XCTRC 559  
XCPRH\_PIPE\_RECOVERY\_FAILURE 2 XCTRC 559  
XCPRH\_POST\_RACROUTE 2 XCTRC 560  
XCPRH\_POST\_URM 2 XCTRC 560  
XCPRH\_PRE\_RACROUTE 2 XCTRC 560  
XCPRH\_PRE\_URM 2 XCTRC 560  
XCPRH\_ROLDBACK 2 XCTRC 560  
XCPRH\_SERVER\_ABENDED 2 XCTRC 559  
XCPRH\_SERVER\_PROTOCOL\_ERR 2 XCTRC 560  
XCPRH\_SERVER\_TERMINATED 2 XCTRC 559  
XCPRH\_SSL\_VERIFY\_FAILED 2 XCTRC 559  
XCPRH\_STIMER\_CANCEL\_FAIL 2 XCTRC 560  
XCPRH\_STIMER\_SETUP\_FAIL 2 XCTRC 560  
XCPRH\_SURROGATE\_CHECK\_FAILED 2 XCTRC 559  
XCPRH\_SVC\_CALL\_FAILURE 2 XCTRC 559  
XCPRH\_SYSIDER 2 XCTRC 560  
XCPRH\_TERMERR 2 XCTRC 560  
XCPRH\_TIMEDOUT 2 XCTRC 560  
XCPRH\_TRANSFORM\_1\_ERROR 2 XCTRC 559  
XCPRH\_TRANSFORM\_4\_ERR 2 XCTRC 559  
XCPRH\_VERIFY\_BLOCK\_FM\_ERROR 2 XCTRC 559  
XCPRH\_VERIFY\_BLOCK\_GM\_ERROR 2 XCTRC 559  
XCPRH\_XCP\_FM\_ERR 2 XCTRC 559  
XCPRH\_XCPIPE\_GM\_ERROR 2 XCTRC 559  
XCPRH\_XCUSER\_GM\_ERROR 2 XCTRC 559

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XCPRH\_XFRASSTG1\_FM\_ERR 2 XCTRC 559  
 XCSVC\_CODEP (70) XCTRC 557  
 XCSVC\_IDP (74) XCTRC 557  
 XCSVC\_PLIST (70) XCTRC 557  
 XCSVC\_TCBP (7C) XCTRC 557  
 XCSVC\_USERP (78) XCTRC 557  
 XCTRA\_CURTA (4) XCTRC 557  
 XCTRA\_DISA 1 XCTRC 559  
 XCTRA\_DUMP 1 XCTRC 559  
 XCTRA\_FLGSA (0) XCTRC 557  
 XCTRA\_FTRE 1 XCTRC 559  
 XCTRA\_PLIST (0) XCTRC 557  
 XCTRA\_PLIST\_END 558  
 XCTRA\_REQUESTED\_ENTRY 2 XCTRC 560  
 XCTRA\_RSAA (38) XCTRC 558  
 XCTRA\_SKIP 1 XCTRC 559  
 XCTRA\_TRAD1A (C) XCTRC 558  
 XCTRA\_TRAD1L (10) XCTRC 558  
 XCTRA\_TRAD2A (14) XCTRC 558  
 XCTRA\_TRAD2L (18) XCTRC 558  
 XCTRA\_TRAD3A (1C) XCTRC 558  
 XCTRA\_TRAD3L (20) XCTRC 558  
 XCTRA\_TRDAT (C) XCTRC 558  
 XCTRA\_WORKA (8) XCTRC 558  
 XCTRA\_XCEIP\_WAA (34) XCTRC 558  
 XCTRA\_XCGLOBALA (24) XCTRC 558  
 XCTRA\_XCPIPEA (2C) XCTRC 558  
 XCTRA\_XCPRH\_WAA (30) XCTRC 558  
 XCTRA\_XCUSERA (28) XCTRC 558  
 XCTRC 556  
 XCTRI\_GTF\_BUFFER\_GM\_ERROR 2 XCTRC 560  
 XCTRI\_TIME\_WA\_GM\_ERROR 2 XCTRC 560  
 XCTRI\_TRA\_GM\_ERROR 2 XCTRC 560  
 XCTRI\_TRACE\_TABLE\_GM\_ERROR 2 XCTRC 560  
 XCTRI\_TRAP\_WA\_GM\_ERROR 2 XCTRC 560  
 XCTRL (0) XCTRC 556  
 XCTRL\_MSG (170) XCTRC 557  
 XCTRL\_MSG\_0 (172) XCTRC 557  
 XCTRL\_MSG\_LEN (170) XCTRC 557  
 XCTRL\_MSG\_TEXT (174) XCTRC 557  
 XCTRL\_MSG\_WTO\_PARAMS (1F0) XCTRC 557  
 XCTRL\_SYMP\_STR (20A) XCTRC 557  
 XCTRL\_SYMP\_STR\_TPT (212) XCTRC 557  
 XCTRL\_SYMP\_STR\_USER (20A) XCTRC 557  
 XCTRP\_OVERLENGTH\_ENTRY 2 XCTRC 560  
 XD\_CLOSED 0 DUA 94  
 XD\_ECB\_ERROR (D8) DUA 89  
 XD\_FLAGS 90  
 XD\_MVCL\_ERR (BIT) DUA 90  
 XD\_OPEN 0 DUA 94  
 XDLIPOST (BIT) UEPAR 475, 496  
 XDLIPRE (BIT) UEPAR 475, 496  
 XDSAWT (BIT) UEPAR 474, 495  
 XDSBWT (BIT) UEPAR 474, 495  
 XDTAD (BIT) UEPAR 475, 496  
 XDTLC (BIT) UEPAR 475, 496  
 XDTRD (BIT) UEPAR 475, 496  
 XDUCLSE (BIT) UEPAR 474, 495  
 XDUCLSE\_ACTIVE (BIT) DUA 90  
 XDUCLSE\_ACTIVE\_NO 0 DUA 94  
 XDUCLSE\_ACTIVE\_YES 0 DUA 94  
 XDUOUT (BIT) UEPAR 474, 495  
 XDUOUT\_ACTIVE (BIT) DUA 90  
 XDUOUT\_ACTIVE\_NO 0 DUA 94  
 XDUOUT\_ACTIVE\_YES 0 DUA 94  
 XDUOUT\_XD\_ABTERM 1 DUA 94  
 XDUOUT\_XD\_ACT 1 DUA 94  
 XDUOUT\_XD\_INACT 1 DUA 94  
 XDUOUT\_XD\_RESTART 1 DUA 94  
 XDUREQ (BIT) UEPAR 474, 495  
 XDUREQ\_ACTIVE (BIT) DUA 90  
 XDUREQ\_ACTIVE\_NO 0 DUA 94  
 XDUREQ\_ACTIVE\_YES 0 DUA 94  
 XDUREQC (BIT) UEPAR 475, 496  
 XDUREQC\_ACTIVE (BIT) DUA 90  
 XDXDF\_ENTRY 2 DUA 96  
 XDXDF\_EXIT 2 DUA 96  
 XDXDF\_RECOVERY 2 DUA 96  
 XEIIIN (BIT) UEPAR 475, 496  
 XEIOUT (BIT) UEPAR 475, 496  
 XEISPIN (BIT) UEPAR 475, 496  
 XEISPOUT (BIT) UEPAR 475, 496  
 XFAINTU (BIT) UEPAR 475, 496  
 XFCAREQ (BIT) UEPAR 475, 496  
 XFCAREQC (BIT) UEPAR 475, 496  
 XFCBFAIL (BIT) UEPAR 475, 496  
 XFCBOUT (BIT) UEPAR 475, 496  
 XFCBOVER (BIT) UEPAR 475, 496  
 XFCLDEL (BIT) UEPAR 475, 496  
 XFCNREC (BIT) UEPAR 475, 496  
 XFCQUIS (BIT) UEPAR 475, 496  
 XFCREQ (BIT) UEPAR 475, 495  
 XFCREQC (BIT) UEPAR 475, 495  
 XFCRSREQ (BIT) UEPAR 475, 496  
 XFCRSREQC (BIT) UEPAR 475, 496  
 XFCVSDS (BIT) UEPAR 475, 496  
 XFINTER (0) DUA 93  
 XFIOA 561  
 XFR 563  
 XFR1TO4 (BIT) RSB 281, 284  
 XFR1TO4 (BIT) XFR 564  
 XFR1TOC (BIT) RSB 281, 284  
 XFR1TOC (BIT) XFR 564  
 XFR1XLNF (BIT) RSB 281, 284  
 XFR1XLNF (BIT) XFR 564  
 XFR2TO3 (BIT) RSB 282, 285  
 XFR2TO3 (BIT) XFR 564  
 XFRABCD (3C) XFR 563  
 XFRABCD (7C) RSB 281, 284  
 XFRABCDE (6F) XFR 564  
 XFRABCDE (AF) RSB 282, 285  
 XFRARCHD (65) XFR 564  
 XFRARCHD (A5) RSB 281, 284  
 XFRARGS (7C) XFR 564  
 XFRARGS (BC) RSB 282, 285  
 XFRASSTG1 (48) RSB 281, 284  
 XFRASSTG1 (8) XFR 563  
 XFRASSTG4 (4C) RSB 281, 284  
 XFRASSTG4 (C) XFR 563  
 XFRASSTGL (10) XFR 563  
 XFRASSTGL (50) RSB 281, 284  
 XFRATAB2 (60) XFR 564  
 XFRATAB2 (A0) RSB 281, 284  
 XFRATABN (5C) XFR 564  
 XFRATABN (9C) RSB 281, 284  
 XFRATCSE (4C) RSB 280, 283  
 XFRATCSE (C) XFR 563  
 XFRATCTE (10) XFR 563  
 XFRATCTE (50) RSB 280, 283  
 XFRATHDR (BIT) RSB 281, 284  
 XFRATHDR (BIT) XFR 564  
 XFRATIOA (14) XFR 563  
 XFRATIOA (54) RSB 280, 283  
 XFRAUIB (30) XFR 563  
 XFRAUIB (70) RSB 280, 283  
 XFRBEGIN (0) XFR 563  
 XFRBEGOP (78) XFR 564  
 XFRBEGOP (B8) RSB 282, 285  
 XFRCODE1 (6D) XFR 564  
 XFRCODE1 (AD) RSB 281, 284  
 XFRCODE2 (6E) XFR 564  
 XFRCODE2 (AE) RSB 282, 285  
 XFRCODES (6D) XFR 564  
 XFRCODES (AD) RSB 281, 284  
 XFRCOMML (38) XFR 563  
 XFRCOMML (78) RSB 281, 284  
 XFRDATAL (3A) XFR 563  
 XFRDATAL (7A) RSB 281, 284  
 XFRDATAV (BIT) RSB 281, 284  
 XFRDATAV (BIT) XFR 563  
 XFRDLCNT (BIT) RSB 281, 284  
 XFRDLCNT (BIT) XFR 564  
 XFRDLGRP (BIT) RSB 281, 284  
 XFRDLGRP (BIT) XFR 564  
 XFRDLILN (34) XFR 563  
 XFRDLILN (74) RSB 280, 283  
 XFRDLLST (BIT) RSB 281, 284  
 XFRDLLST (BIT) XFR 564  
 XFRDLPLI (BIT) RSB 281, 284  
 XFRDLPLI (BIT) XFR 564  
 XFREILST (BIT) RSB 281, 284  
 XFREILST (BIT) XFR 564  
 XFRFCENT (38) XFR 563  
 XFRFCENT (78) RSB 280, 283  
 XFRFCGRP (BIT) RSB 281, 284  
 XFRFCGRP (BIT) XFR 564

XFRFCTK (BIT) RSB 281, 284  
XFRFCTK (BIT) XFR 564  
XFRFLAG1 (6A) XFR 564  
XFRFLAG1 (AA) RSB 281, 284  
XFRFLAG2 (6B) XFR 564  
XFRFLAG2 (AB) RSB 281, 284  
XFRFLAG3 (6C) XFR 564  
XFRFLAG3 (AC) RSB 281, 284  
XFRFLAG4 (40) XFR 563  
XFRFLAG4 (80) RSB 281, 284  
XFRFLAGA (20) XFR 563  
XFRFLAGA (60) RSB 280, 283  
XFRFLAG5 (69) XFR 564  
XFRFLAG5 (A9) RSB 281, 284  
XFRFORMN (64) XFR 564  
XFRFORMN (A4) RSB 281, 284  
XFRFSPEC 280, 283, 563  
XFRFUNCT (68) XFR 564  
XFRFUNCT (A8) RSB 281, 284  
XFRGROUP (67) XFR 564  
XFRGROUP (A7) RSB 281, 284  
XFRHAENT (BIT) RSB 281, 284  
XFRHAENT (BIT) XFR 564  
XFRHTRAN (BIT) RSB 281, 284  
XFRHTRAN (BIT) XFR 563  
XFRICGRP (BIT) RSB 281, 284  
XFRICGRP (BIT) XFR 564  
XFRJCGRP (BIT) RSB 281, 284  
XFRJCGRP (BIT) XFR 564  
XFRCLCQ (BIT) RSB 281, 284  
XFRCLCQ (BIT) XFR 564  
XFRLENFD (BIT) RSB 281, 284  
XFRLENFD (BIT) XFR 564  
XFRLINK (BIT) RSB 280, 283  
XFRLINK (BIT) XFR 563  
XFRLNGRN (BIT) RSB 281, 284  
XFRLNGRN (BIT) XFR 564  
XFRLINGTH (BIT) RSB 282, 285  
XFRLINGTH (BIT) XFR 564  
XFRLNKAB (BIT) RSB 281, 284  
XFRLNKAB (BIT) XFR 564  
XFRLNKAP (BIT) RSB 281, 284  
XFRLNKAP (BIT) XFR 564  
XFRLNKAR (BIT) RSB 281, 284  
XFRLNKAR (BIT) XFR 564  
XFRLNKGP (BIT) RSB 281, 284  
XFRLNKGP (BIT) XFR 564  
XFRLNKLQ (BIT) RSB 281, 284  
XFRLNKLQ (BIT) XFR 564  
XFRLNKNA (BIT) RSB 282, 285  
XFRLNKNA (BIT) XFR 564  
XFRLNKNI (BIT) RSB 281, 284  
XFRLNKNI (BIT) XFR 564  
XFRLNKNS (BIT) RSB 282, 285  
XFRLNKNS (BIT) XFR 564  
XFRLNKPF (BIT) RSB 281, 284  
XFRLNKPF (BIT) XFR 564  
XFRLNKSF (BIT) RSB 282, 285  
XFRLNKSF (BIT) XFR 564  
XFRLNKSH (BIT) RSB 282, 285  
XFRLNKSH (BIT) XFR 564  
XFRLNKSP (BIT) RSB 281, 284  
XFRLNKSP (BIT) XFR 564  
XFRLNKSV (BIT) RSB 281, 284  
XFRLNKSV (BIT) XFR 564  
XFRLNKSY (BIT) RSB 282, 285  
XFRLNKSY (BIT) XFR 564  
XFRLUCCD (18) XFR 563  
XFRLUCCD (58) RSB 280, 283  
XFRNEGR (BIT) RSB 282, 285  
XFRNEGR (BIT) XFR 564  
XFRNOATN (BIT) RSB 280, 283  
XFRNOATN (BIT) XFR 563  
XFRNORM (BIT) RSB 280, 283  
XFRNORM (BIT) XFR 563  
XFRNRPLY (BIT) RSB 281, 284  
XFRNRPLY (BIT) XFR 564  
XFRPLIST (58) XFR 563  
XFRPLIST (98) RSB 281, 284  
XFRPNAME (30) XFR 563  
XFRPNAME (70) RSB 281, 284  
XFRPRTCT (BIT) RSB 281, 284  
XFRPRTCT (BIT) XFR 564  
XFRRESR9 (70) XFR 564  
XFRRESR9 (80) RSB 282, 285  
XFRRESRE (74) XFR 564  
XFRRESRE (B4) RSB 282, 285  
XFRRTDST (BIT) RSB 280, 283  
XFRRTDST (BIT) XFR 563  
XFRRTRAD (24) XFR 563  
XFRRTRAD (64) RSB 280, 283  
XFRRTRLN (22) XFR 563  
XFRRTRLN (62) RSB 280, 283  
XFRSERVR (BIT) RSB 280, 283  
XFRSERVR (BIT) XFR 563  
XFRSTART (48) RSB 280, 283  
XFRSTART (8) XFR 563  
XFRSTRAN (1C) XFR 563  
XFRSTRAN (5C) RSB 280, 283  
XFRSYNC (BIT) RSB 280, 283  
XFRSYNC (BIT) XFR 563  
XFRSYSNM (48) RSB 280, 283  
XFRSYSNM (8) XFR 563  
XFRTDGRP (BIT) RSB 281, 284  
XFRTDGRP (BIT) XFR 564  
XFRTRAN1 (BIT) RSB 281, 284  
XFRTRAN1 (BIT) XFR 564  
XFRTRAN2 (BIT) RSB 281, 284  
XFRTRAN2 (BIT) XFR 564  
XFRTRAN3 (BIT) RSB 281, 284  
XFRTRAN3 (BIT) XFR 564  
XFRTRAN4 (BIT) RSB 281, 284  
XFRTRAN4 (BIT) XFR 564  
XFRTSGRP (BIT) RSB 281, 284  
XFRTSGRP (BIT) XFR 564  
XGMTEXT (BIT) UEPAR 475, 495  
XICEREQ (BIT) UEPAR 475, 496  
XICEREQC (BIT) UEPAR 475, 496  
XICEXP (BIT) UEPAR 475, 495  
XICREQ (BIT) UEPAR 475, 495  
XICTENF (BIT) UEPAR 475, 496  
XINDT1 (BIT) UEPAR 475, 496  
XINDT2 (BIT) UEPAR 475, 496  
XISCONA (BIT) UEPAR 475, 496  
XISLCLQ (BIT) UEPAR 475, 495  
XKEITEM (0) EICD1 115  
XKEITEM1 (0) EICD1 116  
XKERAY (0) EICD1 115  
XLDELETE (BIT) UEPAR 475, 496  
XLDLOAD (BIT) UEPAR 475, 496  
XLGSTRM (BIT) UEPAR 474, 495  
XLGWBC (BIT) UEPAR 475, 496  
XLT 565  
XLTEL (BIT) XLT 565  
XLTID (0) XLT 565  
XMCAAQ (20) XMCD5 565  
XMCAI (1C) XMCD5 565  
XMCCAT (44) XMCD5 566  
XMCCLEN (BIT) XMCD5 566  
XMCCQT (48) XMCD5 566  
XMCCQTME (54) XMCD5 566  
XMCD5 565  
XMCDVERS (4) XMCD5 565  
XMCEND (BIT) XMCD5 566  
XMCID (2) XMCD5 565  
XMCIDE (BIT) XMCD5 565  
XMCITD (30) XMCD5 565  
XMCLEN 565  
XMCMTX (28) XMCD5 565  
XMCPAT (34) XMCD5 565  
XMCPI (14) XMCD5 565  
XMCQPQ (38) XMCD5 565  
XMCWPQ (24) XMCD5 565  
XMCTAMA (3C) XMCD5 565  
XMCTAPT (40) XMCD5 565  
XMCTAT (10) XMCD5 565  
XMCTCL 565  
XMCTH (2C) XMCD5 565  
XMCTQ (18) XMCD5 565  
XMCTQTME (4C) XMCD5 566  
XMCVERS (BIT) XMCD5 565  
XMEOUT (BIT) UEPAR 475, 495  
XMGCAT (10) XMGDS 566  
XMGCQT (14) XMGDS 566  
XMGCQTME (34) XMGDS 566  
XMGDS 566



"Restricted Materials of IBM"  
 Licensed Materials – Property of IBM

XMGDVERS (4) XMGDS 566  
 XMGEND (BIT) XMGDS 566  
 XMGID (2) XMGDS 566  
 XMGIDE (BIT) XMGDS 566  
 XMGLLEN 566  
 XMGMTX (C) XMGDS 566  
 XMGNUM 566  
 XMGPAT (1C) XMGDS 566  
 XMGPPQT (20) XMGDS 566  
 XMGTTAMXT (18) XMGDS 566  
 XMGTTAT (24) XMGDS 566  
 XMGTTDT (28) XMGDS 566  
 XMGTTNUM 566  
 XMGTTQME (2C) XMGDS 566  
 XMGVERS (BIT) XMGDS 566  
 XMNOUT (BIT) UEPAR 475, 495  
 XMRAC 567  
 XMRAMISM (64) XMRDS 567  
 XMRCLLEN (BIT) XMRDS 567  
 XMRDLC (34) XMRDS 567  
 XMRDRRC (38) XMRDS 567  
 XMRDS 567  
 XMRDVERS (4) XMRDS 567  
 XMRDYN (2A) XMRDS 567  
 XMRDYNN (BIT) XMRDS 567  
 XMRDYNY (BIT) XMRDS 567  
 XMREND (BIT) XMRDS 567  
 XMRFAIT (54) XMRDS 567  
 XMRFANW (58) XMRDS 567  
 XMRFAOP (5C) XMRDS 567  
 XMRFAOT (60) XMRDS 567  
 XMRFATXN (50) XMRDS 567  
 XMRFIABCK (BIT) XMRDS 567  
 XMRFIACOM (BIT) XMRDS 567  
 XMRFIACTN (49) XMRDS 567  
 XMRID (2) XMRDS 567  
 XMRIDE (BIT) XMRDS 567  
 XMRITOV (44) XMRDS 567  
 XMRWAIT 567  
 XMRIWTPN (BIT) XMRDS 567  
 XMRIWTOP (48) XMRDS 567  
 XMRIWTY (BIT) XMRDS 567  
 XMRLEN 567  
 XMRPN (C) XMRDS 567  
 XMRPRTY (28) XMRDS 567  
 XMRRC (30) XMRDS 567  
 XMRRNAM (1C) XMRDS 567  
 XMRRSS (3C) XMRDS 567  
 XMRRSSYS (24) XMRDS 567  
 XMRS\_COMMAREA (0) XMRSC 568  
 XMRS\_COMPONENT\_CODE (1) XMRSC 568  
 XMRS\_CURRENT\_ABEND\_CODE (10) XMRSC 568  
 XMRS\_FUNCTION (0) XMRSC 568  
 XMRS\_ORIGINAL\_ABEND\_CODE 568  
 XMRS\_READ 568  
 XMRS\_READ\_NO 1 XMRSC 568  
 XMRS\_READ\_YES 1 XMRSC 568  
 XMRS\_RESTART (7) XMRSC 568  
 XMRS\_RESTART\_COUNT (8) XMRSC 568  
 XMRS\_RESTART\_NO 1 XMRSC 568  
 XMRS\_RESTART\_YES 1 XMRSC 568  
 XMRS\_STANDARD\_HEADER (0) XMRSC 568  
 XMRS\_SYNCPOINT (6) XMRSC 568  
 XMRS\_SYNCPOINT\_NO 1 XMRSC 568  
 XMRS\_SYNCPOINT\_YES 1 XMRSC 568  
 XMRS\_TRANSACTION\_MANAGER 2 XMRSC 568  
 XMRS\_TRANSACTION\_RESTART 1 XMRSC 568  
 XMRS\_WRITE (5) XMRSC 568  
 XMRS\_WRITE\_NO 1 XMRSC 568  
 XMRS\_WRITE\_YES 1 XMRSC 568  
 XMRSC 568  
 XMRSV (40) XMRDS 567  
 XMRTCL (14) XMRDS 567  
 XMRTI 567  
 XMRVERS (BIT) XMRDS 567  
 XNQEREQ (BIT) UEPAR 475, 496  
 XNQEREQC (BIT) UEPAR 475, 496  
 XPCABND (BIT) UEPAR 475, 496  
 XPCFTCH (BIT) UEPAR 475, 496  
 XPCHAIR (BIT) UEPAR 475, 496  
 XPCREQ (BIT) UEPAR 475, 496  
 XPCREQC (BIT) UEPAR 475, 496  
 XPCTA (BIT) UEPAR 475, 496  
 XQO\_REQ\_ADDACT 1 ZXQOD 609  
 XQO\_REQ\_DRAIN 1 ZXQOD 609  
 XQO\_REQ\_INIT 1 ZXQOD 609  
 XQO\_REQ\_POST 1 ZXQOD 609  
 XQO\_RSP\_BAD\_REQC 4 ZXQOD 609  
 XQO\_RSP\_ERROR 4 ZXQOD 609  
 XQO\_RSP\_NORMAL 4 ZXQOD 609  
 XQO\_RSP\_NOT\_YET 4 ZXQOD 609  
 XQO\_RSP\_SCHEDULD 4 ZXQOD 609  
 XQOVECT (0) ZXQOD 609  
 XQOVECTE (4) ZXQOD 609  
 XQOVECTN (0) ZXQOD 609  
 XQS1D 569  
 XQS2D 570  
 XQS3D 571  
 XRCINIT (BIT) UEPAR 475, 495  
 XRCINPT (BIT) UEPAR 475, 495  
 XRF  
     cics-dbctl XRF user exit parameter list, DXUEP 105  
     XRF CAVM file control block, WFG 521  
     XRF CAVM notify exit, WNF 532  
     XRF CAVM state manager parameter list, WSS 542  
     XRF CAVM state manager record description, WSM 538  
     XRF CAVM static control block, WCS 517  
     XRF CAVM surveillance exits, WSX 544  
     XRF CAVM surveillance status, WSA 534  
     XRF CAVM surveillance, WSR 541  
     XRF CAVM time-of-day clock difference, WSC 537  
     XRF dispatcher interface, WDI 519  
     XRF entry points table, WSN 540  
     XRF global control block, WCG 515  
     XRF internal interface block, WMI 524  
     XRF LIFO stack area, WXL 555  
     XRF LIFO workspace, WDL 520  
     XRF mapping session stste vector '29', TCV29 418  
     XRF message manager global area, WMG 522  
     XRF message manager message, WMT 531  
     XRF message manager request, WMS 529  
     XRF message queue anchor block, WMM 526  
     XRF message record, WMR 528  
     XRF message request queue, WMQ 527  
     XRF parameter list, WS2 545  
     XRF parameter list, WS3 546  
     XRF process block, WDG 518  
     XRF process block, WXB 554  
     XRF static storage definition, XRS 574  
     XRF takeover initiation argument block, WTA 547  
     XRF takeover parameter area, WST 543  
     XRF trace control area, WTG 550  
     XRF trace interface, WTR 551  
     XRF tracking queue organiser, ZXQOD 609  
     XRF tracking record header, ZXTR 610  
     XRF work element definition, XRW 577  
 XRF\_DUXW (60) DUA 93  
 XRF\_PTR (64) DUA 93  
 XRF/DBCTL  
     XRF/DBCTL DGB extension, DXPS 103  
     XRF/DBCTL last message sent, DBWMS 65  
     XRF/DBCTL subtask storage, DXQEL 104  
 XRH 572  
 XRHDADI (1C) XRH 572  
 XRHDCLK1 572  
 XRHDCLK2 (30) XRH 572  
 XRHDDOMI (8) XRH 572  
 XRHDEND (34) XRH 572  
 XRHDERRI (C) XRH 572  
 XRHDGAPL 572  
 XRHDHBI (28) XRH 572  
 XRHDIRER (4) XRH 572  
 XRHDJDI (20) XRH 572  
 XRHDNRER (0) XRH 572  
 XRHDNPD (24) XRH 572  
 XRHDPFX (0) XRH 572  
 XRHDRERR (8) XRH 572  
 XRHDSAPL (10) XRH 572  
 XRHDSUR (19) XRH 572  
 XRHD TAK 572  
 XRHE (0) XRH 572  
 XRHG (0) XRH 573  
 XRHGD (0) XRH 573  
 XRHGDATA (8) XRH 573  
 XRHGDLDN (0) XRH 573  
 XRHGDOMI (4) XRH 573

XRHGDP (0) XRH 573  
XRHGDTXT 573  
XRHGFBAL (BIT) XRH 573  
XRHGFLG (2) XRH 573  
XRHGLTH (0) XRH 573  
XRHGP (0) XRH 573  
XRHW (0) XRH 573  
XRHWE 573  
XRHWEND (54) XRH 573  
XRHWFLG (0) XRH 573  
XRHWFSSET (BIT) XRH 573  
XRHWNEXT (0) XRH 573  
XRHWX (4C) XRH 573  
XRHX (0) XRH 573  
XRHXEND 573  
XRHXGN 573  
XRMIIN (BIT) UEPAR 475, 496  
XRMIOUT (BIT) UEPAR 475, 496  
XRPDOFF (12) XFIOA 562  
XRPDS (BIT) XFIOA 562  
XRPEIBRC (C) XFIOA 562  
XRPFCDLN (14) XFIOA 562  
XRPFCDA (1E) XFIOA 562  
XRPFCCLN (16) XFIOA 562  
XRPFCCKOF (1C) XFIOA 562  
XRPFCLEN (BIT) XFIOA 562  
XRPFCMRL (1A) XFIOA 562  
XRPFCNRC (18) XFIOA 562  
XRPFCUDL (18) XFIOA 562  
XRPICLEN (BIT) XFIOA 562  
XRPICRQD (14) XFIOA 562  
XRPPARMS (14) XFIOA 562  
XRPSTART 562  
XRPTDDA (18) XFIOA 562  
XRPTDDL (14) XFIOA 562  
XRPTDLEN (BIT) XFIOA 562  
XRPTDUDL (16) XFIOA 562  
XRPTSDA (1A) XFIOA 562  
XRPTSCLN (16) XFIOA 562  
XRPTSITM (16) XFIOA 562  
XRPTSLEN (BIT) XFIOA 562  
XRPTSUIT (14) XFIOA 562  
XRPTSUDL (18) XFIOA 562  
XRQARGO (1B) XFIOA 561  
XRQDOFF (24) XFIOA 561  
XRQDS (BIT) XFIOA 561  
XRQFCDLN (2E) XFIOA 561  
XRQFCDSN (26) XFIOA 561  
XRQFCKDA (36) XFIOA 561  
XRQFCKLN (30) XFIOA 561  
XRQFCKOF (34) XFIOA 561  
XRQFCLEN (BIT) XFIOA 561  
XRQFCRQD (32) XFIOA 561  
XRQFMHAR (C) XFIOA 561  
XRQICFDA (4C) XFIOA 562  
XRQICFLN (4A) XFIOA 562  
XRQICLOT (36) XFIOA 562  
XRQICLEN (BIT) XFIOA 562  
XRQICQUE (3A) XFIOA 562  
XRQICRQD (42) XFIOA 562  
XRQICRTE (32) XFIOA 562  
XRQICRTR (2E) XFIOA 562  
XRQICSYN (8) XFIOA 562  
XRQICTE (2A) XFIOA 562  
XRQICTR (26) XFIOA 562  
XRQICTRN (10) XFIOA 562  
XRQICUID (0) XFIOA 562  
XRQPARMS (26) XFIOA 561  
XRQSTART 561  
XRQTAG (19) XFIOA 561  
XRQTDDA (2C) XFIOA 561  
XRQTDDL (2A) XFIOA 561  
XRQTDLEN (BIT) XFIOA 561  
XRQTDQNM (26) XFIOA 561  
XRQTSDA (32) XFIOA 561  
XRQTSCLN (2E) XFIOA 561  
XRQTSEND (32) XFIOA 561  
XRQTSITM (30) XFIOA 561  
XRQTSLEN (BIT) XFIOA 562  
XRQTSQ16 (32) XFIOA 562  
XRQTSQ8A (32) XFIOA 562  
XRQTSQ8B (3A) XFIOA 562  
XRQTSQNM (26) XFIOA 561  
XRS 574, 576  
XRS#6416 576  
XRS#6418 576  
XRS#6X18 576  
XRS#DUMP 576  
XRS#ECB 576  
XRS#INS1 576  
XRS#LBD1 576  
XRS#LBD2 576  
XRS#MFL 576  
XRS#MID 576  
XRS#NISON 576  
XRS#OFF 577  
XRS#ON 577  
XRS#SON1 576  
XRS#SON2 576  
XRS#UBD1 576  
XRS#UBD2 576  
XRSA (0) XRS 575  
XRSACAVM (2C) XRS 576  
XRSFAF (20) XRS 576  
XRSFAFIDN (24) XRS 576  
XRSFAFREE (20) XRS 576  
XRSAGMAX 576  
XRSASJID (38) XRS 576  
XRSALN (8) XRS 575  
XRSAMVID (34) XRS 576  
XRSAPFX (0) XRS 575  
XRSAPTA (30) XRS 576  
XRSASHRD (28) XRS 576  
XRSASIND 576  
XRSASNAM (44) XRS 576  
XRSASPLX (3C) XRS 576  
XRSASTOK (4C) XRS 576  
XRSAX 574  
XRSAXCFA (BIT) XRS 576  
XRSAXRHD (18) XRS 574  
XRSAXRS0 (C) XRS 574  
XRSAXRS1 (10) XRS 574  
XRSAXRS2 (14) XRS 574  
XRSXGV (0) XRS 574  
XRSX (A0) XRS 575  
XRSXGAPL (A0) XRS 575  
XRSXSAPL (A8) XRS 575  
XRSXIA (30) XRS 575  
XRSXIAECB (34) XRS 575  
XRSXIAPFX (30) XRS 575  
XRSXIARC 575  
XRSXIATOD (38) XRS 575  
XRSXIATW 575  
XRSXINDI (BIT) UEPAR 475, 496  
XRSXS (80) XRS 575  
XRSXSQECB (84) XRS 575  
XRSXSQPFX (80) XRS 575  
XRSXSQSRC 575  
XRSXSQSTOD (88) XRS 575  
XRSXSQSWT 575  
XRSXRA (50) XRS 575  
XRSXRAECB (54) XRS 575  
XRSXRAPFX (50) XRS 575  
XRSXRARC 575  
XRSXRATOD (58) XRS 575  
XRSXRAWT 575  
XRSXSSD (90) XRS 575  
XRSXSSDECB (94) XRS 575  
XRSXSSDPFX (90) XRS 575  
XRSXSSDRC 575  
XRSXSSDTOD (98) XRS 575  
XRSXSSDWT 575  
XRSXSSS (60) XRS 575  
XRSXSSSECB (64) XRS 575  
XRSXSSSPFX (60) XRS 575  
XRSXSSSRC 575  
XRSXSSSTOD (68) XRS 575  
XRSXSSSWT 575  
XRSXSSST (70) XRS 575  
XRSXSTECB (74) XRS 575  
XRSXSTPFX (70) XRS 575  
XRSXSTRC 575  
XRSXSTTOD (78) XRS 575  
XRSXSTWT 575  
XRSXSUROF 577

"Restricted Materials of IBM"  
 Licensed Materials – Property of IBM

XRSSURON	577	XTR_KEY	(4)	ZXTR	610	
XRSSXRSA	(0) XRS	574	XTR_KEY_LENGTH	(4)	ZXTR	610
XRSTAKEA	577	XTR_KEY_VALUE	(5)	ZXTR	610	
XRSTAKEC	577	XTR_MAX_KEYLEN	4	ZXTR	611	
XRSTAKEM	577	XTR_RECORD	(0)	ZXTR	610	
XRSTC	(40) XRS	575	XTR_RECORD_SIZE	4	ZXTR	611
XRSTCECB	(44) XRS	575	XTR_RSP_ALL_GONE	1	ZXTR	611
XRSTCPF	(40) XRS	575	XTR_RSP_ERROR	1	ZXTR	611
XRSTCRC	575	XTR_RSP_NORMAL	1	ZXTR	611	
XRSTCTOD	(48) XRS	575	XTR_RSP_SHUTDOWN	1	ZXTR	611
XRSTCWT	575	XTR_SN_DATA	(0)	ZXTR	611	
XRSTI	(20) XRS	575	XTR_SN_DATA_SIZE	4	ZXTR	611
XRSTIECB	(24) XRS	575	XTR_SN_REP	(5)	ZXTR	611
XRSTIPFX	(20) XRS	575	XTR_SN_REP_N	(4)	ZXTR	611
XRSTIRC	575	XTR_SN_SESS_NAME	(0)	ZXTR	611	
XRSTITOD	(28) XRS	575	XTR_ST_BIMG_LEN	(0)	ZXTR	611
XRSTIWT	575	XTR_ST_BIMG_VAL	(1)	ZXTR	611	
XRSW	(1C) XRS	574	XTR_ST_BIND	(0)	ZXTR	611
XRSWECHN	(1C) XRS	574	XTR_ST_CAPABLE	(BIT)	ZXTR	611
XRSXRACT	577	XTR_ST_CORREL	(6)	ZXTR	611	
XRSXRALT	577	XTR_ST_CORREL_ID	(7)	ZXTR	611	
XRSXRF	574	XTR_ST_CORREL_LN	(6)	ZXTR	611	
XRSXRNO	577	XTR_ST_DATA	(0)	ZXTR	611	
XRSXRSNS	(9) XRS	574	XTR_ST_FLAGS_1	(5)	ZXTR	611
XRW	577	XTR_ST_LOG_DATA	(0)	ZXTR	611	
XRWEABC	(14) XRW	578	XTR_ST_LOGD_LEN	(0)	ZXTR	611
XRWEACTV	1 XRW	578	XTR_ST_LOGD_VAL	(2)	ZXTR	611
XRWEAPL	(14) XRW	577	XTR_ST_REQ_BIND	1	ZXTR	611
XRWEASD	(8) XRW	577	XTR_ST_REQ_FREED	1	ZXTR	611
XRWECHN	(4) XRW	577	XTR_ST_REQ_UNBND	1	ZXTR	611
XRWECKAS	1 XRW	578	XTR_ST_REQUEST	(4)	ZXTR	611
XRWECKAT	1 XRW	578	XTR_ST_SESS_NAME	(0)	ZXTR	611
XRWECKDC	1 XRW	578	XTR_ST_SHORT	(0)	ZXTR	611
XRWEFAIL	1 XRW	578	XTR_TYPE	610		
XRWEHBL	(14) XRW	578	XTR_TYPE_CONTROL	1	ZXTR	611
XRWEHBOD	1 XRW	578	XTR_TYPE_SN	1	ZXTR	611
XRWEHBRS	1 XRW	578	XTR_TYPE_ZC_CONTENTS	1	ZXTR	611
XRWEICPA	1 XRW	578	XTR_TYPE_ZC_SESSIONS	1	ZXTR	611
XRWEIHRC	1 XRW	578	XTR_XC_DATA	(0)	ZXTR	610
XRWEINS	(C) XRW	577	XTR_XC_STRM_WARM	610		
XRWEINVL	1 XRW	578	XTR_XC_TYPE_ELEM	610		
XRWELBD	(14) XRW	577	XTSATIOA	(4)	ATD	12
XRWERQ	(0) XRW	577	XTSATTEL	(0)	ATD	12
XRWERQDU	(BIT) XRW	577	XTSATTES	(8)	ATD	12
XRWERQIM	(BIT) XRW	577	XTSATTEU	(8)	ATD	12
XRWERQM	(1) XRW	577	XTSAUTOP	(BIT)	ATD	12
XRWERQMD	(BIT) XRW	577	XTSBEGIN	(0)	ATD	12
XRWERQTK	1 XRW	578	XTSBSSM	12		
XRWESOF	1 XRW	578	XTSDATAA	(70)	ATD	13
XRWESOFN	1 XRW	578	XTSDATAL	(64)	ATD	13
XRWESON	1 XRW	578	XTSEODOP	(BIT)	ATD	12
XRWETRRQ	(0) XRW	577	XTSEREQ	(BIT) UEPAR	475, 496	
XRWEUBD	(18) XRW	578	XTSEREQC	(BIT) UEPAR	475, 496	
XRWEVER	(10) XRW	577	XTSETLDC	(36)	ATD	12
XRXDF_ENTRY	2 DUA	96	XTSFORMN	(1E)	ATD	12
XRXDF_EXIT	2 DUA	96	XTSFQERT	(2A)	ATD	12
XRXDF_RECOVERY	2 DUA	96	XTSINBPS	12		
XSNOFF	(BIT) UEPAR	475, 496	XTSLDCM	(1C)	ATD	12
XSNON	(BIT) UEPAR	475, 496	XTSLOGEX	(66)	ATD	13
XSRAB	(BIT) UEPAR	475, 496	XTSLOGMD	(67)	ATD	13
XSTERM	(BIT) UEPAR	475, 496	XTSLUCPL	(10)	ATD	12
XSTOUT	(BIT) UEPAR	475, 496	XTSLUNAM	13		
XSTT1	(0) EICD1	115	XTSMCFL	(38)	ATD	12
XSZARQ	(BIT) UEPAR	475, 496	XTSMCFL1	(38)	ATD	12
XSZBRQ	(BIT) UEPAR	475, 496	XTSMCFL2	(39)	ATD	12
XTABROOT	(0) EICD1	114	XTSMCRA	(C)	ATD	12
XCATT	(BIT) UEPAR	474, 495	XTSMCTRL	12		
XCIN	(BIT) UEPAR	474, 495	XTSOCL	(3C)	ATD	12
XCOUT	(BIT) UEPAR	474, 495	XTSPAGDA	(14)	ATD	12
XTCTIN	(BIT) UEPAR	474, 495	XTSPAGDS	(14)	ATD	12
XTCTOUT	(BIT) UEPAR	474, 495	XTSPAGE	(BIT)	ATD	12
XTDEREQ	(BIT) UEPAR	475, 496	XTSPALDCM	(18)	ATD	12
XTDEREQC	(BIT) UEPAR	475, 496	XTSPTIN	(BIT) UEPAR	475, 496	
XTDIN	(BIT) UEPAR	475, 496	XTSPTOUT	(BIT) UEPAR	475, 495	
XTDOUT	(BIT) UEPAR	475, 496	XTSQRIN	(BIT) UEPAR	475, 496	
XTDREQ	(BIT) UEPAR	475, 496	XTSQROUT	(BIT) UEPAR	475, 496	
XTR_DATA	(0) ZXTR	610	XTSRELSE	(BIT)	ATD	12
XTR_DATA_LENGTH	(0) ZXTR	610	XTSREQID	(28)	ATD	12
XTR_DATA_SIZE	4 ZXTR	611	XTSRPOS2	(4B)	ATD	12
XTR_DATA_STRING	(2) ZXTR	610	XTSRQFRM	(1F)	ATD	12
XTR_ID	(0) ZXTR	610	XTSRQRLY	1	ATD	13
XTR_ID_BROADCAST	2 ZXTR	611	XTSRQTDE	1	ATD	13
XTR_ID_PENDING	2 ZXTR	611	XTSRQTIN	1	ATD	13

XTSRQTIQ 1 ATD 13  
 XTSRQZIR 1 ATD 13  
 XTSRSVD (3B) ATD 12  
 XTSRTAIN 12  
 XTSRTEDE (20) ATD 12  
 XTSRTELA (24) ATD 12  
 XTSSCSA (BIT) ATD 12  
 XTSSSTAT (4D) ATD 13  
 XTSSSTAT (BIT) ATD 13  
 XTSSSTATC (BIT) ATD 13  
 XTSSSTATD (BIT) ATD 13  
 XTSSSTATF (BIT) ATD 13  
 XTSSSTATR (BIT) ATD 13  
 XTSSSTATT (BIT) ATD 13  
 XTSSSYSID (3F) ATD 12  
 XTSTART (0) ATD 12  
 XTSTCCNV (BIT) ATD 13  
 XTSTCOPC (4C) ATD 12  
 XTSTCRD 12  
 XTSTCWRT (BIT) ATD 13  
 XTSTNNAM (74) ATD 13  
 XTSTPCON (49) ATD 12  
 XTSTPOC3 12  
 XTSTPOS1 (43) ATD 12  
 XTSTPPNM (53) ATD 13  
 XTSTRAN1 1 ATD 13  
 XTSTRAN2 1 ATD 13  
 XTSTRAN3 1 ATD 13  
 XTSTRAN4 1 ATD 13  
 XTSTRNID (4E) ATD 13  
 XTSTTLA (20) ATD 12  
 XTSWBALL (BIT) ATD 12  
 XTSWBCCR (BIT) ATD 12  
 XTSZIRSP (52) ATD 13  
 XXDFA (BIT) UEPAR 475, 496  
 XXDFB (BIT) UEPAR 475, 496  
 XXDTO (BIT) UEPAR 475, 496  
 XXMATT (BIT) UEPAR 475, 496  
 XXRSTAT (BIT) UEPAR 475, 496  
 XZCATT (BIT) UEPAR 475, 496  
 XZCIN (BIT) UEPAR 475, 496  
 XZCOUT (BIT) UEPAR 475, 496  
 XZCOUT1 (BIT) UEPAR 475, 496  
 XZIQUE (BIT) UEPAR 475, 496

## Y

YES 0 DUA 94  
 YES 0 TRBL 450  
 YSPOOL 1 SIT 303

## Z

ZC\_3270COMP\_X (BIT) ZCQ 585  
 ZC\_3270E\_YES\_X (BIT) ZCQ 585  
 ZC\_ACOPY\_YES\_X (BIT) ZCQ 585  
 ZC\_ALTPGE\_1 (70) ZCQ 586  
 ZC\_ALTPGE\_1\_X (3) ZCQ 584  
 ZC\_ALTPGE\_2 (74) ZCQ 586  
 ZC\_ALTPGE\_2\_X (BIT) ZCQ 584  
 ZC\_ALTPRINT (1C) ZCQ 586  
 ZC\_ALTPRINT\_X (BIT) ZCQ 584  
 ZC\_ALTSFX (78) ZCQ 586  
 ZC\_ALTSFX\_X (BIT) ZCQ 584  
 ZC\_APLKYBD\_YES\_X (BIT) ZCQ 584  
 ZC\_APLTEXT\_YES\_X (BIT) ZCQ 584  
 ZC\_APRT\_NETNAME (E5) ZCQ 587  
 ZC\_APRT\_NETNAME\_X (BIT) ZCQ 587  
 ZC\_ATI\_YES\_X (BIT) ZCQ 585  
 ZC\_ATTACHSE\_ID\_X (E) ZCQ 585  
 ZC\_ATTACHSE\_LO\_X (BIT) ZCQ 585  
 ZC\_ATTACHSE\_MI\_X (BIT) ZCQ 586  
 ZC\_ATTACHSE\_PE\_X (12) ZCQ 586  
 ZC\_ATTACHSE\_VE\_X (BIT) ZCQ 585  
 ZC\_AUDALARM\_YE\_X (BIT) ZCQ 584  
 ZC\_AUTOPAGE\_NO\_X (BIT) ZCQ 585  
 ZC\_AUTOPAGE\_YE\_X (6) ZCQ 585  
 ZC\_BACKTRAN\_YE\_X (BIT) ZCQ 585  
 ZC\_BINDSECU\_NO\_X (BIT) ZCQ 586  
 ZC\_BINDSECU\_YE\_X (BIT) ZCQ 586  
 ZC\_BRACKET\_NO\_X (BIT) ZCQ 586  
 ZC\_CATLG\_NO\_X (15) ZCQ 586

ZC\_CBDATTAC\_AC\_X (14) ZCQ 586  
 ZC\_CBDATTAC\_NO\_X (BIT) ZCQ 586  
 ZC\_CBDATTAC\_RE\_X (BIT) ZCQ 586  
 ZC\_CGCSGID\_1 (8C) ZCQ 586  
 ZC\_CGCSGID\_1\_X (B) ZCQ 585  
 ZC\_CGCSGID\_2 (8E) ZCQ 586  
 ZC\_CGCSGID\_2\_X (BIT) ZCQ 585  
 ZC\_CHAINMAX (88) ZCQ 586  
 ZC\_CHAINMAX\_X (BIT) ZCQ 585  
 ZC\_CHNASSY\_YES\_X (9) ZCQ 585  
 ZC\_CINIT\_YES\_X (BIT) ZCQ 584  
 ZC\_CLONE\_X (BIT) ZCQ 586  
 ZC\_COLOR\_YES\_X (4) ZCQ 584  
 ZC\_CONNAUTO\_AL\_X 585  
 ZC\_CONNAUTO\_YE\_X (BIT) ZCQ 585  
 ZC\_CONSLID (C) ZCQ 586  
 ZC\_CONSLID\_X (BIT) ZCQ 584  
 ZC\_CONSNAME (ED) ZCQ 587  
 ZC\_CONSNAME\_X (BIT) ZCQ 586  
 ZC\_COPY\_YES\_X (BIT) ZCQ 585  
 ZC\_DCKYBD\_YES\_X (BIT) ZCQ 584  
 ZC\_DISCONN\_YE\_X (BIT) ZCQ 585  
 ZC\_ERRCOLOR\_BL\_X (BIT) ZCQ 585  
 ZC\_ERRCOLOR\_GR\_X (BIT) ZCQ 585  
 ZC\_ERRCOLOR\_NE\_X (BIT) ZCQ 585  
 ZC\_ERRCOLOR\_PL\_X (BIT) ZCQ 585  
 ZC\_ERRCOLOR\_RE\_X (BIT) ZCQ 585  
 ZC\_ERRCOLOR\_TU\_X (BIT) ZCQ 585  
 ZC\_ERRCOLOR\_YE\_X (7) ZCQ 585  
 ZC\_ERRHILIG\_BL\_X (BIT) ZCQ 585  
 ZC\_ERRHILIG\_RE\_X (BIT) ZCQ 585  
 ZC\_ERRHILIG\_UN\_X (BIT) ZCQ 585  
 ZC\_ERRINTEN\_YE\_X (BIT) ZCQ 585  
 ZC\_ERRLASTL\_YE\_X (BIT) ZCQ 585  
 ZC\_EXIST\_BITS (0) ZCQ 584  
 ZC\_EXTDS\_YES\_X (BIT) ZCQ 584  
 ZC\_EXTENDED\_NO\_X (BIT) ZCQ 586  
 ZC\_EXTENDED\_YE\_X (BIT) ZCQ 586  
 ZC\_FF\_YES\_X (BIT) ZCQ 584  
 ZC\_FIXED\_VARS (0) ZCQ 586  
 ZC\_FMHPARM\_YES\_X (BIT) ZCQ 584  
 ZC\_GMMSG\_YES\_X (BIT) ZCQ 585  
 ZC\_HF\_YES\_X (BIT) ZCQ 584  
 ZC\_HILIGHT\_YES\_X (BIT) ZCQ 584  
 ZC\_INPUT\_YES\_X (BIT) ZCQ 585  
 ZC\_INTLOG\_YES\_X (BIT) ZCQ 585  
 ZC\_IOAREALEN (84) ZCQ 586  
 ZC\_IOAREALEN\_X (BIT) ZCQ 585  
 ZC\_KATAKANA\_YE\_X (BIT) ZCQ 584  
 ZC\_LDC 586  
 ZC\_LDC\_X 584  
 ZC\_LOGMODE (60) ZCQ 586  
 ZC\_LOGMODE\_X (BIT) ZCQ 584  
 ZC\_LUSM\_YES\_X (BIT) ZCQ 585  
 ZC\_LUTYPE2\_X (BIT) ZCQ 585  
 ZC\_MAXSESS\_1 586  
 ZC\_MAXSESS\_1\_X (BIT) ZCQ 585  
 ZC\_MAXSESS\_2 (B0) ZCQ 586  
 ZC\_MAXSESS\_2\_X (BIT) ZCQ 585  
 ZC\_MAXSESSCOUNT (C0) ZCQ 587  
 ZC\_MODE\_PTR (80) ZCQ 586  
 ZC\_MODENAME (CC) ZCQ 587  
 ZC\_MODENAME\_X (BIT) ZCQ 585  
 ZC\_MSRCNTRL\_YE\_X (BIT) ZCQ 584  
 ZC\_NATLANG (DC) ZCQ 587  
 ZC\_NATLANG\_X (10) ZCQ 585  
 ZC\_NEPCLASS (38) ZCQ 586  
 ZC\_NEPCLASS\_X (2) ZCQ 584  
 ZC\_NETNAME (4) ZCQ 586  
 ZC\_NETNAME\_X (BIT) ZCQ 584  
 ZC\_NETNAMEEQ 586  
 ZC\_NETNAMEEQ\_X (BIT) ZCQ 585  
 ZC\_OBFMT\_YES\_X (BIT) ZCQ 584  
 ZC\_OBOPERID\_YE\_X (BIT) ZCQ 585  
 ZC\_OPCLASS 586  
 ZC\_OPCLASS\_X (BIT) ZCQ 584  
 ZC\_OPERID (43) ZCQ 586  
 ZC\_OPERID\_X (BIT) ZCQ 584  
 ZC\_OPERPRI (2C) ZCQ 586  
 ZC\_OPERPRI\_X 584  
 ZC\_OUTLINE\_YES\_X (BIT) ZCQ 585  
 ZC\_OUTSERVI\_YE\_X (8) ZCQ 585  
 ZC\_PARS\_LU6\_X (A) ZCQ 585

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ZC\_PARS\_LUC\_X (BIT) ZCQ 585  
 ZC\_PARS\_YES\_X (BIT) ZCQ 585  
 ZC\_PARTNS\_YES\_X (BIT) ZCQ 584  
 ZC\_PGESIZE\_1 (68) ZCQ 586  
 ZC\_PGESIZE\_1\_X (BIT) ZCQ 584  
 ZC\_PGESIZE\_2 (6C) ZCQ 586  
 ZC\_PGESIZE\_2\_X (BIT) ZCQ 584  
 ZC\_POOLCNT (BC) ZCQ 587  
 ZC\_POOLCNT\_X (BIT) ZCQ 585  
 ZC\_POOLID (24) ZCQ 586  
 ZC\_POOLID\_X (BIT) ZCQ 584  
 ZC\_POOLPTR (24) ZCQ 586  
 ZC\_POOLPTR\_X (BIT) ZCQ 584  
 ZC\_PREBIND\_SCR (5C) ZCQ 586  
 ZC\_PREBIND\_SCR\_X (BIT) ZCQ 585  
 ZC\_PRINT\_YES\_X (BIT) ZCQ 585  
 ZC\_PRINTERTYPE (90) ZCQ 586  
 ZC\_PRINTERTYPE\_X (BIT) ZCQ 585  
 ZC\_PRINTTO (18) ZCQ 586  
 ZC\_PRINTTO\_X (BIT) ZCQ 584  
 ZC\_PROTOCOL\_EX\_X (13) ZCQ 586  
 ZC\_PRT\_NETNAME (DD) ZCQ 587  
 ZC\_PRT\_NETNAME\_X (11) ZCQ 586  
 ZC\_PS\_YES\_X (BIT) ZCQ 584  
 ZC\_PTRADAPT\_YE\_X (5) ZCQ 584  
 ZC\_QUERY\_ALL\_X (BIT) ZCQ 585  
 ZC\_QUERY\_COLD\_X (BIT) ZCQ 585  
 ZC\_RECEIVECOUN (F7) ZCQ 587  
 ZC\_RECEIVECOUN\_X (BIT) ZCQ 586  
 ZC\_RECOVNOT\_ME\_X (BIT) ZCQ 585  
 ZC\_RECOVNOT\_NO\_X (BIT) ZCQ 585  
 ZC\_RECOVNOT\_TR\_X (BIT) ZCQ 585  
 ZC\_RECOVNOT\_CL\_X (BIT) ZCQ 585  
 ZC\_RECOVNOT\_NO\_X (BIT) ZCQ 585  
 ZC\_RECOVNOT\_RE\_X (BIT) ZCQ 585  
 ZC\_RECOVNOT\_RS\_X (BIT) ZCQ 585  
 ZC\_RECOVNOT\_SY\_X (F) ZCQ 585  
 ZC\_RELREQ\_YES\_X (BIT) ZCQ 585  
 ZC\_RESERVED\_1\_X (BIT) ZCQ 584  
 ZC\_RESERVED\_130 (16) ZCQ 586  
 ZC\_RESERVED\_311 (10) ZCQ 585  
 ZC\_RESERVED\_320 (BIT) ZCQ 586  
 ZC\_RESERVED\_330 (12) ZCQ 586  
 ZC\_RESERVED\_510 (15) ZCQ 586  
 ZC\_RESERVED\_DEV (14) ZCQ 586  
 ZC\_RMTNAME (10) ZCQ 586  
 ZC\_RMTNAME\_X (BIT) ZCQ 584  
 ZC\_ROUTE\_NEVER\_X (BIT) ZCQ 585  
 ZC\_ROUTE\_NOTAL\_X (BIT) ZCQ 585  
 ZC\_SELCTPEN\_YE\_X (BIT) ZCQ 584  
 ZC\_SENDCOUNT (F5) ZCQ 587  
 ZC\_SENDCOUNT\_X (BIT) ZCQ 586  
 ZC\_SESSNAME\_X (BIT) ZCQ 585  
 ZC\_SHIPPABL\_YE\_X (BIT) ZCQ 585  
 ZC\_SIGNOFF\_LOG\_X (BIT) ZCQ 585  
 ZC\_SIGNOFF\_YES\_X (BIT) ZCQ 585  
 ZC\_SOSL\_YES\_X (BIT) ZCQ 585  
 ZC\_SPOOLDEST (98) ZCQ 586  
 ZC\_SPOOLDEST\_X (BIT) ZCQ 585  
 ZC\_SPOOLTO (D4) ZCQ 587  
 ZC\_SPOOLTO\_OLD (20) ZCQ 586  
 ZC\_SPOOLTO\_X (1) ZCQ 584  
 ZC\_SYSIDNT (14) ZCQ 586  
 ZC\_SYSIDNT\_X (BIT) ZCQ 584  
 ZC\_SYSTEM\_PTR\_X (BIT) ZCQ 585  
 ZC\_TASKLIMIT 586  
 ZC\_TASKLIMIT\_X (BIT) ZCQ 585  
 ZC\_TCTUAL 586  
 ZC\_TCTUAL\_X (BIT) ZCQ 584  
 ZC\_TERMINAL (0) ZCQ 586  
 ZC\_TEXTKYBD\_YE\_X (BIT) ZCQ 585  
 ZC\_TEXTPRIN\_YE\_X (BIT) ZCQ 585  
 ZC\_TITOKEN (C4) ZCQ 587  
 ZC\_TITOKEN\_YES\_X (BIT) ZCQ 586  
 ZC\_TOR\_NETNAME (F9) ZCQ 587  
 ZC\_TOR\_NETNAME\_X (BIT) ZCQ 586  
 ZC\_TRANSACTION (46) ZCQ 586  
 ZC\_TRANSACTION\_X (BIT) ZCQ 584  
 ZC\_TRANSIENT\_X 585  
 ZC\_TRMPRTY 586  
 ZC\_TRMPRTY\_X (BIT) ZCQ 584  
 ZC\_TTI\_YES\_X (BIT) ZCQ 585  
 ZC\_UCTRAN\_TRAN\_X (BIT) ZCQ 585

ZC\_UCTRAN\_YES\_X (BIT) ZCQ 585  
 ZC\_USE\_MRO\_BITMAP\_X (BIT) ZCQ 586  
 ZC\_USEDFLTU\_YE\_X (BIT) ZCQ 585  
 ZC\_VALIDATI\_YE\_X (BIT) ZCQ 584  
 ZC\_VF\_YES\_X (BIT) ZCQ 584  
 ZC\_VIRTUAL\_TERMINAL\_X (BIT) ZCQ 586  
 ZC\_XRFSIGNO\_FO\_X (BIT) ZCQ 585  
 ZC\_XSNAME (B4) ZCQ 586  
 ZC\_XSNAME\_X (C) ZCQ 585  
 ZCBPS (0) ZCQ 582  
 ZCCPS 578  
 zcp  
 zcp local userid table definition, ZLUIT 606  
 zcp LU sevicees manager parameter, LUSDS 218  
 ZCQ 582  
 ZCQPSFVA (2) ZCQ 583  
 ZCQPSFVL (0) ZCQ 583  
 ZCQPSOVL (A) ZCQ 582  
 ZCQPSPTR (0) ZCQ 582  
 ZCQPSXBA (2) ZCQ 583  
 ZCQPSXBL (0) ZCQ 583  
 ZEPD 589  
 ZEPDLEN 590  
 ZEPDLENC (BIT) ZEPD 589  
 ZEPDLENV (1A0) ZEPD 590  
 ZGDC 591  
 ZGRP 600  
 ZGRP\_RPL (10) ZGRP 605  
 ZGRP\_RPL\_POOL (0) ZGRP 605  
 ZLUIT 606  
 ZRPL 608  
 ZRPLCOMP (0) ZRPL 608  
 ZRPLECB (BIT) ZRPL 608  
 ZRPLERR 608  
 ZRPLERXA (C) ZRPL 608  
 ZRPLEXTN (0) ZRPL 608  
 ZRPLHPXA (18) ZRPL 608  
 ZRPLLINK (0) ZRPL 608  
 ZRPLLRQ (BIT) ZRPL 608  
 ZRPLNHT (BIT) ZRPL 608  
 ZRPLNRC (BIT) ZRPL 608  
 ZRPLNRE (BIT) ZRPL 608  
 ZRPLQIP (BIT) ZRPL 608  
 ZRPLRETA (8) ZRPL 608  
 ZRPLRSAX (14) ZRPL 608  
 ZRPLSCHN (10) ZRPL 608  
 ZRPLSRB (BIT) ZRPL 608  
 ZRPLTCTE (4) ZRPL 608  
 ZRPLWRK1 (1C) ZRPL 608  
 ZRPLZCL 608  
 ZX\_ACCMETH\_XM\_X (BIT) ZCQ 587  
 ZX\_ATTACHSE\_ID\_X (BIT) ZCQ 587  
 ZX\_ATTACHSE\_LO\_X (BIT) ZCQ 587  
 ZX\_ATTACHSE\_ML\_X (BIT) ZCQ 587  
 ZX\_ATTACHSE\_PE\_X (BIT) ZCQ 587  
 ZX\_ATTACHSE\_VE\_X (BIT) ZCQ 587  
 ZX\_BINDSECU\_NO\_X (BIT) ZCQ 587  
 ZX\_BINDSECU\_YE\_X (3) ZCQ 587  
 ZX\_CATLG\_NO\_X (BIT) ZCQ 587  
 ZX\_CBDATTAC\_AC\_X (BIT) ZCQ 587  
 ZX\_CBDATTAC\_NO\_X (BIT) ZCQ 587  
 ZX\_CBDATTAC\_RE\_X (6) ZCQ 587  
 ZX\_CLONE\_X (BIT) ZCQ 587  
 ZX\_CONNAUTO\_AL\_X (BIT) ZCQ 587  
 ZX\_CONNAUTO\_YE\_X (BIT) ZCQ 587  
 ZX\_CONNECTION (0) ZCQ 588  
 ZX\_DATASTR\_327\_X (1) ZCQ 587  
 ZX\_DATASTR\_LMS\_X (BIT) ZCQ 587  
 ZX\_DATASTR\_SCS\_X (BIT) ZCQ 587  
 ZX\_DATASTR\_STR\_X (BIT) ZCQ 587  
 ZX\_DATASTR\_USE\_X (BIT) ZCQ 587  
 ZX\_DELETE\_X (BIT) ZCQ 587  
 ZX\_EXIST\_BITS (0) ZCQ 587  
 ZX\_EXTENDED\_NO\_X (BIT) ZCQ 587  
 ZX\_EXTENDED\_YE\_X (BIT) ZCQ 587  
 ZX\_FIXED\_VARS (0) ZCQ 588  
 ZX\_GR\_X (7) ZCQ 587  
 ZX\_GRNAME\_CONN\_X (BIT) ZCQ 587  
 ZX\_INDSYS (4) ZCQ 588  
 ZX\_INTLOG\_YES\_X (BIT) ZCQ 587  
 ZX\_MAXQTIME (34) ZCQ 588  
 ZX\_MAXQTIME\_X (BIT) ZCQ 587  
 ZX\_NETID (46) ZCQ 588

ZX\_NETID\_X (BIT) ZCQ 587  
ZX\_NETNAME (8) ZCQ 588  
ZX\_NETNAME\_X 587  
ZX\_NETNAME2 (4E) ZCQ 588  
ZX\_NETNAME2\_X (BIT) ZCQ 587  
ZX\_OUTSERVL\_YE\_X (BIT) ZCQ 587  
ZX\_PROTOCOL\_EX\_X (4) ZCQ 587  
ZX\_PSRECOVE\_NO\_X (BIT) ZCQ 587  
ZX\_PSRECOVE\_SY\_X (BIT) ZCQ 587  
ZX\_QUEUELIM (2C) ZCQ 588  
ZX\_QUEUELIM\_X (BIT) ZCQ 587  
ZX\_RECEIVECOUN (32) ZCQ 588  
ZX\_RECEIVECOUN\_X (BIT) ZCQ 587  
ZX\_RECFM\_U\_X (BIT) ZCQ 587  
ZX\_RECFM\_VB\_X (BIT) ZCQ 587  
ZX\_RESERVED\_130 (9) ZCQ 587  
ZX\_RESERVED\_3XX (3) ZCQ 587  
ZX\_RESERVED\_410 (BIT) ZCQ 587  
ZX\_RESERVED\_510 (8) ZCQ 587  
ZX\_RMTNAME (24) ZCQ 588  
ZX\_RMTNAME\_X (BIT) ZCQ 587  
ZX\_RMTSYSN (28) ZCQ 588  
ZX\_RMTSYSN\_X (BIT) ZCQ 587  
ZX\_RMTSYSNET (36) ZCQ 588  
ZX\_RMTSYSNET\_X (BIT) ZCQ 587  
ZX\_SENDCOUNT (30) ZCQ 588  
ZX\_SENDCOUNT\_X (5) ZCQ 587  
ZX\_TITOKEN (3E) ZCQ 588  
ZX\_TITOKEN\_YES\_X (BIT) ZCQ 587  
ZX\_TRANSACTION 588  
ZX\_TRANSACTION\_X (2) ZCQ 587  
ZX\_TRANSIENT\_X 587  
ZX\_USE\_OUR\_MEM\_X (BIT) ZCQ 587  
ZX\_USEDFLTU\_YE\_X (BIT) ZCQ 587  
ZX\_XLNACTIO\_FO\_X (BIT) ZCQ 587  
ZX\_XSNAME (10) ZCQ 588  
ZX\_XSNAME\_X (BIT) ZCQ 587  
ZXQOD 609  
ZXTR 610

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