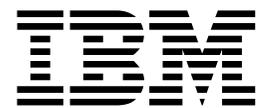


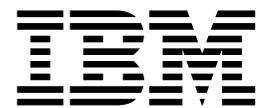
CICS Transaction Server for z/OS



CICS Data Areas

Version 3 Release 1

CICS Transaction Server for z/OS



CICS Data Areas

Version 3 Release 1

Note!

Before using this information and the product it supports, be sure to read the general information under “Notices” on page 693.

Third edition (July 2010)

This edition applies to Version 3 Release 1 of CICS Transaction Server for z/OS, program number 5655-M15, 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.

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Preface

What this book is about

This book lists the major data storage areas used by CICS® Transaction Server for z/OS®, 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

IBM regularly updates its publications with new and changed information. When first published, both hardcopy and BookManager® softcopy versions of a publication are usually in step. However, due to the time required to print and distribute hardcopy books, the BookManager version is more likely to have had last-minute changes made to it before publication.

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-0730-42 is more up-to-date than SK2T-0730-41. 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.

Chapter 1. CICS Transaction Server for z/OS Data Areas

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

AFCB Authorized function blocks

CONTROL BLOCK NAME = DFHAFCB/AFTSTART/DFHAFCS.
 DESCRIPTIVE NAME = CICS (SVC) Authorised Function Blocks.
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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

AFCB

Offset Hex	Type	Len	Name (Dim)	Description
(C0)	ADDRESS	4	AFKESVC	Kernel SVC
(C4)	ADDRESS	4	*	Reserved
(C8)	ADDRESS	4	AFDUSVC	Dump SVC
(CC)	ADDRESS	4	*	Reserved
(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	0	*	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)	BIT(8)	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)	BIT(8)	1	*	Reserved
(4)	ADDRESS	4	AFTAFCS	Address of AFCS.
(8)	ADDRESS	4	AFTKTCB	Address of Kernel TCB Block.
(C)	ADDRESS	4	*	Reserved
(10)	CHARACTER	0	*	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)	BIT(8)	1	AFCS_FLAGS	Various Flags
	1... ..		AFCS_ARM_REGISTERED	ARM register status
	.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

N.B. The next 4 words are used for a different purpose by DFHMSVC in CICS 3.3 This ought perhaps to be fixed sometime.

(40)	ADDRESS	4	AFCSDXHP	-> DXH (SM domain)
(44)	ADDRESS	4	AFCSDMAN	-> DFHDMAN (ENF anchor)
(48)	BIT(32)	4	AFCSCTKN	MVS WLM Connect token
(4C)	ADDRESS	4	AFCS_CEECTCB	A(CEEECTCB (LE init module))@LJC
(50)	ADDRESS	4	*	Reserved for CICS 3.3 SMSVC
(54)	ADDRESS	4	*	Reserved for CICS 3.3 SMSVC
(58)	ADDRESS	4	*	Reserved for CICS 3.3 SMSVC
(5C)	ADDRESS	4	*	Reserved for CICS 3.3 SMSVC
(60)	ADDRESS	4	*	Reserved for CICS 3.3 SMSVC
(64)	ADDRESS	4	*	Reserved for CICS 3.3 SMSVC
(68)	ADDRESS	4	*	Reserved for AFCS_CEECTCB, whose current field is used by SMSVC in CICS 3.3
(6C)	ADDRESS	4	AFCS_3QSSBKND	A(Back-end module for DFH3QSS) No such module exists yet, but this slot must be kept for its use

AID

Offset Hex	Type	Len	Name (Dim)	Description
(70)	ADDRESS	4	AFCS_SMVA	SM MVS Storage mgr anchor
(74)	FULLWORD	4	AFCSLGLIM	Logon Limit for CICS
(78)	FULLWORD	4	*	reserved
(7C)	FULLWORD	4	*	reserved
(80)	ADDRESS	4	*	reserved
(84)	ADDRESS	4	*	reserved
(88)	CHARACTER	0	*	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

AID Automatic initiate descriptor

```

CONTROL BLOCK NAME = DFHAIDDS
DESCRIPTIVE NAME = CICS Automatic Initiate Descriptor
(AID).
  @BANNER_START 02
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5697-E93
  @BANNER_END
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	AIDLLEN	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)	BIT(8)	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

AID

Offset Hex	Type	Len	Name (Dim)	Description
	.... ...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)	BIT(8)	1	AIDFLAGS	Flags
	1...		AIDSZ	Startcode SZ for FEPI
	.1.		AIDNPUR	Non purgeable allocate aid
	..1.		AIDPURGD	Aid purged
	...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
(4F)	BIT(8)	1	AIDFLAG2	Second flag byte
	1...		AIDMRSCH	AID may be re-sched
	.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)	BIT(8)	1	AIDVER	Verification flags for aid
	1...		AIDVERUN	Unchained
	.1.		AIDVERFR	Freed aid's storage
	..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
(75)	CHARACTER	1	*	Reserved
(76)	HALFWORD	2	AID_START_ DATA_LEN	Start data length
(78)	UNSIGNED	4	AID_CHANNEL_ TOKEN	Channel Token
(7C)	CHARACTER	12	*	Reserved
(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)	BIT(8)	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)	BIT(8)	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

APLI

Constants

Len	Type	Value	Name	Description
Length of the AID control block				
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

@BANNER_START 04
 OCO Source Materials DFHLIDC
 5697-E93

The source code for the program is not published
 or otherwise divested of its trade secrets,
 irrespective of what has been deposited with the
 @BANNER_END

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
(0)	STRUCTURE	68	PLB	
(0)	CHARACTER	8	PLB_PROGRAM_NAME	
(8)	FULLWORD	4	PLB_USE_COUNT	
(C)	CHARACTER	1	PLB_SUNDRY_FLAGS	
(C)	BIT(8)	1	*	
	1... ..		PLB_DYING	
	.1.		PLB_DATALOC_ ANY	datalocation any applies
	..1.		PLB_EXECKEY_ CICS	execution key = cics
	...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
	.... ...1		PLB_XPLINK	xplink program
(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
(14)	ADDRESS	4	PLB_ENTRY_POINT	
(18)	FULLWORD	4	PLB_PROGRAM_LENGTH	
(1C)	ADDRESS	4	PLB_LOCK_TOKEN	for automatic storage tuning
(20)	CHARACTER	36	PLB_PGMINFO2	ERTLI program extension
(20)	FULLWORD	4	PLB_PRGINLEN	ERTLI extension length
(24)	CHARACTER	4	PLB_RWA31	31bit run-unit w/a length
(24)	BIT(8)	1	*	
	1... ..		PLB_RWA31_ABOVE	ON=31-bit stg reqd (C/370)
(25)	UNSIGNED	3	PLB_RWA31_LEN	
(28)	FULLWORD	4	PLB_RWA24	24bit run-unit w/a length
(2C)	CHARACTER	4	PLB_LANGUAGE	language flags
(2C)	BIT(8)	1	PLB_LANG1	
	1... ..		PLB_CEE_ENABLED	

APSTG

Offset Hex	Type	Len	Name (Dim)	Description
	.1..		PLB_LANGUAGE_	
	..1.		KNOWN	
	...1		PLB_MIXED_	
	.... 1...		LANGUAGE	
			PLB_COMPATIBILITY	
			PLB_CEE_	
			EXECUTABLE	
	.... .1..		PLB_ASSEMBLER	
	.... ..1.		PLB_C370	
	.... ...1		PLB_COBOL2	
(2D)	BIT(8)	1	PLB_LANG2	
	1...		PLB_OSCOBOL	
	.1..		PLB_PLI	
	..11 1111		*	reserved
(2E)	BIT(8)	1	*	reserved
(2F)	BIT(8)	1	*	reserved
	1111 111.		*	reserved
	.... ...1		PLB_UPDATE_	
			PGMINFO2	
				update tune info
(30)	FULLWORD	4	PLB_MEMID	language member id
(34)	ADDRESS	4	PLB_GLOBAL_ OPTIONS	
				addr of CEECOPT
(38)	ADDRESS	4	PLB_USER_ OPTIONS	addr of CEEUOPT
(3C)	ADDRESS	4	PLB_STG_TUNE_ADDR	stg tune area
(40)	ADDRESS	4	PLB_REAL_ENTRY_POINT	
				true entry point

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

APSTG

CONTROL BLOCK NAME = DFHAPSTG
 DESCRIPTIVE NAME = **CICS AP Statistics Global Storage Block**
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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	
(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)	BIT(8)	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				
@BANNER_START 02				
Licensed Materials - Property of IBM				
"Restricted Materials of IBM"				
5697-E93				
@BANNER_END				
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	Type	Len	Name (Dim)	Description
Hex				
(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)	BIT(8)	1	APXD_FLAGS1	Various flags
	.1..		APXD_CEE_ENABLED	Txn uses CEE work area
	.1..		APXD_TDLA	Txn uses taskdataloc(any)
(15)	BIT(8)	1	*	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

ATD

Offset Hex	Type	Len	Name (Dim)	Description
(24)	ADDRESS	4	APXD_PPF_PTR	profile address
(28)	CHARACTER	8	APXD_TRPPF	Tran routing profile area
(28)	UNSIGNED	4	APXD_TRPPF_ CHANGECOUNT	
(2C)	ADDRESS	4	APXD_TRPPF_PTR	validation counter
(30)	CHARACTER	8	APXD_TCTS	profile address
(30)	UNSIGNED	4	APXD_TCTS_ CHANGECOUNT	Tran routing tcse area
(34)	ADDRESS	4	APXD_TCTS_PTR	validation counter
(38)	CHARACTER	8	APXD_D2_TOKEN	TCSE address
(38)	UNSIGNED	4	APXD_D2_TOKEN_COUNT	CICS/DB2 token
(3C)	ADDRESS	4	APXD_D2_TOKEN_PTR	validation counter
(40)	CHARACTER	8	APXD_RUWA_TOKEN	RCTE addr (entry|pool|comd)@L1A
(40)	UNSIGNED	4	APXD_RUWA_ONESIZE	LE ruwa token
(44)	UNSIGNED	4	APXD_RUWA_POOLSIZ	size of one ruwa
(48)	CHARACTER	0	*	size of ruwa pool
				end

ATD Attach table

```

CONTROL BLOCK NAME = DFHXTSPS
DESCRIPTIVE NAME = CICS (TERMSHR) TRANSFORMER
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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	156	DFHXTSPS	
(0)	CHARACTER	0	XTSTART	
(0)	CHARACTER	0	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)	BIT(8)	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)	BIT(8)	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.

ATD

Offset Hex	Type	Len	Name (Dim)	Description
	.... 1...		XTSPAGE	CTRL=PAGING, EQU MCRPAGE.
	.... .1..		XTSAUTOP	CTRL=AUTOPAGE, EQU MCRAUTOP.
	.... ..1.		*	
	.... ...1		XTSRTAIN	CTRL=RETAIN, EQU MCRRTAIN.
(39)	BIT(8)	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)	BIT(8)	1	XTSMCTRL	FLAGS FOR TCAMSTR6
(3B)	BIT(8)	1	XTSMISC	Miscellaneous indicators
	1...		XTSTMERR	Terminal IO error
	.111 1111		*	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)	BIT(8)	1	XTSTCOPC	TC OPERATION CODE
	1...		*	
	.1..		*	
	.1.		*	
	...1		XTSTCRD	TC READ
	.... 1...		*	
	.... .1..		*	
	.... ..1.		XTSTCCNV	TC CONVERSE
	.... ...1		XTSTCWRT	TC WRITE
(4D)	BIT(8)	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)	BIT(8)	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
(7C)	UNSIGNED	1	XTSPAPR	TC response
(7D)	CHARACTER	4	XTSABEND	TCabend
(81)	UNSIGNED	4	XTSSENSE	TC sense
(88)	UNSIGNED	4	XTSCHANT	Channel token
(8C)	CHARACTER	16	XTSTBYTE	Total channel bytes

Constants

Len	Type	Value	Name	Description
Values of XTIFORMN				
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

A03

Len	Type	Value	Name	Description
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
ZC RESPONSE is passed in XTSCODE1, address of message-set or 0 is passed in XTSATTEU.				
1	HEX	05	XTSXLONG	Extract long fields

A03 VTAM global statistics

CONTROL BLOCK NAME = DFHA03DS
DESCRIPTIVE NAME = CICS VTAM global Statistics.
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	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
	.... .1.1		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.
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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)	STRUCTURE	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)	FULLWORD	4	A04VADAT	Total attempts
(C)	HALFWORD	2	A04VADSH	Times setlogon hold issued
(E)	CHARACTER	2		Reserved
(10)	FULLWORD	4	A04VADRJ	Total rejected
(14)	FULLWORD	4	A04VADLO	Total deleted
(18)	HALFWORD	2	A04VADPK	Peak concurrent attempts
(1A)	HALFWORD	2	A04VADPX	Times peak reached
(1C)	FULLWORD	4	A04VADQT	No. queued logons
(20)	HALFWORD	2	A04VADQK	Peak of Q'd logons
(22)	HALFWORD	2	A04VADQX	No. times peak is reached

Remote statistics - shipped definitions

(24)		4	A04RDINT	Shipped delete interval
(28)		4	A04RDIDL	Shipped delete idle time
(2C)	FULLWORD	4	A04SKBLT	Remote terminals built
(30)	FULLWORD	4	A04SKINS	Remote terminals installed
(34)	FULLWORD	4	A04SKDEL	Remote terminals deleted
(38)	FULLWORD	4	A04TIEXP	Times interval expired
(3C)	FULLWORD	4	A04RDREC	# remdels received
(40)	FULLWORD	4	A04RDISS	# remdels issued
(44)	FULLWORD	4	A04RDDEL	# remdel deletes
(48)	FULLWORD	4	A04CIDCT	Current idle count
(4C)	CHARACTER	8	A04CIDLE	Current idle time
(54)	CHARACTER	8	A04CMAXI	Current maximum idle time
(5C)	FULLWORD	4	A04TIDCT	Total idle count
(60)	CHARACTER	8	A04TIDLE	Total idle time
(68)	CHARACTER	8	A04TMAXI	Maximum idle time
	.111		A04END	***
	.111		A04CLEN	**A04LEN" Length of DSECT

A06 Terminal statistics

```

CONTROL BLOCK NAME = DFHA06DS
DESCRIPTIVE NAME = CICS Terminal Statistics.
  @BANNER_START 02
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5697-E93
  @BANNER_END
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)	STRUCTURE	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	A06TEN0	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.
  @BANNER_START 02
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5697-E93
  @BANNER_END
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 FSCBKTYL
  DFHFCSBK FSCBKSTN
  DFHFCSBK FSCBKHSW
  DFHFCSBK FSCBKHAS
  DFHFCSBK FSCBKBSZ
  DFHFCSBK FSCBKBFN
  DFHFCSBK FSCBKBFN
  DFHFCSBK FSCBKFRD
  DFHFCSBK FSCBKUIW
  DFHFCSBK FSCBKNUW
GLOBAL VARIABLES (Macro pass) = None

```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	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
	.... .11		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	A08BKTYL	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_INDX	Total no. of index buffers
(68)	FULLWORD	4	A08TOHBN_INDX	Total indx hiperspace buffs
(6C)	FULLWORD	4	A08TOBFF_INDX	Total no. successful look asides
(70)	FULLWORD	4	A08TOFRD_INDX	Total no. buffer reads

A08

Offset Hex	Type	Len	Name (Dim)	Description
(74)	FULLWORD	4	A08TOUIW_INDEX	Total no. user initiated writes
(78)	FULLWORD	4	A08TONUW_INDEX	Total no. non-user initiated writes
(7C)	FULLWORD	4	A08TOCRS_INDEX	Total no. successful CREAD
(80)	FULLWORD	4	A08TOCWS_INDEX	Total no. successful CWRITE
(84)	FULLWORD	4	A08TOCRF_INDEX	Total no. failing CREAD
(88)	FULLWORD	4	A08TOCWF_INDEX	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)		0	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 (A08DSEP 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)	STRUCTURE	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	A08BKBF	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.
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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
 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)	STRUCTURE	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.
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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 TCSESTD
 DFHTCTTE TCSESTTC
 DFHTCTTE TCSEALRJ
 DFHTCTTE TCSEQPCT
 DFHTCTTE TCSEMXT
 DFHTCTTE TCSEALIM
 DFHTCTTE TCSEMQPC
 DFHTCTTE TCSEZQRJ
 DFHTCTTE TCSEZQPU
 DFHTCTTE TCSEZQPC
 DFHTCTTE TCSESID
 DFHTCTTE TCSEACCM
 DFHTCTTE TCSEFLGS
 DFHTCTTE TCSESECN
 DFHTCTTE TCSEPRMN
 DFHTCTTE TCSE1RY
 DFHTCTTE TCSE2RY
 GLOBAL VARIABLES (Macro pass) = none

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	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	"X01" 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

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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
(A4)	FULLWORD	4	A14ESTPC_CHANNEL	Program Control FS Channel reqs
(A8)	BITSTRING	8	A14ESTPC_ CHANNEL_SENT	Bytes sent PC FS Channel reqs
(B0)	BITSTRING	8	A14ESTPC_ CHANNEL_RCVD	Bytes received PC FS Channel reqs
(B8)	FULLWORD	4	A14ESTTC_CHANNEL	Terminal Sharing Channel reqs
(BC)	BITSTRING	8	A14ESTTC_ CHANNEL_SENT	Bytes sent Term Sharing Channel
(C4)	BITSTRING	8	A14ESTTC_ CHANNEL_RCVD	Bytes received Term Sharing Channel
(CC)	FULLWORD	4	A14ESTIC_CHANNEL	Interval Control FS Channel reqs
(D0)	BITSTRING	8	A14ESTIC_ CHANNEL_SENT	Bytes sent IC FS Channel reqs
(D8)	BITSTRING	8	A14ESTIC_ CHANNEL_RCVD	Bytes received IC FS Channel reqs
111.			A14END	"*"
111.			A14CLEN	"*-A14LEN" Length of DSECT
Equates for testing A14ACCM. (Access Method)				
.... ...1			A14VTAM	"1"
.... ..1.			A14IRC	"2"
.... ..11			A14XM	"3"
.... ..1..			A14XCF	"4"
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
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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)	STRUCTURE	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)	STRUCTURE	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
  @BANNER_START 02
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5697-E93
  @BANNER_END
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)	STRUCTURE	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	"X01" 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	A17DSRSL	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	A17DSDDEL	DELETE requests
(64)	FULLWORD	4		Reserved
(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

A17

Offset Hex	Type	Len	Name (Dim)	Description
	111. .1..		A17DTTU	"CU" USER maintained table close
	11.1 ..11		A17DTTL	"CL" Coupling Facility table close @L8C" (locking model)
	11.1 ..1.		A17DTTK	"CK" Coupling Facility table close (contention model)
(79)	CHARACTER	3		Reserved
(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
(148)	FULLWORD	4	A17FCXCC	No Exclusive Control Conflicts
(148)		0	A17END	""
(148)		0	A17CLEN	""-A17LEN" Length of DSECT

A21

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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
Constants defining record contents				
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
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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)	STRUCTURE	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	A22TIOU	# 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
  @BANNER_START 02
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5697-E93
  @BANNER_END
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)	STRUCTURE	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
  @BANNER_START 02
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5697-E93
  @BANNER_END
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	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	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

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 fields 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.

.... continued

BRARC

... continuation

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_ IMMEDIATEBy a RETURN TRANSID IMMEDIATE command

BRXA_ STARTED By a START TRANSID command

BRXA_ NORMAL By a RETURN TRANSID or SET NEXTTRANSID command

BRXA_ TCTUA (PTR/LEN)

Bridge facility's TCTUA

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.

BRARC

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	
(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)	ADDRESS	4	BRXA_TCTUA_PTR	
(90)	FULLWORD	4	BRXA_TCTUA_LEN	
(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	0	*	

BRARC

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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,

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... continuation

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.

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BRARC

... continuation

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_INT0_PTR	
(1C)	FULLWORD	4	BRXA_INT0_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	
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	1	BRXA_SUPPORT_ACCUM	
(2E)	CHARACTER	2	*	

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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

BRARC

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

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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	Type	Len	Name (Dim)	Description
Hex				
(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.

BRARC

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	104	BRXA_BMS_COMMAND	
(0)	CHARACTER	48	*	
(30)	CHARACTER	7	BRXA_MAPSET	
(37)	CHARACTER	1	BRXA_MAPSET_ INDICATOR	
(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	
(51)	CHARACTER	1	BRXA_ACCUM_INDICATOR	
(52)	CHARACTER	1	BRXA_RELEASE_ INDICATOR	
(53)	CHARACTER	1	BRXA_RETAIN_INDICATOR	
(54)	CHARACTER	4	BRXA_RELEASE_TRANSID	
(58)	ADDRESS	4	BRXA_PAGE_ HEADER_PTR	
(5C)	FULLWORD	4	BRXA_PAGE_ HEADER_LEN	
(60)	ADDRESS	4	BRXA_PAGE_ TRAILER_PTR	
(64)	FULLWORD	4	BRXA_PAGE_ TRAILER_LEN	

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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	

BRARC

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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	Type	Len	Name (Dim)	Description
Hex				
(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	*	

BRARC

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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 = HIGHLIGHT

- 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)

.... continued

... continuation

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 unsuffixed 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	

BRARC

--

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	
(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.
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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	CDBCPL	X'FF' DATA COMPLETE
(1)	CHARACTER	1	CBSYNC	X'FF' SYNCPOINT REQUESTED
(2)	CHARACTER	1	CDBFREE	X'FF' FREE REQUESTED
(3)	CHARACTER	1	CDBRECV	X'FF' RECEIVE REQUIRED
(4)	CHARACTER	1	CBSIG	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	CBSYNRB	X'FF' SYNC ROLLBACK REQUESTED
(C)	CHARACTER	12	CDBRSVD	RESERVED

CFS6D

CFS6D CFDT Server CF statistics

```

CONTROL BLOCK NAME = DFHCFS6D
DESCRIPTIVE NAME = CICS (CFDT) Statistics for list structure.
  @BANNER_START 02
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5697-E93
  @BANNER_END
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)	STRUCTURE	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	S6ELEM LN	Data element size as a fullword
(40)	ADDRESS	4	S6ELEMPW	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	S6ELEM MX	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

Offset Hex	Type	Len	Name (Dim)	Description
(B0)	FULLWORD	4	S6DLLCT	Delete list (1 per overall delete)
(B4)	FULLWORD	4	S6RDDCT	Read data item
(B8)	FULLWORD	4	S6WRDCT	Write data item
(BC)	FULLWORD	4	S6RWDCT	Rewrite data item
(C0)	FULLWORD	4	S6DLDCCT	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
(118)	FULLWORD	4	S6RSP9CT	Structure temporarily unavailable, for example during rebuild
(118)		0	S6END	***
(118)		0	S6CLEN	**S6LEN" Length of this DSECT

CFS7D CFDT Server Table Statistics

```

CONTROL BLOCK NAME = DFHCFS7D
DESCRIPTIVE NAME = CICS (CFDT) Statistics for table accesses.
  @BANNER_START 02
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5697-E93
  @BANNER_END
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)	STRUCTURE	0	DFHCFS7D	, CF table access statistics record
(0)	FULLWORD	4	S7 (0)	Start of record
(0)	HALFWORD	2	S7LEN	Length of data area
			S7IDE	"0127" Table access stats mask
(2)	ADDRESS	2	S7ID	Table access stats id
			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	S7OCCLCLOS	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

CFS8D

Offset Hex	Type	Len	Name (Dim)	Description
(30)	FULLWORD	4	S7RQHIG	Return highest key
(34)	FULLWORD	4	S7RQRE	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
(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.
  @BANNER_START 02
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5697-E93
  @BANNER_END
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)	STRUCTURE	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	S8RQRE	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.
  @BANNER_START 02
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5697-E93
  @BANNER_END
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)	STRUCTURE	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...1		S9SIDE	"0129" CF DT main storage stats mask
(2)	ADDRESS	2	S9ID	CF DT main storage stats id
	... 1...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 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	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	Storage FREE requests
(30)	FULLWORD	4	S9ANYRQS	GETs which failed to get storage
(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	Storage FREE requests
(60)	FULLWORD	4	S9LOWRQS	GETs which failed to get storage
(64)	FULLWORD	4	S9LOWRQC	Compress (defragmentation) attempts
	.11. 1...		S9END	""
	.11. 1...		S9CLEN	""-S9LEN" Length of this DSECT

CLT

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)	STRUCTURE	0	DFHCLTDS	CLT DSECT
TYPE=INITIAL generated fields				
(0)	CHARACTER	1		Reserved
(1)	BITSTRING	1	CLTIVER	Version of CLT
	.... .1		CLTIVER1	"X'01" ..Version 1
(2)	BITSTRING	1	CLTIJESX	Type of JES
	.... .1.		CLTIJES2	"X'02" ..JES2
	.... .11		CLTIJES3	"X'03" ..JES3
(3)	CHARACTER	1	CLTIJCHR	JES identifier character
(4)	ADDRESS	4	CLTIIND1	Address of Index 1
	.... 1...		CLTJTAB	*** JES system identification ..table entry
(8)	CHARACTER	4	CLTJMVS	MVS system identifier
(C)	CHARACTER	4	CLTJJESN	JES2 or JES3 subsystem name
	...1		CLTJJES	***
(10)	CHARACTER	1	CLTJJ2ID	JES2 shared spool member number
	.... 1..1		CLTJTBL2	**CLTJTAB* Length of table entry for JES2
(10)	CHARACTER	8	CLTJJ3ID	JES3 name on MAINPROC
	...1		CLTJTBL3	**CLTJTAB* Length of table entry for JES3

TYPE=LISTSTART generated fields

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	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	4	CLT1ADI2	Address of Index 2 for this ..Alternate
	...1 .1..		CLT1LEN	**CLTI1DS* Length of Index 1 entry

TYPE=COMMAND and TYPE=WTO generated fields

CRB

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	CLTCDS	CLT COMMAND/WTO entry DSECT
(0)	BITSTRING	1	CLTCTYPE	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)	STRUCTURE	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
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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	CRBSVCSB	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

CSA

Offset Hex	Type	Len	Name (Dim)	Description
(58)	HALFWORD	2	CRBSVCIN	INSTR TO INVOKE INTER-RGN SVC
(5A)	CHARACTER	2	*	Reserved
(5C)	BIT(8)	1	CRBFLG1	FLAG BYTE
	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 ABENDED- 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.
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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
D
dummy change for apar pq48275

```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	524	DFHCSADS	SECTION - CSA
(0)	CHARACTER	0	DFHCSABA	COMMON SYSTEM AREA BEGIN ADDRESS
(0)	FULLWORD	4	CSAOSRSA (18)	CONTROL SYSTEM REGISTER AREA
(48)	CHARACTER	0	CSASOSI	SHORT ON STORAGE INDICATOR
(48)	BIT(8)	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	0	CSAKCMI	MAXIMUM NUMBER OF TASKS IND
(49)	BIT(8)	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	CSAQRCTCA	DO NOT USE: Non threadsafe. -> TCA of current task. Only valid when on QR TCB.
(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	CSAICSC	default DTIMOUT interval in seconds.
(5A)	BIT(8)	1	CSADATFT	DATE FORMAT INDICATOR
	1... ..		*	
	.1..		*	
	..1.		*	
	...1		*	
	.... 1...		*	
	.... .1..		CSADATFY	FORMAT AS YYMMDD
	.... ..1.		CSADATFD	FORMAT AS DDMMYY
	.... ...1		CSADATFM	FORMAT AS MMDDYY
(5B)	BIT(8)	1	CSAICIND	INTERVAL CONTROL INDICATOR

CSA

Offset Hex	Type	Len	Name (Dim)	Description	
	1... ..		*		
	.1.. ..		*		
	..1.		*		
	...1		CSAICMNR	AUTORESETTIME INDICATOR	
	.... 1...		*	
	.... .1..		*	
	.... .1.		CSAICITP	ADJUSTMENT TASK PENDING MASK
	.... ...1		CSAICIAJ	TIME-OF-DAY ADJUSTMENT MASK
(5C)	FULLWORD	4	CSATADJT	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)	BITSTRING	1	CSACPSM	Reserved for CPSM
#		1... ..	CSAONE	Reserved	
#		.111 1111	*	Reserved	
#	(71)	CHARACTER	3	*	Reserved
(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	CSASPFPA	ADDRESS OF SPECIAL FETCH- PROTECTED STORAGE AREA	
(84)	BIT(8)	1	CSATRMF1	TRACE SYSTEM MASTER FLAGS	
	1... ..		CSATRMAS	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)	BIT(8)	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		CSATRMST	TRACE TEMPORARY STORAGE
(86)	BIT(8)	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)	BIT(8)	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)	BIT(8)	1	CSATRMF5	TASK STORAGE SELECTION FLAGS	
	1... ..		*	Reserved	
	.1.. ..		CSATSKCR	TASK STORAGE = CURRENT	
	..11 1111		*	Reserved	
(89)	BIT(8)	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)	
<hr/>					
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)	BIT(8)	1	CSACIREL	CICS RELEASE	
(A0)	ADDRESS	4	CSAKCNAC	Task control	
(A4)	ADDRESS	4	CSASCNAC	Storage control	
(A8)	ADDRESS	4	CSAPCNAC	Program control	

CSA

Offset Hex	Type	Len	Name (Dim)	Description
(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?
	.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)	CHARACTER	4	*	Reserved
(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	*	Reserved
(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)	UNSIGNED	4	CSAQRTOK	Modename token of QR
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	*	Reserved
(134)	ADDRESS	4	CSATSATA	ADDRESS OF TEMPORARY STORAGE COMMON AREA
(138)	BIT(32)	4	CSATSIEC	TEMPORARY STORAGE INITIALISATION ECB
(13C)	ADDRESS	4	CSABRLKA	BRLK entry point
OPEN & CLOSE LIST				
(140)	ADDRESS	4	CSAPOLA	PROGRAM DATA SET OPEN LIST ADDRESS
(144)	ADDRESS	4	CSABRAIA	DFHBRFR entry point
(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	CSABRFRA	DFHBRFR entry point
(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)	FULLWORD	4	CSABACL2	BASE (LAST LOCAL MIDNIGHT) TOD CLOCK VALUE(4.096 MILLISECONDS RESOLUTION)
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)	BIT(8)	1	CSAXST1	CICS EXECUTION STATUS
	1... ..		*	
	.1.. ..		CSAXSTM	CICS CONTROLLED SHUTDOWN.. ..IF CSAXSTM IS ALSO SET
	..1.		CSAXSTMI	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)	BIT(8)	1	CSAXST2	CICS EXECUTION STATUS
	1... ..		*	
	.1.. ..		*	
	..1.		CSAXSQ2	2ND-STAGE OF QUIESCE

Offset Hex	Type	Len	Name (Dim)	Description
	...1		CSAXSQ1	1ST-STAGE OF QUIESCE
	.... 1...		*	
	.... .1..		CSAXSI3	3RD-STAGE INITIALIZATION
	.... ..1.		CSAXSI2	2ND-STAGE INITIALIZATION
	.... ...1		CSAXSI1	1ST-STAGE INITIALIZATION
(176)	BIT(8)	1	CSAXST3	CICS EXECUTION STATUS
	1...		*	
	.1..		*	
	..1.		*	
	...1		*	
	.... 1...		*	
	.... ..1.		*	
	.... ...1		*	
	.... ...1		CSAXSINC	CICS INITIALIZATION COMPLETE
(177)	BIT(8)	1	*(1)	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	CSASPPF2	addr of another fetch protected area
# (180)	ADDRESS	4	CSALETRU	Address of DFHLETRU
(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)	BIT(8)	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)	BIT(8)	1	CSARDATC	RELATIVE DATE COUNTER (BINARY)
(1BB)	BIT(8)	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

CSA

Offset Hex	Type	Len	Name (Dim)	Description
(200)	CHARACTER	3	CSAUTA4	USER TRANSACTION ACCUMULATOR 4
(203)	BIT(8)	1	*	DUMMY PROGRAM TYPE OF REQUEST SAVE AREA - USED BY DUMMY PROGRAMS AS FIELD CSATSTR
(204)	ADDRESS	4	CSABRTBA	DFHBRTB entry point
(208)	ADDRESS	4	CSABRTQA	DFHBRBRTQ entry point
(20C)	CHARACTER	0	CSACSAEA	END OF CSA

OPTIONAL FEATURE LIST

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	1496	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	CSACCNVA	Address of CCNV anchor
(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	CSACQSTA	Address of static storage for CQ (Console Queue)
(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	*	Reserved
(58)	ADDRESS	4	*	Reserved
(5C)	ADDRESS	4	CSASRAA	ADDRESS OF SRB CONTROL AREA
(5C)	HALFWORD	2	CSAOPFOE	
(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)	BIT(8)	1	CSAFEOPT	FERS OPTION BYTE
			1... ..	*
			.1.	*
			..1.	*
			...1	*
			.... 1...	*
			.... .1..	
			.... .1.	CSAFEAUX
			.... ...1	CSAFEWST
			.... ...1	CSAFERST
(70)	ADDRESS	4	CSADINAC	DATA INTERCHANGE MODULE ADDRESS
(74)	ADDRESS	4	CSASTYDP	CICS START-UP DATE IN THE FORM 0CYDDDD 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

CSA

Offset Hex	Type	Len	Name (Dim)	Description
(C8)	BIT(8)	1	CSACEEF1	Flag Byte
	1...		CSACEELD	CEECCICS loaded
	.1..		CSACEEIN	LE/370 initialized
	..1.		CSA_GLBLOPTS_SET	Global options processed
	...1		CSA_THREADSAFE	Global default THREADSAFE
	.... 1...		CSA_QUASIRENT	Global default QUASIRENT
	.... .1..		CSA_OPENAPI	Global default OPENAPI
	.... ..11		*	reserved
(C9)	BIT(8)	1	CSALANG	Language byte
	1...		ASMINIT	Assembler initialized by LE/370 *
	.1..		CINIT	C initialized by LE/370
	..1.		COBINIT	Cobol initialized by LE370 *
	...1		PLIINIT	PL/I initialized by LE/370 *
	.... 1...		RPGINIT	RPG initialized by LE/370
(CA)	BIT(8)	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	RUWAs are reusable
	.... 1...		CSA_ABEND_CANCEL	ABEND with CANCEL
	.... .1..		CSA_DUMP_SUPPRESS	dump suppression
	.... ..1.		CSA_LE_OTE_2	OTE stage2 support active
	.... ...1		CSA_LE_LDMDNAME	include module name in PGMINFO1 (storage tuning exit)
(CB)	BIT(8)	1	CSALEFUN2	active CICS/LE functions
	1...		CSA_LE_TUNE_SUP	LE supports automatic storage * tuning
	.1..		CSA_LE_AUTODST	LE will perform automatic storage tuning
	..1.		CSA_LE_REUSABLE_ENCLAVES	LE supports reusable enclaves
	...1		CSA_LE_SERVICE_RTNS	LE can use the CICS service routines
	.... 1...		CSA_LE_REAL_ENTRY	LE supports XPCFTCH real entry point
	.... .1..		CSA_LE_DEBUG_INFO	LE supports DPCC debugger information in PGMINFO1
	.... ..1.		CSA_LE_GOTO	LE drives goto
	.... ...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)	BIT(8)	1	*	Reserved
	1...		CSAPINIT	Partition Initialization for Languages has completed
	.1..		*	Reserved
	..11 1111		*	Reserved
(DD)	BIT(24)	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	CSAEEXNA	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 *

CSA

Offset Hex	Type	Len	Name (Dim)	Description	
(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	CSAUEHNA	ADDRESS OF USER EXIT HANDLER PROGRAM	
(180)	ADDRESS	4	*	Reserved	
(184)	ADDRESS	4	CSAMCYEA	addr BMS MAPPINGDEV module DFHMCY	
(188)	ADDRESS	4	CSAXFXNA	ADDRESS OF FAST-PATH TRANSFORMER PROGRAM	
(18C)	ADDRESS	4	*	Reserved	
(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 SERVS	
(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	
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	
(1F4)	UNSIGNED	1	CSADLRRC	DLI RESTART TASK POST BIT	
(1F5)	CHARACTER	3	*	DLI RESTART TASK RETURN CODE *	
				Reserved	
(1F8)	ADDRESS	4	CSAILBOC	ADDRESS OF OS/VS COBOL ILCOM MODULE	
(1FC)	BIT(8)	1	CSARUPBT	EMERGENCY RESTART DFHRUP FLAG BYTE	
			1...	CSAERMSG	
(1FD)	BIT(8)	1	*	'YES' TO MSG DFH2839 ISSUED DURING E/R	
				RESERVED	
(1FE)	BIT(8)	1	*	RESERVED	
				RESERVED	
(1FF)	BIT(8)	1	*	RESERVED	
(200)	CHARACTER	8	CSAURDTK	URD/non-task DWE subpool token	
CATALOG CONTROL FLAG BYTES					
(208)	BIT(8)	1	CSACATFL	CATALOG flag byte	
			1...	CSACATDF	
				CATALOG defined	
(209)	BIT(8)	1	CSALOGFL	SYSTEM LOG flag byte	
			1...	CSALOGDF	
			.1.	CSALOGDI	
			.1.	CSALOGTP	
				.. on disk	
				.. on tape	
(20A)	BIT(8)	1	*	Reserved	
(20B)	BIT(8)	1	*	Reserved	
INTER-REGION COMMUNICATION FLAG BYTES					
(20C)	BIT(8)	1	CSACRFL1	CICS REGION FLAG BYTE	
			1...	CSACRNTC	
			.1.	CSACRNXF	
			.1.	CSACRNAU	
			...1	CSACRSTF	
				HIGH-LEVEL STAE FAILED	
(20D)	BIT(8)	1	CSACRFL2	CICS REGION FLAG BYTE 2	
			1...	CSACRASS	
			.1.	CSACRWEA	
				ASSOCIATE has been issued	
				MRO work queue els acquired *	
BASIC MAPPING SUPPORT FLAG BYTE					
(20E)	BIT(8)	1	CSABMSFL	BMS FLAG BYTE	
			1...	CSACSPQI	
			.1.	CSAALIGN	
			.1.	CSANDDS	
			...1	CSANSKR	
				NO TRANSACTION CSPQ HAS BEEN INITIATED	
				PRE 1.6 MAPS ARE ALIGNED	
				NO DEVICE DEPENDENT SUFFIXING	
				NO SINGLE KEY RETRIEVAL	
(20F)	BIT(8)	1	*	Reserved	
DFHPILSQ FLAGS					
#	(210)	BIT(8)	1	CSAPIFLG	DFHPILSQ FLAGS
#				1...	CSAPIMSG_ISSUED
#					MSG DFHP10118 ISSUED

Offset Hex	Type	Len	Name (Dim)	Description
SIGNON COMPONENT FIELDS				
(211)	BIT(8)	1	CSASNFLG	SIGNON COMPONENT FLAGS
	1... ..		CSASNXRFB	COPY OF SITXSFRFC FLAG
(212)	BIT(8)	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)	BIT(8)	1	*	...FROM CICS SVC
(221)	BIT(8)	1	CSASVSNO	SERVICS SVC NUMBER
(222)	CHARACTER	2	CSASISVC	SERVICE INITIATION SVC...
(222)	BIT(8)	1	*	...FROM SRBSVC
(223)	BIT(8)	1	CSASISNO	SERVICE INIT.SVC NUMBER
STATISTICS FIELDS				
(224)	HALFWORD	2	*	Reserved
(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 for VS COBOL II (now redundant)				
(260)	FULLWORD	4	*	Reserved
(264)	BIT(32)	4	*	Reserved
(268)	CHARACTER	8	*	Reserved
(270)	ADDRESS	4	*	Reserved
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
MQ stub entry points these entry points are resolved during CICS initialisation by loading the MQ stub. They are used by the MQ SIBus support in DFHPITQ1.				
(280)	ADDRESS	4	CSA_MQOPEN_EP	MQ OPEN entry point
(284)	ADDRESS	4	CSA_MQCLOSE_EP	MQ CLOSE entry point
(288)	ADDRESS	4	CSA_MQGET_EP	MQ GET entry point
(28C)	ADDRESS	4	CSA_MQPUT1_EP	MQ PUT1 entry point
(290)	ADDRESS	4	CSA_MQINQ_EP	MQ INQ entry point
(294)	FULLWORD	4	*	Reserved
(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	0	CSAOPF5S	START OF BLOCK 5
(2A8)	BIT(8)	1	CSAPLTSC	PLTPI security options
	1... ..		CSAPLTCM	Command level check
	.1. . . .		CSAPLTRS	Resource level check
	..11 111.		*	Reserved
	.... ..1		CSAPLTYS	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

CSA

Offset Hex	Type	Len	Name (Dim)	Description
(2D4)	CHARACTER	8	CSAEDFTK	EDF Subpool token
(2DC)	ADDRESS	4	CSADBCR	address of DFHDBCR
(2E0)	ADDRESS	4	CSASKCEP	Entry point of DFHSKC
(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	0	CSAOPF5E	END OF BLOCK 5
(2FC)	CHARACTER	0	CSAOPF6S	START OF BLOCK 6
(2FC)	CHARACTER	4	*	reserved
(300)	CHARACTER	0	*	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	CSADUANT	Subpool token for USER key above 16M
(3B0)	CHARACTER	0	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	416	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	CSAEIDEF	2A All DEFINE commands
(408)	ADDRESS	4	CSAEIDEL	2C All DELETE commands
(40C)	ADDRESS	4	CSAEIINS	2E All INSTALL commands

CSA

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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	CSAEITRX	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 Resetttime
(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	*	8E Reserved
(4D0)	ADDRESS	4	CSAEIUOW	90 INQ UOW UOWENQ UOWLINK
(4D4)	ADDRESS	4	CSAEIQL	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 TCP/IPSERVICE
(4EC)	ADDRESS	4	CSAEIQDH	9E Inq DOCTEMPLATE
(4F0)	ADDRESS	4	*	A0 Used by CEDA
(4F4)	ADDRESS	4	*	A2 Reserved for CEDA
(4F8)	ADDRESS	4	*	A4 Reserved for CEDA
(4FC)	ADDRESS	4	*	A6 Reserved
(500)	ADDRESS	4	*	A8 Reserved
(504)	ADDRESS	4	*	AA Reserved
(508)	ADDRESS	4	*	AC Reserved
(50C)	ADDRESS	4	*	AE Reserved
(510)	ADDRESS	4	CSAEIQSY	B0 INQ/SET JVMPOOL
(514)	ADDRESS	4	CSAEIQEJ	B2 INQ EJB Commands
(518)	ADDRESS	4	CSAEIQBR	B4 INQ BRFACILITY
(51C)	ADDRESS	4	CSAEIQDI	B6 INQ/SET DISPATCHER
(520)	ADDRESS	4	CSAEIQWR	B8 INQ/SET WORKREQUEST
(524)	ADDRESS	4	*	BA Reserved for CSDUP
(528)	ADDRESS	4	CSAEIQPI	BC INQ/SET Pipeline
(52C)	ADDRESS	4	CSAEIQWB	BE INQ/SET WEB, URIMAP
(530)	ADDRESS	4	CSAEIPI	C0 WEBSERVICE API
(534)	ADDRESS	4	*	C2 Reserved
(538)	ADDRESS	4	*	C4 Reserved
(53C)	ADDRESS	4	*	C6 Reserved
(540)	ADDRESS	4	*	C8 Reserved
(544)	ADDRESS	4	*	CA Reserved
(548)	ADDRESS	4	*	CC Reserved
(54C)	ADDRESS	4	*	CE Reserved

End of EXEC module address vector

Vector of routines provided to Language Environment

(550)	CHARACTER	136	CSA_CEL_ SERVICE_VECTOR
(550)	FULLWORD	4	CSA_CEL_SERVICE_ VECTOR_LENGTH

CSA

Offset Hex	Type	Len	Name (Dim)	Description
(554)	BIT(32)	4	CSA_CEL_ SERVICE_FLAGS	
(554)	BIT(8)	1	CSA_CEL_ SERVICE_ FLAG_BYTE1	
	1...		CSA_DFHGCAA_ AVAIL	
	.1..		CSA_DFHSCAA_ AVAIL	
	..1.		CSA_DFHLEGM_ AVAIL	
	...1		CSA_DFHLEFM_ AVAIL	
	.... 1...		CSA_DFHLEAS_ AVAIL	
	.... .1..		CSA_DFHLEDS_ AVAIL	
	.... ..1.		CSA_DFHLEGQ_ AVAIL	
	.... ...1		CSA_DFHLEFQ_ AVAIL	
(555)	BIT(8)	1	CSA_CEL_ SERVICE_ FLAG_BYTE2	
	1...		CSA_DFHLETR_ AVAIL	
	.1..		CSA_DFHLEDT_ AVAIL	
	..1.		CSA_DFHLETR_ AVAIL	
	...1 1111		*	resrvd
(556)	BITSTRING	1	CSA_CEL_ SERVICE_ FLAG_BYTE3	resrvd
(557)	BIT(8)	1	CSA_CEL_ SERVICE_ FLAG_BYTE4	resrvd
(558)	CHARACTER	128	CSA_CEL_ SERVICE_ROUTINES	resrvd
(558)	ADDRESS	4	CSA_DFHGCAA_ ADDRESS	
(55C)	ADDRESS	4	CSA_DFHSCAA_ ADDRESS	
(560)	ADDRESS	4	CSA_DFHLEGM_ ADDRESS	
(564)	ADDRESS	4	CSA_DFHLEFM_ ADDRESS	
(568)	ADDRESS	4	CSA_DFHLEAS_ ADDRESS	
(56C)	ADDRESS	4	CSA_DFHLEDS_ ADDRESS	
(570)	ADDRESS	4	CSA_DFHLEGQ_ ADDRESS	
(574)	ADDRESS	4	CSA_DFHLEFQ_ ADDRESS	
(578)	ADDRESS	4	CSA_DFHLETR_ ADDRESS	
(57C)	ADDRESS	4	CSA_DFHLEDT_ ADDRESS	
(580)	ADDRESS	4	CSA_DFHLETR_ ADDRESS	
(584)	ADDRESS	4	* (21)	reserved
End of service routine vector				
END OF OPTIONAL FEATURES LIST				
(5D8)	CHARACTER	0	*	Reserved

Constants

Len	Type	Value	Name	Description
CONSTANTS				
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	61	CSAC61	VERSION 6, RELEASE 1
1	HEX	62	CSAC62	VERSION 6, RELEASE 2
1	HEX	63	CSAC63	VERSION 6, RELEASE 3

CTXPA

Len	Type	Value	Name	Description
1	HEX	64	CSAC64	VERSION 6, RELEASE 4
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 CSADLRRC				
1	DECIMAL	0	CSADLRNM	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	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	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
	.... .1.1		CTEIDFL	"X'01" IDENTIFY Failed
	.... .1.		CTECANC	"X'02" INIT request failed
	.... .1.11		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	CTECCR	DBCTL Command Recognition character
(19)	CHARACTER	1	CTERGTY	DBCTL Region type
	.... .1.1		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
	.... .1.1		CTESSF	"X'01" MVS SSI Failure
	.... .1.		CTEABND	"X'02" DBCTL Abend
	.... .1.11		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
	.... 111.		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

DBU

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)	STRUCTURE	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!" 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
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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)	STRUCTURE	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	STAEIMAX	Elapsed time at max threads
(3C)	FULLWORD	4	STAHWAT	Hi-water for No. of threads

DBWMS

Offset Hex	Type	Len	Name (Dim)	Description
(40)	FULLWORD	4	STAPSBSU	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
	.1.1 .1..		DBUCLN	**-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 ids 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_WMSDBCID	IMS ssid
(4)	CHARACTER	8	DXMSG_WMSRSEN	IMS RSE name
(C)	CHARACTER	8	DXMSG_WMSJNAME	IMS MVS jobname
(14)	CHARACTER	8	DXMSG_WMSJOBID	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_WMSSTOK	MVS system intance token
(35)	CHARACTER	4	DXMSG_WMSJESID	SSID of active JES
(3A)	HALFWORD	2	DXMSG_WMSASID	IMS MVS asid
(3C)	CHARACTER	1	DXMSG_WMSITYPE	IMS region type
(40)	FULLWORD	4	DXMSG_WMSUERC	User Exit Return Code
(44)	BIT(32)	4	DXMSG_WMSCTIME	IMS connect time
(48)	BIT(32)	4	DXMSG_WMSDIME	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

DCR

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
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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	0	DCRECST	START OF FIRST RECORD

STANDARD RECORD HEADING

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	RECORD_HEADER	
(0)	UNSIGNED	2	DCRECLN	RECORD LENGTH
(2)	UNSIGNED	2	*	PADDING INIT(0)
(4)	BIT(8)	1	DCIRTSI	RECORD TYPE
(5)	BIT(8)	1	DCIND1	EXCESS LENGTH INDICATOR
			*	SPARE
			...1	DCLAST ..LAST RECORD IN BLOCK
			... 1...	DCRESTRT .. DUMP TO BE RESTARTED
			... .1..	DCDUPLS .. DUPLICATE LINES SKIPPED
			... ..1.	DCCONTN .. CONTINUATION RECORD
			... ...1	DCOVRLN .. OVER-LENGTH RECORD
(6)	BIT(8)	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 DFHDPC
			... .1..	DCNCICIC .. NON-CICS STORAGE OK
			... ..1.	DCNONCIC .. NON-CICS STORAGE UNEXPECTEDY
			... ...1	DCBADSAA .. STORAGE ACCOUNTING ERROR
(7)	BIT(8)	1	DCSPACE	SPACING CONTROL
(8)	CHARACTER	0	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	*	

DCR

Offset Hex	Type	Len	Name (Dim)	Description
(C)	CHARACTER	0	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)	BIT(8)	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	

DCR

Offset Hex	Type	Len	Name (Dim)	Description
(0)	FULLWORD	4	DCCBST	DATA START POINT
(4)	CHARACTER	6	DCCBNAME	CONTROL BLOCK NAME
(A)	CHARACTER	0	DCCBEND	DATA END POINT
(A)	CHARACTER	0	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 & 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
EQUATES FOR VALUE OF RECORD IDENTIFIER FIELD (DCIRTSI)				
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	DCDITC	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

DCR

#	Len	Type	Value	Name	Description
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	DCTU31IC	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
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
#	EQUATE VALUES OF FULL DATE FORMAT FIELD (DCDATFM)				
#	1	DECIMAL	1	DC_YYYYMMDD	
#	1	DECIMAL	2	DC_DDMYYYYY	
#	1	DECIMAL	3	DC_MMDDYYYY	

DCT

DCT Destination control table

MODULE NAME = DFHDCTPS
 DESCRIPTIVE NAME = **Transient Data Queue Entries**
 CICS/ESA AP Domain
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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)	BIT(8)	1	TDDCTDT	Attributes
	1... ..		TDINDTBM	- intrapartition (I/P)
	.1.. ..		TDEXTRBM	- extrapartition (E/P)
	..1.		TDINDBM	- indirect
	...1		TDRMTBM	- remote
	.... 1...		TDTIBM	- (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)

DCT

Offset Hex	Type	Len	Name (Dim)	Description
(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)	BIT(8)	1	TDTDSFLO	Type independent status
	1... ..		TDDCT_ENABLED	- Enabled
	.1.. ..		TDDCT_DISABLING	- Disabling
	..1.		TDDCT_DISABLED	- Disabled
	...1		TDTRIGRM	- 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..		TDSCHFAI	- msg has been put out to warn of Tran Schedule Fail
	.... ..1.		TDSUSFAI	- msg has been put out to warn of US call failure
	.... ...1		*	- Reserved
(35)	BIT(8)	1	TDTDSFL1	Type dependent status - 1
(36)	BIT(8)	1	TDTDSFL2	Type dependent status - 2
(37)	BIT(8)	1	TDTDSFL3	Type dependent status - 3
(38)	CHARACTER	0	*	

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)	BIT(8)	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)	BIT(8)	1	*	Type independent status
(35)	BIT(8)	1	*	Type dependent status - 1
(36)	BIT(8)	1	*	Type dependent status - 2
(37)	BIT(8)	1	*	Type dependent status - 3
(38)	CHARACTER	8	*	Associated queue
(38)	CHARACTER	4	TDDCTIDN	- N(indirect queue)
(3C)	ADDRESS	4	*	Reserved
(40)	CHARACTER	0	*	

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)	BIT(8)	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)	BIT(8)	1	*	Type independent status
(35)	BIT(8)	1	*	Type dependent status - 1
(36)	BIT(8)	1	*	Type dependent status - 2
(37)	BIT(8)	1	*	Type dependent status - 3
(38)	CHARACTER	0	*	

DCT

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)	BIT(8)	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)	BIT(8)	1	*	Type independent status
(35)	BIT(8)	1	TDEXSFL1	Type dependent status - 1
			TDEXOPIN	- OPEN = INITIAL
			*	- Reserved
(36)	BIT(8)	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)	BIT(8)	1	TDEXSFL3	Type dependent status - 3
			TDEXNOSP	- NOSPACE raised
			TDEXQZER	- QZERO raised
			TDEXABND	-abend occurred
			TDEXIOER	- I/O error occurred
			*	- Reserved
(38)	BIT(8)	1	TDEXDISP	Disposition
			TDEXSHR	- SHR
			TDEXOLD	- OLD
			TDEXMOD	- MOD
			*	- reserved
(39)	BIT(8)	1	*	- reserved
(3A)	BIT(8)	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	0	*	

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)	BIT(8)	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)

DCT

Offset Hex	Type	Len	Name (Dim)	Description
(24)	CHARACTER	4	*	- N(remote queue)
(28)	CHARACTER	8	*	- RDO group identifier
(30)	HALFWORD	2	*	- Default data length
(32)	HALFWORD	2	*	- Reserved
(34)	BIT(8)	1	*	Type independent status
(35)	BIT(8)	1	TDINSFL1	Type dependent status - 1
			TDDCTSPR	- physically recoverable
			TDDCTSLR	- logically recoverable
(36)	BIT(8)	1	*	Type dependent status - 2
(37)	BIT(8)	1	*	Type dependent status - 3
			TDDCT_START_RBA_REC	Start RBA recovered
			TDDCT_READ_RBA_REC	Read RBA recovered
			TDDCT_WRITE_RBA_REC	Write RBA recovered
			TDDCT_NUMELEMS_REC	Numelems recovered
			TDDCT_TDTIBM_REC	TDIBM recovered
			*	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	
				-> to TDQUB
(68)	FULLWORD	4	*	Reserved
(6C)	CHARACTER	8	TDDCT_UOW_OWNING_READ_NQ	Owning UOWID
(74)	CHARACTER	16	*	
(74)	ADDRESS	4	TDDCT_WRITE_TDQUB_PTR	
				-> to TDQUB
(78)	FULLWORD	4	*	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)	BIT(8)	1	TDDCT_PR_LOG_RECORD_TYPE	Record type
			TDDCT_READQ	READQ
			TDDCT_WRITEQ	WRITEQ
			TDDCT_DELETEQ	DELETEQ
			TDDCT_FIRST_WRITEQ	First write
			*	Reserved
(A5)	CHARACTER	3	*	
(A5)	BIT(8)	1	TDDCT_FLAGS	Flag byte
			*	Reserved
			TDDCT_UNCOMMIT_DATA_WRITTEN	Uncommitted data written to queue
			TDDCT_Q_INDOUBT	Q indoubt
			*	Reserved
(A6)	CHARACTER	2	*	Reserved

DCT

Offset Hex	Type	Len	Name (Dim)	Description
(A8)	ADDRESS	4	TDDCT_SUSPEND_TOKEN	DSSR suspnd token@PAA
(AC)	CHARACTER	8	*	
(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)	BIT(8)	1	TDDCT_INDOUBT	Indoubt option for LR Q's
			TDDCT_REJECT	Reject
			TDDCT_HEURISTIC	Heuristic
			TDDCT_QUEUE	Queue
			*	Reserved
(C5)	BIT(8)	1	*	Reserved Userid data for ..non-terminal ATI
(C6)	BIT(8)	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	0	*	

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)	BIT(8)	1	DCTS DRW	REWIND status
			DCTS DSLE	- LEAVE
			DCTS DSRE	- REREAD
			*	- Reserved
(15)	BIT(8)	1	DCTS DTF	TYPEFLE status
			DCTS DSOP	- OUTPUT
			DCTS DSIP	- INPUT
			DCTS DSRB	- RDBACK
			*	- Reserved
(16)	BIT(8)	1	*	Reserved
(17)	BIT(8)	1	*	Reserved
(18)	BIT(8)	1	DCTS DSRF	record format
			DCTS DSUF	- undefined format
			DCTS DSFF	- fixed format
			DCTS DSVF	- variable format
			*	- Reserved (refer to IHADCB)
			DCTS DSRB	- blocked records
			*	- Reserved (refer to IHADCB)
			DCTS DSCA	- ASA control char
			DCTS DSCM	- machine control char
			*	- Reserved (refer to IHADCB)
(19)	BIT(8)	1	*	Reserved
(1A)	HALFWORD	2	DCTS DSBL	block length
(1C)	HALFWORD	2	DCTS DSRL	(maximum) record length
(1E)	HALFWORD	2	*	- Reserved
(20)	ADDRESS	4	DCT DIAA	Address of Shadow Buffer
(24)	HALFWORD	2	DCT DIAL	Length of Shadow Buffer
(26)	HALFWORD	2	*	Reserved
(28)	CHARACTER	4	*	DCB abend exit data
(28)	BIT(16)	2	DCTS DSCC	- system completion code held in the first 12 bits
(2A)	UNSIGNED	1	DCTS DRC	- return code completion code qualifier
(2B)	BIT(8)	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

DGB

Offset Hex	Type	Len	Name (Dim)	Description
(2C)	CHARACTER	96	DCTSDDCB	DCB DCB DDNAME=TRANDATA, DSORG=PS, MACRF=(GL,PL)
(8C)	CHARACTER	0	*	

Constants

Len	Type	Value	Name	Description
8	CHARACTER	>TDQUEUE	TDQUEUE_PREFIX	

DGB DBCTL-CICS Global Block

CONTROL BLOCK NAME = DFHDGB
(In DFHDBCOP, invoked via DFHDBMAC)
(Invoked by DFHDLPG DGB=DSECT)
DESCRIPTIVE NAME = CICS DBCTL-CICS Global Block
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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->OPFL->DLP->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

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		DGBABORT	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 DFHRMCA 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				

DGB

Offset Hex	Type	Len	Name (Dim)	Description
	.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 DFHDBCON 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
(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	DGBTOME	Exit name
(80)	ADDRESS	4	DGBTOMA	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	DGBJOBIN	DBCTL job name
(BC)	UNSIGNED	2	DGBASID	DBCTL ASID
(BE)	CHARACTER	8	DGBJOBID	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	DGBDIME	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	DFHDGBCTA	
Control transaction information				
(0)	ADDRESS	4	DGBCWEHD	Control trans. work elements header
(4)	CHARACTER	1	DGBCTL	Control transaction flag
	1... ..		DGBCTLATT	Control transaction attached
	.111 1111		*	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
Possible values of DGBDSTAT				
1	HEX	00	DGBDSHUT	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

DHTX

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
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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)	STRUCTURE	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... ..		DIBIFDSS	"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 DIBDIFL2
(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

DIB

Offset Hex	Type	Len	Name (Dim)	Description
(1A)	BITSTRING	1	DIBDSF	DESTINATION SELECTION FIELD
(1B)	BITSTRING	1	DIBIERCI	EXCHANGE RECORD LENGTH
(1C)	BITSTRING	1	DIBIRSV2 (2)	RESERVED
(1E)	BITSTRING	1	DIBDNL	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	"X00" DEFAULT
....	...1		DIBDSPBA	"X01" BASE
....	..11		DIBDSPJB	"X03" JOB DSP
....	.1..		DIBDSPRW	"X04" WP RAW
....	.11.		DIBDSP11	"X06" OII LEVEL 1
....	.111		DIBDSP12	"X07" OII LEVEL 2
....	1...		DIBDSP13	"X08" 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	DIBIERCI	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)	

DJEPC Enterprise Java Commarea Event

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	278	EJDE_COMMAREA	
(0)	CHARACTER	32	EJDE_DJAR	
(20)	UNSIGNED	1	EJDE_EVENTCODE	
(21)	UNSIGNED	1	EJDE_EVENTTYPE	
(22)	CHARACTER	4	EJDE_CORBASERVER	
(26)	CHARACTER	240	EJDE_BEANNAME	

Constants

Len	Type	Value	Name	Description
1	DECIMAL	1	EJDE_EVENTTYPE_INFO	
1	DECIMAL	2	EJDE_EVENTTYPE_WARNING	
1	DECIMAL	3	EJDE_EVENTTYPE_ERROR	

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)	STRUCTURE	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	DLDPPEP	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

DSB DBCTL Scheduling block

CONTROL BLOCK NAME = DFHDSB
(In DFHDBCOP, invoked via DFHDBMAC)
(Invoked by DFHDLP DSB=DSECT)
DESCRIPTIVE NAME = CICS DBCTL Scheduling Block
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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)	BIT(8)	1	DSBFLAGS 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
	.... .1..		DSBPREP	We have seen prepare
	.... ..1.		*	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 getm'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
(46)	CHARACTER	1	*	Reserved
(47)	CHARACTER	1	DSBCTLCT	DBCTL Inv'n count
(48)	FULLWORD	4	DSBSEGL	Segment length
(4C)	ADDRESS	4	DSBSEGA	Segment address

DSB

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	DSBINUSXA	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	DSBINBCID	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	DSBTTERESPA	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
(3)	CHARACTER	1	*	Reserved
(4)	UNSIGNED	4	DSBTETPRETC	Return code from the PAPL

DSB

Offset Hex	Type	Len	Name (Dim)	Description
(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)	BIT(8)	1	DSBPSFLAGS	
#	1111 1.1.		*	Reserved
#	.... .1..		DSBPSP31	PCBLOC 31
	.... ...1		DSBPSPSK	DRA supports PSK
(4)	UNSIGNED	4	DSBPSPRETC	Return Code from the PAPL
(8)	ADDRESS	4	DSBPSPCBL	Address of PCB list
(C)	ADDRESS	4	DSBPSPBPCB	Address of first DBPCB
(10)	FULLWORD	4	DSBPSPMAXIO	Maximum IO size
(14)	FULLWORD	4	DSBPSPMAXKE	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 PAPLRETC response code from the DRA

DSB

Offset Hex	Type	Len	Name (Dim)	Description
(4)	STRUCTURE	4	DSBPRETC	
(4)	BIT(8)	1	DSBPRETC_FLAGS	Flag values
(5)	BIT(12)	2	DSBPRETC_SYSTEM	System abend code
(6)	BIT(12) POS(5)	2	DSBPRETC_USER	User abend code

Constants

Len	Type	Value	Name	Description
Possible values of DSBTERT				
1	CHARACTER	0	DSBTERT_ORD	
1	CHARACTER	I	DSBTERT_IMM	
1	CHARACTER	A	DSBTERT_ABND	
Possible values of DSBRTTP				
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 DSLSFL				
1	HEX	80	DSLSFL_CICS	CICS tasks classed as short
Possible values of DSBTETYP, i.e. the field that DSBTETYP 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	DSBPRETC_ABEND_SNAP	abend + snap
1	HEX	88	DSBPRETC_ABEND	abend
1	HEX	84	DSBPRETC_ABEND_DRASNAP	abend + DRA snap
1	HEX	40	DSBPRETC_STATUS	status code
1	HEX	00	DSBPRETC_RETURN	return code

DSG

DSG Dispatcher statistics

CONTROL BLOCK NAME = DFHDSGDS
 DESCRIPTIVE NAME = CICS Dispatcher Statistics
 @BANNER_START 02
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 5697-E93
 @BANNER_END
 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)	STRUCTURE	0	DFHDSGDS	Dispatcher Domain DSECT
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	DSGLEN	Length of data area
	..11 11..		DSGIDE	"0060" 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

DSGLEN includes the length of the (standard statistics record hdr of 8 bytes + DSGHDR + DSGSTATS) effectively giving the offset to the first entry in the TCB_MODE_STATS array.
 DSGASIZE gives the number of entries in the TCB_MODE_STATS array.
 DSGPSIZE gives the number of entries in the TCB_POOL_STATS array.

(8)	FULLWORD	4	DSGHDR (0)	Dispatcher Global Stats Header
(8)	HALFWORD	2	DSGLEN	Global stats length
(A)	HALFWORD	2	DSGASIZE	No. of DSGTCBM dsects supplied
(C)	HALFWORD	2	DSGPSIZE	No. of DSGTCBP dsects supplied
(E)	HALFWORD	2		Reserved

Dispatcher Stats fields begin here.

(10)	FULLWORD	4	DSGSTATS (0)	Dispatcher Global Stats
(10)	FULLWORD	4	DSGICVT	Current ICV time
(14)	FULLWORD	4	DSGICVRT	Current ICVR Time
(18)	HALFWORD	2	DSGICVSD	Current ICVTSD time
(1A)	HALFWORD	2	DSGPRIAG	Priority aging
(1C)	HALFWORD	2	DSGSTSKS	Subtasks value
(1E)	HALFWORD	2	DSGMBTCH	QR Batching (MRO) value
(20)	BITSTRING	4		Reserved
(24)	HALFWORD	2	DSGCNT	Current number of tasks
(26)	HALFWORD	2	DSGPNT	Peak number of tasks
(28)	BITSTRING	8		Reserved
(30)	BITSTRING	8		Reserved

The following 2 fields contain the sub-dispatcher start time expressed in GMT and Local STCK formats respectively.

(38)	BITSTRING	8	DSGSTART	GMT STCK Sub-Disp start time
(40)	BITSTRING	8	DSGLSTRT	Local STCK Sub-Disp start time
(48)	BITSTRING	8	DSGEJST	Elapsed Job Step timing
(50)	BITSTRING	8	DSGSRBT	Accumulated SRB time

Offset Hex	Type	Len	Name (Dim)	Description
(58)	BITSTRING	8		Reserved
(60)	FULLWORD	4		Reserved
(64)	FULLWORD	4		Reserved

Excess TCB Management Global Statistics.

(68)	FULLWORD	4	DSGXSCNS	No. of excess TCB scans
(6C)	FULLWORD	4	DSGXSCNN	No. of scans - no TCB detached
(70)	FULLWORD	4	DSGXTCBD	Total no. excess TCBs detached
(74)	FULLWORD	4		Reserved
(78)	BITSTRING	8		Reserved
	1... ..		DSGMEND	***
	1... ..		DSGMCLEN	**DSGLEN" Length of Global Stats

TCB Mode Statistics
 The stats for the Dispatcher TCB Modes are kept in a fixed length array. The number of entries in the array is in field DSGASIZE located at the beginning of the DSGHDR.
 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 = Sockets Pthread Owning mode (SP)
 TCB10 = D2 - DB2 mode
 TCB11 = JM - JVM ClassCache mode
 TCB12 = S8 - Sockets (SSL) mode
 TCB13 = L8 - Open mode
 TCB14 = L9 - Open mode
 TCB15 = J8 - Open mode
 TCB16 = J9 - Open mode
 TCB17 = X8 - Open mode
 TCB18 = X9 - Open mode

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DSGTCBM	TCB Mode Stats
(0)	CHARACTER	2	DSGTCBNM	TCB Mode Name
(2)	BITSTRING	1	DSGTCBMD	TCB Mode
	.... ..		DSGTCBMU	"X'00" X'00' = Unknown Mode
	.... ..1		DSGTCBMN	"X'01" X'01' = Not Open Mode
	.... ..1.		DSGTCBMO	"X'02" X'02' = Open Mode
(3)	BITSTRING	1		Reserved
(4)	HALFWORD	2	DSGTCBMP	TCB Mode Pool number
	.... ..		DSGTCBP0	"0" 0 = TCB Pool Not Applicable
	.... ..1		DSGTCBP1	"1" 1 = TCB Pool Open
	.... ..1.		DSGTCBPJ	"2" 2 = TCB Pool JVM
	.... ..11		DSGTCBPX	"3" 3 = TCB Pool XPLink
	.... ..1..		DSGTCBPS	"4" 4 = TCB Pool SSL
(6)	BITSTRING	2		Reserved
(8)	FULLWORD	4	DSGNTCBA	No. of TCB attaches
(C)	FULLWORD	4	DSGTCBAF	No. of TCB attach failures
(10)	FULLWORD	4	DSGTCBCA	Current No. of TCBs attached
(14)	FULLWORD	4	DSGTCBPA	Peak No. of TCBs attached
(18)	FULLWORD	4		Reserved
(1C)	FULLWORD	4	DSGTCBCU	Current No. TCBs used by mode
(20)	FULLWORD	4	DSGTCBPU	Peak No. TCBs used by mode
(24)	FULLWORD	4		Reserved
(28)	FULLWORD	4		Reserved
(2C)	FULLWORD	4	DSGTCBAL	No. TCB Allocates to task
(30)	FULLWORD	4		Reserved
(34)	FULLWORD	4	DSGTCBDU	No. of TCB detaches - unclean
(38)	FULLWORD	4	DSGTCBDS	No. of TCB detaches - stolen
(3C)	FULLWORD	4	DSGTCBDX	No. of TCB detaches - excess
(40)	FULLWORD	4	DSGTCBDO	No. of TCB detaches - other
(44)	FULLWORD	4		Reserved
(48)	FULLWORD	4	DSGTCBST	No. of TCB steals
(4C)	FULLWORD	4	DSGTCBMM	No. of TCB mismatches
(50)	FULLWORD	4	DSGSYSW	No. of partition exits
(54)	FULLWORD	4		Reserved

The following CL8 definitions are really "Store Clock" format

(58)	BITSTRING	8	DSGTWT	Cum real time CICS in OS wait
(60)	BITSTRING	8	DSGTDI	Cum real time TCB disp by MVS
(68)	BITSTRING	8	DSGTCT	Cum CPU time for DS task
(70)	BITSTRING	8	DSGACT	Cum CPU time for TCB
(78)	BITSTRING	8		Reserved
(80)	BITSTRING	8		Reserved
	1... 1..		DSGMDEND	***

DSG

Offset Hex	Type	Len	Name (Dim)	Description
	1... 1...		DSGMDLEN	**DSGTCBM" Length of a TCB Mode stats

TCB Pool Statistics

The stats for the Dispatcher TCB Pools are kept in a fixed length array. The number of entries in the array is in field DSGPSIZE located at the beginning of the DSGHDR.

The TCB pool number to dispatcher pool map is as follows:

TCB POOL(1) = MAXOPENTCBS
 TCB POOL(2) = MAXJVMTCBS
 TCB POOL(3) = MAXXPTCBS
 TCB POOL(4) = MAXSSLTCBS

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DSGTCBP	TCB Pool Stats
(0)	HALFWORD	2	DSGTCBPN	TCB Pool Number
(2)	BITSTRING	2		Reserved
(4)	FULLWORD	4	DSGMXTCB	Max number of TCBs
(8)	FULLWORD	4	DSGCNUAT	Current TCBs attached
(C)	FULLWORD	4	DSGPNUAT	Peak TCBs attached
(10)	FULLWORD	4	DSGCNUUS	Current TCBs in use
(14)	FULLWORD	4	DSGPNUUS	Peak TCBs in use
(18)	BITSTRING	8		Reserved
(20)	FULLWORD	4	DSGNTCBL	No. times at TCB Pool Limit
(24)	FULLWORD	4		Reserved
(28)	BITSTRING	8	DSGTOTWL	Total Wait Time at TCB limit
(30)	BITSTRING	8	DSGCRWT	Current waiting time
(38)	BITSTRING	8	DSGTOTMT	Total MVS storage constraint delay time
(40)	FULLWORD	4	DSGTOTNW	Total number of waits
(44)	FULLWORD	4	DSGTOTMW	Requests delayed by MVS storage constraint
(48)	FULLWORD	4	DSGURNW	Current No. of tasks waiting for a TCB
(4C)	FULLWORD	4	DSGPEANW	Peak No. of tasks waiting for a TCB
(50)	BITSTRING	8		Reserved
(58)	FULLWORD	4		Reserved
(5C)	FULLWORD	4	DSGMMWTS	Total No. of TCB Mismatch waits
(60)	BITSTRING	8	DSGMMWTM	Total TCB Mismatch wait time
(68)	BITSTRING	8		Reserved
(70)	FULLWORD	4	DSGMMWWS	Current TCB Mismatch waits
(74)	FULLWORD	4	DSGPMWWS	Peak TCB Mismatch waits
(78)	BITSTRING	8	DSGMMWT	Current TCB Mismatch Waiting time
(80)	BITSTRING	8		Reserved
(88)	BITSTRING	8		Reserved
	1..1		DSGPLEND	**"
	1..1		DSGPLEN	**DSGTCBP" Length of a TCB Pool stats
	1..1		DSGEND	**"

Equates for the maximum array sizes.

...1 ..1.	DSGMAXNUMMODES	"18" Number of TCB Modes
.... ..1..	DSGMAXNUMPOOLS	"4" Number of TCB Pools

DSN File control dataset name

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

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 @BANNER_END

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)	STRUCTURE	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 ,
			FCTDNVAL	"X'80" DSN VALIDATED IN VSAM CAT. ,
			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 ,
BASE CLUSTER BLOCK				
			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 -
			FCTBCSRP	"X'80" LOCALLY-SHARED RESOURCES APPLY
			FCTBCKVL	"X'40" ATTRIBUTES ..KYL & ..RKP ARE VALID
			FCTBCRCV	"FCTBCFL1" RECOVERY ATTRIBUTES OF BASE CLUSTER
			FCTBCFR	"X'20" FORWARD RECOVERY
			FCTBCLOG	"X'10" LOGGING
			FCTBCVAL	"X'08" VALID FLAG FOR RECOVERY ATTRIBUTES
			FCTBCMIS	"X'04" Recov Attrs Mismatch Flag
			FCTBCSHP	"FCTBCFL1" SHARE OPTIONS INDICATOR
			FCTBSH4	"X'03" SHARE OPTIONS 4
			FCTBSH34	"X'02" SHARE OPTIONS 3 OR 4
			FCTBSH24	"X'01" SHARE OPTIONS 2 OR 4
(49)	ADDRESS	1	FCTBCFRL	FRLOG ID FOR FORWARD RECOVERY
(4A)	ADDRESS	1	FCTBCAS	AVAILABILITY STATE
			FCTBCUNA	"X'20" unavailability
(4B)	ADDRESS	1	FCTBCKYL	Length of key
(4C)	ADDRESS	2	FCTBCRKP	Relative key position
(50)	FULLWORD	4	FCTBCCIS	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

DSN

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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"

DSRDS Dispatcher MVS TCB Resource Stats

```

CONTROL BLOCK NAME = DFHDRSRS
DESCRIPTIVE NAME = CICS Dispatcher MVSTCB resource statistics
  @BANNER_START 02
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5697-E93
  @BANNER_END
FUNCTION =
  This data area contains resource statistics provided by the
  Dispatcher Domain on MVS TCBs i.e. the stats relating to
  an individual TCB.
  It is provided for use in users monitoring applications
  to map the statistics returned via the API or the statistics
  exit.
LIFETIME =
  This data block is created by the Dispatcher 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 = none
  GLOBAL VARIABLES (Macro pass) = none
ALTHOUGH PROVIDED IN A GENERAL INTERFACE LIBRARY, DFHDRSRS 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)	STRUCTURE	0	DFHDRSRS	Dispatcher Domain MVSTCB statistics
(0)	HALFWORD	2	DSRDS_LEN	MVSTCB resource stats record length
(2)	ADDRESS	2	DSRDS_ID	MVSTCB resource stats id
(4)	CHARACTER	1	DSRDS_VERS	MVSTCB resource stats version
(5)	CHARACTER	3		Reserved
MVSTCB resource stats fields begin here				
(8)	ADDRESS	4	DSRDS_TCB_ADDRESS	Address of MVS TCB
(C)	CHARACTER	8	DSRDS_TCB_NAME	Initial prog or QR, RO etc.
(14)	CHARACTER	1	DSRDS_TCB_TYPE	'C' for CICS, 'N' for non-CICS
(15)	CHARACTER	3		Reserved
(18)	CHARACTER	4	DSRDS_TCB_CICS_TASK	CICS task number or 0
(1C)	ADDRESS	4	DSRDS_TCB_MOTHER	Address of mother TCB
(20)	ADDRESS	4	DSRDS_TCB_SISTER	Address of sister TCB
(24)	ADDRESS	4	DSRDS_TCB_DAUGHTER	Address of daughter TCB
(28)	CHARACTER	8	DSRDS_TCB_CPUTIME	Total CPU time so far
(30)	FULLWORD	4	DSRDS_TCB_STG_BELOW	Private storage below 16M
(34)	FULLWORD	4	DSRDS_TCB_STG_ABOVE	Private storage above 16M
(38)	FULLWORD	4		Reserved
(3C)	CHARACTER	8		Reserved
	.1.. .1..		DSRDS_END	***
	.1.. .1..		DSRDS_LENGTH	**-DSRDS_LEN" MVSTCB resource stats record length

DSTDS

DSTDS Dispatcher MVS TCB Global Stats

```

CONTROL BLOCK NAME = DFHDSTDS
DESCRIPTIVE NAME = CICS Dispatcher MVSTCB Global statistics
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
FUNCTION =
  This data area contains global statistics provided by the
  Dispatcher Domain on MVS TCBs.
  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
  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, DFHDSTDS 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)	STRUCTURE	0	DFHDSTDS	Dispatcher Domain MVSTCB statistics
(0)	HALFWORD	2	DSTDS_LEN	MVSTCB global stats record length
(2)	ADDRESS	2	DSTDS_ID	MVSTCB global stats id
(4)	CHARACTER	1	DSTDS_VERS	MVSTCB global stats version
(5)	CHARACTER	3		Reserved
MVSTCB stats fields begin here				
(8)	FULLWORD	4	DSTDS_CICSTCB_COUNT	Current number of CICS TCBs
(C)	CHARACTER	8	DSTDS_CICSTCB_CPUTIME	So far for currently attached
(14)	FULLWORD	4	DSTDS_CICSTCB_STG_BELOW	Private stg below 16M
(18)	FULLWORD	4	DSTDS_CICSTCB_STG_ABOVE	Private stg above 16M
(1C)	FULLWORD	4	DSTDS_NONCICSTCB_COUNT	Current number of non-CICS TCBs
(20)	CHARACTER	8	DSTDS_NONCICSTCB_CPUTIME	So far for currently attached
(28)	FULLWORD	4	DSTDS_NONCICSTCB_STG_BELOW	Private stg below 16M
(2C)	FULLWORD	4	DSTDS_NONCICSTCB_STG_ABOVE	Private stg above 16M
(30)	FULLWORD	4		Reserved
(34)	CHARACTER	8		Reserved
	..11 11..		DSTDS_END	***
	..11 11..		DSTDS_LENGTH	**-DSTDS_LEN" MVSTCB global stats record length

DUA Dump Domain Control Blocks

```

CONTROL BLOCK NAME = DUA
DESCRIPTIVE NAME = CICS Dump Domain - Common structures
and constants
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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_DUMP CODE	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)	BIT(32)	4	*	Reserved
(5C)	FULLWORD	4	DUA_CSVDYNEX_RC	CSVDYNEX return code
(60)	FULLWORD	4	DUA_CSVDYNEX_REASON	CSVDYNEX reason
(64)	CHARACTER	8	DUA_TRAN_DUMP_ID	Tran dump identifier
(6C)	CHARACTER	8	DUA_TRAN_DUMP_LAST_CLOSED_ID	Tran dump id when data set was last closed
(74)	CHARACTER	64	*	Reserved
(B4)	BIT(8)	1	DUA_FLAGS	Reserved
	1... ..		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?
	.... .1..		DUA_XDUMP_IN_PROGRESS	Transaction dump taking place
	.... ..11		*	Reserved
(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

DUA

Offset Hex	Type	Len	Name (Dim)	Description
(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)	BIT(8)	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
	...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
	.... .1..		X_AUTOSWITCH_OVERRIDDEN	
	.... ..11		*	Both datasets are too small for the dump - XDUCLE switching disabled
(DD)	BIT(8)	1	XD_FLAGS	Reserved
	1... ..		SWITCH_IN_PROG	Tran dump flags
	.1..		OPEN_STATUS	Autoswitch in progress
	..1.		DUXD_ACTIVE	XD dataset status
	...1		XDUCLE_ACTIVE	Transaction dump active
	.... 1..		XDUOUT_ACTIVE	XD close exit active
	.... .1..		XDUREQ_ACTIVE	XD buffer write exit
	.... ..1		XDUREQC_ACTIVE	Dump request exit active
	.... ...1		CLOSE_MSG	Dump request close exit active
(DE)	UNSIGNED	1	DUXWREC_COUNT	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
(DF)	CHARACTER	1	*	Count of failures of MVCL for any 1 subfunction
(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_SDMLOCK_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	0	*	

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

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	20	DTB	

DUA

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

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 block
(14)	CHARACTER	0	*	

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	'BTTBLOCK'
(10)	ADDRESS	4	BTB_NEXT	-> Next Browse Table Block
(14)	CHARACTER	0	*	

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_DUMPSCOPE	Scope of the dump. RELATED or LOCAL
(11)	UNSIGNED	1	DTE_TRANSACTION_DUMP	Tran dump reqd
(12)	UNSIGNED	1	DTE_SYSTEM_DUMP	System dump reqd
(13)	UNSIGNED	1	DTE_TERMINATE_CICS	Terminate CICS reqd
(14)	FULLWORD	4	DTE_MAXIMUM_DUMPS	Only take this number
(18)	FULLWORD	4	DTE_COUNT	Number of dump calls
(1C)	FULLWORD	4	DTE_TRAN_DUMPS_TAKEN	Number of tran dumps taken
(20)	FULLWORD	4	DTE_TRAN_DUMPS_SUPPRESSED	Number of tran dumps suppressed
(24)	FULLWORD	4	DTE_SYS_DUMPS_TAKEN	Number of system dumps taken
(28)	FULLWORD	4	DTE_SYS_DUMPS_SUPPRESSED	Number of system dumps suppressed
(2C)	UNSIGNED	1	DTE_DAELOPT	PASS SYMPTOM
RECORD ONTO DFHDUSVC				
(2D)	CHARACTER	3	*	

DUA

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	
(10)	CHARACTER	2	FTE_STATUS	Register?
(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	
(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	0	*	

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	0	*	

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)	BIT(8)	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)	BIT(8)	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
of dump trace requested via SIT				
(14)	BIT(8)	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	

DUA

Offset Hex	Type	Len	Name (Dim)	Description
(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)	BIT(8)	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)	BIT(8)	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 DFHXRADF

(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 DFHTRADF

(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

DUA

Offset Hex	Type	Len	Name (Dim)	Description
(20)	ADDRESS	4	WL_PTR	-> Remote parm list
(24)	ADDRESS	4	BSAM_RSA_PTR	-> RSA below 16M
(28)	CHARACTER	0	DATA_START	Dummy

ECB

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	20	ECB	
(0)	BIT(8)	1	CON1	X'00'
(1)	BIT(24)	3	CON1A	X'00'
(4)	BIT(8)	1	CON2	X'00'
(5)	BIT(8)	1	CON3	X'20'
(6)	UNSIGNED	2	DCECBIOL	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
Meanings of XD_FLAGS.SWITCH_IN_PROG				
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

DUA

Len	Type	Value	Name	Description
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				
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	

DUA

Len	Type	Value	Name	Description
2	HEX	0601	TPID_DUTM_EXIT	
2	HEX	0602	TPID_DUTM_RECOV	
2	HEX	0603	TPID_DUTM_	
2	HEX	0604	TPID_DUTM_	INVAL_FORMAT
2	HEX	0605	TPID_DUTM_	INVAL_TM_FUNCTION
2	HEX	0606	TPID_DUTM_	INVAL_ST_FUNCTION
2	HEX	0607	TPID_DUTM_	INVAL_GETN_BT
2	HEX	0608	TPID_DUTM_	INVAL_ENDBR_BT
2	HEX	0609	TPID_DUTM_	INVALID_ST_TYPE
2	HEX	060A	TPID_DUTM_	TPID_DUTM_GMAIN_BTT
2	HEX	060B	TPID_DUTM_	GMAIN_BTT_RET
2	HEX	060C	TPID_DUTM_	TPID_DUTM_GMAIN_SDT
2	HEX	060D	TPID_DUTM_	GMAIN_SDT_RET
2	HEX	060E	TPID_DUTM_	TPID_DUTM_GMAIN_TDT
2	HEX	060F	TPID_DUTM_	GMAIN_TDT_RET
2	HEX	0610	TPID_DUTM_	TPID_DUTM_BTT_NOSTOR
2	HEX	0611	TPID_DUTM_	TPID_DUTM_SDT_NOSTOR
2	HEX	0611	TPID_DUTM_	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_DEVTTYPE	
2	HEX	0206	DUIO_DEVTTYPE_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	

DUA

Len	Type	Value	Name	Description
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	
2	HEX	0238	SMXDF_RECOVERY	
2	HEX	0254	EJXDF_ENTRY	
2	HEX	0255	EJXDF_EXIT	
2	HEX	0256	EJXDF_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
4	DECIMAL	310	MSG310	DFHDU310

DUAFB

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)	BIT(32)	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	0	DAFPB_END	

Constants

Len	Type	Value	Name	Description
-				
The valid functions for the Dump SVC routine, passed in the "DAFPB" field "dafpb_function".				
The functions currently supported are:				
take_sdumpx provides a fast unformatted dump of virtual storage and returns a response/reason.				
take_related_sdumpx uses IWMWQWRK to obtain a list of active units of work. This data is passed to SDUMPX with a request for REMOTE dumps across the SYSPLEX for CICS systems in XCF group DFHIR00 which are involved in the active units of work. A dump of virtual storage is also taken for the local address space.				
csvdynex_add_dfhdumpx adds dfhdumpx to the SDUMPX IEASDUMP.QUERY dynamic exit and returns a response.				
2	DECIMAL	1	DAFPB_TAKE_SDUMPX	
2	DECIMAL	2	DAFPB_TAKE_ RELATED_SDUMPX	
2	DECIMAL	3	DAFPB_CSVDYNEX_ ADD_DFHDUMPX	

DUAFB

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 CSVSYNEX 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

DUGS Dump domain global statistics

```

CONTROL BLOCK NAME = DFHTDGDS
DESCRIPTIVE NAME = CICS Dump Domain Global Statistics
                    (Transaction dumps)
  @BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
  @BANNER_END
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)	STRUCTURE	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
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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)	STRUCTURE	0	DFHTDRDS	Dump domain transaction dump stats
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	TDRLN	Length of data area
	.1.1 .1.1		TDRIDE	"85" Transaction dump stats id mask
(2)	ADDRESS	2	TDRID	transaction dump stats id
	.... ...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	**TDRLN" Length

DWE

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)	STRUCTURE	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
	... ..		DWESMFNT	"X'80" Non task related storage
	... ..		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
	... ..		DWEPHS2	"X'20" ...DWE APPLIES TO PHASE 2 OF SYNC POINT
	... ..		DWEDYNB	"X'08" ...BEING DYNAMICALLY BACKED OUT
	... ..		DWEVTYES	"X'04" ...VOTE 'YES' TO PREPARE
	... ..		DWECLNM	"X'02" ...CANCELLED MASK
	... ..		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 DFHFMIDS				
(12)	BITSTRING	1	DWESVMID	SERVICE MODULE IDENTIFIER
NOTE APPROPRIATE CODES ARE DEFINED IN A SEPARATE DSECT LABELED DFHFMIDS				
(13)	BITSTRING	1	(5)	Reserved
(18)	ADDRESS	4	DWELXDA	EXTERNAL DATA ADDRESS
(1C)	ADDRESS	4	DWECMNEA (0)	END OF COMMON AREA
	...1 11..		DWEEXT	"" 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)	BIT(32)	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 DXERE ECB
	.... ..11		*	Filler for remainder of byte
(20)	BIT(32)	4	DXERE ECB	ECB cleared while ERE issued
(20)	BIT(8)	1	*	Reserved
(21)	BIT(12)	2	DXERECMP	ERE completion code Copy DXPS dsect

DXQEL

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)	BIT(32)	4	DX_FLGS1	DX flag bit settings ..
			DX_LOCK	Lock on this Q element storage
			DETACHED	Use this bit to remember detach
(14)	BIT(32)	4	DX_EOT_ECB	End Of Task ECB for attached subtask
			*	Reserved
			POSTED	Post bit within ECB
			*	Reserved
(15)	BIT(24)	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
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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)	STRUCTURE	0	DFHDXUEP	
(0)	CHARACTER	4	UEPDADB	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	"X'01" region type is hot standby
			.... .1.	"X'02" region type is IMS DB/DC
			.... .1..	"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...	"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

D2GDS CICS/DB2 Global statistics

```

CONTROL BLOCK NAME = DFHD2GDS
DESCRIPTIVE NAME = CICS DB2 Global statistics
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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)	STRUCTURE	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	4	D2G_DB2_GROUP_ID	DB2 group id
(54)	BITSTRING	1	D2G_RESYNCMEMBER	resync uow's
(55)	CHARACTER	3		reserved
(58)	CHARACTER	32		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	

D2GDS

Offset Hex	Type	Len	Name (Dim)	Description
(93)	BITSTRING	1	D2G_POOL_PRIORITY	Threadwait setting
(94)	FULLWORD	4	D2G_POOL_CALLS	thread priority
(98)	FULLWORD	4	D2G_POOL_SIGNONS	number of calls using pool
(9C)	FULLWORD	4	D2G_POOL_COMMITS	number of signons
(A0)	FULLWORD	4	D2G_POOL_ABORTS	number of commits
(A4)	FULLWORD	4	D2G_POOL_SINGLE_PHASE	number of aborts
(A8)	FULLWORD	4	D2G_POOL_THREAD_REUSE	number of single phase commits
(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)	FULLWORD	4	D2G_POOL_PARTIAL_SIGNONS	peak number of tasks on ready queue
(D8)	CHARACTER	24		number of partial signons
(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)		0	D2G_END	reserved
(118)		0	D2G_LENGTH	***
Equates to test D2G_RESYNCMEMBER				
....	....		D2G_RESYNCMEMBER_RESYNC	"0" Resync uow/s
....	...1		D2G_RESYNCMEMBER_NORESYNC	"1" Noresync uow/s
Equates to test D2G_POOL_AUTHTYPE and D2G_COMD_AUTHTYPE				
....	....		D2G_AUTHTYPE_NA	"0" Not applicable
....	...1		D2G_AUTHTYPE_USERID	"1" Authtype(userid)
....	..1.		D2G_AUTHTYPE_OPID	"2" Authtype(opid)
....	..11		D2G_AUTHTYPE_GROUP	"3" Authtype(group)
....	..1..		D2G_AUTHTYPE_SIGNID	"4" Authtype(signid)
....	..1.1		D2G_AUTHTYPE_TERM	"5" Authtype(term)
....	..11.		D2G_AUTHTYPE_TXID	"6" Authtype(txid)
Equates to test D2G_POOL_ACCOUNTREC				
....	...1		D2G_ACCOUNTREC_NONE	"1" Accountrec(none)
....	...1.		D2G_ACCOUNTREC_TXID	

D2RDS

Offset Hex	Type	Len	Name (Dim)	Description
	.... ..11		D2G_ACCOUNTREC_TASK	"2" Accountrec(tid)
	.... ..1.		D2G_ACCOUNTREC_UOW	"3" Accountrec(task) "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				
	.... ....		D2G_PRIORITY_NA	"0" Not applicable
	.... ..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
@BANNER_START 02
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5697-E93
@BANNER_END
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)	STRUCTURE	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	
(4C)	FULLWORD	4	D2R_THREAD_LIMIT	number of thread waits or overflows maximum number of threads

D2RDS

Offset Hex	Type	Len	Name (Dim)	Description
(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)	FULLWORD	4	D2R_PARTIAL_SIGNONS	number of partial signons
(7C)	CHARACTER	32		reserved
	1..1 11..		D2R_END	***
	1..1 11..		D2R_LENGTH	**-D2RLEN" Length of dsect
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)
	.... .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				
	.... ....		D2R_PRIORITY_NA	"0" Not applicable
	.... ...1		D2R_PRIORITY_HIGH	"1" Priority(high)
	.... .1.		D2R_PRIORITY_EQUAL	"2" Priority(equal)
	.... ..11		D2R_PRIORITY_LOW	"3" Priority(low)

ECA

ECA Event control area

CONTROL BLOCK NAME = DFHECAPS
DESCRIPTIVE NAME = CICS Event Control Area
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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 DFHSMGFI 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 associated 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
  @BANNER_START 02
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5697-E93
  @BANNER_END
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.
  Dummy change for PQ58342

```

Offset	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	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		RESERVED
(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	EDFUQID	USER'S TERMID/TRANID
(58)	FULLWORD	4	EDFUARSA	ADDR OF USER RSA
(5C)	HALFWORD	2	EDFUTRTO	READ TIMEOUT VALUE
(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 TCTTEEIX AS SET FOR APPLICATION REQUESTS
(6C)	FULLWORD	4	EDFPGLN	PROGRAM LENGTH
(70)	FULLWORD	4	EDFTSADR	TERM. STATUS FIELD ADDR
(74)	FULLWORD	4	EDFMSA	MODULE START ADDRESS
(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	

EDF

Offset Hex	Type	Len	Name (Dim)	Description
(8C)	FULLWORD	4	EDFSECCL	User task suspend token
(90)	ADDRESS	4	EDF_APPL_ STATIC_STG_PTR	Security switch routine
(94)	ADDRESS	4	EDF_APPL_ STATIC_STG_LEN	User program's static storage
(98)	CHARACTER	8	EDFPSW	User's static storage length
(A0)	CHARACTER	8	EDFINT	PSW
(A8)	CHARACTER	2	EDFUEIDL	INTERRUPT INFORMATION
(AA)	BITSTRING	1	EDFUOPT2	COPY OF TCTEEIDL AS SET FOR APPLICATION REQUESTS
(AB)	BITSTRING	1	EDFUJSA	SAVE TCTEOPT2
(AC)	FULLWORD	4	EDFWSLN	Save TCTEJSA
(B0)	FULLWORD	4	EDFUTXNO	LENGTH OF WORKING STORAGE
(B4)	FULLWORD	4	EDFERMSA	User task's transaction number
(B8)	FULLWORD	4	EDFSITOD	NEW ERM EDF INTERFACE
(BC)	CHARACTER	4	EDFUTXID	IPL TIME OF DAY IN SECONDS
(C0)	BITSTRING	1	EDFCTL5	User's transaction id
(C1)	BITSTRING	1	EDFCTL6	FLAG BYTE INDICATING NEW ERM IFC
(C2)	HALFWORD	2	EDFSTKCM	"X'04" Command from user exit
(C4)	FULLWORD	4	EDFTCAAD	flag byte
(C8)	FULLWORD	4	(0)	"X'80" DPL remote abend indicator
(C8)	CHARACTER	64	EDFREGS (0)	"X'40" User task suspended, pending RESUME
(C8)	FULLWORD	4	(16)	Programs EDF stack level
				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)		0	EDFDSLEN	**DFHEDFDS* LENGTH OF DFHEDFDS

EIB EXEC interface block

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

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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)	STRUCTURE	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	EIBCPASN	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	EIBSYNRC	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

EIC EXEC interface communications area

CONTROL BLOCK NAME = DFHEICPS
DESCRIPTIVE NAME = CICS EXEC Interface Communications Area.
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@BANNER_END
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	Type	Len	Name (Dim)	Description
Hex				
(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	0	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 definition.

This COPY module is edited by the EXEC that compiles
 PLI programs also requiring the LD table structure
 definition.

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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	NCTLS	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	KEXPTR	
(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	0	COMPATF0	To suit DFHUIAI
			COMPNEWF	Extra fields in hdr *
			COMPKPAR	New style kwd parms *
			COMPBIF	BIF's present
(5C)	BIT(29) POS(4)	4	*	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	KKXPTR	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)	BIT(8)	1	TABFLAGS	Verb flags
(1)	UNSIGNED	1	TABVB	Index in XKERAY of Verb
(2)	UNSIGNED	1	TABADV	Index in XKERAY of Adverb
(3)	CHARACTER	3	TABOPND	Syntax of STMT :
(3)	BIT(8)	1	TABOPFLG	See operand
(4)	HALFWORD	2	TABOP	declaration

EICD1

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	0	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...		KEIDXTN	Keyword used as id extension
	.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		KEMCASE	Mixed case required flag
(E)	BIT(8)	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)	BIT(8)	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 BIT6 1-Fixed Bin(64)
(12)	UNSIGNED	1	KEDTYPL	Length of datatype

EICD1

Offset Hex	Type	Len	Name (Dim)	Description
(13)	UNSIGNED	1	KEP (3)	KEYQUIV1 or code gen parameters *
(16)	CHARACTER	0	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)	BIT(32)	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)	BIT(8)	1	BIFFLAGS	Reserved *
(D)	ADDRESS	4	BIFNEXT	0 for last in chain *
(11)	FULLWORD	4	BIFNEQUS	Number of CVDA'S
(15)	CHARACTER	17	BIFEQUUSA (1000)	ACTUALLY BIFNEQUS XTENT *
(15)	CHARACTER	12	BIFARG	'ENABLED', etc.
(21)	FULLWORD	4	BIFCVDA	128,129, etc.
(25)	BIT(8)	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
(5)	HALFWORD	2	OP2	Operand 2

EICD1

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	7	SY1	Overlay of SY
(0)	CHARACTER	1	OPCODE1	See OPCODE
(1)	BIT(8)	1	OP1FLAGS	See OP1FLG
(2)	HALFWORD	2	OP11	See OP1
(4)	BIT(8)	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	NUMCMDS	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	0	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	0	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)	BIT(8)	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 BIT6 1-Fixed Bin(64)
(6)	CHARACTER	9	KEYEND1	End of KEYITEM for DFHEITR
(F)	CHARACTER	0	KEYEND2	End of KEYITEM for DFHEITT1

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	12	KEYITEMO	
(0)	FULLWORD	4	KEYARGO	Arg offset
(4)	FULLWORD	4	KEYWORDO	Word offset
(8)	BIT(32)	4	KEYBITM	Bit mask
(C)	CHARACTER	0	KEYENDO	End of KEYITEM for DFHEITHG

EIPDS

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	0	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
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 @BANNER_END
 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)	STRUCTURE	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)	STRUCTURE	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..		EILLLEN	"*-EILLAB" TABLE ENTRY LENGTH

REGISTER SAVE AREA DSECT FOR COBOL HANDLE

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

EIPDS

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 @BANNER_END
 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(..)
 : fields for PSK release.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	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) COMMAREA SUBPOOL FLAG
	.....1		EIC_APCOMM31	"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)	STRUCTURE	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)	STRUCTURE	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

EIPDS

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	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
(C)	FULLWORD	4	EIUSXRSA	STACKED EISSXRSA
(10)	FULLWORD	4	EIUSXD	STACKED EISSXD
(14)	FULLWORD	4	EIUSXDI	STACKED EISSXDI
(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)	STRUCTURE	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
	...1		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..		EIDSENDPAGE	"X'08" SEND PAGE
	.... 1.1.		EIDPURGEMESSAGE	"X'0A" PURGE MESSAGE
	.... 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-ARG0-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

EIPDS

Offset Hex	Type	Len	Name (Dim)	Description
.... .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
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
.1..			EIDRESUN	"X'40" RESUNAVAIL support
(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)	STRUCTURE	0	DFHEISDS	

```

CONTROL BLOCK NAME = DFHEISDS
DESCRIPTIVE NAME = CICS EXEC Interface Structure.
@BANNER_ START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_ END
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.
: AB5H CHANGE FOR SPECIAL
Dummy change for PQ58342

```

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	EISEDIDL	DEBUG LINKAGE
(38)	BITSTRING	1	EISFLAG2	SOME ACTIVE HANDLE CONDS
	1... ..		EISRDATT	"X'80" RDATT
	.1.		EISWRBRK	"X'40" WRBRK
	..1.		EISEOF	"X'20" EOF
	...1		EISNOSPA	"X'10" NOSPACE
	.... 1...		EISQBUSY	"X'08" QBUSY
	.... .1..		EISNOSTG	"X'04" NOSTG
	.... ..1.		EISNQBSY	"X'02" ENQBUSY
	.... ...1		EISNOJBS	"X'01" NOJBUFSP
(39)	BITSTRING	1	EISFLAG3	
	1... ..		EISIGNAL	"X'80" SIGNAL
	.1.		EISOFLOW	"X'40" OVERFLOW
	..1.		EISYSBSY	"X'20" SYSBUSY
	...1		EISESBSY	"X'10" SESSBUSY
(3A)	BITSTRING	1	EISFLAG5	
	1... ..		EISIN1	"X'80" 1 FOR FIRST RECEIVE OVER
	.1.		EISLERR	"X'40" 1 FOR LENGERR TO BE RAIS
	..1.		EISRECF	"X'20" 1 FOR F FORMAT
	...1		EISRECU	"X'10" 1 FOR U FORMAT
	.... 1...		EISRETRY	"X'08" 1 FOR RETRIEVE IOERROR
	.... .1..		EISTWAIT	"X'04" 1 FOR WRITE WITHOUT WAIT
	.... ..1.		EISTAID	"X'02" 1 FOR TEST EIBRID
	.... ...1		EISSPCIN	"X'01" SPECIAL INITLZD FOR TASK
(3B)	BITSTRING	1	EISDRESP	DELAY RESPONSE
(3C)	BITSTRING	1	EISFLAG4	
	1... ..		EISABDMP	"X'80" Last abend included dump
	.1.		EISRUTER	"X'40" In rununit initialization or rununit termination
	..1.		EISQRECV	"X'20" TSQ recoverable (for CAU).
	...1		EISQMAIN	"X'10" TSQ in main stg (for CAU).
	.... 1...		EIS_LOWER_	
			LEVEL_ABENDED	
	.... .1..		EISEDIFSE	"X'08" A user program at a lower link-level has abended previously
	.... ..1.		EISCANXT	"X'04" User task security initialized
				"X'02" EXEC CICS ABEND WITH CANCEL

EIS

Offset Hex	Type	Len	Name (Dim)	Description
(3D)	BITSTRING	1	EISED FDM	EDF DEBUG MODE
	1... ..		EISED FDO	"X'80" DEBUG ON
	.1.. ..		EISED FST	"X'40" SEPARATE TERMINAL
	..1. ..		EISED FX	"X'20" I/O ISSUED BY EDFX
	...1 ..		EISABNDG	"X'10" EDFX has issued an abend
(3E)	CHARACTER	2		Reserved
(40)	ADDRESS	4	EISTIOA	A(TIOA below the line)
(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 rescoe.
(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	EISED FRB	EDF REQUEST/REPLY BYTE
REQUEST BITS				
	1... ..		EISED FRQ	"X'80" EXEC REQUEST
	.1.. ..		EISED FRS	"X'40" EXEC RESPONSE
	..1. ..		EISED FIN	"X'20" INITIALIZATION
	...1 ..		EISED FPT	"X'10" PROGRAM TERMINATION
	.... 1..		EISED FTT	"X'08" TASK TERMINATION
	.... .1..		EISED FAB	"X'04" ABEND
	.... ..1.		EISED FAC	"X'02" ABNORMAL CONDITION
	.... ...1		EISED FRE	"X'01" PLIST-REFORMAT REQUIRED
REPLY BITS				
	1... ..		EISED FFA	"X'80" FORCED ABEND
	.1.. ..		EISED FUA	"X'40" USER ABEND
	..1. ..		EISED FUW	"X'20" USER ABEND WITH DUMP
	...1 ..		EISED FUD	"X'10" USER DUMP
	.... 1..		EISED FCA	"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	EIS_PIP1_CICSKEY_RSA	address of PIP1 Cics key rsa
(A4)	ADDRESS	4	EIS_PIP1_USERKEY_STG	address of PIP1 User key stg incl rsa
(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" TCAAM SET IN EDFX-SRP ISSUED ABND
	.1.. ..		EISED FRM	"X'40" INDICATE EDF INVOKED BY ERM
	..1. ..		EISERM31	"X'20" DFHERM INVOKED IN AMODE 31
	...1 ..		EISED FRN	"X'10" INDICATE NEW TYPE EDF SCREEN REQUIRED
	.... 1..		EISCEDFY	"X'08" CEDF allowed for current program
	.... .1..		EISTKING	"X'04" Entering new exec capable GLUE/URM
	.... ..1.		EISDPL	"X'02" Program restricted to DPL API

EIS

Offset Hex	Type	Len	Name (Dim)	Description
(C4)	BITSTRING	1	EISYNCOK EISFLAG9 EISSYEIB EISRTDST	"X'01" Syncpointing allowed in DPL server prog. "X'80" SYSEIB ON LAST EXEC CICS COMMAND "X'40" Indicate a RouteD Start request
(C5)	BITSTRING	1		RESERVED
(C6)	HALFWORD	2	EISEDFLV	EDF stack level for current prog
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 EISRORX EISSPEX	ASSORTED FLAGS "X'80" 1 FOR PL/I RETURN OR XCTL "X'40" eligible for XEISPIN,OUT
EQU X'20' reserved				
			EISC37TT	"X'10" C/370 recursive thread termination flag
			EISPGOTO	"X'08" LE/370 Perform Goto flag
			EISTMPTT	"X'04" VS COBOL II recursive thread termination flag
			EISEDFFC	"X'02" 1 FOR EDF WAS ON FOR FIRST CALL OF A SET OF CALLS
			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 EISLANGS EISRPG EISASM EISCOBOL EISSPCOB EISPLI EISPLS EISVSPLI EISC EISLEASM	LANGUAGE FLAGS "X'1E" ALL LANGUAGE BITS "X'10" FOR RPG PROGRAM "X'08" FOR ASM PROGRAM "X'04" FOR COBOL PROGRAM "X'06" FOR SPECIAL PROGRAM "X'02" FOR PL/I PROGRAM "X'0A" FOR PL/AS PROGRAM "X'0C" FOR V. SPECIAL PROGRAM "X'0E" FOR C PROGRAM "X'12" FOR LE MAIN Assembler
(CC)	BITSTRING	1	EISFLAGA EISDAT31 EIS_XCTL EIS_PROGRAM_ABENDED EISEIECR	flag byte "X'80" program will accept data above 16M "X'04" User has issued XCTL "X'02" DFHAPLI's Recovery Routine has detected that the program has abended "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				
(CD)	BITSTRING	1	EIS_CICS_DATAKEY EIS_CICS_EXECKEY EISRUNIN EIS_CURRENT_EXECKEY	"X'20" Current program was defined with CICS data location key. "X'10" Current program was defined with "X'08" CEE Run-Unit in control CICS execution key.
(CE)	BITSTRING	1	EIS_USERKEY EIS_ABEND_EXECKEY	Instantaneous execution key when current command started .. in first 4 bits "X'90" Constant for testing EIS_CURRENT_EXECKEY Instantaneous execution key when the last HANDLE ABEND LABEL was executed at this level. .. in first 4 bits
(CF)	BITSTRING	1	EIS_APPL_BOUNDARY_FLAGS EIS_RECOVERY_SWITCH EIS_ABTERM_ALLOWED_SWITCH EIS_CRITICAL_CODE_SWITCH EIS_RESET_RUNAWAY_SWITCH	Application Boundary Flags "X'80" Recovery environment switch needed at application boundary "X'40" Abterm_allowed switch needed at application boundary "X'20" Critical code protection switch needed at application boundary
(D0)	ADDRESS	4	EIS24STG EISINITL	"X'10" Reset runaway state a(run-unit work-area <16 meg) **EISINITA" LENGTH CLEARED
This is the end of the area initialised to X'00' on LINK or XCTL.				
			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)

EISTG

Offset Hex	Type	Len	Name (Dim)	Description
(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)	STRUCTURE	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	FULLWORD TEMP USED BY DFHECALL
(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

EIOUS EXEC interface user structure

CONTROL BLOCK NAME = DFHEIUS
DESCRIPTIVE NAME = CICS User part of EXEC interface storage
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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 EIOUS is owned by the Execution Interface Component.
There is one EIOUS per transaction.
LIFETIME =
The EIOUS 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 EIOUS 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	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	180	DFHEIUS	EXEC Interface User Structure
(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	'EIOUS '
(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

EIUS

Offset Hex	Type	Len	Name (Dim)	Description
(30)	ADDRESS	4	EIUS_CII_ARG4	COBOL II forth 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	0	EIUS_SUPER_END	End of SUPERLINK storage

EJBDS Enterprise Java Bean Statistics

```

CONTROL BLOCK NAME = DFHEJBDS
DESCRIPTIVE NAME = CICS ....
  @BANNER_START 02
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5697-E93
  @BANNER_END
FUNCTION =
  This data area contains the Bean statistics provided
  by the EJ 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 EJ Domain to store
  statistics to be passed to the user in response to a
  for BEAN 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

```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHEJBDS	Bean Resid stats record
(0)	HALFWORD	2	EJBDS_LEN	Bean stats record length
(2)	ADDRESS	2	EJBDS_ID	Bean stats id
(4)	CHARACTER	1	EJBDS_VERS	Bean stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	240	EJB_BEAN_NAME	Bean Name
(F8)	CHARACTER	4	EJB_CORBASERVER_	
			NAME	CorbaServer Name
(FC)	CHARACTER	32	EJB_DJAR_NAME	Djar Name
(11C)	BITSTRING	8		Reserved
(124)	BITSTRING	4	EJB_BEAN_ACTIVATIONS	No. Bean State Activations
(128)	BITSTRING	4	EJB_BEAN_PASSIVATIONS	No. Bean State Passivations
(12C)	BITSTRING	4	EJB_BEAN_CREATE	No. Bean Creates
(130)	BITSTRING	4	EJB_BEAN_REMOVES	No. Bean Removes
(134)	BITSTRING	4	EJB_BEAN_	
			METHOD_CALLS	No. Bean Method Calls
(138)	BITSTRING	8		Reserved
(138)		0	EJBDS_END	***
(138)		0	EJBDS_LENGTH	**-EJBDS_LEN" Bean record length

Constants that denote a EJ Bean stats record

.111 ..11	EJBIDR	"115" Bean resid stats id
.... ...1	EJB_VERS	"X'01" Record version number

EJDNC Enterprise Java Bean Distinguished name

-

Distinguished Name URM

This structure maps the commarea that is passed to the Distinguished Name User-Replaceable Module, DFHEJDNX.

The Distinguished Name URM is a CICS command-level program that is used to obtain a string representation of the distinguished name of an EJB client, when the client has not presented an X.509 certificate containing a name.

The URM must be called DFHEJDNX.

The following parameters are passed to DFHEJDNX in a commarea:

ejdn_parameter_list_length

A binary halfword that contains the length of this parameter list.

ejdn_parameter_list_eyecatcher

A 14-byte character string that contains an eyecatcher ('>DFHEJDNX_PARM') to identify this parameter list in dumps and traces.

ejdn_parameter_list_version

A binary halfword that contains the version number of this parameter list. It is zero for CICS Transaction Server V2R1.

ejdn_parameter_list_flags

A binary halfword reserved for indicator flags for this interface. At present, no indicator flags are defined.

ejdn_distinguished_name_ptr

A pointer to a 512-character workarea in which DFHEJDNX can build the distinguished name to be assigned to the client.

.... continued

... continuation

The distinguished name output by this routine must be an EBCDIC null-delimited character string in the format proposed by RFC2253, "Lightweight Directory Access Protocol (v3): UTF-8 String Representation of Distinguished Names", described (among other places) at "ftp://ftp.isi.edu/in-notes/rfc2253.txt". The character string must be encoded in EBCDIC code page 1047.

`ejdn_distinguished_name_len`

A binary fullword that contains the length of the workarea pointed to by "ejdn_distinguished_name_ptr" on input, and in which DFHEJDNC must return the length of the distinguished name it has built.

`ejdn_userid_ptr`

A pointer to the client's userid.

`ejdn_userid_len`

A binary fullword containing the length of the client's userid.

`ejdn_common_name_ptr`

A pointer to the proposed common name of the client, derived from the username associated with the client's userid in the external security manager's database.

`ejdn_common_name_len`

A binary fullword containing the length of the client's common name.

`ejdn_title_ptr`

A pointer to the proposed title of the client, derived from the title in the X.509 certificate associated with the CORBAServer.

`ejdn_title_len`

A binary fullword containing the length of the client's title.

`ejdn_email_address_ptr`

A pointer to the proposed e-mail address of the client, derived from the e-mail address in the (extended) X.509 certificate associated with the CORBAServer.

`ejdn_email_address_len`

A binary fullword containing the length of the client's e-mail address.

`ejdn_organizational_unit_ptr`

A pointer to the proposed organizational unit of the client, derived from the organizational unit in the X.509 certificate associated with the CORBAServer.

`ejdn_organizational_unit_len`

A binary fullword containing the length of the client's organizational unit.

`ejdn_organization_ptr`

A pointer to the proposed organization of the client, derived from the organization in the X.509 certificate associated with the CORBAServer.

`ejdn_organization_len`

A binary fullword containing the length of the client's organization.

`ejdn_locality_ptr`

A pointer to the proposed locality of the client, derived from the locality in the X.509 certificate associated with the CORBAServer.

`ejdn_locality_len`

A binary fullword containing the length of the client's locality.

`ejdn_state_or_province_ptr`

A pointer to the proposed state or province of the client, derived from the state or province (if any) in the X.509 certificate associated with the CORBAServer.

`ejdn_state_or_province_len`

A binary fullword containing the length of the client's state or province.

`ejdn_country_ptr`

A pointer to the proposed country of the client, derived from the country in the X.509 certificate associated with the CORBAServer.

`ejdn_country_len`

A binary fullword containing the length of the client's country.

Each of the character fields pointed to by an "ejdn_ _ptr" parameter contains EBCDIC character data terminated by a null character (X'00') to simplify processing in the C language. If a value for a field is not available, its corresponding length ("ejdn_ _len") is zero.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	104	DFHEJDNC	
(0)	HALFWORD	2	EJDN_PARAMETER_LIST_LENGTH	
(2)	CHARACTER	14	EJDN_PARAMETER_LIST_EYECATCHER	

EJDNC

Offset Hex	Type	Len	Name (Dim)	Description
(10)	HALFWORD	2	EJDN_PARAMETER_ LIST_VERSION	
(12)	BIT(16)	2	EJDN_PARAMETER_ LIST_FLAGS	
(14)	FULLWORD	4	*	
(18)	ADDRESS	4	EJDN_DISTINGUISHED_ NAME_PTR	
(1C)	FULLWORD	4	EJDN_DISTINGUISHED_ NAME_LEN	
(20)	ADDRESS	4	EJDN_USERID_PTR	
(24)	FULLWORD	4	EJDN_USERID_LEN	
(28)	ADDRESS	4	EJDN_TITLE_PTR	
(2C)	FULLWORD	4	EJDN_TITLE_LEN	
(30)	ADDRESS	4	EJDN_EMAIL_ ADDRESS_PTR	
(34)	FULLWORD	4	EJDN_EMAIL_ ADDRESS_LEN	
(38)	ADDRESS	4	EJDN_COMMON_ NAME_PTR	
(3C)	FULLWORD	4	EJDN_COMMON_ NAME_LEN	
(40)	ADDRESS	4	EJDN_ORGANIZATIONAL_ UNIT_PTR	
(44)	FULLWORD	4	EJDN_ORGANIZATIONAL_ UNIT_LEN	
(48)	ADDRESS	4	EJDN_ORGANIZATION_ PTR	
(4C)	FULLWORD	4	EJDN_ORGANIZATION_ LEN	
(50)	ADDRESS	4	EJDN_LOCALITY_PTR	
(54)	FULLWORD	4	EJDN_LOCALITY_LEN	
(58)	ADDRESS	4	EJDN_STATE_ OR_PROVINCE_PTR	
(5C)	FULLWORD	4	EJDN_STATE_ OR_PROVINCE_LEN	
(60)	ADDRESS	4	EJDN_COUNTRY_PTR	
(64)	FULLWORD	4	EJDN_COUNTRY_LEN	

EJEPC Enterprise Java event

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	278	EJEE_COMMAREA	
(0)	CHARACTER	32	EJEE_DJAR	
(20)	UNSIGNED	1	EJEE_EVENTCODE	
(21)	UNSIGNED	1	EJEE_EVENTTYPE	
(22)	CHARACTER	4	EJEE_CORBASERVER	
(26)	CHARACTER	240	EJEE_BEANNAME	

Constants

Len	Type	Value	Name	Description
1	DECIMAL	1	EJEE_EVENTTYPE_INFO	
1	DECIMAL	2	EJEE_EVENTTYPE_	
			WARNING	
1	DECIMAL	3	EJEE_EVENTTYPE_ERROR	
1	DECIMAL	1	EJEE_EVENTCODE_	
			DJ_INSTALLED	
1	DECIMAL	2	EJEE_EVENTCODE_	
			DJ_DISCARDED	
1	DECIMAL	3	EJEE_EVENTCODE_	
			DJ_INSTALL_FAILED	
1	DECIMAL	4	EJEE_EVENTCODE_	
			DJ_OPEN_SHELF_FAILED	
1	DECIMAL	5	EJEE_EVENTCODE_	
			DJ_HFS_PROBLEM	
1	DECIMAL	6	EJEE_EVENTCODE_	
			DJ_HFS_NO_READ_	
			ACCESS	
1	DECIMAL	7	EJEE_EVENTCODE_	
			DJ_HFS_READ_ERROR	
1	DECIMAL	8	EJEE_EVENTCODE_	
			DJ_HFS_WRITE_ERROR	
1	DECIMAL	9	EJEE_EVENTCODE_	
			DJ_NAME_INVALID	
1	DECIMAL	10	EJEE_EVENTCODE_	
			DJ_AUTOPUBLISH	
1	DECIMAL	11	EJEE_EVENTCODE_	
			DJ_ALREADY_INSTALLED	
1	DECIMAL	12	EJEE_EVENTCODE_	
			BN_PUBLISH_FALIED	
1	DECIMAL	13	EJEE_EVENTCODE_	
			DJ_SCAN_CREATED	
1	DECIMAL	14	EJEE_EVENTCODE_	
			DJ_SCAN_UPDATED	
1	DECIMAL	15	EJEE_EVENTCODE_	
			BN_PUBLISHED	
1	DECIMAL	16	EJEE_EVENTCODE_	
			BN_RETRACTED	
1	DECIMAL	17	EJEE_EVENTCODE_	
			BN_RETRACT_FAILED	
1	DECIMAL	18	EJEE_EVENTCODE_	
			DJ_DELETE_FAILED	
1	DECIMAL	19	EJEE_EVENTCODE_	
			CS_SCAN_STARTED	
1	DECIMAL	20	EJEE_EVENTCODE_	
			CS_SCAN_ENDED	
1	DECIMAL	21	EJEE_EVENTCODE_	
			CS_SCAN_DUPLICATE_	
			FOUND	

EJRDS

EJRDS Enterprise Java CorbaServer Statistics

```

CONTROL BLOCK NAME = DFHEJRDS
DESCRIPTIVE NAME = CICS Corbaserver statistics record
  @BANNER_START 02
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5697-E93
  @BANNER_END
FUNCTION =
  This data area contains the CORBAServer statistics
  provided by the EJ 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 EJ Domain to store
  statistics to be passed to the user in response to a
  for CORBAServer 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
  
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHEJRDS	CorbaServer Resid stats record
(0)	HALFWORD	2	EJRDS_LEN	CorbaServer stats record length
(2)	ADDRESS	2	EJRDS_ID	CorbaServer stats id
(4)	CHARACTER	1	EJRDS_VERS	CorbaServer stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	4	EJR_CORBASERVER_	
			NAME	CorbaServer Name
(C)	CHARACTER	255	EJR_JNDI_PREFIX	CorbaServer JNDI prefix
(10B)	CHARACTER	255	EJR_TCPIP_HOST_NAME	CorbaServer TCP/IP Host name
(20A)	CHARACTER	255	EJR_SHELF_DIRECTORY	CorbaServer Shelf directory
(309)	BITSTRING	3		Reserved
(30C)	BITSTRING	9		Reserved
(315)	BITSTRING	1	EJR_OUT_PRIVACY	CorbaServer Outbound Privacy
(316)	BITSTRING	2		Reserved
(318)	BITSTRING	4	EJR_SESSION_TIMEOUT	CorbaServer Session Bean Timeout
(31C)	BITSTRING	4	EJR_OBJECT_ACTIVATES	No. Object Activates
(320)	BITSTRING	4	EJR_OBJECT_STORES	No. Object Stores
(324)	BITSTRING	4	EJR_FAILED_ACTIVATES	No. Failed Activates
(328)	BITSTRING	4		Reserved
(32C)	CHARACTER	255	EJR_DJAR_DIRECTORY	CorbaServer DJAR Directory
(42B)	BITSTRING	1		Reserved
(42C)	BITSTRING	8		Reserved
(434)	CHARACTER	56	EJR_TCPIP_SERVICES (0)	CorbaServer TCP/IP Services
(434)	CHARACTER	8	EJR_TCPIP_UNAUTH	TCP/IP Service - Unauth
(43C)	CHARACTER	8	EJR_TCPIP_CLIENTCERT	TCP/IP Service - Clientcert
(444)	CHARACTER	8	EJR_TCPIP_UNAUTH_SSL	TCP/IP Service - Unauth SSL
(44C)	CHARACTER	8	EJR_TCPIP_ASSERTED	TCP/IP Service - Asserted
(454)	CHARACTER	8		Reserved
(45C)	CHARACTER	8		Reserved
(464)	CHARACTER	8		Reserved
(46C)	BITSTRING	8		Reserved
(46C)		0	EJRDS_END	***
(46C)		0	EJRDS_LENGTH	**-EJRDS_LEN" CorbaServer record length

Constants that denote a EJ CorbaServer stats record

.111 ..1.	EJRDR	"114" CorbaServer resid stats id
.... ...1	EJR_VERS	"X01" Record version number

The following values relate to the EJ CorbaServer out_privacy.

Offset Hex	Type	Len	Name (Dim)	Description
....			EJR_OUTPRIVACY_ NOTSUPPORTED	"X'00" OUTPRIVACY = NOTSUPPORTED
.... ...1			EJR_OUTPRIVACY_ SUPPORTED	"X'01" OUTPRIVACY = SUPPORTED
.... ..1.			EJR_OUTPRIVACY_ REQUIRED	"X'02" OUTPRIVACY = REQUIRED

ETC EXEC terminal control

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

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHETCDS	
<p>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</p>				
(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 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 FMHXMOD
(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

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Offset Hex	Type	Len	Name (Dim)	Description
(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**
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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.

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Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	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)	STRUCTURE	0	FC_EID	EID for File Control
(0)	CHARACTER	1	FC_GROUP	Group Code
(1)	CHARACTER	1	FC_FILE_GROUP	"X'06" All File Control Requests ... have group code '06'
			FC_FUNCT	Function Code
			FC_READ	"X'02" READ Request
			FC_WRITE	"X'04" WRITE Request
			FC_REWRITE	"X'06" REWRITE Request
			FC_DELETE	"X'08" DELETE Request
			FC_UNLOCK	"X'0A" UNLOCK Request
			FC_STARTBR	"X'0C" STARTBR request
			FC_READNEXT	"X'0E" READNEXT Request
			FC_READPREV	"X'10" READPREV Request
			FC_ENDBR	"X'12" ENDBR Request
			FC_RESETBR	"X'14" RESETBR Request
			FC_REPLACE	"X'16" REPLACE Request
			FC_REPLACE_DELETE	"X'18" REPLACE_DELETE Request

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.

(2)	BITSTRING	1	FC_BITS1	First 8 existence bits
			FC_EXIST1	"X'80" FC_ADDR1 is valid if the command specifies FILE
			FC_EXIST2	"X'40" FC_ADDR2 is valid if the command specifies INTO, SET or FROM
			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.
			FC_EXIST4	"X'10" FC_ADDR4 is valid if the command specifies RIDFLD.
			FC_EXIST5	"X'08" FC_ADDR5 is valid if the command specifies KEYLENGTH. This bit may be modified by a user exit.
			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.
			FC_EXIST7	"X'02" FC_ADDR7 is valid if the command specifies SYSID. This bit may be modified by a user exit.
			FC_EXIST8	"X'01" CICS Internal Use Only
(3)	BITSTRING	1	FC_BITS2	Next 8 existence bits
			FC_EXIST9	"X'80" CICS Internal Use Only
			FC_EXISTA	"X'40" CICS Internal Use Only
			FC_EXISTB	"X'20" FC_ADDRB is valid if the command specifies TOKEN. This may be modified by a user exit.

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.

(4)	BITSTRING	1		Reserved
(5)	BITSTRING	1	FC_EIDOPT5	Options Byte 1
			FC_MASSINSERT_X	"X'04" MASSINSERT specified. This bit may be modified by a user exit.
			FC_RRN_X	"X'02" RRR specified
			FC_SET_X	"X'01" SET specified
(6)	BITSTRING	1	FC_EIDOPT6	Options byte 2

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Offset Hex	Type	Len	Name (Dim)	Description
	1...		FC_RBA_X	"X'80" RBA specified
	.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_RLO_X	"X'02" Record lock only READ UPDATE
	.... ...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
	...1		FC_BYPASS_SECURITY	"X'10" No security check

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)	STRUCTURE	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)	STRUCTURE	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)	STRUCTURE	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)	STRUCTURE	0	FC_DATA4	Addressed by FC_ADDR4
(0)	CHARACTER	1	FC_RIDFLD	Area For RIDFLD. The user will need to specify the length.

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FC_ADDR5 addresses KEYLENGTH

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

Offset Hex	Type	Len	Name (Dim)	Description
(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. ...1			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
1... ..11.			FC_LOADING_ EIBRCODE	"X'86" LOADING

Offset Hex	Type	Len	Name (Dim)	Description
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
...1.	...1		FC_INVREQ33_EIBRESP2	"33" Duplicate REQID
...1.	...1.		FC_INVREQ34_EIBRESP2	"34" Unknown REQID Readnext

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Offset Hex	Type	Len	Name (Dim)	Description
..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_JOERR_ EIBRESP2	"120" IOERR
1... ..1.			FC_SYSDERR_ EIBRESP2	"130" SYSDERR
1... ..11			FC_CFDT_ SYSDERR_ EIBRESP2	"131" SYSDERR - CFDT server failed
1... .1..			FC_CFDT_ NOTABLE_ EIBRESP2	"132" SYSDERR - 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.

FCLGC File Control Log Record Format

CONTROL BLOCK NAME = DFHFCLGC
DESCRIPTIVE NAME = CICS (FC) File Control Part of Log
Record
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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.
..... continued

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... continuation

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)	BIT(8)	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
	.... 1... ..		FLJB_BACKOUT	ON: written in backout OFF: otherwise
	.... .111		*	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.

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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)	BIT(8)	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)	BIT(8)	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)	BIT(8)	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
(8)	FULLWORD	4	FLJB_TUR_ BASE_KEY_POSITION	position of base key within the record

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Offset Hex	Type	Len	Name (Dim)	Description
(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)	BIT(8)	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
(87)	CHARACTER	1	* *	reserved reserved

Constants

Len	Type	Value	Name	Description
Values for record types				
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 = DFHFCSPS
 DESCRIPTIVE NAME = CICS/ESA File Control static storage area
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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	696	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_FRAB	FRAB subpool token
(50)	CHARACTER	8	FC_SUBPOOL_TOKEN_FLAB	FLAB subpool token
(58)	CHARACTER	8	FC_SUBPOOL_TOKEN_ABOVE	Storage above 16M
(60)	CHARACTER	8	FC_SUBPOOL_TOKEN_FRTE	FRTE subpool token
(68)	CHARACTER	8	FC_SUBPOOL_TOKEN_RPL	RPL subpool
(70)	CHARACTER	8	FC_SUBPOOL_TOKEN_FLLB	FLLB subpool token
(78)	CHARACTER	8	FC_SUBPOOL_TOKEN_FCPE	FCPE subpool token
(80)	CHARACTER	8	FC_SUBPOOL_TOKEN_IFGLUWID	IFGLUWID pool

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Offset Hex	Type	Len	Name (Dim)	Description
(88)	CHARACTER	8	FC_SUBPOOL_TOKEN_FCPW	FCPW subpool token
(90)	CHARACTER	8	FC_SUBPOOL_TOKEN_FCUP	
(98)	CHARACTER	8	*	FCUP subpool token
(A0)	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?				
(A8)	FULLWORD	4	FCSRSCMP	Restart completion flags
(A8)	BIT(8)	1	*	FC restart complete
	1... ..		FCSCMPLT	
	.1.. ..		FC_NO_ENVIRONMENT	
	..1.		FC_OFFSITE_RESTART	
	...1		FC_XFCFRIN_ACTIVE	
	.... 1...		FC_XFCFROUT_ACTIVE	
	.... .111		*	XFCFRIN active
(A9)	BIT(24)	3	*	XFCFROUT active
(AC)	BIT(8)	1	FC_FLAGS	reserved
	1... ..		FC_SHUT_IMMED	IMMEDIATE SHUTDN
	.111 1111		*	RESERVED
(AD)	1... ..		FC_CILOCK	VSAM CI lock indicator
(AD)	BIT(8)	1	*	Reserved
Open for business ECBs (Release 4.2 versions)				
(AE)	BIT(8)	1	FC_NON_RECOV_ALLOWED_ECB	Non-recoverable work
(AF)	BIT(8)	1	FC_RECOV_ALLOWED_ECB	Recoverable work
(B0)	UNSIGNED	2	FC_DFP_REL	DFP release pt. 1
(B2)	UNSIGNED	2	*	Reserved
(B4)	UNSIGNED	4	FC_DFP_REL_2	DFP release pt. 2
(B8)	UNSIGNED	4	FC_HSM_REL	Installed HSM release
(BC)	UNSIGNED	4	FC_DSS_REL	Installed DSS release
SHRCTL block vector table				
(C0)	ADDRESS	4	FC_SHRCTL_VECTORS (8)	Pointers to SHRCTL blocks
Addresses of FC interface modules				
(E0)	ADDRESS	4	FC_FCMT_ADDRESS	FCMT interface address
(E4)	ADDRESS	4	FC_FCRL_ADDRESS	FCRL interface address
(E8)	ADDRESS	4	FC_FCDN_ADDRESS	FCDN interface address
(EC)	ADDRESS	4	FC_FCFS_ADDRESS	FCFS interface address
(F0)	ADDRESS	4	FC_FCRF_ADDRESS	FCRF entry address
(F4)	ADDRESS	4	FC_BDAM_ENTRY_ADDRESS	DFHFCBD entry point address
(F8)	ADDRESS	4	FC_FCST_ADDRESS	FCST interface address
(FC)	ADDRESS	4	*	Reserved for address
(100)	ADDRESS	4	FC_FCVR_ENTRY	FCVR entry address
(104)	ADDRESS	4	FC_FCVS_ADDRESS	FCVS entry address
(108)	ADDRESS	4	FC_FCDY_ADDRESS	FCDY entry address
(10C)	ADDRESS	4	FC_FCDU_ADDRESS	FCDU entry address
(110)	ADDRESS	4	FC_FCDT_ADDRESS	FCDT entry address
(114)	ADDRESS	4	FC_FCAT_ADDRESS	FCAT entry address
(118)	ADDRESS	4	FC_FCSD_ADDRESS	FCSD entry address
(11C)	ADDRESS	4	FC_FCRO_ADDRESS	FCRO entry address
(120)	ADDRESS	4	FC_FCRS_ADDRESS	FCRS entry address
(124)	ADDRESS	4	FC_FCRV_ADDRESS	FCRV entry address
(128)	ADDRESS	4	FC_FCRR_ADDRESS	FCRR entry address
(12C)	ADDRESS	4	FC_FCCA_ADDRESS	FCCA entry address
(130)	ADDRESS	4	FC_FCRC_ADDRESS	FCRC entry address
(134)	ADDRESS	4	FC_FCIR_ADDRESS	FCIR entry address
(138)	ADDRESS	4	FC_FCLJ_ADDRESS	FCLJ entry address
(13C)	ADDRESS	4	FC_FCES_ADDRESS	FCES entry address
(140)	ADDRESS	4	FC_FCQI_ADDRESS	FCQI entry address
(144)	ADDRESS	4	FC_FCQU_ADDRESS	FCQU entry address
(148)	ADDRESS	4	FC_FCQX_ADDRESS	FCQX entry address
(14C)	ADDRESS	4	FC_FCLF_ADDRESS	FCLF entry address
(150)	ADDRESS	4	FC_FCDO_ADDRESS	FCDO entry address
(154)	ADDRESS	4	FC_FCFL_ADDRESS	FCFL entry address
(158)	ADDRESS	4	FC_FCNQ_ADDRESS	FCNQ entry address
(15C)	ADDRESS	4	FC_FCDR_ADDRESS	FCDR entry address
(160)	ADDRESS	4	*	Reserved for address
Address of FRAB free chain				
(164)	ADDRESS	4	FC_STATIC_FRAB_FREE_CHAIN	FRAB free chain

Offset Hex	Type	Len	Name (Dim)	Description
Address of FLAB free chain				
(168)	ADDRESS	4	FC_STATIC_ FLAB_FREE_CHAIN	FLAB free chain
Address of FRTE free chain				
(16C)	ADDRESS	4	FC_STATIC_ FRTE_FREE_CHAIN	FRTE free chain address
Address of RPL free chain				
(170)	ADDRESS	4	FC_STATIC_ RPL_FREE_CHAIN	RPL free chain
High-water-mark for dsname block numbers				
(174)	FULLWORD	4	FC_DSNBLK_HWM	
(178)	FULLWORD	4	FC_QR_COUNT	QR mode I/O count
(17C)	UNSIGNED	1	FC_SUBTASKS	CO Subtask count
(17D)	CHARACTER	3	FC_TASK_ID	Task id of task to which FC_QR_COUNT applies
Local sysid for comparison on explicit sysid requests				
(180)	CHARACTER	4	FC_LOCAL_SYSID	
Data table fields				
(184)	ADDRESS	4	FC_DTTKN	Data table services global token
(188)	ADDRESS	4	FC_DTRGL	Data table recovery global token
(18C)	ADDRESS	4	FC_DTOC	Data table OPEN/CLOSE service
(190)	ADDRESS	4	FC_DTLD	Data table LOAD
(194)	ADDRESS	4	FC_DTLOC	Data table LOCATE
(194)	ADDRESS	4	FC_DT_READ	Data table READ
(198)	ADDRESS	4	FC_DTMOD	Data table MODIFY
(19C)	ADDRESS	4	FC_DT_LOG	Data table LOG
(1A0)	ADDRESS	4	FC_DT_USE	Data table USE
Declarations for IO Buffers				
(1A4)	ADDRESS	4	FC_BUFFER_BASE	Buffer pool base
Head of chain of FRABs				
(1A8)	ADDRESS	4	FC_FRAB_CHAIN	Head of FRAB chain
Head of chain of Pool Elements				
(1AC)	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				
(1B0)	FULLWORD	4	FC_FUZZY_VALUES	
(1B0)	BIT(8)	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	Set if load fail
	.... 1...		FC_HSM_BACKLEVEL	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
(1B1)	BIT(24)	3	*	Reserved
(1B4)	CHARACTER	8	FC_KEYPOINT_TIME	Last keypoint time
(1B4)	UNSIGNED	4	FC_KEYPOINT_WK1	Left word (1bit=1sec)
(1B8)	UNSIGNED	4	FC_KEYPOINT_WK2	right word
(1BC)	ADDRESS	4	FC_KPLE_CHAIN	Anchor for KPLE chain
(1C0)	ADDRESS	4	FC_IGWABWO	EP IGWABWO
(1C4)	CHARACTER	4	*	Reserved
Entry point for IGWARLS				
(1C8)	ADDRESS	4	FC_IGWARLS	EP IGWARLS
General data table fields				
(1D0)	CHARACTER	8	FC_DT_LAST_INIT	Time of last attempt to issue AOR DTP_INIT
(1D0)	UNSIGNED	4	FC_DT_LH_LAST_INIT	Left half of clock
(1D8)	ADDRESS	4	FC_DT_2	Entry point for data tables initialization
(1DC)	ADDRESS	4	FC_DT_CLOSE_CHAIN	Files to be closed

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Offset Hex	Type	Len	Name (Dim)	Description
(1E0)	BIT(8)	1	FC_DT_CLOSE_ECB	Files to be closed ECB
(1E1)	BIT(8)	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
(1E2)	BIT(8)	1	*	AOR support indicators
	1... ..		FC_DT_AOR_ NOSHARING	AOR cannot use SDT
	.111 1111		*	Reserved
(1E3)	BIT(8)	1	*	Reserved
Data table fields				
(1E4)	ADDRESS	4	FC_DT_REMOTE_ GLOBAL	Remote table services global area
(1E8)	ADDRESS	4	FC_DT_SIGNAL	Addr STCK field in ECSA indicating table opens
(1EC)	ADDRESS	4	FC_DT_CONNECT	Data table CONNECT
(1F0)	ADDRESS	4	FC_DT_REMOTE_ READ	Data table SDT read
(1F4)	ADDRESS	4	FC_DT_REMOTE_ USE	Data table set user
(1F8)	ADDRESS	4	FC_DT_BF	Bind fail chain
Miscellaneous RLS fields				
(1FC)	UNSIGNED	2	FC_TIMEOUT	Global timeout value
(1FE)	BIT(8)	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
(1FF)	BIT(8)	1	FC_RLS_ LAST_ACB_ECB	ECB is posted when the last open RLS ACB is closed.
(200)	ADDRESS	4	FC_RLS_ACB_CHAIN	Anchor for chain of open RLS ACBs
(204)	ADDRESS	4	FC_INQRECOV_ ADDRESS	Address of the most recent INQUIRE RECOVERY Area
(208)	FULLWORD	4	FC_INQRECOV_ LENGTH	Length of the most recent INQUIRE RECOVERY Area
(20C)	UNSIGNED	2	FC_QUIESTIM	Quiesce timeout value
(20E)	CHARACTER	2	*	Reserved for RLS
RLS Control ACB Area				
(210)	CHARACTER	24	FC_SUBSYSNM	Sub system name
(228)	ADDRESS	4	FC_CTL_ ACB_ADDRESS	Control ACB address
(22C)	ADDRESS	4	FC_CTL_ ACB_RPL_CHAIN	Active RPL chain
(230)	FULLWORD	4	FC_CTL_ ACB_TOTAL_WAITS	Total # of string waits
(234)	FULLWORD	4	FC_CTL_ ACB_CURRENT_WAITS	Current # of string waits
(238)	FULLWORD	4	FC_CTL_ ACB_HWM_WAITS	String wait high water mark
(23C)	UNSIGNED	2	FC_CTL_ ACB_ACT_STRINGS	Active string count
(23E)	BIT(8)	1	FC_CTL_ ACB_STRING_ECB	String wait ECB
(23F)	BIT(8)	1	FC_CTL_ ACB_UNREG_ECB	ECB posted when control ACB unregistered
(240)	BIT(8)	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				
(241)	BIT(8)	1	FC_RESTART_ LOG_SCAN_ECB	Restart log scan ECB. Hand-posted when the system log scan at emergency restart ends.
(242)	BIT(8)	1	FC_DYRRE_ COMPLETED_ECB	DYRRE Completed ECB. Hand-posted when a dynamic RLS restart completes, whether successful or not.
(243)	BIT(8)	1	*	Restart Flags

Offset Hex	Type	Len	Name (Dim)	Description
	1...		FC_DYRRE_ IN_PROGRESS	DYRRE in Progress flag. Set whilst a dynamic RLS restart is in progress, clear when one is not.
(244)	.111 1111 FULLWORD	4	* FC_SERVER_SEQUENCE	Reserved Sequence number of server. Starts at 1. At first recycle goes to 2 etc.
Unused				
(248)	CHARACTER	4	*	Reserved
Pointers to VSAM exit lists				
(24C)	ADDRESS	4	FC_VSAM_EXIT_LIST_PTR	VSAM exit list
(250)	ADDRESS	4	FC_RLS_EXIT_LIST_PTR	RLS exit list
(254)	ADDRESS	4	FC_RLS_ CTL_EXIT_LIST_PTR	RLS Control ACB exit list
(258)	CHARACTER	4	*	Reserved for exit list
RLS Quiesce fields				
(25C)	CHARACTER	40	FC_QUIESCE_DATA	Quiesce fields
(25C)	CHARACTER	16	FC_FCQSE_CHAIN_DATA	FCQSE element chain
(25C)	ADDRESS	4	FC_FCQSE_FIRST	-> first
(260)	ADDRESS	4	FC_FCQSE_LAST	-> last
(264)	BIT(32)	4	FC_FCQSE_ECB	Post ECB when adding
(268)	CHARACTER	4	*	Reserved for quiesce
(26C)	CHARACTER	16	FC_FCQRE_CHAIN_DATA	FCQRE element chain
(26C)	ADDRESS	4	FC_FCQRE_FIRST	-> first real
(270)	ADDRESS	4	FC_FCQRE_ISOLATE	-> first isolated
(274)	BIT(32)	4	FC_FCQRE_ECB	Post ECB when adding
(278)	ADDRESS	4	FC_FCQRE_ERROR	-> error element
(27C)	ADDRESS	4	FC_CFQS_ECBLIST	-> CFQS task ECB list
(280)	BIT(8)	1	FC_QUIESCE_FLAGS	Quiesce flags
	1...		FC_CFQS_TERM	=1 to stop CFQS task
	.1..		FC_CFQR_TERM	=1 to stop CFQR task
	..11 1111		*	Reserved for quiesce
(281)	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.				
(284)	CHARACTER	24	FC_NQ_POOL_TOKENS	
(284)	ADDRESS	4	FC_DS_RECORD_ NQ_POOL_TOKEN	
(288)	ADDRESS	4	FC_FILE_RECORD_ NQ_POOL_TOKEN	
(28C)	ADDRESS	4	FC_DS_RANGE_ NQ_POOL_TOKEN	
(290)	ADDRESS	4	FC_DS_LOAD_ MODE_NQ_POOL_TOKEN	
(294)	ADDRESS	4	FC_DS_ESDS_ WRITE_NQ_POOL_TOKEN	
(298)	ADDRESS	4	FC_FILE_UMT_LOAD_ NQ_POOL_TOKEN	
(29C)	FULLWORD	4	FC_CFDI_LOADER_ID	
Time stamps at entry and exit of DFHFCQX				
(2A0)	CHARACTER	8	FC_DFHFQX_ ENTRY_STCK	
(2A8)	CHARACTER	8	FC_DFHFQX_EXIT_STCK	
Unused				
(2B0)	CHARACTER	8	*	Reserved
End of FC static				
(2B8)	CHARACTER	0	FC_STATIC_END	

```

MACRO NAME: IFGSSYSNM
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

```

FCS

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
Length of VSAM exit list				
2	DECIMAL	36	VSAM_EXLST_LENGTH	Length of exit list
Length of File Control static storage				
2	DECIMAL	696	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	CHAR HEX	0000000000000000	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
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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)	STRUCTURE	0	DFHFCTDS	DUMMY SECTION FILE CONTROL TABLE
FCTE prefix				
(0)	CHARACTER	8	FCTDSID	File identification
(8)	CHARACTER	8	FCTRFILE	Remote file id
(10)	CHARACTER	4	FCTSYSID	Sysid of remote file
(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.		FCTSDSI	"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		FCTSDSRT	"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

FCT

Offset Hex	Type	Len	Name (Dim)	Description
.... .1.			FCTBLKIM	"X'02" BLOCKED RECORDS
...1 .111			FCTDSKEY	"FCTDSVR2" BDAM KEY SEARCH INDICATOR
.... .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 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 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..1			FCTDSJRO	"FCTDSVR4" JOURNAL READ ONLYS INDICATOR
1.. .			FCTJRO	"X'80" JOURNAL READ ONLYS
...1 1..1			FCTDSJRU	"FCTDSVR4" JOURNAL READS FOR UPDATE INDICATOR
.1. .			FCTJRU	"X'40" JOURNAL READS FOR UPDATE
...1 1..1			FCTDSJWU	"FCTDSVR4" JOURNAL WRITE UPDATES INDICATOR
.1. .			FCTJWU	"X'20" JOURNAL WRITE UPDATES
...1 1..1			FCTDSJWA	"FCTDSVR4" JOURNAL WRITE ADDS INDICATOR
...1 .			FCTJWA	"X'10" JOURNAL WRITE ADDS
...1 1..1			FCTDSJDS	"FCTDSVR4" DSNNAME HAS BEEN JOURNALLED IND
.... 1..			FCTJDSN	"X'08" DSNNAME HAS BEEN JOURNALLED
...1 1..1			FCTDSJSY	"FCTDSVR4" SYNCHRONOUS READS JOURNAL INDICATOR
.... .1.			FCTJSYN	"X'04" SYNCHRONOUS READS JOURNAL
...1 1..1			FCTDSJAS	"FCTDSVR4" ASYNCHRONOUS WRITES JRNL INDICATOR
.... .1.			FCTJASY	"X'02" ASYNCHRONOUS WRITES JOURNAL
...1 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..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)				
.... .1.			FCTDTCLS	"X'01" Close data table source
(1B)	BITSTRING	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	FCTFLAG1	Saved temporary flag
(1F)	BITSTRING	1	FCTFLG2	Saved temporary flag
(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.			FCTSDSA	"X'02" DYNAMICALLY ALLOCATED DATA SET
.... .1.			FCTDCLX	"X'01" CLOSE IN PROGRESS

Offset Hex	Type	Len	Name (Dim)	Description
(2A)	BITSTRING	1	FCTFLG3	Saved temporary flag
ACCESS - STATE PROTECTION				
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	In-progress flags
	..1. 1.11		FCTDIINP	"FCTINPFL" Disable in-progress indicator
	1...		FCTDISIN	"X80" 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
STATISTICS				
(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)	FULLWORD	4	FCTDSXCL	No. of exclusive cti conflicts
(54)	CHARACTER	8	FCTOPENT	Time file opened
(5C)	ADDRESS	4	FCTDSFRT	Address of a FRTE
(60)	FULLWORD	4	FCTDYNAL (0)	
DYNAMIC ALLOCATION				
(60)	ADDRESS	4	FCTSDP	>> DSNAME ENTRY FOR DYNAMIC ALLOCATION.
(64)	ADDRESS	4	FCTDSBCP	>> DSNAME ENTRY WITH BASE CLUSTER NAME.
Buffer pool pointer				
(68)	ADDRESS	4	FCTDSBFP	Pointer to buffer pool header
Access-method dependent sections				
(70)	DBL WORD	8	FCTVSEXT (0)	BASE FOR OVERLAYING
VSAM EXTENSION				
(70)	ADDRESS	4	FCTDSBWC	BUFFER WAIT CHAIN
(74)	HALFWORD	2	FCTDSCBW	CURRENT # WAITING FOR BUFFER
(76)	HALFWORD	2	FCTDSHBW	HIGHEST # WAITED FOR BUFFER
(78)	FULLWORD	4	FCTDSTBW	TOTAL # WAITED FOR BUFFER
(7C)	ADDRESS	4	FCTVSWA	Free VSWAs
(80)	BITSTRING	1	FCTDSDBN	BUFFER SIZE INDEX FOR DATA BUFFERS
(81)	BITSTRING	1	FCTDSIBN	BUFFER SIZE INDEX FOR INDEX BUFFERS
(82)	BITSTRING	1	FCTVSVR1	VSAM DATA SET CONTROL IND 1
	1... ..1.		FCTDSKSD	"FCTVSVR1" KSDS INDICATOR
	1...		FCTKSDS	"X80" KEY SEQUENCED DATA SET
	1... ..1.		FCTDSESD	"FCTVSVR1" ESDS INDICATOR
	.1...		FCTESDS	"X40" ENTRY SEQUENCED DATA SET
	1... ..1.		FCTDSSHR	"FCTVSVR1" SHARED RESOURCES INDICATORS, THAT SIGNIFY CONNECTION WITH LSR POOLS
	..1.		FCTSHRIM	"X20" FILE IS NOW SHARING RESOURCES
	.... 1..		FCTSHRSP	"X08" FILE IS TO USE AN LSR POOL
	1... ..1.		FCTDSSGF	"FCTVSVR1" SHARED STATS COLLECTED FLAG
	...1		FCTSHBG	"X10" STATISTICS HAVE BEEN COLLECTED
	.... ..1.		FCTVRRDS	"X04" Variable RRDS
	1... ..1.		FCTDSADR	"FCTVSVR1" ADDRESSED ACCESS INDICATOR
	.... ..1.		FCTADR	"X02" ADDRESSED ACCESS ONLY (SHARE OPTIONS 4 ONLY)
	1... ..1.		FCTDSRRD	"FCTVSVR1" RRDS INDICATOR
	.... ..1		FCTRRDS	"X01" RELATIVE RECORD DATA SET
(83)	BITSTRING	1	FCTDSOBJ	VSAM OBJECT TYPE (OR MODE)
MODE OF ACCESS THROUGH VSAM (DETERMINED AT OPEN-TIME, ON OS)				
	1... ..11		FCTDSPAT	"FCTDSOBJ" AIX PATH INDICATOR
	...1		FCTPATH	"X10" AIX PATH + DATASET SHARING
	1... ..11		FCTDSALT	"FCTDSOBJ" AIX INDICATOR
	.... 1..		FCTALTIX	"X08" ACCESS THROUGH AIX
	.... ..1.		FCTBASE	"X04" ACCESSED AS A BASE
(84)	ADDRESS	1	FCTIPOOL	LSR POOL IDENTIFIER
(85)	BITSTRING	1	FCTVSVR2	VSAM DS INDICATOR 2
	1...		FCT_IMMEDIATE	"X80" Immediate close requested
	.1..		FCTDTOPN	"X40" Data table is open
	..1.		FCTNODSN	"X20" DSN-SHARING NOT TO BE APPLIED IF READ-ONLY
	.... 1..		FCTILFLG	"X08" DATA SET IS BEING INITIALLY LOADED
	.... ..1.		FCTDREUS	"X04" THE FILE HAS A "REUSE" SERVREQ
	.... ..1.		FCTMTYRQ	"X02" "EMPTY" REQUEST IS OUTSTANDING
	.... ..1		FCTDLFLG	"X01" VSAM "LOAD" MODE IS IN EFFECT
DATA SET CONTROL INDICATOR 6				
VSAM only journaling and logging options.				
(86)	BITSTRING	1	FCTDSVR6	Dataset control indicator 6
	1...		FCTJFR	"X80" Forward recovery

FCT

Offset Hex	Type	Len	Name (Dim)	Description
	.1..		FCTJWAC	"X'40" Write add complete
	...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.				
(87)	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
(88)	HALFWORD	2	FCTDSASC	Active string count
(8A)	HALFWORD	2	FCTDSCWC	VSAM current string wait count
THE NEXT TWO FIELDS CONTAIN LIMITS, AGAINST WHICH FCTDSASC IS TESTED.				
(8C)	HALFWORD	2	FCTDSMSC	Upper limit for string count
(8E)	HALFWORD	2	FCTDSPMS	Limit for UPDATE/ADD string count
THE NEXT THREE FIELDS CONTAIN HISTORICAL INFORMATION, COLLECTED FOR USE IN STATISTICAL REPORTS				
(90)	FULLWORD	4	FCTDSTSW	Total # tasks waited for string
(94)	FULLWORD	4	FCTDSELE	Number of DELETES
(98)	HALFWORD	2	FCTDSSHW	Highest # tasks waited on string
(9A)	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.				
(9C)	FULLWORD	4	FCTMAXLN	Maximum record length
(A0)	FULLWORD	4	FCTCFRLN	CFDT user specified reclen
TWO FIELDS REPRESENT SYSTEM-PROGRAMMER-SUPPLIED VALUES, THAT WILL BE DYNAMICALLY INSERTED IN THE ACB :				
(A4)	HALFWORD	2	FCTBUFND	Specified number of data buffers
(A6)	HALFWORD	2	FCTBUFNI	Specified number of index buffers
(A8)	FULLWORD	4	FCTDSACB	Pointer to VSAM ACB
(AC)	BITSTRING	1	FCTDSBWE	Buffer wait ECB
(AD)	BITSTRING	1		Reserved
(AE)	BITSTRING	1	FCTFRLOG	Forward recovery log id
(AF)	BITSTRING	1	FCTVSPWL	VSAM password length
(B0)	CHARACTER	8	FCTVSPWD	VSAM password
(B8)	CHARACTER	8	FCTBASEN	Symbolic name of base
(C0)	FULLWORD	4	FCTDTSIZ	Data table size
(C4)	ADDRESS	4	FCTDTTKN	Data table token
(C8)	FULLWORD	4	FCTDTRDS	Data table reads
(CC)	FULLWORD	4	FCTDTRNF	Data table reads via VSAM
(D0)	FULLWORD	4	FCTDTAVR	Data table adds via read
(D4)	FULLWORD	4	FCTDTADS	Data table adds via API
(D8)	FULLWORD	4	FCTDTARJ	Data table adds suppressed
(DC)	FULLWORD	4	FCTDTATF	Data table adds and table full
(E0)	FULLWORD	4	FCTDTRWS	Data table rewrites
(E4)	FULLWORD	4	FCTDSDL	Data table deletes
(E8)	FULLWORD	4	FCTDTLDS	Data table LOADING responses
(EC)	FULLWORD	4	FCTDTSHI	Data table record hwm
(F0)	ADDRESS	4	FCTDTPTH	Data table path token
(F4)	ADDRESS	4	FCTBCCHN	Open file chain
(F8)	ADDRESS	4	FCT_NEXT_RLS_FCTE	Address of next file open in RLS mode
(FC)	ADDRESS	4	FCT_BC_CONN_CHAIN	Address of next FCT entry connected to this base
(100)	ADDRESS	4	FCT_RLS_TIMEOUTS	Number Of RLS timeouts
(104)	CHARACTER	8	FCTDT_NAME	Data Table Name
(10C)	CHARACTER	8	FCTCF_POOL_NAME	CFDT Pool Name
(114)	ADDRESS	4	FCTCF_POOL_ELEM_ADDR	Address of pool element
(118)	ADDRESS	4	FCTCF_NEXT_IN_POOL_CHAIN	Address of next FCT entry open against a CFDT in this pool
(11C)	FULLWORD	4	FCTCF_DT_TOKEN	CFDT Token
(120)	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
(124)	FULLWORD	4	FCTCF_LOADER_ID	CFDT loader id
(128)	BITSTRING	1	FCTFLG1	Flags
	1...		FCT_NOT_AUTH	"X'80" Connect failed - not auth
	...1		FCT_CONN_FAIL	"X'20" Last CONNECT attempt failed - retry later
	...1		FCT_LINK_FAIL	"X'10" Last CONNECT attempt failed link security check
	.... 1...		FCT_408_ISSUED	"X'08" Message 0408 issued - shipped request was successful
	.... .1..		FCT_408_NEEDED	"X'04" Message 0408 needed if shipped request is successful
	.... .1..		FCT_FORCE	"X'02" Force users off
(129)	CHARACTER	2		Reserved

FCTSR

Offset Hex	Type	Len	Name (Dim)	Description
(130)	DBL WORD	8	FCT_STCK	Last shared table connect
(130)		0	FCTVSEL	**DFHFCTDS* Length of VSAM file entry
(70)	FULLWORD	4	FCTDAEXT (0)	
BDAM EXTENSION				
(70)	ADDRESS	4	FCTSDCDB	Data Control Block address
(74)	ADDRESS	2	FCTDSREC	Record length
(76)	ADDRESS	2	FCTDSBLK	Block size
	.111 1...		FCTNVEL	**DFHFCTDS* Length of BDAM file entry

FILE CONTROL TABLE PREFIX

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	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		Reserved
(8)	ADDRESS	4	FPFSELFA	SELF-POINTER (FOR F-DUMP)
(C)	ADDRESS	4		Reserved
(10)	ADDRESS	4		Reserved
(14)	ADDRESS	4		Reserved
(18)	ADDRESS	4	FFFPVADR	ADDRESS SHARED-POOL VECTOR
(1C)	ADDRESS	4		Reserved
	..1.		FFPFRFL	**DFHFPFDS* LENGTH OF FCT PREFIX

FCTSR File control shared resources

CONTROL BLOCK NAME = DFHFCTSR
 DESCRIPTIVE NAME = CICS FCT SHARED RESOURCES CONTROL BLOCK
 @BANNER_START 02
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 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END

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)	STRUCTURE	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

FCTSR

Offset Hex	Type	Len	Name (Dim)	Description
	...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
(A)	HALFWORD	2	FCTSRUC	NUMBER OF OPEN ACBs ON THE POOL
(C)	ADDRESS	4	FCTSRBWC	BUFFER WAIT CHAIN START
(10)	ADDRESS	4	FCTSRTSC	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	FCTSRTSW	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	FCTSRHBX	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)		0	FCTSRNFL	"(*-FCTSRCIS)" Length of repeating fields
	.... 1.11		FCTSRNCI	"(FCTSRNFL/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)		0	FCTSR LNG	"*-DFHFCTSR" RESOURCE CONTROL ENTRY LENGTH

FIOA File input/output area

CONTROL BLOCK NAME = DFHFIOA
 DESCRIPTIVE NAME = CICS File I/O Area.
 @BANNER_START 02
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 5697-E93
 @BANNER_END
 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)	STRUCTURE	0	DFHFIOA	DUMMY SECTION - FILE I/O AREA @
FIXED SECTION				
(0)	HALFWORD	2	FIOALGTH	Length of FIOA.
DATA EVENT CONTROL BLOCK				
(2)	BITSTRING 1... ..	1	FIOAIND (0) FIOAM	FILE I/O AREA INDICATOR "XC0" 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	FCFIOXB (0) FCECIND	EXCLUSIVE CONTROL INDICATOR "X80" 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
				"X80" Browse in progress
	.1.		FIOA_DEBREC_BROWSE	"X40" DEBREC browse
	.1.		FIOA_DEBKEY_BROWSE	"X20" DEBKEY browse
(59)	BITSTRING 1... ..	1	FIOA_INDICATORS FIOA_DEBLOCK_ REQUIRED	Miscellaneous indicators
				"X80" Deblock required
(60)	DBL WORD .11.	8	FIOACAE (0) FIOACAD	CONTROL AREA ENDING ADDRESS "*-DFHFIOA" CONTROL AREA DISPLACEMENT
	.1.1 11..		FIOAL	"*-FCFIOECB" FIOA LENGTH
(60)	DBL WORD .11.	8	FCDS01D (0) FIOADBA	BEGINNING ADDRESS DATA AREA "FCDS01D" DATA BEGINNING ADDRESS

FLABC

FLABC File Lasting Access Block

CONTROL BLOCK NAME = DFHFLABC
DESCRIPTIVE NAME = CICS File Lasting Access Block (FLAB)
@BANNER_START 02
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@BANNER_END
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.
.... continued

FLABC

... continuation

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 DFHFICRP 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, DFHFICIR 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	80	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	64	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)	CHARACTER	4	FLAB_REMOTE_ SYSTEM_ID	Name of target system if file is remote
(24)	CHARACTER	8	FLAB_REMOTE_ FILENAME	Name of file on target system if file is remote
(2C)	ADDRESS	4	FLAB_FCTE_ADDRESS	Address of associated FCT entry
(30)	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.				
(34)	ADDRESS	4	FLAB_FRTE_ CHAIN_ADDRESS	Address of first FRTE owned by this FLAB
(38)	BIT(8)	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	

FLABC

Offset Hex	Type	Len	Name (Dim)	Description
...1			FLAB_RECOVERABLE_WORK_DONE	Do not attempt backout: base data set has had a backout failure since the last unshunt
.... 1...			FLAB_MI_COMPLETE_SEEN	Recoverable work done and therefore eligible for shunting.
.... .1..			FLAB_WA_COMPLETE_SEEN	Mass insert complete log rec seen (restart)
.... ..1.			FLAB_QUICMP_PENDING	Write add complete log rec seen (restart)
.... ...1			FLAB_FCTE_ALREADY_DELETED	RLS QUICOPY or QUIBWO quiesce request received for base data set
(39)	BIT(8)	1	FLAB_SECURITY_ACCESS	Reserved
1...			FLAB_READ_ALLOWED	Security Characteristics Read security check OK
.1..			FLAB_UPDATE_ALLOWED	Update security check OK
..11 1111			*	Reserved
(3A)	UNSIGNED	1	FLAB_RETAIN_REASON	Reason work had to be retained
(3B)	UNSIGNED	1	FLAB_RETAIN_REASON2	Sub-reason for backout failures
SET storage for READ_SET requests				
(3C)	CHARACTER	8	FLAB_SET_CONTROL	Set storage control
(44)	CHARACTER	8	FLAB_SETU_CONTROL	Set storage control
More FLAB flags				
APAR PQ90885				
added FLAB_FORCE_ABEND				
(4C)	BITSTRING	1	FLAB_FLAGS2	Flag byte 2
1...			FLAB_FORCE_ABEND	SDT connect failed, abend
.111 1111			*	Reserved
(4D)	BIT(8)	1	*	Reserved
(4E)	BIT(8)	1	*	Reserved
(4F)	BIT(8)	1	*	Reserved
(50)	CHARACTER	0	*	Align to double word boundary

Constants

Len	Type	Value	Name	Description
Values for flab_retain_reason				
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
 @BANNER_START 02
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 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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)	STRUCTURE	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		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		FMHTYP1	"X'01" ...TYPE 1 FMH
	.... .1.		FMHTYP2	"X'02" ...TYPE 2 FMH
	.... .11		FMHTYP3	"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

FMH

Offset Hex	Type	Len	Name (Dim)	Description
(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
	.... ....		FMHDSPDE	"X'00" DEFAULT DSP
	.... ...1		FMHDSPBA	"X'01" BASE DSP
	.... ..11		FMHDSPJB	"X'03" JOB DSP
	.... .1..		FMHDSPRW	"X'04" W/P RAW
	.... .11.		FMHDSP11	"X'06" OII LEVEL 1
	.... .111		FMHDSP12	"X'07" OII LEVEL 2
	.... 1...		FMHDSP13	"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	FMHSDSP	DEFINE STORAGE
(4)	BITSTRING	1	FMHDESEL	DESTINATION SELECT FIELD BIT 0-2 ONLY
	.... ....		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...		FMHDEFSU	"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. .1..		FMH2FADD	"X'24" ..ADD OPERATION
	..1. .1.1		FMH2FREP	"X'25" ..REPLACE OPERATION
	..1. 1...		FMH2FQUE	"X'28" ..QUERY OPERATION
	..1. 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. 11..		FMH2FERA	"X'2C" ..ERASE OPERATION
	..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
	.... ....		FMH2RIAK	"X'00" ..ADDRESSED DIRECT
	.... ...1		FMH2RID1	"X'01" ..KEY DIRECT KEY1
	.... ..1.		FMH2RID2	"X'02" ..KEY DIRECT KEY2
	.... ..11		FMH2RIAP	"X'03" ..APPLICATION DEFINITION
	.... .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 PRECEDING 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
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FMH

Offset Hex	Type	Len	Name (Dim)	Description
(1)	CHARACTER	1	FMHCT	CONCATENATION FLAG AND FMH TYPE BITS SET AS FOLLOWS
	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	FMHXMOD	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	0	FMHBCMD	"X'02FF" ATTACH LU6.2
	1111 1111		FMHBTFN	"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
(1)	CHARACTER	73	FMHBACC (0)	SECURITY ACCESS CODE

FMH

Offset Hex	Type	Len	Name (Dim)	Description
(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_RQS	"X'F9" Requeststream flow
	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 MANAGMENT 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/VMS 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/VMS 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 UPPPER ESTIMATE OF MAXIMUM LENGTH FOR THE SYSERROR FMH
FUNCTION MANAGMENT 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 FMHXM0D 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
	.... .1..		FMHRESUN	"X'04" RESUNAVAIL is supported
	.... ..1.		FMHCHANL	"X'02" CHANNEL request
(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	FMHSQNME (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'FMHSQNME+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	STATUS OF SCHEDULE REQUEST BITS SET AS FOLLOWS BIT0 RESERVED
	.1..		FMHSSYSI	"X'40" Unable to ship request to next node
	..1.		FMHSINAU	"X'20" UNAUTHORIZED REQUEST
	...1		FMHSIEXP	"X'10" INITIATION TIME EXPIRED
	.... 1...		FMHSIDPN	"X'08" INVALID PROCESS NAME
	.... .1..		FMHSIPRN	"X'04" INVALID RESOURCE NAME
	.... ..1.		FMHSERR	"X'02" UNABLE TO SCHEDULE DUE TO PROCESSING ERROR
	.... ...1		FMHSINV	"X'01" INVALID REQUEST
(7)	CHARACTER	1	FMHSSST2	EXTENSION TO FMHSSSTS BITS SET AS FOLLOWS
	1...		FMHUIDER	"X'80" USERID ERROR
	... 1...		LF060804	**DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	FMHSIREQ (0)	REQUEST NAME GENERATED BY RECEIVING SYSTEM
	...1 ...1		MF060804	"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				
	.... .11.		LF060806	**DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	(0)	see definition for FMHSREQN
(0)	CHARACTER	8	FMHSCDPN (0)	NAME OF PROCESS THAT IS TO BE CANCELLED
	...1 1...		MF060806	"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	STATUS OF PURGE REQUEST BITS SET AS FOLLOWS BIT0 RESERVED BIT1 RESERVED BIT2 RESERVED BIT3 RESERVED BIT4 RESERVED
	.... .1..		FMHSPSYS	"X'04" Unable to ship request to next node
	.... ..1.		FMHSPNAU	"X'02" UNAUTHORIZED REQUEST
	.... ...1		FMHSNFD	"X'01" NAMED REQUEST NOT FOUND
	.... .111		LF060808	**DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
FUNCTION MANAGEMENT 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	"X'02" CONDITIONAL REQUEST
	.... ..1.		FMHQQORG	TYPE OF QUEUE VALUES SET AS FOLLOWS
	.... ....		FMHQNSPE	"X'00" QUEUE TYPE NOT SPECIFIED
	.... ...1		FMHQSEQL	"X'01" QUEUE TYPE IS SEQUENTIAL
	.... ..1.		FMHQLINE	"X'02" QUEUE TYPE IS LINEAR
	.... ..11		FMQHIER	"X'03" QUEUE TYPE IS HIERARCHICAL
	.... .111		LF060A02	**DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	16	FMHQNAME (0)	THE QUEUE NAME IS FROM 1 TO 16 CHARACTERS
	...1 1...		MF060A02	"LF060A02+1+L'FMHQNAME" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QPUT FMH
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		see definition for FMHQQORG
	.... .111		LF060A04	**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	THE MAXIMUM RECORD LENGTH IS HELD AS TWO BYTE BINARY
	...1 111.		MF060A04	"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		see definition for FMHQQORG
	.... .111		LF060A06	**DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8	(0)	see definition for FMHQNAME
	...1 1...		MF060A06	"LF060A06+1+L'FMHQNAME" GOOD UPPER ESTIMATE OF MAXIMUM LENGTH FOR THE QPURGE FMH

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 FMHQQORG
(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 FMHQCCURS
(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'FMHQCCURS+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 FMHQQORG
(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 FMHQCCURS
(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'FMHQCCURS" 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 FMHQQORG
	.... .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 FMHQCCURS
	...1 1.11		MF060A0C	"LF060A0C+1+L'FMHQNAME+1+L'FMHQCCURS" 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 FMHQQORG
	.... .111		LF060A10	"*-DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER
(0)	CHARACTER	8		see definition for FMHQNAME
(0)	CHARACTER	2		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

FMH

Offset Hex	Type	Len	Name (Dim)	Description
FUNCTION MANAGMENT 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		FMHDPCB	"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 ARGU- MENT; 256 IS AN ARBITRARY RATHER THAN MAXIMUM VALUE
(3)	CHARACTER	256	FMHDPCB (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		LFMHVDV	**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 - VAR IABLE PARAM - 2 BYTES LONG
(0)	CHARACTER	2	FMHDSTC (0)	Status Codes- Variable parameter - 2 bytes long
(0)	CHARACTER	8	FMHDBORG (0)	Database Organisation -Var iable param - 8 bytes long
(0)	CHARACTER	8	FMHDPCBN (0)	Real PCBNAME -Var iable param - 8 bytes long
	..11 .11		MAXLDVD	"LFMHVDV+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 FMHDPSBN (0) MF064002	**DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER PSB NAME - VARIABLE PARAM - FROM 1 TO 8 CHARACTERS LONG "LF064002+1+L'FMHDPSBN" 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	RESERVED
	.... 1...		LF064004	**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	FMHDPCBI	THE INDEX FOR THIS PCB
	.... 1...		LF064006	**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 FMHDPCBI **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 FMHDPCBI **DFHFMHDS" LENGTH OF THE FIXED PART OF THIS HEADER

FMH

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 FMHDPCBI **"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 FMHDPCBI **"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 FMHDPCBI **"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 FMHDPCBI **"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 FMHDPCBI **"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 FMHDPCBI **"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	FMHRCDS (0)	DL/I RETURN CODES
(6)	CHARACTER	1	FMHRCDD1	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			
	.... .1..		FMHDNVRQ	"X'04" INVALID PCB INDEX BIT6 RESERVED BIT7 RESERVED
(7)	CHARACTER	1	FMHRCDD2	RESERVED
(8)	CHARACTER	2	FMHDSEGL	SEGMENT LEVEL (BINARY)
(A)	CHARACTER	2	FMHDSTCD	STATUS CODES
	.... 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 FMHRCDS
(6)	CHARACTER	1		see definition for FMHRCDD1
(7)	CHARACTER	1		see definition for FMHRCDD2
(8)	CHARACTER	2		see definition for FMHDSEGL
(A)	CHARACTER 11..	2	LF06401E	see definition for FMHDSTCD **"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			
(6)	CHARACTER 1...	2	LF064020	PCB index **"DFHFMHDS" Length of fixed part

FMH

Offset Hex	Type	Len	Name (Dim)	Description
(8)	ADDRESS	2		Length of view descriptor
(A)	BITSTRING	1		I/O area type View descriptor
(B)	BITSTRING	1		I/O area (1 byte)
	.... 11..		MF064020	**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	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	8	FMHSIPSNM LF064024	PSB Name **DFHFMHDS**
(0)	CHARACTER	2		FMHDLENG
(2)	CHARACTER	1		FMHDTYPE
(3)	CHARACTER	12	FMHDPSC (0)	
(3)	CHARACTER	8	FMHDIOPC	
(C)	HALFWORD	2	FMHDNBA	
(E)	HALFWORD	2	FMHDOBA	
	...1 11.1		MF064024	"LF064024+2+1+L'FMHDPSC"
DLILOG Function Management Header User for DL/I LOG requests X'4026' Group and Function				
(6)	CHARACTER	2		PCB index **DFHFMHDS**
	.... 1..		LF064026	
DLISTAT Function Management Header User for DL/I STAT requests X'4028' Group and Function				
(6)	CHARACTER	2		PCB index **DFHFMHDS**
	.... 1..		LF064028	
(0)	CHARACTER	2		FMHDLENG
(2)	CHARACTER	1		FMHDTYPE
(3)	CHARACTER	9	FMHDPSTA (0)	
(3)	CHARACTER	4	FMHDSTTY	
(7)	CHARACTER	1	FMHDSTFO	
(8)	CHARACTER	4	FMHDSTRE	
	...1 .1..		MF064028	"LF064028+2+1+L'FMHDPSTA"
DLIINIT Function Management Header User for DL/I INIT requests X'402A' Group and Function				
(6)	CHARACTER	2		PCB index **DFHFMHDS**
	.... 1..		LF06402A	
DLISETS Function Management Header User for DL/I SETS requests X'402C' Group and Function				
(6)	CHARACTER	2		PCB index **DFHFMHDS**
	.... 1..		LF06402C	
(0)	CHARACTER	4	FMHDPSTR	
DLIROLS Function Management Header User for DL/I ROLS requests X'402E' Group and Function				
(6)	CHARACTER	2		PCB index **DFHFMHDS**
	.... 1..		LF06402E	
DLIPOS Function Management Header User for DL/I POS requests X'4030' Group and Function				
(6)	CHARACTER	2		PCB index **DFHFMHDS**
	.... 1..		LF064030	
DLISSR Function Management Header User for DL/I System Service Reply X'4032' Group and Function				
(6)	CHARACTER	2		FMHRCDS
(8)	CHARACTER	2	FMHDSSCD LF064032	Status Code **DFHFMHDS**
	.... 1.1.			

FMH

Offset Hex	Type	Len	Name (Dim)	Description
DLINTR Function Management Header User for DL/ INIT Reply X'4034' Group and Function				
.... .11.			LF064034	**DFHFMHDS"
DLICMD Function Management Header User for DL/ ICMD requests X'4036' Group and Function				
(6)	CHARACTER	2	LF064036	PCB index (zero for ICMD, RCMD, GMSG) **DFHFMHDS" Length of fixed part
DLIAOIR Function Management Header User for DL/ ICMD, RCMD, GMSG Reply X'4038' Group and Function				
(6)	CHARACTER	2	LF064038	FMHRCDS **DFHFMHDS"
DLIRCMD Function Management Header User for DL/ RCMD requests X'403A' Group and Function				
(6)	CHARACTER	2	LF06403A	PCB index (zero for ICMD, RCMD, GMSG) **DFHFMHDS" Length of fixed part
DLIGMSG Function Management Header User for DL/ GMSG requests X'403C' Group and Function				
(6)	CHARACTER	2	LF06403C	PCB index (zero for ICMD, RCMD, GMSG) **DFHFMHDS" Length of fixed part
DLINQY Function Management Header User for DL/ INQY requests X'403E' Group and Function				
(6)	CHARACTER	2	LF06403E	PCB index (zero for INQY) **DFHFMHDS" Length of fixed part
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		FMHPPTEB	"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.		LFFMHV	**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	5	FMH43_PC_CCSID (0)	
(0)	CHARACTER	5	FMH43_PC_NDIAN (0)	
(0)	CHARACTER	7	FMHCRUDE (0)	FOR INBOUND REPLIES - THE ERROR CODES FROM EIBRCODES
(0)	CHARACTER	7	FMHRESP (0)	FOR INBOUND REPLIES - RESPONSE/REASON ETC.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	CHARACTER	5	FMHVRSN (0)	FOR INBOUND REPLIES - VERSION NUMBER OF REPLY FIELDS
(0)	CHARACTER	3	FMHFLGS (0)	FOR INBOUND REPLIES - FLAG BYTES
	1... ..		FMH_TERMINATE_ STRING	
(0)	CHARACTER	5	FMHCTRRC (0)	"X'80" TERMINATE STRING INDICATOR FOR INBOUND REPLIES - THE TRANSACTION ROUTING RETURN CODE TO BE PASSED TO CPSM
<p>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.</p>				
(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 = DFHFMI
DESCRIPTIVE NAME = CICS FUNCTION AND MODULE IDENTIFIERS
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
All names defined in DFHFMI 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)
DFHFMI CONSTANTS
JOURNAL CONTROL

```

Constants

Len	Type	Value	Name	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	CONTINUOUS LOGICAL SPOOLOPEN
1	HEX	81	FIDPSWRC	CONTINUOUS LOGICAL SPOOLWRITE
1	HEX	82	FIDPSCLC	CONTINUOUS 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

FMI

Len	Type	Value	Name	Description
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	FIDTCTL	SEQUENCE NUMBER ONLY
1	HEX	81	FIDTCIM	INPUT MESSAGE (LOG AND
1	HEX	82	FIDTCOM	OUTPUT MESSAGE (JOURNAL
1	HEX	83	FIDTCWP	WRITE WAS PURGED (LOG
1	HEX	84	FIDTCPRR	POSITIVE RESPONSE
1	HEX	85	FIDTCIMF	INPUT MESSAGE (W/FMH,
1	HEX	86	FIDTCOMN	OUTPUT MESSAGE, (W/O
1	HEX	87	FIDTCON	OUTPUT MESSAGE, FMH,
1	HEX	88	FIDTCOON	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)
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 FUNCTION =
 DFHFRAB 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, DFHFICIR 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	DFHFRAB	
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

FRABC

Offset Hex	Type	Len	Name (Dim)	Description
(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.
(1C)	ADDRESS	4	FRAB_FLLB_ CHAIN_ADDRESS	Pointer to start of FLLB chain for current transaction.
(20)	ADDRESS	4	FRAB_EXCL_VSWA	VSWA that suffered excl control conflict for this task.
(24)	ADDRESS	4	FRAB_TRANSACTION_ TOKEN	Current transaction's transaction token (TCA address)
(28)	FULLWORD	4	FRAB_UPDATE_ TOKEN	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)	BIT(8)	1	FRAB_FLAGS FRAB_RLS_ LOCKS_HELD	Assorted flags
	1...			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		FRAB_UOWID_SET	UOW has been recorded in FRAB
	.... 1...		FRAB_PHASE_2_SYNC	UOW has been through ph2 of syncpoint
	.... .1..		FRAB_REQUEST_ FORGET	Request_forget has been issued
	.... ..1.		FRAB_LONG_ RUNNING	The XFCFRIN exit has intercepted the request and indicated that the mirror is to remain long running
	.... ...1		*	Reserved
(31)	CHARACTER	3	*	Reserved
(34)	ADDRESS	4	FRAB_FCUP_ CHAIN_ADDRESS	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	0	*	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

FRABC

Offset Hex	Type	Len	Name (Dim)	Description
(18)	CHARACTER	36	LUWIDPDI	deadlock/timeout problem
determination information				
(18)	BIT(8)	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				
(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	LUWIDSVA	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
LUWID Constants				
8	CHAR HEX	0000000000000000	LUWIDNUL	Null LUWID
8	CHARACTER	IFGLUWID	LUWIDIDC	Eyecatcher
1	DECIMAL	1	LUWIDVRC	Version Number

FRTEC

FRTEC File Request Thread Element

CONTROL BLOCK NAME = DFHFRTEC
 DESCRIPTIVE NAME = CICS File Request Thread Element
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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	116	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	92	FRT_MAIN_PART	Main part of FRTE
(10)	ADDRESS	4	FRT_NEXT_ FRTE_ADDRESS	Pointer to next FRTE in chain for current file.
(10)	ADDRESS	4	FRT_FREE_ FRTE_ADDRESS	Next FRTE in FC static storage free chain.
(14)	ADDRESS	4	FRT_FLAB_ADDRESS	Address of FLAB that owns this FRTE.
(18)	CHARACTER	1	FRT_FUNCTION	Function byte - see CONSTANT definitions
(19)	BIT(8)	1	FRT_FLAGS	FRTE flag byte
	1... ..		FRT_PRIVILEGED	Privileged request
	.1... ..		FRT_INITIAL_LOAD	Initial loading lock held.
	..1.		FRT_USE_FCDT	Call FCDT if a CMT
	...1		FRT_BACKOUT	Backing out
	.... 1...		FRT_CONTINUATION	This request continues a previous one
	.... .1..		FRT_ACCMETH_ MODULE_ACTIVE	The access method dependent module is active
	.... ..1.		FRT_UMT_LOCK_HELD	UMT record lock held for frt_key_copy
	.... ...1		FRT_GENERIC_BROWSE	Generic browse
(1A)	UNSIGNED	2	FRT_REQID	Browse request ident.
(1C)	ADDRESS	4	FRT_DATA_BUFFER	Temporary area to read record into
(20)	UNSIGNED	4	FRT_DATA_ BUFFER_LENGTH	Length of temporary area
(24)	ADDRESS	4	FRT_UPDATE_TOKEN	TOKEN for read update
This section of the FRTE describes the work area (VSWA or FIOA)				
(28)	ADDRESS	4	FRT_WORK_ AREA_ADDRESS	Address of work area i.e. VSWA or FIOA
(2C)	UNSIGNED	4	FRT_WORK_ AREA_LENGTH	Work area length

FRTEC

Offset Hex	Type	Len	Name (Dim)	Description
(30)	CHARACTER	8	FRT_WORK_AREA_SUBPOOL	Work area subpool
This section of the FRTE describes SET storage				
(38)	CHARACTER	8	FRT_SET_CONTROL	Set storage control area.
This section of the FRTE is used by data tables				
(40)	ADDRESS	4	FRT_KEY_COPY	Key copy area
(44)	CHARACTER	12	FRT_DT_RECORD_TOKEN	Table record token
(44)	ADDRESS	4	FRT_FBWA_ADDRESS	Table browse area
(50)	ADDRESS	4	FRT_CF_CONNECTION_TOKEN	CFDT pool connect token
(54)	FULLWORD	4	FRT_CF_INSTANCE_NUMBER	CFDT server instance number
This section of the FRTE is temporary and will be removed later				
(58)	ADDRESS	4	FRT_BCB_ADDRESS	Base Cluster Block addr
This section of the FRTE is used by the log and journal program				
(5C)	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.				
(60)	FULLWORD	4	FRT_WRMI_COUNT	no. of massinsert requests to recoverable ESDS.
(64)	CHARACTER	8	FRT_WRMI_START_TIME	Time of first massinsert to recoverable ESDS.
(6C)	ADDRESS	4	FRT_IFGLUWID_POINTER	Address of IFGLUWID * area associated with this request thread.
This section of the FRTE is flags for general use				
(70)	BIT(8)	1	*	Reserved
(71)	BIT(8)	1	*	Reserved
(72)	BIT(8)	1	*	Reserved
(73)	BIT(8)	1	*	Reserved

Constants

Len	Type	Value	Name	Description
Constants for FRT_FUNCTION				
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

GIOP

GIOP GIOP Header and Message declarations

```
=====
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
This copy book includes the following GIOP control blocks:
GIOP Header
Request Header 1.0/1.1 and 1.2
Locate Request Header 1.0/1.1 and 1.2
Reply 1.0/1.1 and 1.2
Service Context
cicsTaskTrackingContext - data flowed to trace the origin and
previous task of a request - known as the ctt.
cicsConnectionContext - contains TCPIP SERVICE information.
=====

The following shows the layout of a GIOP 1.0/1 message:-
|'G'|'I'|'O'|'P'|
|'1' version| 0/1 version | flag byte | message type|
| message size - unsigned long |
| Number of service contexts to follow. |
| context data - sequence |
| request Id - unsigned long |
| response | object key | name of | requesting |
| expected | - sequence | requested | principal |
| - boolean | JMBI | operation | - sequence |
| | - string | |
| Request Body - in & out parameters from IDL. ... |
The following shows the layout of a GIOP 1.2 message:-
|'G'|'I'|'O'|'P'|
|'1' version| '2' version | flag byte | message type|
| message size - unsigned long |
| request Id - unsigned long |
| response | |
| expected | |
| - boolean | |
| TargetAddr - 3 types - contains objectKey KMBI |
| or LMBI |
| Name of requested operation - string |
| Number of service contexts to follow. |
| context data - sequence |
| Double word aligned wrt GIOP header. |
| Request Body - in & out parameters from IDL. ... |
=====

GIOP message header
=====
```

Offset	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	12	GIOPHEADER	
(0)	CHARACTER	4	MAGIC	
(4)	UNSIGNED	1	IOPVERSIONMAJOR	
(5)	UNSIGNED	1	IOPVERSIONMINOR	
(6)	BIT(8)	1	FLAGS	
	1111 11..		*	
	.... ..1.		FRAGMENT	On if fragment expected
	.... ..1		ENDIAN	On if little endian
(7)	UNSIGNED	1	MESSAGETYPE	
(8)	UNSIGNED	4	MESSAGESIZE	
(8)	CHARACTER	4	MS	

```
=====
Request Header
The Request Header is made up of the following service contexts
and the request ID etc. It follows the GIOP request header
The fields following 'rh' determine their positions at run
time after the lengths have been 'endian' converted and any
alignment has been forced.
=====
```

```
Service Contexts
Service contexts exist at the beginning of a request header.
Their general form is as follows:
```

GIOP

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	SERVICECONTEXT	
(0)	UNSIGNED	4	CONTEXTNUMBER	0 if no contexts present.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	SERVICECONTEXT_	
			INSTANCE	
(0)	UNSIGNED	4	CONTEXTID	
(4)	UNSIGNED	4	CONTEXTLENGTH	
(8)	CHARACTER	*	CONTEXTDATA	

Request Header continued.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	RH	
(0)	UNSIGNED	4	REQUESTID	
(4)	UNSIGNED	1	RESPONSEFLAG	
			*	
			RESPONSEEXPECTED	
(5)	CHARACTER	3	*	

Request Header continued Object Key - including Userkey

Note, there are three valid formats of Object Key:

1) JMBI

Magic | SCID | ServerID | ServerUUID | UserKeyOffset |
JMBI | 4 | 4 | 16 | 4 |

UserKeyLength | UserKey
4 | ?

2) KMBI

Magic | SCID | ServerID | UserKeyOffset | UserKeyLength |
KMBI | 4 | 4 | 2 | 2 |

UserKey
?

3) LMBI

Magic | SCID | ServerID | UserKeyOffset | FieldA_Len | FieldA |
LMBI | 4 | 4 | 2 | 2 | ? |

.... | UserKeyLength | UserKey
.... | 2 | ?

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	OBJECTKEY	
(0)	UNSIGNED	4	OBJECTKEYLENGTH	
(4)	CHARACTER	4	OKMAGIC	
(8)	CHARACTER	33	*	
(8)	CHARACTER	33	JMBI	
(8)	UNSIGNED	4	SCIDJ	Must be x'00000014' @L4C
(C)	CHARACTER	24	*	object key fields @L3C
(24)	UNSIGNED	4	USERKEYLENGTHJ	bigendian @L4C
(28)	CHARACTER	1	USERKEYJ	char(*) @L4C
(8)	CHARACTER	13	KMBI	
(8)	UNSIGNED	4	SCIDK	Must be x'00000014' @L4C
(C)	CHARACTER	6	*	object key fields @L3A
(12)	UNSIGNED	2	USERKEYLENGTHK	bigendian @L4C
(14)	CHARACTER	1	USERKEYK	char(*) @L4C
(8)	CHARACTER	10	LMBI	
(8)	UNSIGNED	4	SCIDL	Must be x'00000014' @L4A
(C)	CHARACTER	4	*	server ID @L4A
(10)	UNSIGNED	2	USERKEYOFFSETL	

GIOP

GIOP 1.2 - Request Header continued - ObjectKey holder

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	TARGETADDRESS	
(0)	UNSIGNED	2	ADDRDISP	
(2)	UNSIGNED	2	*	
(4)	CHARACTER	*	TA_CONTENTS	
(4)	CHARACTER	5	OBJECT_KEY	addrDisp 0 = keyAddr
(4)	UNSIGNED	4	OBJKEYLEN	
(8)	CHARACTER	1	OBJKEYSTRING	
(4)	FULLWORD	4	TAGGEDPROFILE	addrDisp 1 = profileAddr
(4)	CHARACTER	*	IORADDRINFO	addrDisp 2 = Ref Addr
(4)	UNSIGNED	4	PROFILEINDEX	
(8)	UNSIGNED	4	TYPEIDLEN	
(C)	CHARACTER	*	TYPEIDSTRING	

Contents of taggedProfile (addrDisp 1) or follows typeIdString (addrDisp 2)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	TAGGED_PROFILE	follows typeIdString
(0)	UNSIGNED	4	PROFILEID	
(4)	UNSIGNED	4	PROFILELEN	Len of rest of IOR
(8)	CHARACTER	1	PROFILEENDIAN	
(9)	CHARACTER	2	PROFILEVERSION	
(B)	CHARACTER	1	*	
(C)	UNSIGNED	4	HOSTLEN	
(10)	CHARACTER	*	HOSTSTRING	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	PROFILE_CONT	follows hostString @L3A
(0)	UNSIGNED	2	IORPORT	
(2)	CHARACTER	*	OBJKEY	

Request Header continued Operation

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	OPERATION	
(0)	UNSIGNED	4	OPERATIONLENGTH	
(4)	CHARACTER	*	OPERATIONSTRING	May also have signature

The requestingPrincipal is full word aligned so the length of the operation is rounded up.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	REQUESTINGPRINCIPAL	
(0)	UNSIGNED	4	REQUESTINGPRINCIPALLENGTH	
(4)	CHARACTER	*	REQUESTINGPRINCIPALSTRING	

=====
 Locate Request Header
 The Locate request header contains a requestId and objectKey.
 It follows the GIOP request header.
 =====

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	LOCATEREQUESTHEADER	
(0)	UNSIGNED	4	LR_REQUESTID	
(4)	CHARACTER	4	LR_TARGETADDRESS	
(4)	FULLWORD	4	LR_OBJECTKEY	

=====
 Locate Reply Header
 The Locate reply header contains a requestid and status.
 =====

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	LOCATEREPLYHEADER	
(0)	UNSIGNED	4	LREP_REQUESTID	
(4)	UNSIGNED	4	LREPLY_STATUS	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	REPLY_RH	
(0)	UNSIGNED	4	REPLY_REQUESTID	
(4)	UNSIGNED	4	REPLY_STATUS	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	REPLYBODY	
(0)	UNSIGNED	4	REPLY_STRING_LENGTH	
(4)	CHARACTER	18	REPLY_STRING_EX	
(16)	CHARACTER	*	REPLY_STRING	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	REPLYBODYEND	
(0)	UNSIGNED	4	MINOR_CODE_VALUE	
(4)	UNSIGNED	4	COMPLETION_STATUS	

=====
 Service contexts
 These occur in a request header and are optional.
 =====
 Codesets context data

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	CODESETS	
(0)	UNSIGNED	4	CODESETID	
(4)	UNSIGNED	4	CODESETLENGTH	
(8)	CHARACTER	8	CODESETDATA	
(8)	UNSIGNED	4	CHARDATA	
(C)	UNSIGNED	4	WCHARDATA	

=====
 CICS task tracking context (cttsc or ctt)
 Origin shows the first CICS system for each request.
 Current shows the previous CICS system for this request.
 =====

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	52	CICSTASKTRACKINGCONTEXT	
(0)	UNSIGNED	4	CTTID	
(4)	UNSIGNED	4	CTTLENGTH	
(8)	CHARACTER	44	CTTDATA	
(8)	UNSIGNED	1	CTTENDIAN	Big endian
(9)	CHARACTER	1	*	
(A)	UNSIGNED	2	CTTLENGTH	
(C)	CHARACTER	40	ORIGIN	Connection and 1st request
(C)	UNSIGNED	1	CTTVERSION	

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Offset Hex	Type	Len	Name (Dim)	Description
(D)	CHARACTER	15	CTTCLIENTIPADDR	
(1C)	CHARACTER	2	*	
(1E)	UNSIGNED	2	CTTLISTENERPORT	
(20)	CHARACTER	8	CTTAPPLID	specific applid
(28)	CHARACTER	4	CTTTRANID	
(2C)	UNSIGNED	4	CTTTRANNUM	in binary
(30)	UNSIGNED	4	CTTREQUESTID	

The current versions are named ctc... instead of ctt... to allow an assembler version to be generated.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	84	CURRENT	this request
(0)	UNSIGNED	1	CTCVERSION	
(1)	CHARACTER	1	*	Force alignment
(2)	UNSIGNED	2	CTCLISTENERPORT	
(4)	CHARACTER	8	CTCAPPLID	
(C)	CHARACTER	4	CTCTRANID	
(10)	UNSIGNED	4	CTCTRANNUM	in binary - word aligned
(14)	UNSIGNED	4	CTCREQUESTID	

Fields ctcTargetSystem, ctcLogicalServer and ctcStackCount, though part of group current, are actually updated by subsequent requests and really are control fields.

(18)	FULLWORD	4	CTCSTACKCOUNT	Stack count
(1C)	CHARACTER	4	CTCLOGICALSERVER	Name of Logical server
(20)	CHARACTER	21	CTCTARGETSYSTEM	Target System
(35)	CHARACTER	3	*	spare bytes
(38)	CHARACTER	28	CTCTXNGROUPID	Transaction group id

CICS connection context (ccc)
Added to each request before request stream CREATE or JOIN.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	CICSCONNECTIONCONTEXT	
(0)	UNSIGNED	4	CCCID	
(4)	UNSIGNED	4	CCCLENGTH	
(8)	CHARACTER	24	CCCDATA	
(8)	UNSIGNED	1	CCCENDIAN	Big endian
(9)	UNSIGNED	1	CCCVERSION	
(A)	UNSIGNED	1	CCCAUTHTYPE	NO = 00, CERTIFICATE = 05 ASSERTED = 03
(B)	BIT(8)	1	CCCCREATEJOIN	CREATE = 01, JOIN = 02
(C)	CHARACTER	12	CCCVALIDATIONHASH	hashed TCPISERVICE parms
(18)	CHARACTER	8	CERTIFICATE	
(18)	FULLWORD	4	CCCERTIFICATELENGTH	0 if no certificate
(1C)	CHARACTER	4	CCCERTIFICATE	Actually v leng
(1C)	FULLWORD	4	CCCKPL	for JOIN when both 0

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	CCCKERBEROSPRINCIPAL	
(0)	FULLWORD	4	CCCKERBEROSPRINCIPALLENGTH	0 if no KP.
(4)	CHARACTER	*	CCCKERBEROSPRINC	

Basic Authentication Security Context

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	BASICAUTHSECURITYCONTEXT	
(0)	UNSIGNED	4	BASID	IBM0C
(4)	UNSIGNED	4	BASLENGTH	
(8)	CHARACTER	*	BASDATA	

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Offset Hex	Type	Len	Name (Dim)	Description
(8)	UNSIGNED	1	BASENDIAN	
(9)	CHARACTER	3	*	
(C)	UNSIGNED	4	BASMECHANISMTYPELENGTH	
(10)	CHARACTER	4	BASMECHANISMTYPE	Must be SSLnull
(14)	UNSIGNED	1	BASMSGTYPE	assoc_mutual_auth etc
(15)	UNSIGNED	1	BASVERSIONMINOR	
(16)	UNSIGNED	1	BASVERSIONMAJOR	
(17)	CHARACTER	1	*	
(18)	UNSIGNED	4	BASSEQUENCENUMBER	
(1C)	UNSIGNED	4	BASSESSIONIDLENGTH	
(20)	CHARACTER	*	BASSESSIONIDSTRING	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	BASHOSTNAME	
(0)	UNSIGNED	4	BASHOSTNAMELENGTH	
(4)	CHARACTER	*	BASHOSTNAMESTRING	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	BASSECNAME	
(0)	CHARACTER	*	*	
(0)	CHARACTER	2	BASASSOCERROR	
(0)	UNSIGNED	2	BASERRORCODE	
(0)	CHARACTER	*	BASSECNAME_ FIELD	
(0)	UNSIGNED	4	BASSECURITYNAMELENGTH	
(4)	CHARACTER	*	BASSECURITYNAMESTRING	Userid in Ascii

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	BASPASSWORD	
(0)	UNSIGNED	4	BASPASSWORDLENGTH	
(4)	CHARACTER	*	BASPASSWORDSTRING	password in Ascii

Asserted Identity Security Context

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	AISEcurityContext	
(0)	UNSIGNED	4	AIID	IBM16 @L5C
(4)	UNSIGNED	4	AILENGTH	
(8)	CHARACTER	*	AIDATA	
(8)	UNSIGNED	1	AIENDIAN	
(9)	UNSIGNED	1	AIVERSIONMAJOR	
(A)	UNSIGNED	1	AIVERSIONMINOR	
(B)	UNSIGNED	1	AIMSGTYPE	assoc_asserted_identity ..
(C)	UNSIGNED	4	AICREDTYPE	SSL Client authType - 2
(10)	UNSIGNED	4	AIIDENTITYLENGTH	
(10)	UNSIGNED	4	AIERRORCODE	
(14)	CHARACTER	*	AIIDENTITYSTRING	userid

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	AIOPTCRED	
(0)	UNSIGNED	4	AIOPTCREDLENGTH	
(4)	CHARACTER	*	AIOPTCREDSTRING	not used by CICS @L1A

Kerberos Security Context

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	KERBEROSSECURITYCONTEXT	
(0)	UNSIGNED	4	KERID	IBM18 @L1A
(4)	UNSIGNED	4	KERLENGTH	

GIOP

Offset Hex	Type	Len	Name (Dim)	Description
(8)	CHARACTER	*	KERDATA	
(8)	UNSIGNED	1	KERENDIAN	
(9)	UNSIGNED	1	KERVERSIONMAJOR	
(A)	UNSIGNED	1	KERVERSIONMINOR	
(B)	CHARACTER	1	*	
(C)	UNSIGNED	4	KERGSSAPIMAJORRC	
(10)	UNSIGNED	4	KERGSSAPIMINORRC	
(14)	UNSIGNED	4	KERIBMSTATUS	
(18)	UNSIGNED	4	KERSESSIONIDLENGTH	
(1C)	CHARACTER	*	KERSESSIONIDSTRING	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	KERGSSAPITOKEN	
(0)	UNSIGNED	4	KERGSSAPITLENGTH	
(4)	CHARACTER	*	KERGSSAPITSTRING	

Constants

Len	Type	Value	Name	Description
=====				
Constants				
=====				
GIOP Header - messageType values.				
1	DECIMAL	0	GIOPREQUEST	
1	DECIMAL	1	GIOPREPLY	
1	DECIMAL	2	GIOPCANCELREQUEST	
1	DECIMAL	3	GIOPLOCATEREQUEST	
1	DECIMAL	4	GIOPLOCATEREPLY	
1	DECIMAL	5	GIOPCLOSECONNECTION	
1	DECIMAL	6	GIOPMESSAGEERROR	
1	DECIMAL	7	GIOPFRAGMENT	
GIOP Header - values				
4	DECIMAL	12	GIOPHEADER_LEN	
1	DECIMAL	1	MAJOR_VERSION_1	
1	DECIMAL	2	MINOR_VERSION_2	
Reply_status values				
1	DECIMAL	0	NO_EXCEPTION	
1	DECIMAL	1	USER_EXCEPTION	
1	DECIMAL	2	SYSTEM_EXCEPTION	
1	DECIMAL	3	LOCATION_FORWARD	
1	DECIMAL	4	LOCATION_	
1	DECIMAL	5	FORWARD_PERM	
1	DECIMAL	5	NEEDS_ADDRESSING_	MODE
Locate Reply status values				
1	DECIMAL	0	UNKNOWN_OBJECT	
1	DECIMAL	1	OBJECT_HERE	
1	DECIMAL	2	OBJECT_FORWARD	
1	DECIMAL	3	OBJECT_FORWARD_PERM	
1	DECIMAL	4	LOC_SYSTEM_EXCEPTION	
1	DECIMAL	5	LOC_NEEDS_	ADDRESSING_MODE
reply completion values				
1	DECIMAL	0	COMPLETED_YES	
1	DECIMAL	1	COMPLETED_NO	
1	DECIMAL	2	COMPLETED_MAYBE	
cccCreateJoin constants				
1	DECIMAL	1	CCC_CREATED	
1	DECIMAL	2	CCC_JOINED	
General constants for security contexts				
4	CHAR HEX	53534C00	MTYPE_SSL	ASCII SSLnull
1	DECIMAL	1	BASSUPPORTEDVERSION	
1	DECIMAL	1	AISUPPORTEDVERSION	
1	DECIMAL	1	KERSUPPORTEDVERSION	
1	DECIMAL	2	AIMVSCRED	MVS credential
Constants for Basic Auth and Asserted Identity msgType				
1	DECIMAL	0	ASSOC_TARGET_AUTHN	
1	DECIMAL	1	ASSOC_CLIENT_AUTHN	
1	DECIMAL	2	ASSOC_MUTUAL_AUTHN	
1	DECIMAL	3	ASSOC_CONTINUE_AUTHN	
1	DECIMAL	4	ASSOC_ACCEPT	
1	DECIMAL	5	ASSOC_REJECT	
1	DECIMAL	6	ASSOC_COMPLETE	

Len	Type	Value	Name	Description
1	DECIMAL	7	ASSOC_SOURCE_ERROR	
1	DECIMAL	8	ASSOC_ASSERTED_IDENTITY	
1	DECIMAL	9	ASSOC_AI_WITH_OT	
Constants for Basic Auth assoc_reject errorCode In JAVA they are prefixed with ASSOC_FAIL_REASON_				
2	DECIMAL	1	PASSWORD_UNAUTH	
2	DECIMAL	2	USERID_UNDEFINED	
2	DECIMAL	3	PASSWORD_EXPIRED	
2	DECIMAL	4	ACCOUNT_LOCKED	
2	DECIMAL	5	USERID_FORMAT_ERROR	
2	DECIMAL	6	USERID_APPL_NOTAUTH	
2	DECIMAL	7	INVALID_LOGIN_INFO	
Constants for Asserted Identity assoc_reject errorCode				
2	DECIMAL	3	AI_CLIENT_NOTAUTH	
2	DECIMAL	4	AI_INVALID_VERSION	
2	DECIMAL	5	AI_USERID_NOT_VALID	
Constants for Basic Auth and Asserted Identity errorCodes In JAVA they are prefixed with ASSOC_FAIL_REASON_				
2	NUMB HEX	2048	ESM_INACTIVE	
2	NUMB HEX	2049	ESM_UNKNOWN_RC	
2	NUMB HEX	2050	INTERNAL_ERROR	
2	NUMB HEX	2051	NOT_SUPPORTED	
2	NUMB HEX	2052	DUP_SESSIONID	
2	NUMB HEX	2053	INVALID_VERSION	
2	NUMB HEX	2054	INVALID_SESSIONID	
2	NUMB HEX	2055	INVALID_MSGTYPE	
2	NUMB HEX	2056	INVALID_CONTENT	
2	NUMB HEX	2057	KP_LEN_ERR	
Constants for Kerberos kerlBMStatus				
4	NUMB HEX	55550001	KER_ESM_INACTIVE	
4	NUMB HEX	55550002	KER_KDC_INACTIVE	
4	NUMB HEX	55550003	KER_KDC_BUSY	
4	NUMB HEX	55550004	KER_UNKNOWN_ESM_ERROR	
4	NUMB HEX	55550005	KER_NOTAUTH	
4	NUMB HEX	55550006	KER_NON_KER_REGION	
4	NUMB HEX	55550007	KER_TICKET_EXPIRED	
4	NUMB HEX	55550008	KER_USERID_REVOKED	
4	NUMB HEX	55550009	KER_INV_PRINC_NAME	
4	NUMB HEX	5555000A	KER_INVALID_TOKEN	
4	NUMB HEX	5555000B	KER_UNK	
4	NUMB HEX	5555000C	KER_INV_CONTEXT	
4	NUMB HEX	5555000D	KER_DUP_SESS	
4	NUMB HEX	5555000E	KER_NF_SESS	
4	NUMB HEX	5555000F	KER_KP_LEN_ERR	
4	NUMB HEX	55550010	KER_INVALID_VERSION	
Constant values for the object key				
4	HEX	00000010	FIRSTIBMSCID	
4	HEX	00000012	OBJECTRESOLVERSCID	extended
4	HEX	00000014	CICSSCID	
4	HEX	00000024	USERKEYOFFSETVALUE	
Constants for tagged profile				
4	DECIMAL	0	TAGGED_INTERNET_PROFILE	
ContextId constants Service contexts exist at the beginning of a request header. Their general form is as follows:				
4	NUMB HEX	00000000	TRANSACTIONSERVICE	
4	NUMB HEX	00000001	CODESETSERVICE	
4	NUMB HEX	00000002	CHAINBYPASSCHECK	
4	NUMB HEX	00000003	CHAINBYPASSINFO	
4	NUMB HEX	00000004	LOGICALTHREADID	
4	NUMB HEX	00000005	BL_DIR_IOP	
4	NUMB HEX	00000006	SENDINGCONTEXTRUNTIME	
4	NUMB HEX	00000007	INVOCATION_POLICIES	
4	NUMB HEX	00000008	FORWARDED_IDENTITY	
4	NUMB HEX	00000009	UNKNOWNEXCEPTIONINFO	
4	HEX	49424D14	CICSTASKTRACKINGCONTEXTID	
4	HEX	49424D15	CICSCONNECTIONCONTEXTID	IBM20
4	HEX	49424D17	CICSREDIRECTIONCONTEXTID	IBM21
4	HEX	49424D1A	CICSREALIGNMENTCONTEXTID	IBM22
4	HEX	49424D0C	BASCONTEXTID	IBM26

ICE

Len	Type	Value	Name	Description
4	HEX	49424D18	KERCONTEXTID	
4	HEX	49424D16	AICONTEXTID	
Codeset constants				
4	HEX	00010020	ASCII	
4	HEX	00010100	UNICODE	

ICE Interval Control Element

CONTROL BLOCK NAME = DFHICEDS
 DESCRIPTIVE NAME = CICS Interval Control Element (ICE)
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 @BANNER_END
 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 ICETRNRID ICEXTOD

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	204	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	ICETRNRID	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)	BIT(8)	1	ICESTATI	ICE status indicator
	1...		ICESTNRL	Expired normally
	.1..		ICE_BEING_PROCESSED	Being processed
	...1		ICESTXTE	Expired on entry
	.... 1...		ICESTCNL	Cancelled by other task
	.... .1..		ICESTXTM	Expiration time
	.... ..1.		ICESTRES	Awaiting DS resume
	.... ...1		*	Reserved
	.... ...1		ICESTCHN	On chain
(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

ICE

Offset Hex	Type	Len	Name (Dim)	Description
(4D)	CHARACTER	1	ICEFS	Function shipping indicator
(4E)	BIT(8)	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)	BIT(8)	1	ICEFLAG2	START was protected
	1... ..		ICERTST	Flags
	.111 1111		*	Routable START
(50)	CHARACTER	4	ICE_USER_TOKEN	Reserved
(54)	CHARACTER	4	ICECURTR	User token
(58)	CHARACTER	48	ICEFLATU	Current terminal id
(88)	CHARACTER	12	ICE_QUALIFIED_	US domain Flat_Transuser
			EXPIRY_TIME	
(88)	CHARACTER	8	ICE_EXPIRY_TIMES	Expiry time and expiry time qualifier
(88)	CHARACTER	8	ICE_EXPIRY_STCK	Absolute expiry times
(88)	CHARACTER	8	ICE_EXPIRY_DT	STCK expiry time for an interval ICE
(88)	CHARACTER	4	ICE_EXPIRY_DATE	Date and time of expiry for time ICE
(8C)	CHARACTER	4	ICE_EXPIRY_TIME	ccyyddd+ expiry date for time ICE
(90)	CHARACTER	4	ICETIMST	Timer unit (1/300sec) expiry TOD for time ICE
(94)	HALFWORD	2	ICE_START_DATA_LEN	Expiry time qualifier
(96)	CHARACTER	2	*	Length of data
(98)	CHARACTER	8	ICE_CREATION_TIME	Reserved
(A0)	CHARACTER	0	*	Creation time STCK value
(A0)	CHARACTER	8	ICE_TERMINAL_NETNAME	*
(A8)	CHARACTER	4	ICESHSYS	Netname of terminal
(AC)	CHARACTER	8	ICE_TOR_NETNAME	Shipped via sysid
(B4)	ADDRESS	4	ICE_ROUTER_	Netname of TOR
			COMM_ADDR	
(B8)	HALFWORD	2	ICE_ROUTER_COMM_LEN	Address of commarea for dynamic routing program
(BA)	CHARACTER	4	ICEDFTRN	Length of DYP commarea
(BE)	CHARACTER	8	ICEDSRP	Transaction id for deferred dynamic start request
(C6)	CHARACTER	2	*	Router program name - stored here for ICXM processing to reduce SHRTM calls
(C8)	UNSIGNED	4	ICE_CHANNEL_TOKEN	RESERVED
				Channel token for started task

Constants

Len	Type	Value	Name	Description
Length of the ICE control block				
4	DECIMAL	204	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

ICUE Interval Control EXEC Parameter List

CONTROL BLOCK NAME = DFHICUEC

DESCRIPTIVE NAME = CICS EXEC argument list for Interval

Control user exits.

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@BANNER_END

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_ADDR1F

IC_GROUP

IC_FUNCT

IC_BITS1

IC_BITS2

IC_BITS3

IC_EIDOPT5

IC_EIDOPT6

IC_EIDOPT7

IC_EIDOPT8

IC_INTERVAL

IC_START_INTERVAL

IC_DELAY_INTERVAL

IC_POST_INTERVAL

IC_TIME

IC_START_TIME

IC_DELAY_TIME

IC_POST_TIME

IC_CANCEL_REQID

IC_RETRIEVE_INTD

IC_RETRIEVE_SET

IC_REQID

IC_DELAY_REQID

IC_POST_REQID

IC_START_REQID

IC_RETRIEVE_LENGTH

IC_POST_SET

IC_TRANSID

IC_CANCEL_TRANSID

IC_START_TRANSID

IC_START_FROM

IC_START_LENGTH

IC_START_TERMID

IC_SYSID

IC_START_SYSID

IC_CANCEL_SYSID

IC_RTRANSID

IC_START_RTRANSID

.... continued

... continuation

IC_RETRIEVE_RTRANSID
 IC_RTERMID
 IC_START_RTERMID
 IC_RETRIEVE_RTERMID
 IC_QUEUE
 IC_START_QUEUE
 IC_RETRIEVE_QUEUE
 IC_HOURS
 IC_DELAY_HOURS
 IC_POST_HOURS
 IC_START_HOURS
 IC_MINUTES
 IC_DELAY_MINUTES
 IC_POST_MINUTES
 IC_START_MINUTES
 IC_SECONDS
 IC_DELAY_SECONDS
 IC_POST_SECONDS
 IC_START_SECONDS
 IC_START_USERID
 IC_START_SYSNET
 IC_ASKTIME_ABSTIME
 IC_FORMATTIME_ABSTIME
 IC_FORMATTIME_YYDDD
 IC_FORMATTIME_YYMMDD
 IC_FORMATTIME_YYDDMM
 IC_FORMATTIME_DDMMYY
 IC_FORMATTIME_MMDDYY
 IC_FORMATTIME_DATE
 IC_FORMATTIME_DATEFORM
 IC_FORMATTIME_DATESEP
 IC_FORMATTIME_DAYCOUNT
 IC_FORMATTIME_DAYOFWEEK
 IC_FORMATTIME_DAYOFMONTH
 IC_FORMATTIME_MONTHOFYEAR
 IC_FORMATTIME_YEAR
 IC_FORMATTIME_TIME
 IC_FORMATTIME_TIMESEP
 IC_FORMATTIME_YYYYDDD
 IC_FORMATTIME_YYYYMMDD
 IC_FORMATTIME_YYYYDDMM
 IC_FORMATTIME_DDMMYYYY
 IC_FORMATTIME_MMDDYYYY
 IC_FORMATTIME_FULLLDATE

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 two addresses are defined by IC_ADDR0 to IC_ADDR1F.

This DSECT defines IC_ADDR0 to IC_ADDR1F 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.

.... continued

ICUE

... continuation

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 UEPCPLPS.
 (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 UEPIC TOK.
 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
(0)	STRUCTURE	128	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 (FORMATTIME, ASKTIME)
(8)	ADDRESS	4	IC_ADDR2	REQID value
				(DELAY, POST or START) LENGTH value (RETRIEVE) YYDDD value (FORMATTIME)
(C)	ADDRESS	4	IC_ADDR3	TRANSID value (START,CANCEL)
				SET address (POST) YYMMDD value (FORMATTIME)
(10)	ADDRESS	4	IC_ADDR4	FROM address (START)
				YYDDMM value (FORMATTIME)
(14)	ADDRESS	4	IC_ADDR5	LENGTH value (START)
				DDMMYY value (FORMATTIME)
(18)	ADDRESS	4	IC_ADDR6	TERMID value (START)
				MMDDYY value (FORMATTIME)
(1C)	ADDRESS	4	IC_ADDR7	SYSID value (START,CANCEL)
				DATE value (FORMATTIME)
(20)	ADDRESS	4	IC_ADDR8	RTRANSID value
				(START or RETRIEVE) DATEFORM value (FORMATTIME)
(24)	ADDRESS	4	IC_ADDR9	RTERMID value
				(START or RETRIEVE) DATESEP value (FORMATTIME)
(28)	ADDRESS	4	IC_ADDRA	QUEUE value

ICUE

Offset Hex	Type	Len	Name (Dim)	Description
				(START or RETRIEVE) DAYCOUNT value (FORMATTIME)
(2C)	ADDRESS	4	IC_ADDRB	HOURS value
				(DELAY, POST or START) DAYOFWEEK value (FORMATTIME)
(30)	ADDRESS	4	IC_ADDR C	MINUTES value
				(DELAY, POST or START) DAYOFMONTH value (FORMATTIME)
(34)	ADDRESS	4	IC_ADDRD	SECONDS value
				(DELAY, POST or START) MONTHOFYEAR value (FORMATTIME)
(38)	ADDRESS	4	IC_ADDRE	USERID value (START)
				YEAR value (FORMATTIME)
(3C)	ADDRESS	4	IC_ADDRF	System netname
				TIME value (FORMATTIME)
(40)	ADDRESS	4	IC_ADDR10	BREXIT value (START)
				TIMESEP value (FORMATTIME)
(44)	ADDRESS	4	IC_ADDR11	YYYYDDD value
				(FORMATTIME)
(48)	ADDRESS	4	IC_ADDR12	YYYYMMDD value
				(FORMATTIME)
(4C)	ADDRESS	4	IC_ADDR13	YYYYDDMM value
				(FORMATTIME)
(50)	ADDRESS	4	IC_ADDR14	DDMMYYYY value
				(FORMATTIME)
(54)	ADDRESS	4	IC_ADDR15	MMDDYYYY value
				(FORMATTIME)
(58)	ADDRESS	4	IC_ADDR16	FULLDATE value
				(FORMATTIME)
(5C)	ADDRESS	4	* (6)	Addresses 23-28
(74)	ADDRESS	4	IC_ADDR1D	BRDATA address (START)
(78)	ADDRESS	4	IC_ADDR1E	BRDATALENGTH value (START)
(7C)	ADDRESS	4	IC_ADDR1F	CHANNEL name (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.

ICUE

Offset Hex	Type	Len	Name (Dim)	Description
(2)	BIT(8)	1	IC_BITS1	
<p>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.</p>				
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_INT0_V	
1...	....		IC_CANCEL_REQID_V	
<p>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.</p>				
.1.	....		IC_EXIST2	
.1.	....		IC_REQID_V	
.1.	....		IC_DELAY_REQID_V	
.1.	....		IC_POST_REQID_V	
.1.	....		IC_START_REQID_V	
.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>				

ICUE

Offset Hex	Type	Len	Name (Dim)	Description
(3)	BIT(8)	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_ADDR8 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	
<p>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.</p>				
.1.	....		IC_EXISTB	
.1.	....		IC_HOURS_V	
.1.	....		IC_DELAY_HOURS_V	
.1.	....		IC_POST_HOURS_V	
.1.	....		IC_START_HOURS_V	
<p>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.</p>				
...1	....		IC_EXISTC	
...1	....		IC_MINUTES_V	
...1	....		IC_DELAY_MINUTES_V	
...1	....		IC_POST_MINUTES_V	
...1	....		IC_START_MINUTES_V	
<p>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.</p>				
....	1...		IC_EXISTD	
....	1...		IC_SECONDS_V	
....	1...		IC_DELAY_SECONDS_V	
....	1...		IC_POST_SECONDS_V	
....	1...		IC_START_SECONDS_V	
<p>IC_EXISTE is set if IC_ADDRE is valid. IC_EXISTE is set if a START command specifies a USERID</p>				
....	.1.		IC_EXISTE	
....	.1.		IC_START_USERID_V	
<p>IC_EXISTF is set if IC_ADDRF is valid IC_EXISTF is set if a start is for it's PF</p>				
....	.1.		IC_EXISTF	PF starts
....	.1.		IC_START_SYSNET_V	
<p>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.</p>				
....	...1		IC_EXIST10	BREXIT(value)
....	...1		IC_START_BREXIT_V	
....	...1		IC_FORMATTIME_TIMESEP_V	
<p>EIDOPT4 Any changes made by the exit are ignored</p>				
(4)	BIT(8)	1	IC_EIDOPT4	
1...	....		IC_SYSEIB	Program uses SYSEIB
.1.	....		IC_NOEDF	NOEDF specified
.1.	....		IC_NOHANDLE	NOHANDLE specified

ICUE

Offset Hex	Type	Len	Name (Dim)	Description
...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)	BIT(8)	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_ YYDDD_X	YYDDD specified on a FORMATTIME command.
	..1.		IC_FORMATTIME_ YYMMDD_X	YYMMDD specified on a FORMATTIME command.
	...1		IC_FORMATTIME_ YYDDMM_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.
	.... ...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.
EIDOPT6				
(6)	BIT(8)	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 cmd.
	...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.
EIDOPT7				
(7)	BIT(8)	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, RTERMID, 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, RTERMID, FMH and/or QUEUE specified on a START command.

ICUE

Offset Hex	Type	Len	Name (Dim)	Description
...1			IC_FORMATTIME_ DDMYYYY_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.
EIDOPT8				
(8)	BIT(8)	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 *
.... .1.			IC_START_CHANNEL_X	*
.... ...1			*	

The following definitions are for the rest of the arguments in the EXEC parameter list, addressed by IC_ ADDR1 - IC_ ADDR1E 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	*	
Interval and Time Parameters				
(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	
REQID Parameters				
(0)	STRUCTURE	8	IC_CANCEL_REQID	Value of REQID on a CANCEL command.
(0)	CHARACTER	8	*	
RETRIEVE INTO Parameters				
(0)	STRUCTURE	*	IC_RETRIEVE_INTO	Value of DATA on a RETRIEVE INTO cmd
(0)	CHARACTER	*	*	

ICUE

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

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

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

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	*	

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

IC_DATA3 - Addressed by IC_ADDR3

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_DATA3	
(0)	ADDRESS	4	IC_POST_SET	
(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

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

IC_DATA4 - Addressed by IC_ADDR4

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

ICUE

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

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

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

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

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

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

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

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

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	6	IC_FORMATTIME_DATEFORM	
(0)	CHARACTER	6	*	

ICUE

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

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	1	IC_FORMATTIME_ DATESEP	
(0)	CHARACTER	1	*	

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

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_FORMATTIME_ DAYCOUNT	
(0)	FULLWORD	4	*	

IC_ DATA11 - Addressed by IC_ ADDR8

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

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_FORMATTIME_ DAYOFWEEK	
(0)	FULLWORD	4	*	

IC_ DATA12 - Addressed by IC_ ADDR8

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

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_FORMATTIME_ DAYOFMONTH	

ICUE

Offset Hex	Type	Len	Name (Dim)	Description
(0)	FULLWORD	4	*	

IC_ DATA13 - Addressed by IC_ ADDR D

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

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_ FORMATTIME_ MONTHOFYEAR	
(0)	FULLWORD	4	*	

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

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	IC_ FORMATTIME_ YEAR	
(0)	FULLWORD	4	*	

IC_ DATA15 - Addressed by IC_ ADDR F

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	IC_ DATA15	
(0)	CHARACTER	8	IC_ START_ SYSNET	Value of SYSNET

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_ FORMATTIME_ TIME	
(0)	CHARACTER	*	*	

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

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	1	IC_ FORMATTIME_ TIMESEP	
(0)	CHARACTER	1	*	

ICUE

IC_ DATA17 - Addressed by IC_ ADDR11

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_DATA17	
(0)	CHARACTER	*	IC_FORMATTIME_ YYYYDDD	

IC_ DATA18 - Addressed by IC_ ADDR12

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_DATA18	
(0)	CHARACTER	*	IC_FORMATTIME_ YYYYMMDD	

IC_ DATA19 - Addressed by IC_ ADDR13

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_DATA19	
(0)	CHARACTER	*	IC_FORMATTIME_ YYYYDDMM	

IC_ DATA20 - Addressed by IC_ ADDR14

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_DATA20	
(0)	CHARACTER	*	IC_FORMATTIME_ DDMMYYYY	

IC_ DATA21 - Addressed by IC_ ADDR15

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_DATA21	
(0)	CHARACTER	*	IC_FORMATTIME_ MDDYYYY	

IC_ DATA22 - Addressed by IC_ ADDR16

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	IC_DATA22	
(0)	CHARACTER	*	IC_FORMATTIME_ FULLDATE	

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

IC_DATA31 - Addressed by IC_ADDR1F

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	IC_DATA31	
(0)	CHARACTER	16	IC_START_CHANNEL	Name of channel

Constants

Len	Type	Value	Name	Description
Equate for IC_GROUP.				
All Interval Control requests have group code '10' except ASKTIME and FORMATTIME which have group code '4A'				
1	HEX	10	IC_INTERVAL_GROUP	
1	HEX	4A	IC_ABSTIME_GROUP	
Equates for IC_FUNCT values.				
1	HEX	02	IC_ASKTIME	Asktime
1	HEX	04	IC_FORMATTIME	Formattime
1	HEX	04	IC_DELAY	Delay
1	HEX	06	IC_POST	Post
1	HEX	08	IC_START	Start
1	HEX	0A	IC_RETRIEVE	Retrieve
1	HEX	0C	IC_CANCEL	Cancel
Start of General Use Programming Interface.				
Equates for EIBRCODE values used by Interval Control.				
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	7A	IC_CHANNELERR_ EIBRCODE	CHANELERR
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	D9	IC_RESUNAVAIL_ EIBRCODE	RESUNAVAIL
1	HEX	FF	IC_INVREQ_EIBRCODE	INVREQ
Equates for EIBRESP values used by Interval Control.				
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	LENGERR
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

ICUE

Len	Type	Value	Name	Description
1	DECIMAL	70	IC_NOTAUTH_EIBRESP	NOTAUTH
1	DECIMAL	121	IC_RESUNAVAIL_EIBRESP	RESUNAVAIL
1	DECIMAL	122	IC_CHANNELERR_EIBRESP	CHANNELERR
Equates for EIBRESP2 values used by Interval Control.				
1	DECIMAL	0	IC_OK_EIBRESP2	OK
1	DECIMAL	1	IC_CHANNEL_ INVCHARS_EIBRESP2	Invalid chars in channel name
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	19	IC_USERID_ REVOKED_EIBRESP2	Userid is revoked
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 Function shipping of CHANNEL requires LU6.2 or MRO. LU6.1 is not supported
1	DECIMAL	20	IC_SYSDERR_ LU61_UNSUP_EIBRESP2	Attempt to function ship CHANNEL to a system that does not support CHANNEL
1	DECIMAL	21	IC_SYSDERR_ CHNL_UNSUP_EIBRESP2	***** End of General Use *** *** Programming Interface ***

IIA domain anchor block

```
=====
IIA - II Anchor block
This block contains the global storage for the II domain.
=====
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	656	IIA	II domain anchor block
(0)	CHARACTER	16	IIA_PREFIX	
(0)	HALFWORD	2	IIA_LENGTH	
(2)	CHARACTER	1	IIA_ARROW	'>'
(3)	CHARACTER	3	IIA_DFH	'DFH'
(6)	CHARACTER	2	IIA_DOMID	'II'
(8)	CHARACTER	8	IIA_BLOCK_NAME	'ANCHOR'
(10)	ADDRESS	4	IIA_CONN_ DATA_CHAIN	
				sock data chain anchor
(14)	ADDRESS	4	IIA_CONN_ DATA_END	sock data chain end
(18)	ADDRESS	4	IIA_IIRP_ DATA_CHAIN	
				iirp data chain anchor
(1C)	ADDRESS	4	IIA_IIRP_ DATA_END	iirp data chain end
(20)	ADDRESS	4	IIA_RQMDANCH	Request model anchor ptr
(24)	ADDRESS	4	*	Reserved
(28)	CHARACTER	4	*	Reserved
(2C)	ADDRESS	4	IIA_STATS_ BUFFER_PTR	
				Statistics buffer
(30)	CHARACTER	8	IIA_LAST_ RQM_RESET_TIME	
				Reqmodel stats last reset
(38)	CHARACTER	8	IIA_GENERAL_ TOKEN	General subpool token
(40)	CHARACTER	8	IIA_BUFFER_TOKEN	Buffer subpool token
(48)	BIT(8)	1	IIA_FLAG_BYTES	
	1... ..		*	
	.1... ..		IIA_COLD_START	On if CICS cold started
(49)	CHARACTER	3	*	
(4C)	CHARACTER	8	IIA_RR_ RZ_NOTIFY_TOKEN	
				rr registration token
(54)	CHARACTER	8	IIA_RP_ RZ_NOTIFY_TOKEN	
				rp registration token
(5C)	ADDRESS	4	IIA_IIRP_ LOCK_TOKEN	
				for add/remove of iirp_data chn

```
ASCII 00819 (8859-1) to EBCDIC 01047
Table generated from 03330417 S-R2-D on 18 Dec 1997
```

(60)	CHARACTER	256	IIA_8859_1_TABLE	
(160)	CHARACTER	256	IIA_1047_1_TABLE	
(260)	OBJECT	40	IIA_CTTC_CHAIN	Base address for CTTC objs
(268)	OBJECT	16	ITER0	Base address for CTTC objs
(270)	CHARACTER	8	*	Base address for CTTC objs
(270)	ADDRESS	4	PREV	Base address for CTTC objs
(274)	ADDRESS	4	NEXT	Base address for CTTC objs
(278)	OBJECT	16	NODE0	Base address for CTTC objs
(280)	CHARACTER	8	*	Base address for CTTC objs
(280)	ADDRESS	4	PREV	Base address for CTTC objs
(284)	ADDRESS	4	NEXT	Base address for CTTC objs
(288)	CHARACTER	8	IIA_THIS_APPLID	This systems applid
(290)	CHARACTER	0	*	

```
=====
Request Receiver Connection Data
WARNING - The conn_ data DSECT also appears in module
DFHZIS2. Any changes to the DSECT made in
DFHIIDCD need to also be copied to DFHZIS2.
After modifying DFHIIDCC, rebuild DFHIIDCD
and copy the changes into DFHZIS2.
```

```
This block contains data relevant to the socket connection life-
time and is used both by the dump formatters and to keep data
across transactions until the socket is closed.
It is obtained from the IIGENRAL subpool by DFHIIR and freed
when the RR task terminates when the socket is closed or after
an error.
```

```
A 2nd use of this block is to hold data needed by the so notify
gate when a request receiver task has been suspended.
```

IIA

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	105	CONN_DATA	
(0)	CHARACTER	4	CONN_EYECATCHER	>CON
(4)	ADDRESS	4	CONN_NEXT	next in conn_data chain
(8)	ADDRESS	4	CONN_PREV	previous in conn_data chain
(C)	UNSIGNED	4	REPLY_CONTROL	RZ & SO Notify fields
(C)	BIT(8)	1	REPLY_FLAGS	
			SUSPEND_ISSUED	On if suspend issued
			RECEIVE_COMPLETE	On if sock_receive_complete
			TASK_ALIVE	On if task re-usable
(D)	CHARACTER	1	*	
(E)	UNSIGNED	2	LISTENS_NOT_NOTIFIED	notified
(10)	ADDRESS	4	TXN_PTR	ptr to txn storage
(14)	UNSIGNED	4	SUSPEND_TOKEN	For so notify gate
(18)	UNSIGNED	4	SOCKET_TOKEN	needed on SOCK calls
(1C)	ADDRESS	4	CTT_PTR	CICS task tracking sc ptr
(20)	ADDRESS	4	CCC_PTR	CICS connection sc ptr
(24)	ADDRESS	4	COMMAREA_PTR	URM commarea
(28)	ADDRESS	4	SAVED_SERVICE_CONTEXT_PTR	
(2C)	UNSIGNED	4	SAVED_SERVICE_CONTEXT_LEN	from 1st request
(30)	ADDRESS	4	VAULT_PTR	Basic or Kerberos
(34)	UNSIGNED	4	SAVED_CODESET_LEN	
(38)	UNSIGNED	4	SAVED_SENDING_LEN	
(3C)	CHARACTER	8	TCPIPSERVICE_NAME	needed for monitoring
(44)	CHARACTER	8	DEFAULT_USERID	needed for IIRH.
(4C)	CHARACTER	8	URMNAME	created in notify gate
(54)	CHARACTER	4	RR_TRANID	This tranid for dump
(58)	UNSIGNED	4	RR_TRANNUM	This tranum in bin for dump
(5C)	UNSIGNED	1	ACTION	Set from sock_action in the sock notify gate
(5D)	UNSIGNED	1	SOCK_FLAGS	
			FIRST_RECEIVE	On if 1st receive not done
			FIRST_REQUEST	On if 1st request being done
			*	
(5E)	UNSIGNED	1	MAX_GIOP_VERSION_MAJOR	Highest version so far
(5F)	UNSIGNED	1	MAX_GIOP_VERSION_MINOR	Highest version so fa
(60)	CHARACTER	8	XOPUS_USERID	
(68)	UNSIGNED	1	XOPUS_USERID_LEN	

=====

TXN - Request Receiver

This block contains pointers to the storage which is relevant to a request and lasts for the lifetime of the transaction instance.

=====

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	26	TXN_DATA	CIRR transaction storage
(0)	CHARACTER	4	TXN_EYECATCHER	>TXN
(4)	ADDRESS	4	FIRST_RUEI_PTR	addr message buffers for RZSO
(8)	ADDRESS	4	LISTEN_DATA_CHAIN	chain of replies outstanding
(C)	ADDRESS	4	LISTEN_DATA_END	end of reply data chain
(10)	ADDRESS	4	FRAG_CHAIN	Chain of started fragmnts
(14)	ADDRESS	4	FRAG_CHAIN_END	end of fragment chain
(18)	UNSIGNED	2	LISTENS_OUTSTANDING	still to be notified

=====

Listen Data - Request Receiver and Request Processor

This control block contains all the information relevant to an outstanding reply. It is created when an LSTN LISTEN is issued for a request or locate request. It is deleted when the reply has been processed. The LISTEN passes a pointer to this data to the notify gate.

This same mechanism is also used for request processor LSTN LISTEN.

=====

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	52	LISTEN_DATA	
(0)	CHARACTER	4	LD_EYECATCHER	>LD
(4)	ADDRESS	4	LD_NEXT	
(8)	ADDRESS	4	LD_PREV	
(C)	CHARACTER	8	LD_REQUEST_ STREAM_TOKEN	
(14)	UNSIGNED	4	LD_REPLY_REQID	
(18)	BIT(8)	1	LD_FLAGS	
			1... LD_READY	Notify driven for this reply
			.1. LD_TYPE	on if request (used by IIRP)
			..1. LD_ERROR	early notification.
(19)	CHARACTER	2	*	
(1B)	UNSIGNED	1	LD_STATUS	notify | close | abend | timeout Set from noti_notify_status
(1C)	UNSIGNED	4	LD_SUSPEND_TOKEN	
(20)	ADDRESS	4	LD_REPLY_CONTROL_PTR	
(24)	ADDRESS	4	LD_SAVED_REQUEST_PTR	
				Saved when JOINed BounceBack
(28)	UNSIGNED	4	LD_SAVED_ REQUEST_LENGTH	
(2C)	BIT(64)	8	LD_STCK	

```

=====
FRAG_BLOCK
This block represents a fragment which has been sent to the
request receiver. It is created when a request is received
with the fragment bit on in the GIOPHeader. It is deleted
when the last fragment (~fragment) has been received.
The block is chained from txn_ data storage from frag_ chain
and ends in frag_ chain_end.
=====

```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	44	FRAG_BLOCK	
(0)	CHARACTER	4	FRAG_EYECATCHER	>FRG
(4)	ADDRESS	4	FRAG_NEXT	
(8)	ADDRESS	4	FRAG_PREV	
(C)	UNSIGNED	4	FRAG_REQUESTID	
(10)	ADDRESS	4	FRAG_FIRST_RUEI_PTR	
(14)	ADDRESS	4	FRAG_CURRENT_ RUEI_PTR	
(18)	UNSIGNED	4	FRAG_INDEX	
(1C)	UNSIGNED	4	FRAG_LENGTH_FREE	
(20)	UNSIGNED	4	FRAG_NEXT_FREE	
(24)	ADDRESS	4	FRAG_FIRST_ BUFFER_PTR	
(28)	UNSIGNED	4	FRAG_FIRST_ BUFFER_LEN	

```

=====
Server data - Request Receiver
This block contains information about an incoming request.
It is held in LIFO and extracted by the request handler (DFHIIRH)
from the object key and used as input to Request Stream CREATE.
=====

```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	SERVER_DATA	
(0)	CHARACTER	8	SD_EYECATCHER	>>IISVR
(8)	HALFWORD	2	SD_LENGTH	
(A)	UNSIGNED	1	SD_VERSION_MAJOR	
(B)	UNSIGNED	1	SD_VERSION_MINOR	
(C)	CHARACTER	4	LOGICAL_SERVER	Container RDO name

```

=====
Debug data - Request Handler
This block contains information extracted from an incoming
request to be used if DEBUG=YES is specified in the request
processor SIT.
It is held in LIFO and extracted by the request handler (DFHIIRH)
from the object key and used as input to Request Stream CREATE
and JOIN.
=====

```

IIA

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	DEBUG_DATA	
(0)	CHARACTER	8	DD_EYECATCHER	>>IIDBUG
(8)	UNSIGNED	4	DD_LENGTH	
(C)	UNSIGNED	1	DD_VERSION_MAJOR	
(D)	UNSIGNED	1	DD_VERSION_MINOR	
(E)	UNSIGNED	1	DD_PARM_NUMBER	
(F)	UNSIGNED	1	DD_PARM_TYPE	
(10)	UNSIGNED	4	DD_METHOD_LENGTH	method/operation
(14)	CHARACTER	*	DD_METHOD	truncated to 255

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	DD_BEAN_NAME	bean name or fully qual
(0)	UNSIGNED	4	DD_BEAN_LENGTH	class name consisting of module and interface name
(4)	CHARACTER	*	DD_BEAN	truncated to 255

=====
Security vault entry
=====

The security vault is a linklist of entries held off vault_ptr in conn_data. Each vault entry represents a connection from a single client, and is used to map the session id in the incoming service context to a userid and/or kerberos principal.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	VAULTENTRY	
(0)	CHARACTER	8	VAULTENTRYEYECATCHER	>>IIVLTE
(8)	ADDRESS	4	VAULTENTRYNEXT	link to next entry
(C)	FULLWORD	4	VAULTENTRYLENGTH	length of entire block
(10)	CHARACTER	8	VAULTENTRYUSERID	
(18)	UNSIGNED	4	VAULTENTRYSESSIONIDLENGTH	
(1C)	CHARACTER	*	VAULTENTRYSESSIONID	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	VAULTENTRYPART2	
(0)	UNSIGNED	4	VAULTENTRYPRINCIPALNAMELENGTH	
(4)	CHARACTER	*	VAULTENTRYPRINCIPALNAME	

=====
Request Processor data.
=====

rp_data represents all the data needed for the lifetime of an ORB task. It is obtained by IIRP GET_INITIAL_DATA or INITIALISE and freed by IIRP TERMINATE or after an error. Any data that needs to be kept across calls should be kept in here. It is chained off IIA_IIRP_DATA_CHAIN to enable the dump formatter to find the request processor blocks.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	80	RP_DATA	
(0)	CHARACTER	4	RP_EYECATCHER	>RPD
(4)	ADDRESS	4	RP_NEXT	next in rp_data chain
(8)	ADDRESS	4	RP_PREV	previous in rp_data chain
(C)	UNSIGNED	4	RP_SUSPEND_TOKEN	
(10)	CHARACTER	8	RP_REQUEST_STREAM_TOKEN	
(18)	ADDRESS	4	RP_LISTEN_DATA_CHAIN	chain of replies
(1C)	ADDRESS	4	RP_LISTEN_DATA_END	end of chain
(20)	UNSIGNED	4	RP_REPLY_CONTROL	LSTN notify fields
(20)	BIT(8)	1	RP_REPLY_FLAGS	
	1...		RP_SUSPEND_ISSUED	On if suspend issued
(21)	CHARACTER	1	*	

Offset Hex	Type	Len	Name (Dim)	Description
(22)	UNSIGNED	2	RP_LISTENS_ NOT_NOTIFIED	
(24)	UNSIGNED	2	RP_LISTENS_ OUTSTANDING	
(26)	BIT(8) 1... ..	1	RP_FLAGS RP_FRAG_IN_PROGRESS	
(27)	CHARACTER	1	*	
(28)	ADDRESS	4	RP_FRAG_RUEI_PTR	
(2C)	ADDRESS	4	RP_CTT_CHAIN	
(30)	ADDRESS	4	RP_CTT_END	
(34)	UNSIGNED	4	RP_TRANNUM	held in binary
(38)	CHARACTER	4	RP_TRANID	
(3C)	CHARACTER	12	RP_GIOPHEADER	
(48)	CHARACTER	4	RP_SERVER_NAME	
(4C)	UNSIGNED	4	RP_WORK_COUNT	

Constants

Len	Type	Value	Name	Description
4	DECIMAL	10	RUEI_SIZE	
1	DECIMAL	1	DD_PARM_TYPE_BEAN	
1	DECIMAL	2	DD_PARM_TYPE_CLASS	
=====				
Miscellaneous constants.				
=====				
4	NUMB HEX	4942C000	CORBAMINORCICSRR	IB.. 1229111296
1	DECIMAL	1	SSL_YES	
1	DECIMAL	2	SSL_NO	
1	DECIMAL	3	SSL_CLIENTCERT	
4	DECIMAL	4096	IL_STATS_BUFFER_SIZE	
=====				
Define data_type and direction for trace points 0132 and 0714				
1	DECIMAL	213	NEITHER	
1	DECIMAL	226	SEND	about to send data
1	DECIMAL	217	RECEIVED	data already received
1	DECIMAL	1	GH	GIOP Header
1	DECIMAL	2	BODY	
1	DECIMAL	3	REP	GIOP Reply
1	DECIMAL	4	ME	Message Error
1	DECIMAL	5	SER	System Exception Reply
1	DECIMAL	6	SD	Server data
1	DECIMAL	7	REPH	Reply Header
1	DECIMAL	8	REPB	Reply Body
1	DECIMAL	9	REQ	Request
1	DECIMAL	10	FB	Fragment Body
1	DECIMAL	11	FH	Fragment Header
1	DECIMAL	12	RR	Redirected request
1	DECIMAL	13	FRID	Fragment request id
=====				
II Domain trace point ids				
=====				
DFHIIDM trace point ids 0000-00FF				
2	NUMB HEX	0000	TID_IIDM_ENTRY	
2	NUMB HEX	0001	TID_IIDM_EXIT	
2	NUMB HEX	0002	TID_IIDM_INVALID_FORMAT	
2	NUMB HEX	0003	TID_IIDM_ INVALID_FUNCTION	
2	NUMB HEX	0004	TID_IIDM_ RECOVERY_ENTERED	
=====				
DFHIIRR trace point ids 0100-01FF				
2	NUMB HEX	0100	TID_IIRR_ENTRY	
2	NUMB HEX	0101	TID_IIRR_EXIT	
2	NUMB HEX	0102	TID_IIRR_INVALID_FORMAT	
2	NUMB HEX	0103	TID_IIRR_ INVALID_FUNCTION	
2	NUMB HEX	0104	TID_IIRR_ RECOVERY_ENTERED	
2	NUMB HEX	0106	TID_IIRR_ GIOP_INVALID_HEADER	
2	NUMB HEX	0107	TID_IIRR_ GIOP_INVALID_HEADER_ LEN	
2	NUMB HEX	0108	TID_IIRR_ GIOP_INVALID_VERSION	
2	NUMB HEX	010A	TID_IIRR_ SOCK_RECEIVE_EXCEPTION	
2	NUMB HEX	010B	TID_IIRR_ SOCK_RECEIVE_ASY_ TIMEOUT	

IIA

Len	Type	Value	Name	Description
2	NUMB HEX	010D	TID_IIRR_ SOCK_RECEIVE_SYN_ TIMEOUT	
2	NUMB HEX	010E	TID_IIRR_ SOCK_SEND_EXCEPTION	
2	NUMB HEX	010F	TID_IIRR_ GIOP_FRAGMENT_ NOT_EXPECTED	
2	NUMB HEX	0120	TID_IIRR_ GIOP_MESSAGE_ERROR_ RCVD	
2	NUMB HEX	0121	TID_IIRR_ GIOP_REPLY_RECEIVED	
2	NUMB HEX	0122	TID_IIRR_ GIOP_CLOSE_CONN_ RECEIVED	
2	NUMB HEX	0123	TID_IIRR_ GIOP_INVALID_MESSAGE_ TYPE	
2	NUMB HEX	0124	TID_IIRR_ URM_DENIED_PERMISSION	
2	NUMB HEX	0125	TID_IIRR_ NO_PERMISSION_SSL	
2	NUMB HEX	0126	TID_IIRR_ URM_USERID_NOTAUTH	
2	NUMB HEX	0127	TID_IIRR_INVALID_OBJECT_ KEY	
2	NUMB HEX	0128	TID_IIRR_REQUEST_ERROR	
2	NUMB HEX	0129	TID_IIRR_ CANCEL_REQUEST	
2	NUMB HEX	012A	TID_IIRR_ RZSO_SEND_REQUEST_ EXC	
2	NUMB HEX	012B	TID_IIRR_ RZ_LISTEN_EXCEPTION	
2	NUMB HEX	012C	TID_IIRR_ RZSO_LEAVE_EXCEPTION	
2	NUMB HEX	012D	TID_IIRR_ RZSO_RECEIVE_REPLY_ EXC	
2	NUMB HEX	012E	TID_IIRR_ XMAT_ATTACH_FAILURE	
2	NUMB HEX	012F	TID_IIRR_NOTIFY_FAILURE	
2	NUMB HEX	0130	TID_IIRR_ INSUFFICIENT_STORAGE	
2	NUMB HEX	0131	TID_IIRR_ GETMAIN_EXCEPTION	
2	NUMB HEX	0132	TID_IIRR_DATA_BUFFER	
2	NUMB HEX	0133	TID_IIRR_ CICSTASKTRACKING	
2	NUMB HEX	0135	TID_IIRR_ GIOP_FRAG_MISALIGN	
2	NUMB HEX	0136	TID_IIRR_ CICSTASKTRACKING_ REPLY	
2	NUMB HEX	0137	TID_IIRR_ SO_NOTIFY_RESUME_ FAILED	
2	NUMB HEX	0138	TID_IIRR_ RZ_NOTIFY_RESUME_ FAILED	
2	NUMB HEX	0139	TID_IIRR_ RZ_NOTIFY_NO_TASK	
2	NUMB HEX	013A	TID_IIRR_ REPLY_NOT_RECEIVABLE	
2	NUMB HEX	013B	TID_IIRR_ SO_NOTIFY_ERROR	
2	NUMB HEX	013C	TID_IIRR_ INVALID_ADDRDISP	
2	NUMB HEX	013D	TID_IIRR_ NO_TAGGED_PROFILE	
2	NUMB HEX	013E	TID_IIRR_NO_OBJECT_KEY	
2	NUMB HEX	0140	TID_IIRR_ SO_NOTIFY_ENTRY	
2	NUMB HEX	0141	TID_IIRR_SO_NOTIFY_EXIT	
2	NUMB HEX	0142	TID_IIRR_ RZ_NOTIFY_ENTRY	
2	NUMB HEX	0143	TID_IIRR_RZ_NOTIFY_EXIT	
2	NUMB HEX	0144	TID_IIRR_SOCKET_RECEIVE1_ SYN_TIMEOUT	
2	NUMB HEX	0145	TID_IIRR_IIRH_FIND_FAILED	
2	NUMB HEX	0146	TID_IIRR_CCSC_EXISTS	
2	NUMB HEX	0148	TID_IIRR_ OTTID_NULL_COORD	
2	NUMB HEX	0149	TID_IIRR_ GIOP_FRAGS_NOT_ SUPPORTED	
2	NUMB HEX	014A	TID_IIRR_ SOCK_CLOSED_RECEIVED	

Len	Type	Value	Name	Description
2	NUMB HEX	014B	TID_IIRR_	
			SO_NOTIFY_CLOSED	
2	NUMB HEX	0150	TID_IIRR_	
			SECURITY_CHECK_FAILED	
2	NUMB HEX	0151	TID_IIRR_	
			NO_SECURITY_CONTEXT	
2	NUMB HEX	0152	TID_IIRR_	
			FRAGMENT_WITH_	
			NO_REQUEST	
<hr/>				
DFHIIRH trace point ids 0200-02FF				
2	NUMB HEX	0200	TID_IIRH_ENTRY	
2	NUMB HEX	0201	TID_IIRH_EXIT	
2	NUMB HEX	0202	TID_IIRH_INVALID_FORMAT	
2	NUMB HEX	0203	TID_IIRH_	
			INVALID_FUNCTION	
2	NUMB HEX	0204	TID_IIRH_	
			RECOVERY_ENTERED	
2	NUMB HEX	0205	TID_IIRH_URM_COMMAREA	
2	NUMB HEX	0206	TID_IIRH_EJ_VARS	
2	NUMB HEX	0207	TID_IIRH_II_VARS	
2	NUMB HEX	0208	TID_IIRH_	
			GETMAIN_EXCEPTION	
2	NUMB HEX	0209	TID_IIRH_	
			CALL_URM_EXCEPTION	
2	NUMB HEX	020A	TID_IIRH_	
			RZSO_JOIN_EXCEPTION	
2	NUMB HEX	020B	TID_IIRH_	
			RZSO_CREATE_EXCEPTION	
2	NUMB HEX	020C	TID_IIRH_	
			EJDL_LOOKUP_EXCEPTION	
2	NUMB HEX	020D	TID_IIRH_	
			EXTRACT_OTS_TID_FAILED	
2	NUMB HEX	020E	TID_IIRH_	
			INVALID_USER_KEY_	
			REASON	
2	NUMB HEX	020F	TID_IIRH_USER_KEY	
2	NUMB HEX	0210	TID_IIRH_	
			RMUW_COMMIT_EXCEPTION	
2	NUMB HEX	0211	TID_IIRH_OT_VARS	
2	NUMB HEX	0212	TID_IIRH_	
			TRANSACTION_SEQUENCE	
2	NUMB HEX	0213	TID_IIRH_OTS_TID	
2	NUMB HEX	0214	TID_IIRH_	
			SERVICE_CONTEXT_	
			ERROR	
2	NUMB HEX	0215	TID_IIRH_	
			CONVERT_ENDIAN_ERROR	
<hr/>				
DFHIIMM trace point ids 0300-03FF				
2	HEX	0300	TID_IIMM_ENTRY	
2	HEX	0301	TID_IIMM_EXIT	
2	HEX	0302	TID_IIMM_INVALID_FORMAT	
2	HEX	0303	TID_IIMM_	
			INVALID_FUNCTION	
2	HEX	0304	TID_IIMM_RECOVERY	
<hr/>				
DFHIIRQ trace point ids 0400-04FF				
2	HEX	0400	TID_IIRQ_ENTRY	
2	HEX	0401	TID_IIRQ_EXIT	
2	HEX	0402	TID_IIRQ_INVALID_FORMAT	
2	HEX	0403	TID_IIRQ_	
			INVALID_FUNCTION	
2	HEX	0404	TID_IIRQ_RECOVERY	
<hr/>				
trace point ids 0500-05FF are available				
DFHIIST trace point ids 0600-06FF				
2	HEX	0600	TID_IIST_ENTRY	
2	HEX	0601	TID_IIST_EXIT	
2	HEX	0602	TID_IIST_INVALID_FORMAT	
2	HEX	0603	TID_IIST_	
			INVALID_FUNCTION	
2	HEX	0604	TID_IIST_RECOVERY	
2	HEX	0605	TID_IIST_INVALID_PARMS	
<hr/>				
DFHIIRP trace point ids 0700-07FF				
2	NUMB HEX	0700	TID_IIRP_ENTRY	
2	NUMB HEX	0701	TID_IIRP_EXIT	
2	NUMB HEX	0702	TID_IIRP_INVALID_FORMAT	
2	NUMB HEX	0703	TID_IIRP_	
			INVALID_FUNCTION	
2	NUMB HEX	0704	TID_IIRP_	
			RECOVERY_ENTERED	
2	NUMB HEX	0707	TID_IIRP_	
			RZTA_GET_CURRENT_EXC	
2	NUMB HEX	0708	TID_IIRP_	
			RZTA_GET_SERVER_EXC	

IIA

Len	Type	Value	Name	Description
2	NUMB HEX	0709	TID_IIRP_ RZTA_RECEIVE_REQUEST_ EXC	
2	NUMB HEX	070A	TID_IIRP_ RZTA_SEND_REPLY_ EXC	
2	NUMB HEX	070B	TID_IIRP_ RZSO_RECEIVE_REPLY_ EXC	
2	NUMB HEX	070C	TID_IIRP_ RZSO_SEND_REQUEST_ EXC	
2	NUMB HEX	070D	TID_IIRP_ RZ_LISTEN_EXCEPTION	
2	NUMB HEX	070E	TID_IIRP_ MSG_NOT_RECEIVABLE	
2	NUMB HEX	070F	TID_IIRP_ RZ_NOTIFY_NO_TASK	
2	NUMB HEX	0710	TID_IIRP_ RZ_NOTIFY_RESUME_ FAILED	
2	NUMB HEX	0711	TID_IIRP_ GETMAIN_EXCEPTION	
2	NUMB HEX	0712	TID_IIRP_ RZ_NOTIFY_ENTRY	
2	NUMB HEX	0713	TID_IIRP_ RZ_NOTIFY_EXIT	
2	NUMB HEX	0714	TID_IIRP_DATA_BUFFER	
2	NUMB HEX	0715	TID_IIRP_ CICSTASKTRACKING	
2	NUMB HEX	0716	TID_IIRP_ RZTA_GET_PUBLIC_ EXC	
2	NUMB HEX	0717	TID_IIRP_ CICSTASKTRACKING_ REPLY	
2	NUMB HEX	0718	TID_IIRP_ DSSR_SUSPEND_EXC	
2	NUMB HEX	0719	TID_IIRP_ GIOP_REQ_HEADER_ INVALID	
2	NUMB HEX	071A	TID_IIRP_ REQUEST_INVALID	
2	NUMB HEX	071B	TID_IIRP_ GIOP_REP_HEADER_ INVALID	
2	NUMB HEX	071C	TID_IIRP_ GIOP_INVALID_FRAG_ HEADER	
2	NUMB HEX	071D	TID_IIRP_ GIOP_FRAGMENT_ EXPECTED	
2	NUMB HEX	071E	TID_IIRP_ GIOP_FRAG_MISALIGN	
2	NUMB HEX	071F	TID_IIRP_ GIOP_CLOSE_CONN_ RECEIVED	
2	NUMB HEX	0720	TID_IIRP_ GIOP_MESSAGE_ERROR_ RCVD	
2	NUMB HEX	0721	TID_IIRP_ GIOP_INVALID_MESSAGE_ TYPE	
2	NUMB HEX	0722	TID_IIRP_ GIOP_UNKNOWN_MESSAGE_ TYPE	
2	NUMB HEX	0723	TID_IIRP_ GIOP_FRAGMENT_ NOT_EXPECTED	
2	NUMB HEX	0724	TID_IIRP_ INVALID_RP_TOKEN	
2	NUMB HEX	0725	TID_IIRP_CTT_MISSING	
2	NUMB HEX	0726	TID_IIRP_ REPLY_RS_TOKEN_ INVALID	
2	NUMB HEX	0727	TID_IIRP_ GIOP_FRAGS_NOT_ SUPPORTED	
2	NUMB HEX	0728	TID_IIRP_ GIOP_FRAGMENT_ INVALID	
2	NUMB HEX	0729	TID_IIRP_ WORKREQUEST_ENTRY	
2	NUMB HEX	0730	TID_IIRP_ WORKREQUEST_EXIT	
<hr/>				
DFHIICP trace point ids 0800-08FF				
2	NUMB HEX	0800	TID_IICP_ENTRY	
2	NUMB HEX	0801	TID_IICP_EXIT	
2	NUMB HEX	0802	TID_IICP_ INVALID_FORMAT	
2	NUMB HEX	0803	TID_IICP_ INVALID_FUNCTION	
2	NUMB HEX	0804	TID_IICP_ RECOVERY_ENTERED	

Len	Type	Value	Name	Description
2	NUMB HEX	0805	TID_IICP_INVALID_PLIST	
2	NUMB HEX	0807	TID_IICP_DFIIRQ_LINK_FAILED	
2	NUMB HEX	0808	TID_IICP_DFIIRQ_ABEND	
DFHIIRS trace point ids 0100-01FF				
2	NUMB HEX	0900	TID_IIRS_ENTRY	
2	NUMB HEX	0901	TID_IIRS_EXIT	
2	NUMB HEX	0902	TID_IIRS_INVALID_FORMAT	
2	NUMB HEX	0903	TID_IIRS_INVALID_FUNCTION	
2	NUMB HEX	0904	TID_IIRS_RECOVERY_ENTERED	
2	NUMB HEX	0905	TID_IIRS_USERID_TOO_LONG	
2	NUMB HEX	0906	TID_IIRS_PASSWORD_TOO_LONG	
2	NUMB HEX	0907	TID_IIRS_INVALID_MSGTYPE	
2	NUMB HEX	0908	TID_IIRS_DUPLICATE_SESSID	
2	NUMB HEX	0909	TID_IIRS_SESSID_NOT_FOUND	
2	NUMB HEX	090A	TID_IIRS_LENGTH_TOO_LONG	
2	NUMB HEX	090B	TID_IIRS_XSPW_EXCEPTION	
2	NUMB HEX	090C	TID_IIRS_SECURITY_CONTEXT	
2	NUMB HEX	090D	TID_IIRS_AI_USERID_TOO_LONG	
2	NUMB HEX	090E	TID_IIRS_INVALID_CREDTYPE	
2	NUMB HEX	090F	TID_IIRS_INVALID_AIMSGTYPE	
2	NUMB HEX	0910	TID_IIRS_XSRC_EXCEPTION	
2	NUMB HEX	0911	TID_IIRS_USAD_EXCEPTION	
2	NUMB HEX	0912	TID_IIRS_ADD_VAULTENTRY	
2	NUMB HEX	0913	TID_IIRS_FIND_VAULT_USERID	
2	NUMB HEX	0914	TID_IIRS_DESTROY_VAULT	
2	NUMB HEX	0915	TID_IIRS_XSKR_EXCEPTION	
2	NUMB HEX	0916	TID_IIRS_KP_TOO_LONG	
2	NUMB HEX	0917	TID_IIRS_INVALID_VERSION	
JRAS trace point ids for II 1000-100F				
2	NUMB HEX	1000	TID_II_JRAS_API	
2	NUMB HEX	1001	TID_II_JRAS_CALLBACK	
2	NUMB HEX	1002	TID_II_JRAS_ENTRY	
2	NUMB HEX	1003	TID_II_JRAS_ERROR_EXC	
2	NUMB HEX	1004	TID_II_JRAS_MISC_DATA	
2	NUMB HEX	1005	TID_II_JRAS_OBJ_CREATE	
2	NUMB HEX	1006	TID_II_JRAS_OBJ_DELETE	
2	NUMB HEX	1007	TID_II_JRAS_PRIVATE	
2	NUMB HEX	1008	TID_II_JRAS_PUBLIC	
2	NUMB HEX	1009	TID_II_JRAS_STATIC	
2	NUMB HEX	100A	TID_II_JRAS_SVC	
2	NUMB HEX	100B	TID_II_JRAS_LEVEL1	
2	NUMB HEX	100C	TID_II_JRAS_LEVEL2	
2	NUMB HEX	100D	TID_II_JRAS_LEVEL3	
2	NUMB HEX	100E	TID_II_JRAS_PERF	
2	NUMB HEX	100F	TID_II_JRAS_EXIT	

IIRDS

IIRDS Requestmodel Statistics

```

CONTROL BLOCK NAME = DFHIIRDS
DESCRIPTIVE NAME = CICS ....
  @BANNER_START 02
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5697-E93
  @BANNER_END
FUNCTION =
  This data area contains the Requestmodel statistics
  provided by the II 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 II Domain to store
  statistics to be passed to the user in response to a
  for Requestmodel 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

```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHIIRDS	Requestmodel Resid stats record
(0)	HALFWORD	2	IIRDS_LEN	Requestmodel stats record length
(2)	ADDRESS	2	IIRDS_ID	Requestmodel stats id
(4)	CHARACTER	1	IIRDS_VERS	Requestmodel stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	IIR_REQUESTMODEL_	
			NAME	Requestmodel name
(10)	CHARACTER	4	IIR_CORBASERVER_	
			NAME	CORBAServer name
(14)	CHARACTER	4	IIR_TRANSACTION_	
			ID	Transaction id
(18)	BITSTRING	4		Reserved
(1C)	CHARACTER	255	IIR_RQMODEL_	
			MODULE	Requestmodel Module
(11B)	CHARACTER	255	IIR_RQMODEL_	
			INTERFACE	Requestmodel Interface
(21A)	CHARACTER	255	IIR_RQMODEL_	
			OPERATION	Requestmodel Operation
(319)	BITSTRING	3		Reserved
(31C)	CHARACTER	240	IIR_RQMODEL_	
			BEAN_NAME	Requestmodel Bean name
(40C)	BITSTRING	16		Reserved
(41C)	BITSTRING	1	IIR_RQMODEL_	
			TYPE	Requestmodel type
(41D)	BITSTRING	1	IIR_RQMODEL_	
			INTERFACE_	Interface type
(41E)	BITSTRING	2		Reserved
(420)	BITSTRING	4		Reserved
(420)		0	IIRDS_END	""
(420)		0	IIRDS_LENGTH	""-IIRDS_LEN" Requestmodel record length

Constants that denote a II Requestmodel stats record

.11.	1111	IIRIDR	"111" Requestmodel resid stats id
....	...1	IIR_VERS	"X01" Record version number
....	...1	IIR_RQM_TYPE_EJB	"X01" TYPE = EJB
....	..1.	IIR_RQM_TYPE_CORBA	"X02" TYPE = CORBA
....	..11	IIR_RQM_TYPE_GENERIC	"X03" TYPE = GENERIC
....	....	IIR_RQM_NOTAPPLIC	"X00" INTFACETYPE = NOT APPLICABLE
....	...1	IIR_RQM_HOME	"X01" INTFACETYPE = HOME
....	..1.	IIR_RQM_REMOTE	"X02" INTFACETYPE = REMOTE
....	..11	IIR_RQM_BOTH	"X03" INTFACETYPE = BOTH

IMSDS Function request shipping message

```

CONTROL BLOCK NAME = DFHIMSDS
DESCRIPTIVE NAME = CICS Function Request Shipping Message
    Insert Area.
@BANNER_START 02
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"Restricted Materials of IBM"
5697-E93
@BANNER_END
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)	STRUCTURE	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)
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	0	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		ISMLN	"ISMEND-DFHIMSDS" Dsect length

IRC

IRC Interregion control blocks

CONTROL BLOCK NAME = DFHIRSPS
 DESCRIPTIVE NAME = CICS Interregion Control Blocks
 @BANNER_START 02
 Licensed Materials - Property of IBM
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 5697-E93
 @BANNER_END

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.		LCBFEXL	'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)	BIT(8)	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

Offset Hex	Type	Len	Name (Dim)	Description
	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..		CCBFDWDP	'04'X Disconnect when possible
	.... .1.		CCBFSWIT	'02'X Invalid target for switch
	.... .1.		CCBFUNEX	'02'X Unexpected failure in SRB/subtask
	.... .1.1		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
	.... .1..		CCBNOTFY	'04'X Notify request
(E)	BIT(8)	1	SCCBSTS3	Status byte 3
	1...		CCBFPRIM	'80'X This is a primary SCCB
(F)	BIT(8)	1	SCCBSTS4	Status byte 4
(10)	FULLWORD	4	SCCBLDTH	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 = 'X'FFFFFFFF'

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	SCACBE	
(0)	FULLWORD	4	SCACBEAD	Address of SCCB

Logon 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	
(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)	BIT(8)	1	LCLFLG	Flag byte
	1...		LCLFLGLS	'80'X Last element in list
	.1...		LCLFLGCM	'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)	BIT(8)	1	*	Reserved

The SVC argument list comprises a list of addresses, each of which is the address of a function argument list.

IRC

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	0	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... ..		IRVCLFLT	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	IRVCLDSD	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

IRC

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	LCLENG	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

IRC

Len	Type	Value	Name	Description
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.

2	NUMB HEX	0004	IRERRINF	Invalid function requested
2	NUMB HEX	0008	IRERRAUT	User not authorized to use SVC (MVS only)
2	NUMB HEX	000C	IRERRINE	Environment incorrect
2	NUMB HEX	0010	IRERRUNM	Invalid user number
2	NUMB HEX	0014	IRERRUID	Invalid user identification
2	NUMB HEX	0018	IRERRKEY	PSW key not same as at LOGON
2	NUMB HEX	001C	IRERRTHN	Invalid thread number
2	NUMB HEX	0020	IRERRTHD	Invalid thread ID
2	NUMB HEX	0024	IRERRCFT	Set footprint failed
2	NUMB HEX	0028	IRERRLVE	* DFHIRP services are down-level
2	NUMB HEX	002C	IRERRLGN	Valid usernm & ID but LCB not fully logged on
2	NUMB HEX	0034	IRERRNOS	No SCTE in the SVA
2	NUMB HEX	0038	IRERRNFL	No free LACBE for LOGON
2	NUMB HEX	003C	IRERRDPL	Duplicate LOGON
2	NUMB HEX	0040	IRERRMXL	Maximum LOGONs already reached
2	NUMB HEX	0044	IRERRGMD	GETMAIN failed XCF busy retry TQE storage
2	NUMB HEX	0048	IRERRGM1	GETMAIN failed LACB storage
2	NUMB HEX	004C	IRERRGM4	GETMAIN failed SUDB storage
2	NUMB HEX	0050	IRERRGM2	GETMAIN failed LCB/CCB storage
2	NUMB HEX	0054	IRERRGM3	GETMAIN failed - private area storage

Qualifiers for Getmain and size exceeded errors

1	NUMB HEX	01	IRERQSCW	IRERRGM3 qualifier security work area
1	NUMB HEX	02	IRERQLCC	IRERRGM3 qualifier LCL copy area
1	NUMB HEX	03	IRERQVFW	IRERRGM3 qualifier SSI VERIFY work area
1	NUMB HEX	04	IRERQSDW	SUDB work area security work area
1	NUMB HEX	05	IRERQJSB	IRERRGM3 qualifier JSB storage
1	NUMB HEX	06	IRERQSCA	IRERRGM3/IRERRSIZ qualifier SCACB storage
1	NUMB HEX	07	IRERQLCV	IRERRGM3/IRERRSIZ qualifier LCBE vector storage
1	NUMB HEX	08	IRERQLCD	IRERRGM2/IRERRSIZ qualifier LCBD, LCBE & CCB storage
1	NUMB HEX	09	IRERQSCC	IRERRGM3/IRERRSIZ qualifier SCCB storage
1	NUMB HEX	0A	IRERQLCX	IRERRGM3/IRERRSIZ qualifier LCBEX & CCBX storage
1	NUMB HEX	0B	IRERQPHB	IRERRGM3/IRERRSIZ qualifier PHB storage
1	NUMB HEX	0C	IRERQSLC	IRERRGM3/IRERRSIZ qualifier SLCB storage
1	NUMB HEX	0D	IRERQSRW	IRERRGM3/IRERRSIZ qualifier SRB work area
1	NUMB HEX	0E	IRERQXTT	IRERRGM3/IRERRSIZ qualifier XCF Trace Table
1	NUMB HEX	0F	IRERQOSW	IRERRGM3/IRERRSIZ qualifier QUERY SYSPLEX work area
1	NUMB HEX	10	IRERQGXW	IRERRGM3/IRERRSIZ qualifier XCF Group Exit work area
1	NUMB HEX	11	IRERQRXW	IRERRGM3/IRERRSIZ qualifier XCF busy retry SRB work area
1	NUMB HEX	12	IRERQRTT	IRERRGM3/IRERRSIZ qualifier XCF busy retry SRB Trace Table

Error return codes continued

2	NUMB HEX	0058	IRERRNSK	Potential partner is not a system key user but LCBE insists on system key partners
2	NUMB HEX	005C	IRERRNLG	System not logged on
2	NUMB HEX	0060	IRERRNCT	Primary & secondary DFHIRP levels have incompatible XCF User State Data formats
2	NUMB HEX	0064	IRERRGM5	GETMAIN failed CSB/CND storage
2	NUMB HEX	0068	IRERRNSS	Secondary system not in primary LCB
2	NUMB HEX	006C	IRERRCCS	No secondary CCB found for primary system
2	NUMB HEX	0070	IRERRIQS	Secondary is in QUIESCE
2	NUMB HEX	0074	IRERRNSP	Primary system not in secondary LCB
2	NUMB HEX	0078	IRERRCCP	No primary CCB found for secondary
2	NUMB HEX	007C	IRERRIQP	Primary is in QUIESCE
2	NUMB HEX	0080	IRERRCCR	No primary CCB/retry req
2	NUMB HEX	0084	IRERRDSC	Link is already disconnected
2	NUMB HEX	0088	IRERRSWI	Other side cannot receive data
2	NUMB HEX	008C	IRERRNSW	This side cannot send data
2	NUMB HEX	0090	IRERRPL1	Other side cannot be pulled from
2	NUMB HEX	0094	IRERRPL2	This side cannot pull data
2	NUMB HEX	0098	IRERRNPP	There is no pull pending
2	NUMB HEX	009C	IRERRNDP	No data to be pulled (Internal error)
2	NUMB HEX	00A0	IRERRLIQ	LCB is in QUIESCE
2	NUMB HEX	00A4	IRERRUKS	Target system not found in LCB
2	NUMB HEX	00A8	IRERRCSB	CSB cannot be found
2	NUMB HEX	00AC	IRERRLNC	Link is not connected
2	NUMB HEX	00B0	IRERRSCF	Security check failed

Len	Type	Value	Name	Description
Qualifiers for security check failure				
1	NUMB HEX	01	IRERQAUT	IRERRSCF qualifier AUTH denied access
1	NUMB HEX	02	IRERQFAU	IRERRSCF qualifier FASTAUTH denied access
Error codes continued				
2	NUMB HEX	00B4	IRERRSCH	Attempt to schedule an SRB/subtask failed
2	NUMB HEX	00B8	IRRRGM7	GETMAIN failed for SRB storage (MVS)
2	NUMB HEX	00BC	IRRRPST	'Special' ABEND (Bad ECB etc.)
2	NUMB HEX	00C0	IRERRIA0	Invalid argument or Parameter addr
2	NUMB HEX	00C4	IRERRIA1	Invalid address in parameter list
2	NUMB HEX	00C8	IRERRIA2	Invalid address in data list
2	NUMB HEX	00CC	IRERRABN	An MVS ABEND occurred
2	NUMB HEX	00D0	IRRRGM8	GETMAIN failed for Transfer Buffer
2	NUMB HEX	00D4	IRRRGM9	GETMAIN failed for EOM wk area
2	NUMB HEX	00D8	IRRRENV	Subsystem notification error (MVS only)
2	NUMB HEX	00DC	IRERRIA3	Invalid target for data movement
2	NUMB HEX	00E0	IRRRILE	Internal logic error
2	NUMB HEX	00E4	IRRRGMX	GETMAIN failed for use count array
2	NUMB HEX	00E8	IRRRAX	Non-zero AX value currently set
2	NUMB HEX	00EC	IRRRGMA	GETMAIN failed for XCF part table or XCF retry storage
2	NUMB HEX	00F0	IRRRCAT	Connect SRB ATSET failed
2	NUMB HEX	00F4	IRRRXME	Cross memory environment error
2	NUMB HEX	00F8	IRRRIDL	Total data length invalid For SWITCH or PULL
2	NUMB HEX	00FC	IRRRMPD	M/C check paging I/O or DAT error
2	NUMB HEX	0100	IRRRWEN	Bad name for EXITS=
2	NUMB HEX	0104	IRRRWEL	LOAD failed for IR work exit
2	NUMB HEX	0108	IRRRWEF	IR work exit is bad format
2	NUMB HEX	010C	IRRRLCL	Error in LOGON/ADD connections list
Qualifiers for logon/add connection list error				
1	NUMB HEX	01	IRRRQDNM	Duplicate connection name in LCL or LCBEs
1	NUMB HEX	02	IRRRQEXC	Restricted options requested by an EXCI user
1	NUMB HEX	03	IRRRQ#SN	Number of sessions is invalid
1	NUMB HEX	04	IRRRQPNU	Primary sessions requested by a non-unique user or LCL end flag cleared asynchronously
Error codes continued				
2	NUMB HEX	0114	IRRRXCQ	IXCQUERY failure, reason in R0
2	NUMB HEX	0118	IRRRTKN	Token not found - dynamic ADD
2	NUMB HEX	011C	IRRRSCV	SCTE already built by an incompatible version of DFHIRP
2	NUMB HEX	0120	IRRRRSM	MVS RESMGR failed - 1st 2 bytes of RF is RESMGR return code
2	NUMB HEX	0124	IRRRSIZ	Max. size exceeded for SCACB, LCBE vector, LCB block, SCCB block or LCBEX block
2	NUMB HEX	0128	IRRRTSW	Non-zero POST code from TRANSWAP
2	NUMB HEX	012C	IRRRSN#	No unused session numbers left for an XCF CONNECT request
2	NUMB HEX	0130	IRRRMTM	LCBFJOIN set at start of IRCJOIN but XCF member token not present in LCB - probably caused by a previous ABEND during IXCJOIN
2	NUMB HEX	0134	IRRRSCM	The LACB that currently exists was built by an incompatible version of DFHIRP

IRRDs

IRRDs 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)	STRUCTURE	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
	.1.. ..		IRFLRQST	"X'40" .. Requeststreams
	..1.		IRFLCHAN	"X'20" .. Sender can handle Channels
	.... 1...		IRFLTXBK	Texci backout if abend
(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)	STRUCTURE	0	IRCONT	
(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
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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)	BIT(8)	1	JCATR3	- type of request, byte 3
(9)	BIT(8)	1	JCATR2	- type of request, byte 2
(A)	BIT(8)	1	JCATR1	- type of request, byte 1
(B)	BIT(8)	1	JCAJCRC	- return code
(C)	ADDRESS	4	JCAADATA	- A(user data)
(10)	ADDRESS	4	JCAAPRFX	- A(user prefix)
(14)	FULLWORD	4	JCAFTOK	force token
(18)	FULLWORD	4	JCAFLEN	- fullword L(user data)
(18)	HALFWORD	2	*	- section to allow 64K
(1A)	HALFWORD	2	JCALDATA	- used with LENGTH
(1C)	HALFWORD	2	JCALPRFX	- 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)	BIT(8)	1	JCAMODFN	- module function
(2D)	BIT(8)	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

KCS

Constants

Len	Type	Value	Name	Description
JCATR3 - CICS system request symbolic settings				
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
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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)	BIT(8)	1	*	
	1...		*	Reserved
	.1...		KCSOBPST	open-for-business post bit *
(4)	CHARACTER	4	KCSCPECB	KC restart complete ECB *
(4)	BIT(8)	1	*	
	1...		*	Reserved
	.1...		KCSCPPST	restart complete post bit *
(8)	BIT(8)	1	KCSFLAGS	restart flags
	1...		KCSRSTIN	restart initiated

KERRD

Offset Hex	Type	Len	Name (Dim)	Description
(9)	UNSIGNED	1	KCSRSTRC	restart return code
(A)	CHARACTER	2	KCSREASN	MSG DFH0302 REASON CODE *
(C)	ADDRESS	4	KCSNQPCH	DFHKC ENQ string enqueue pool
(10)	ADDRESS	4	KCSNQPAD	DFHKC ENQ address enqueue pool
(14)	CHARACTER	0	KCSTLEN	LENGTH INDICATOR

KERRD Kernel error data

CONTROL BLOCK NAME = DFHKERRD
 DESCRIPTIVE NAME = **CICS Kernel Error Data**
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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	552	KERNEL_ERROR_DATA	
(0)	CHARACTER	8	KERNEL_ERROR_CODE	XXX/NNNN System & User Code

KERRD

#	Offset # Hex	Type	Len	Name (Dim)	Description
	(8)	UNSIGNED	1	KERNEL_ERROR_TYPE	Error type, see below
	(9)	BIT(8)	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
		.... 1...		*	CICS RB not in control
		.... .1..		KERNEL_ERROR_REASON_PRESENT	Reserved
		.... ..11		*	Abend reason code is present
(A)	BIT(16)		2	KERNEL_ERROR_SYSTEM_INT	Reserved
					XXX in binary format
(C)	BIT(16)		2	KERNEL_ERROR_USER_INT	
					NNNN in binary format
(E)	HALFWORD		2	KERNEL_ERROR_OFFSET	
					Offset in program of error
(10)	CHARACTER		8	KERNEL_ERROR_PROGRAM	
					Name of program in error
(18)	ADDRESS		4	KERNEL_ERROR_ADDRESS	
					Address of program in error
(1C)	FULLWORD		4	KERNEL_ERROR_TASRQTOK	
					Attach token of task
(20)	FULLWORD		4	KERNEL_ERROR_TASTRTOK	
					Transaction token of task
(24)	ADDRESS		4	KERNEL_ERROR_TAS_ADDRESS	
					Address of task in error
(28)	FULLWORD		4	KERNEL_ERROR_NUMBER	
					Error number
(2C)	CHARACTER		4	KERNEL_ERROR_REASON	
					Abend reason code
(30)	CHARACTER	224		CICS_ERROR_DATA	CICS error data
(30)	CHARACTER	8		CICS_ERROR_BC_PSW	PSW BC Mode
(38)	CHARACTER	8		CICS_ERROR_EC_PSW	PSW EC Mode
(38)	CHARACTER	2		*	Padding
(3A)	BIT(8)	1		CICS_ERROR_EC_BYTE3	
		1... ..		CICS_ERROR_AR_MODE	
					CICS AR mode flag
(40)	CHARACTER	8		CICS_ERROR_EC_ADD	Int Code, ILC from SDWAAEC2
(48)	ADDRESS	4		CICS_ERROR_INSTRUCTION_ADDR	
					PSW address
(4C)	UNSIGNED	1		CICS_ERROR_KEY	PSW key in form X'n0'
(4D)	CHARACTER	3		CICS_BE_A_1	1st part of SDWABEA
(50)	CHARACTER	64		CICS_ERROR_REGST	
(50)	ADDRESS	4		CICS_ERROR_REGISTERS (16)	
					Registers in CICS
(90)	CHARACTER	64		CICS_ERROR_G64HT	
(90)	ADDRESS	4		CICS_ERROR_G64H (16)	
(D0)	CHARACTER	64		CICS_ERROR_ACCESS_REGST	Registers in CICS
(D0)	ADDRESS	4		CICS_ERROR_ACCESS_REGISTERS (16)	
					CICS Access Regs@L3A
(110)	CHARACTER	224		SYSTEM_ERROR_DATA	System error data
(110)	CHARACTER	8		SYSTEM_ERROR_BC_PSW	
					PSW BC Mode
(118)	CHARACTER	8		SYSTEM_ERROR_EC_PSW	
					PSW EC Mode
(118)	CHARACTER	2		*	Padding
(11A)	BIT(8)	1		SYSTEM_ERROR_EC_BYTE3	
		1... ..		SYSTEM_ERROR_AR_MODE	
					SYSTEM AR mode flag

KERRD

#	Offset #	Hex	Type	Len	Name (Dim)	Description
	(120)		CHARACTER	8	SYSTEM_ ERROR_EC_ADD	
	(128)		ADDRESS	4	SYSTEM_ ERROR_INSTRUCTION_ ADDR	Int Code,ILC from SDWAAEC1
	(12C)		UNSIGNED	1	SYSTEM_ERROR_KEY	PSW address
	(12D)		UNSIGNED	3	*	PSW key in form X'n0'
	(130)		CHARACTER	64	SYSTEM_ERROR_REGST	Padding
	(130)		ADDRESS	4	SYSTEM_ ERROR_REGISTERS (16)	
	(170)		CHARACTER	64	SYSTEM_ERROR_G64HT	
	(170)		ADDRESS	4	SYSTEM_ERROR_G64H (16)	
	(1B0)		CHARACTER	64	SYSTEM_ ERROR_ACCESS_REGST	
	(1B0)		ADDRESS	4	SYSTEM_ ERROR_ACCESS_ REGISTERS (16)	
	(1F0)		BIT(64)	8	KERNEL_ ERROR_TIMESTAMP	System access registers
	(1F8)		CHARACTER	32	KERNEL_ ERROR_FP_REGS	Timestamp of error
	(1F8)		CHARACTER	8	KERNEL_ ERROR_FP_REG_0	FP register values:
	(200)		CHARACTER	8	KERNEL_ ERROR_FP_REG_2	FP register 0
	(208)		CHARACTER	8	KERNEL_ ERROR_FP_REG_4	FP register 2
	(210)		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						
	(218)		CHARACTER	8	KERNEL_ERROR_STOKEN	Stoken for subspace
	(220)		CHARACTER	4	KERNEL_ERROR_ALET	ALET for subspace
	(224)		BIT(8)	1	KERNEL_ ERROR_SUBSPACE_ FLAGS	
			1...		KERNEL_ ERROR_IN_SUBSPACE	error while in ss
			.1..		KERNEL_ ACTIVE_IN_SUBSPACE	
			..11 1111		*	active in ss
					*	Reserved
#	(225)		CHARACTER	1	KERNEL_BEA_2	2nd part of SDWABEA
#	(226)		CHARACTER	2	*	Reserved

Constants

Len	Type	Value	Name	Description
Kernel Error Type: Value Definitions.				
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	
1	DECIMAL	12	KERNEL_ERROR_KILL	

KPLEC

Len	Type	Value	Name	Description
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	

KPLEC Keypoint list element

CONTROL BLOCK NAME = DFHKPLEC
 DESCRIPTIVE NAME = **CICS (FILE) Keypoint List Element DSECT**
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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	when starting to write TURs
(4)	CHARACTER	4	KPLE_START_ WRITE_DAY	... in packed format 0CYYDDDC
(8)	CHARACTER	4	KPLE_START_ WRITE_TIME	... in packed format HHMSSTC
(C)	CHARACTER	8	KPLE_END_ WRITE_PACKED	when ending write of TURs
(C)	CHARACTER	4	KPLE_END_ WRITE_DAY	... in packed format 0CYYDDDC
(10)	CHARACTER	4	KPLE_END_ WRITE_TIME	... in packed format HHMSSTC

LDGDS Loader statistics

```

CONTROL BLOCK NAME = DFHLDGDS
DESCRIPTIVE NAME = CICS Loader Statistics
  @BANNER_START 02
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5697-E93
  @BANNER_END
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)	STRUCTURE	0	DFHLDGDS	Loader statistics (GLOBAL)
(0)	FULLWORD	4	(0)	Reserved
(0)	HALFWORD	2	LDGLEN	Length of data area
	...1 11.		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
Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	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	LDGWLRRH	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
Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	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	LDGRENIU	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

LDRDS

Offset Hex	Type	Len	Name (Dim)	Description
Equates for LDGDSASTAT array				
....	.11.		LDGMAXDSA	"6" Number of elements
....	...1		LDGCDSA	"1" CDSA
....	..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
@BANNER_START 02
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5697-E93
@BANNER_END
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)	STRUCTURE	0	DFHLDRDS	Loader statistics (RESID)
(0)	FULLWORD	4	(0)	Reserved
(0)	HALFWORD	2	LDRLEN	Length of data area
...1	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 NEWCOPYed
(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..		LDREDCO	"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.		LDRRDco	"X'0A" Current copy in the RDSA
(2D)	ADDRESS	3		Reserved
..11	....		LDREND	""
..11	....		LDRCLen	""-LDRLEN" Length of DSECT

LESRV Service routine vector

```

MODULE NAME = DFHLESRV
DESCRIPTIVE NAME = CICS Service routine vector
  @BANNER_START 02
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5697-E93
  @BANNER_END
FUNCTION = Bilingual copybook to map the service routine vector

```

Vector of routines provided to Language Environment

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	136	DFH_SERVICE_VECTOR	
(0)	FULLWORD	4	DFH_SERVICE_VECTOR_LENGTH	
(4)	BIT(32)	4	DFH_SERVICE_FLAGS	vector length availability
(4)	BIT(8)	1	DFH_SERVICE_FLAG_BYTE1	
	1...		DFHGCAA_AVAIL	
	.1..		DFHSCAA_AVAIL	
	..1.		DFHLEGM_AVAIL	
	...1		DFHLEFM_AVAIL	
	.... 1...		DFHLEAS_AVAIL	
	.... .1..		DFHLEDS_AVAIL	
	.... ..1.		DFHLEGQ_AVAIL	
	.... ...1		DFHLEFQ_AVAIL	
(5)	BIT(8)	1	DFH_SERVICE_FLAG_BYTE2	
	1...		DFHLETR_AVAIL	
	.1..		DFHLEDT_AVAIL	
	..1.		DFHLERO_AVAIL	
	...1 1111		*	reserved
(6)	BIT(8)	1	DFH_SERVICE_FLAG_BYTE3	reserved
(7)	BIT(8)	1	DFH_SERVICE_FLAG_BYTE4	reserved
(8)	CHARACTER	128	DFH_SERVICE_ROUTINES	
(8)	ADDRESS	4	DFHGCAA_ADDRESS	get anchor
(C)	ADDRESS	4	DFHSCAA_ADDRESS	set anchor
(10)	ADDRESS	4	DFHLEGM_ADDRESS	getmain
(14)	ADDRESS	4	DFHLEFM_ADDRESS	freemain
(18)	ADDRESS	4	DFHLEAS_ADDRESS	add subpool
(1C)	ADDRESS	4	DFHLEDS_ADDRESS	delete subpool
(20)	ADDRESS	4	DFHLEGQ_ADDRESS	get quickcell
(24)	ADDRESS	4	DFHLEFQ_ADDRESS	free quickcell
(28)	ADDRESS	4	DFHLETR_ADDRESS	trace
(2C)	ADDRESS	4	DFHLEDT_ADDRESS	transaction dump
(30)	ADDRESS	4	DFHLERO_ADDRESS	runtime options
(34)	ADDRESS	4	* (21)	reserved

LESRV

LESRV Service routine vector

MODULE NAME = DFHLESRV
 DESCRIPTIVE NAME = CICS Service routine vector
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 FUNCTION = Bilingual copybook to map the service routine vector

Vector of routines provided to Language Environment

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	136	DFH_SERVICE_VECTOR	
(0)	FULLWORD	4	DFH_SERVICE_VECTOR_LENGTH	vector length
(4)	BIT(32)	4	DFH_SERVICE_FLAGS	availability
(4)	BIT(8)	1	DFH_SERVICE_FLAG_BYTE1	
	1...		DFHGCAA_AVAIL	
	.1..		DFHSCAA_AVAIL	
	..1.		DFHLEGM_AVAIL	
	...1		DFHLEFM_AVAIL	
	.... 1...		DFHLEAS_AVAIL	
	.... .1..		DFHLEDS_AVAIL	
	.... ..1.		DFHLEGQ_AVAIL	
	.... ...1		DFHLEFQ_AVAIL	
(5)	BIT(8)	1	DFH_SERVICE_FLAG_BYTE2	
	1...		DFHLETR_AVAIL	
	.1..		DFHLEDT_AVAIL	
	..1.		DFHLERO_AVAIL	
	...1 1111		*	reserved
(6)	BIT(8)	1	DFH_SERVICE_FLAG_BYTE3	reserved
(7)	BIT(8)	1	DFH_SERVICE_FLAG_BYTE4	reserved
(8)	CHARACTER	128	DFH_SERVICE_ROUTINES	
(8)	ADDRESS	4	DFHGCAA_ADDRESS	get anchor
(C)	ADDRESS	4	DFHSCAA_ADDRESS	set anchor
(10)	ADDRESS	4	DFHLEGM_ADDRESS	getmain
(14)	ADDRESS	4	DFHLEFM_ADDRESS	freemain
(18)	ADDRESS	4	DFHLEAS_ADDRESS	add subpool
(1C)	ADDRESS	4	DFHLEDS_ADDRESS	delete subpool
(20)	ADDRESS	4	DFHLEGQ_ADDRESS	get quickcell
(24)	ADDRESS	4	DFHLEFQ_ADDRESS	free quickcell
(28)	ADDRESS	4	DFHLETR_ADDRESS	trace
(2C)	ADDRESS	4	DFHLEDT_ADDRESS	transaction dump
(30)	ADDRESS	4	DFHLERO_ADDRESS	runtime options
(34)	ADDRESS	4	* (21)	reserved

LFM LIFO parameter list and standard DSA

CONTROL BLOCK NAME = DFHLPLST, DFHLFS
 DESCRIPTIVE NAME = CICS LIFO Parameter List and Standard DSA
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 FUNCTION =
 Maps the parameter list passed to DFHLFA.
 The values of the field DFHLPMOD 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)	STRUCTURE	0	DFHLPLST	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	DFHLPMOD	MOD ID
(E)	HALFWORD	2	DFHLPMDC	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	DFHLPTR3	RESERVED
(13)	BITSTRING	1	DFHLPTR4	RESERVED
(14)	FULLWORD	4	DFHLPSMD	Smode index
	.... ..1..		DFHLPS31	"0" Smode 31
	.... ..1..		DFHLPS24	"8" Smode 24
(18)	ADDRESS	4	DFHLPREC	Recovery routine address *

STANDARD DSA

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	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..		LFDSDFAB	"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	LFDSOFRO	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

LFM

Offset Hex	Type	Len	Name (Dim)	Description
(28)	ADDRESS	4	LFDSOFR5	REG 5
(2C)	ADDRESS	4	LFDSOFR6	REG 6
(30)	ADDRESS	4	LFDSOFR7	REG 7
(34)	ADDRESS	4	LFDSOFR8	REG 8
(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	LFDSTASN	ADDRESS OF TASK ENTRY.
(54)	ADDRESS	4	LFDSPOWN	ADDRESS OF PROCESS OWN.
(58)	ADDRESS	4	LFSDTAB	Caller's domain entry
(5C)	FULLWORD	4	LFDSTRFL	Trace flags
(60)	ADDRESS	4	LFDSOFNB	NAB
(64)	ADDRESS	4	LFDSAPLT	A(MODULE PLIST)
(68)	ADDRESS	4		Used by Kernel.
(6C)	FULLWORD	4	LFDSMOD	SMODE index 0=31-bit 8=24-bit
(70)	BITSTRING	1	LFDSMOD1	MODULE ID
(71)	BITSTRING	1	LFDSMOD2	SUB MODULE ID
(72)	HALFWORD	2	LFDSMODN	MOD NAME 2 CHAR
(74)	ADDRESS	4		Reserved.
(78)	ADDRESS	4		Reserved.
(7C)	ADDRESS	4		Reserved.
(80)	DBL WORD	8	LFDSUSS1 (0)	USER AREA START
(80)	DBL WORD	8	LFDSUSS2 (0)	START USER AREA AFTER COPY *

END OF STANDARD SECTION
Kernel Domain Table Entry Overlay. Pointed to by LFSDTAB.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	LFSDTE	,
(0)	CHARACTER	8		Used by Kernel
(8)	FULLWORD	4	LFSDTEI	Domain index
(C)	CHARACTER	4		USED BY KERNEL
(10)	ADDRESS	4	LFSDTEA	Domain anchor
(14)	CHARACTER	1	(0)	Used by Kernel

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHLFS	Continue stack dsect

LGGDS Log Manager Global Statistics

CONTROL BLOCK NAME = DFHLGGDS
 DESCRIPTIVE NAME = CICS Log Manager Logstream Global

Statistics

@BANNER_START 02

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5697-E93

@BANNER_END

FUNCTION =

This data area contains logstream global 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 DFHLGGDS 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)	STRUCTURE	0	DFHLGGDS	Log Mgr Global stats record
(0)	HALFWORD	2	LGGLLEN	Record length
(2)	ADDRESS	2	LGGID	Log Manager logstream stats id
(4)	CHARACTER	1	LGGDVERS	Log Manager stats version
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	LGGAKPFREQ	Keypoint Frequency
(C)	FULLWORD	4	LGGLGDEFER	Logdefer Interval
(10)	FULLWORD	4	LGGAKPSTKN	Number of Keypoints Taken
(14)	CHARACTER	4		Reserved
(18)	CHARACTER	4		Reserved
	...1 11..		LGGEND	***
	...1 11..		LGGDSLEN	**-LGGLLEN" Record length
Constants that denote a LG logstream global stats record				
	.1.1 11..		LGGIDE	"92" Log Manager global stats id
	.... ...1		LGGVERS	"X'01" Record version number

LGGF

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	0	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	*	
	IsA(GENLOGRECORD)			
(0)	CHARACTER	12	*	
(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
	1... ..		GLRH_START_OF_TASK	
				equivalent to JCSPSOTK
	.1... ..		GLRH_START_OF_UOW	
				equivalent to JCSPLSTK
(35)	CHARACTER	3	GLRH_LGSSI_RSVD	reserved
(38)	CHARACTER	0	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	*	
	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

LGGF

```
--
-
```

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_compid" 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	0	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 (OCYYDD+)
(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_AS_L	length of CICS data section
(2A)	UNSIGNED	2	SMFH_ASN	number of CICS data sections
(2C)	CHARACTER	0	*	
(2C)	CHARACTER	114	SMF_PRODUCT_SECTION	

LGMS

Offset Hex	Type	Len	Name (Dim)	Description
(2C)	CHARACTER	2	SMFPS_VRM	record version format x'0vrm' 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	0	*	
(9E)	CHARACTER	0	SMF_DATA_SECTION	CICS records
(9E)	CHARACTER	0	SMFDS_DATA	records follow

Constants

Len	Type	Value	Name	Description
--				
4	CHARACTER	CICS	SMFH_SSI_CICS	sub-system identification
1	CHAR HEX	DE	SMFH_FLG_ESA4	MVS/ESA V4
1	CHAR HEX	6E	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	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
 @BANNER_START 02
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 5697-E93
 @BANNER_END
 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)	STRUCTURE	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..		LGRDSLEN	""-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

LGSDS Log Manager Logstream Statistics

```

CONTROL BLOCK NAME = DFHLGSDS
DESCRIPTIVE NAME = CICS Log Manager Logstream Statistics
  @BANNER_START 02
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5697-E93
  @BANNER_END
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)	STRUCTURE	0	DFHLGSDS	Log Mgr Resid stats record
(0)	HALFWORD	2	LGSLEN	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)	FULLWORD	4	LGSQUERIES	No of log queries
(78)	CHARACTER	4		Reserved
.111 11..			LGSEND	""
.111 11..			LGSDSLEN	""-LGSLEN" Record length

Constants that denote a LG logstream stats record

.1.1 111.	LGSIDR	"94" Log Manager resid stats id
.... ..1	LGSVERS	"X01" Record version number
.... ..1	LGSSLYES	"X01" System log flag - yes
.... ..1.	LGSSLNO	"X02" System log flag - no
.... ..1	LGSDOYES	"X01" DASD only log stream - yes
.... ..1.	LGSDONO	"X02" DASD only log stream - no
.... ..1	LGSADYES	"X01" Auto delete log stream - yes
.... ..1.	LGSADNO	"X02" 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
 @BANNER_START 02
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 5697-E93
 @BANNER_END
 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)	STRUCTURE	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
 @BANNER_START 02
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 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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	0	*	ALLOCATE / ALLOCATE PRIV

LUC

Offset Hex	Type	Len	Name (Dim)	Description
	1... ..		LUCNOQ	NOQUEUE specified
	.1.. ..		LUCASYSV	LUCASYS is valid
	..1 ..		*	
	...1 ..		*	
	.... 1..		LUCAPRFV	APROFILE specified
	.... .1..		LUCNPRFV	NPROFILE specified
	.... ..1		*	
(1)	CHARACTER	0	*	INITIAL CALL, SEND, SEND-FMH
	1... ..		LUCFROM	Initial data provided or application data provided
	.1.. ..		LUCLISTV	LLID data specified
	..1 ..		*	
	...1 ..		*	
	.... 1..		*	
	.... .1..		*	
	.... ..1		*	
(1)	CHARACTER	0	*	ISSUE ABEND / ISSUE ERROR
	1... ..		LUCABUSE	User invocation
	.1.. ..		*	
	..1 ..		*	
	...1 ..		*	
	.... 1..		*	
	.... .1..		*	
	.... ..1		*	
(1)	CHARACTER	0	*	ISSUE ATTACH request
	1... ..		LUCNOCHK	TPN check not required
	.1.. ..		*	
	..1 ..		*	
	...1 ..		*	
	.... 1..		*	
	.... .1..		*	
	.... ..1		*	
(1)	CHARACTER	0	*	RECEIVE / RECEIVE FMH request
	1... ..		LUCSET	SET option specified
	.1.. ..		LUCBELOW	DATALOC option
	..1 ..		LUCNOLA	Look Ahead option
	...1 ..		*	
	.... 1..		*	
	.... .1..		*	
	.... ..1		*	
(1)	CHARACTER	0	*	SYNC-COMMITTED request
	1... ..		LUCEXPF	Explicit FORGET specified
	.1.. ..		LUCIMPF	Implicit FORGET specified
	..1 ..		*	
	...1 ..		*	
	.... 1..		*	
	.... .1..		*	
	.... ..1		*	
(1)	CHARACTER	0	*	FREE request
	1... ..		LUCFRIMP	IMPLICIT free
	.1.. ..		*	
	..1 ..		*	
	...1 ..		*	
	.... 1..		*	
	.... .1..		*	
	.... ..1		*	
(2)	CHARACTER	1	LUCOPN2	MINOR REQUEST BYTE 2
(2)	CHARACTER	0	*	ALLOCATE / ALLOCATE-PRIV
	1... ..		LUCMODNV	LUCMODNM is valid
	.1.. ..		LUCATI	'ATI' Allocate
	..1 ..		LUCPRIV	ALLOCATE PRIV request
	...1 ..		LUCNETV	NETNAME= specified
	.... 1..		LUCMNPRF	Modename set to use profile modename
	.... .1..		*	
	.... ..1		*	
(2)	CHARACTER	0	*	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	0	*	RECEIVE request
	1... ..		LUCLLID	receive LLID
	.1.. ..		LUCBUFR	receive BUFFER
	..1 ..		LUCIMMED	SUBTYPE=IMMEDIATE specified
	...1 ..		*	
	.... 1..		*	
	.... .1..		*	

LUC

Offset Hex	Type	Len	Name (Dim)	Description
			*	
			*	
(2)	CHARACTER	0	*	SEND / SEND-FMH request
			LUCNVIT	INVITE option
			LUCLAST	LAST option (also used for SYNC- PREPARE and SYNC-REQ-COMMIT
			LUCCONF	CONFIRM option
			LUCFLSH	WAIT (or FLUSH) option
			*	
			*	
			*	
			*	
(3)	CHARACTER	1	LUCOPN3	MINOR REQUEST BYTE 3
(3)	CHARACTER	0	*	
			LUCSYSCL	System call
			LUCNOSIG	Do not return SIGNAL (Rec)
			LUCNOSF	Do not return sess fails
			*	
			*	
			*	
			*	
(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
			LUCCIDCM	1 - DATA COMPLETE
			LUCCISYN	1 - SYNCPOINT REQ'D
			LUCCIFRE	1 - FREE REQUESTED
			LUCCIREC	1 - RECEIVE REQUIRED
			LUCCISIG	1 - SIGNAL RECEIVED
			LUCCICON	1 - CONFIRMATION REQ'D
			LUCCIERR	1 - ERROR RECEIVED
			LUCCIRBK	1 - ROLLBACK REQUESTED
(B)	CHARACTER	1	LUCFDBK2	
			LUCCINEG	Negative response received
			LUCCINSU	RECEIVE IMMEDIATE was unsuccessful
			*	
			*	
			*	
			*	
(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	0	LUCORG	ADDITIONAL PARAMETERS ARE OVERLAID ON LUCORG
------	-----------	---	--------	--

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

LUC

Offset Hex	Type	Len	Name (Dim)	Description
(14)	STRUCTURE	92	*	
outputs				
(14)	CHARACTER	1	LUCEPCON	CONVTYPE SPECIFIED IN LU6.2 ATTACH FMH RECEIVED
(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	LUCFTPDL	LENGTH OF TPN FOR LU6.2 ATTACH FMH SENT
(17)	CHARACTER	64	LUCFTPN	TPN FOR LU6.2 ATTACH FMH SENT
(57)	CHARACTER	1	LUCPIPI	PIP DATA TO BE SENT
	1... ..		*	
	.1.		*	
	..1.		*	
	...1		*	
	.... 1...		*	
	.... .1.		*	
	.... ..1.		*	
	.... ...1		LUCPIPI	1 - PIP DATA PRESENT

LUC

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	Type	Len	Name (Dim)	Description
(14)	STRUCTURE	1	*	

LUC

Offset Hex	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
-----	------	-------	------	-------------

The following constants define the values of LUCOPN0, the Major Request byte, allocated as follows:

X'01' - X'0F' - APPLICATION LEVEL CALLS TO DFHZARL

X'10' - X'1F' - SYSTEM LEVEL CALLS TO DFHZARL

X'20' - X'??' - FOR CALLS FROM DFHZARL

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	LUCCMDT	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	LUCLSDST	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
---	-----	----	----------	-------------

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

1	HEX	02	LUCESYSB	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 Conversation level is wrong '08'X State error '0C'X Synlevel 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	

LUM

Len	Type	Value	Name	Description
1	HEX	0C	LUCERC0C	
1	HEX	0D	LUCERC0D	
1	HEX	10	LUCERC10	Negative receive length
1	HEX	14	LUCERC14	
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 (SYNCPT)
Define the length of the control block				
4	DECIMAL	112	LUCLSTG	

LUM Parameter list

CONTROL BLOCK NAME = DFHLUMPS				
DESCRIPTIVE NAME = CICS DFHLUCM Parameter List				
@BANNER_START 02				
Licensed Materials - Property of IBM				
"Restricted Materials of IBM"				
5697-E93				
@BANNER_END				
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)	BIT(8)	1	LUMOPN0	MAJOR REQUEST BYTE
(1)	BIT(8)	1	LUMOPN1	MINOR REQUEST BYTE 1
(2)	BIT(8)	1	LUMOPN2	MINOR REQUEST BYTE 2
(3)	BIT(8)	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

LUSDS

Constants

Len	Type	Value	Name	Description
The following constants define the values of byte LUMOPNO				
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 sevices manager parameter

```

CONTROL BLOCK NAME = DFHLUSPS
DESCRIPTIVE NAME = CICS (ZCP) LU services manager parameter
list.
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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)	BIT(8)	1	LUSTYPE	CALL TYPE
(1)	BIT(8)	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
The following constants define the values of byte LUSTYPE				
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
    @BANNER_START 02
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5697-E93
    @BANNER_END
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	0	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)	BIT(8)	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	0	BMSTFEA	ENDING ADDRESS

MAP

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..		BMSMARGB	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.		BMSMSHON	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 BMSMATT5 AND BMSDATTS =12 FOR RELEASE 1.7

MAP

Offset Hex	Type	Len	Name (Dim)	Description
(29)	CHARACTER	1	BMSMI2	MAP INDICATOR EXTENSION
	1... ..		BMSMI2RM	KANJI EXTENDED ATTRS IN MAP *
	.1.. ..		BMSMI2RD	KANJI EXTENDED ATTRS IN APPLICATION STRUCTURE
(2A)	CHARACTER	0	BMSMSEA	MAP SPECIFICATION ENDING ADDRESS FOR PRE1.7 MAPS

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

Offset Hex	Type	Len	Name (Dim)	Description
(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	0	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.		BMSFDDD	INITIAL = ANY USER INFORMATION
	.... ...1		BMSFDNF	DSECT ENTRY EXISTS
(5)	CHARACTER	1	BMSFA	FIELD ATTRIBUTE
(6)	HALFWORD	2	BMSFP	FIELD POSITION
(8)	CHARACTER	0	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	0	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(BMSMHXT) 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		BMSALTEQ	ALIAS EXTENSION TYPE CODE
(2)	CHARACTER	8	BMSOGNME	OUTBOARD MAP-GROUP NAME
(A)	CHARACTER	8	BMSOFNME	OUTBOARD FORMAT NAME
(12)	CHARACTER	1	BMSOFFLG	FLAG BYTE

MBCA

Offset Hex	Type	Len	Name (Dim)	Description
	1... ..		*	
	.1... ..		*	
	..1... ..		*	
	...1... ..		*	
	.... 1...		*	
	.... .1..		*	
	.... ..1.		*	
(13)	CHARACTER	0	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

MBCA

MODULE NAME = DFHMBCPS
 DESCRIPTIVE NAME = **Transient Data Buffer Control**
 CICS/ESA AP Domain
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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	Type	Len	Name (Dim)	Description
Hex				
(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)	BIT(8)	1	*	- Reserved
(12)	CHARACTER	1	MBCAFLG2	- Reserved
(12)	BIT(8)	1	*	- Reserved
(13)	CHARACTER	1	MBCAFLG3	- Reserved
(13)	BIT(8)	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)

MBCA

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

MULTIPLE BUFFERS - BUFFER CONTROL BLOCK (MBCB)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	56	DFHMBCB	MBCB CHAINS
(0)	CHARACTER	12	*	- STATUS SPECIFIC CHAIN
(0)	CHARACTER	8	*	- A(NEXT MBCB)
(0)	ADDRESS	4	MBCBFCHN	- A(PREVIOUS MBCB)
(4)	ADDRESS	4	MBCBBCHN	- STATIC CHAIN
(8)	CHARACTER	4	*	- A(NEXT MBCB) OR 0
(8)	ADDRESS	4	MBCBSCHN	- I/O BUFFER STATUS
(C)	CHARACTER	4	*	- ALLOCATION
(C)	CHARACTER	1	MBCBFLG0	- PREEMPTED
	1... ..		MBCBLCKD	- Reserved
	.111 1111		*	- CONTENTS
(D)	CHARACTER	1	MBCBFLG1	- VALID
	1... ..		MBCBVALD	- Reserved
	.111 1111		*	- ACTIONS
(E)	CHARACTER	1	MBCBFLG2	- WRITE
	1... ..		MBCBPTRQ	- READ
	.1... ..		MBCBGTRQ	- Reserved
	..11 1111		*	- Reserved
(F)	CHARACTER	1	MBCBFLG3	- Reserved
(F)	BIT(8)	1	*	- Reserved
(10)	CHARACTER	24	*	I/O BUFFER PARAMETERS
(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	0	*	

MULTIPLE BUFFERS - QUEUE CONTROL BLOCK (MQCB)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	16	DFHMQCB	QUEUE SPECIFIC CHAIN
(0)	CHARACTER	8	*	

MCA

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

MCA Map control area description

```

MODULE NAME = DFHMCAD
DESCRIPTIVE NAME = CICS MAP CONTROL AREA DESCRIPTION
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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)	STRUCTURE	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
(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

(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
			.1.. ..	MCAMSTDM
(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
			.1.. ..	MCANOSC
			..1.	MCAMHSA
(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

MCB

Offset Hex	Type	Len	Name (Dim)	Description
(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
  @BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
  @BANNER_END
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 DSTATUS
   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)	STRUCTURE	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 @
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

MCB

Offset Hex	Type	Len	Name (Dim)	Description
(10)	ADDRESS	4	MCBCUREP	A(CURRENTLY ACTIVE REPEATED)
(14)	ADDRESS	4	MCBCURPG	A(CURRENT PAGING ENTRY)
(18)	ADDRESS	4	MCBPLDC	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	MCBTSPLFX	TEMPORARY STORAGE RECOVERY PREFIX
(22)	ADDRESS	1	MCBTSPLY	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	MCBFLGS	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" ...WTBK=CURRENT (2741 ONLY)
	.1. .		MCBWBALL	"X'20" ...WTBK=ALL (2741 ONLY)
	...1 .		MCBEODOP	"X'10" ...EODPURG=OPER FOR THIS MESSAGE
	... 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	MCBCHCNT	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. .		MCBPNDUN	"X'40" PAGING NOT COMPLETE
	.1. .		MCBFSDUN	"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.		MCBRDSPL	"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.		MCBDRLCD	"4" DEFAULT REPEATED ENTRY COUNT
THESE FIELDS POSITIONALLY DEPENDENT ON 'MCBCLDCI'				
	.1. 1..		MCBLDCL	*** LDC REPEATED ENTRY LIST
(48)	HALFWORD	2	MCBRCPPAG	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	"TCTTEPGR" 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..		MCBRLDCE	*** END REPEATED ENTRY
	...1 .1.		MCBRLLEN	"MCBRLDCE-MCBRLDCL" LDC REPEATED ENTRY LENGTH
(48)	CHARACTER	0	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		
	1.1.		MCBEXEND	*** END OF TABLE
	1.1.		MCBEXLEN	"MCBEXEND-DFHMCB" LENGTH OF TABLE

MCR

MCR BMS message control record dsect

```

MODULE NAME = DFHMCRDS
DESCRIPTIVE NAME = CICS BMS MESSAGE CONTROL RECORD DSECT
  @BANNER_START 02
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5697-E93
  @BANNER_END
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)	STRUCTURE	0	DFHMCRDS	MCR DUMMY SECTION
(0)	DBL WORD	8	MCRSAAP	STORAGE ACCOUNTING INFORMATION; STORAGE CLASS=USER
	.... 1...		MCRSTART	*** START OF MCR
(8)	FULLWORD	4	MCRLB	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	MCRETLDC	ERROR TERMINAL'S LDC MNEMONIC
(20)	CHARACTER	4	MCRERRID	ID OF TERMINAL TO RECEIVE ERROR NOTIFICATION
(24)	CHARACTER	3	MCRPCL	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	MCRLDLDC	LDC MNEMONIC
(32)	HALFWORD	2	MCRLDPCG	PAGE COUNT PER LDC
(34)	BITSTRING	1	MCRLDCCD	LDC CODE
(35)	CHARACTER	3	MCRPID	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

MCTDR

Offset Hex	Type	Len	Name (Dim)	Description
(39)	BITSTRING 1... ..	1	MCRTEYP MCRTEREM	TYPE OF TERMINAL ENTRY "X'80" REMOTE TERMINAL
(3A)	CHARACTER	8	MCRDSN (0)	DESTINATION NAME IF LOCALLY OWNED TERMINAL
(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.. .1.. ...1 1...	1	MCRIDNXT MCRLNTRY	RESERVED "" LOCATION OF NEXT ID ENTRY "MCRIDNXT-MCRIDLST" MCR TERMINAL LIST ENTRY LENGTH

MCTDR Monitoring Dictionary Entry

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DICTNTRY	

```

MACRO NAME = DFHMCTDR
DESCRIPTIVE NAME = CICS/ESA Monitoring Dictionary entry
@BANNER_ START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_ END
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 ...1 1.1.	8	CMODHEAD CMODNEXT	INFORMAL NAME ""

MGM

MGM MGM format of prototype messages

```

CONTROL BLOCK NAME = DFHMGM TYPE=DSECT
DESCRIPTIVE NAME = CICS MGM Format of Prototype Messages
  @BANNER_START 02
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5697-E93
  @BANNER_END
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)	STRUCTURE	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 MGMDEST				
	..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				
	...1		ETMDDUMP	"X'10" DUMP ON THIS MESSAGE
(6)	ADDRESS	1	ETMGPTN3	SWITCHES - MGMOPTN3
FIELD SAME AS MGMOPTN3				
	1...		ETMG3PID	"X'80" Product id specified
(7)	BITSTRING	1	ETMOFFV	OFFS OF MSG IN STG AREA
(8)	ADDRESS	1	ETMGDESX	DESTINATION EXTENTION BYTE
(9)	CHARACTER	2	ETMGCOMP	Component id
(B)	CHARACTER	3	ETMGPROD	Product id
(E)	HALFWORD	2	ETMGTLN	TOTAL L OF MSG TEXTS.
(10)	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)	STRUCTURE	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

MGM

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	MGMAMAP	*** MAP THE FW ADCONS IN DFHINS ***
(0)	ADDRESS	4	MGMAMSG	A(MGMMDEST)
(4)	ADDRESS	4	MGMAPARM	A(INSERT/MSG TABLE)
	1... ..		MGMAMLST	"X80" LAST FLAG

THIS DSECT DESCRIBES THE FIRST PARAMETER,WHICH IS ALWAYS PRESENT

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	MGMMDEST	*** MESSAGE NO AND DESTINATION CODE ***
(0)	BITSTRING	1	MGMGTYPE	TYPE OF MESSAGE
	.... ..1		MGMGCTE	"X01" MGMAPARM = A(TCTTE)
(1)	CHARACTER	1	MGMGDEST	DESTINATION/ACTION.
	..1.		MGMDETERM	"X20" DEST TERM
	.... 1...		MGMMDRETN	"X08" DEST RETURN TO CALLER
	.... ..1..		MGMMDNNUM	"X04" NO MSG NO. TO BE PRODUCED
	.... ..1..		MGMMDTIOA	"X02" OBTAIN A TIOA
(2)	ADDRESS	2	MGMGNO	MSG NO
(4)	BITSTRING	1	MGMOPTN1	TYPE //A RESERVED
	1...		MGMMD1CDI	"X80" I TYPE MESSAGE
	..1.		MGMMD1CDA	"X40" A TYPE MESSAGE
	..1.		MGMMD1NLS	"X20" NLS MESSAGE
	...1		MGMMDRESP	"X10" MGP Response code required
	.... 1...		MGMMD1CID	"X08" COMP ID PRESENT
	.... ..1..		MGMMD1CNX	"X04" ERRATT=NEXT
	.... ..1..		MGMMD1CNL	"X02" ERRATT=LASTLINE
	.... ..1..		MGMMD1CNE	"X01" ERRATT=NO
(5)	BITSTRING	1	MGMOPTN2	OPTION TWO
	1...		MGMTERAS	"X80" ERASE REQUIRED *
	..1.		MGMTFMHP	"X40" FMH PRESENT
	..1.		MGMTCONV	"X20" CONVERSE REQUIRED
	...1		MGMDDUMP	"X10" DUMP REQUIRED
	.... 1...		MGMDOFFS	"X08" PUT MESSAGE AT AN OFFSET (GIVEN BY VALUE OF MGMOFFV) WITHIN STORAGE AREA *
	.... ..1..		MGMTUNLK	"X04" UNLOCK OPTION REQUIRED
	.... ..1..		MGMTLAST	"X02" LAST OPTION REQUIRED
	.... ..1..		MGMTWAIT	"X01" WAIT OPTION REQUIRED *
(6)	BITSTRING	1	MGMOPTN3	OPTION THREE
	1...		MGM03PID	"X80" PRODUCT ID SPECIFIED
(7)	BITSTRING	1	MGM0FFV	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	3	MGMGPROD	PRODUCT ID
	.... 1111		MGMMDLN	""-MGMMDEST" LENGTH OF MGMMDEST PARM

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	MGININSERT	*** LENGTH AND 'TEXT' OF INSERT ***
(0)	ADDRESS	2	MGINSRSL	LENGTH OF INSERT IF ANY
(2)	CHARACTER	1	MGINSRD	INSERT IF ANY

MNEMP

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.
@BANNER_START 04
OCO Source Materials DFHMNEMP
5697-E93
The source code for the program is not published or otherwise divested of its trade secrets, irrespective of what has been deposited with the @BANNER_END
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_CNSTANT	

*

Constants

Len	Type	Value	Name	Description
EMP constants				
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
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	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)	CHARACTER	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

MNG

Offset Hex	Type	Len	Name (Dim)	Description
(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)
(1B4)	CHARACTER	8	EXCMNNID	NETWORK ID
(1BC)	CHARACTER	8	EXCMNRLU	REAL LUNAME

END OF EXCEPTION RECORD ...

MNG Monitoring domain statistics

```

CONTROL BLOCK NAME = DFHMNGDS
DESCRIPTIVE NAME = CICS Monitoring domain statistics
  @BANNER_START 02
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5697-E93
  @BANNER_END
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)	STRUCTURE	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		Reserved
(24)	FULLWORD	4		Reserved
(28)	FULLWORD	4	MNGRR	No. Resource records
(2C)	FULLWORD	4	MNGRRS	No. Resource records supp. by exit
(30)	BITSTRING	8		Reserved
(38)	HALFWORD	2	MNGFRL	File Resource Limit
(3A)	HALFWORD	2	MNGTRL	Tsqueue Resource Limit
(3C)	BITSTRING	20		Reserved
(50)	BITSTRING	1	MNGWLMMD	Workload Management Mode
	.... ....		MNGCOMP	"X'00" 0 = Compatibility Mode
	.... ...1		MNGGOAL	"X'01" 1 = Goal Mode
(51)	BITSTRING	1	MNGWLMST	WLM Address Space Server status
	.... ....		MNGNSRV	"X'00" 0 = Address Space is Not a Server
	.... ...1		MNGSRV	"X'01" 1 = Address Space is a Server
(52)	BITSTRING	2		Reserved
(54)	CHARACTER	8	MNGWLMSC	WLM Service Class name - if any
(5C)	CHARACTER	8	MNGWLMWN	WLM Owning Workload Name

Offset Hex	Type	Len	Name (Dim)	Description
(64)	CHARACTER	8	MNGWLMRG	WLM Resource Group name - if any
(6C)	CHARACTER	8	MNGWLMRC	WLM Report Class name - if any
(74)	BITSTRING	48		Reserved
	1.1. .1..		MNGEND	***
	1.1. .1..		MNGCLEN	**MNGLEN" Length

MNR Transaction resource monitoring data

CONTROL BLOCK NAME = DFHMNRDS				
DESCRIPTIVE NAME = CICS Monitoring Resource Record				
Descriptions				
@BANNER_START 02				
Licensed Materials - Property of IBM				
"Restricted Materials of IBM"				
5697-E93				
@BANNER_END				
FUNCTION =				
Monitoring Resource record descriptions.				
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 = one				
GLOBAL VARIABLES (Macro pass) = None				

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHMNRDS	, Monitoring Resource Record
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	MNR_LENGTH	Length of resource data
	.1. 1111		MNR_ID_EQUATE	"79" Monitoring domain id mask
(2)	ADDRESS	2	MNR_ID	Monitoring domain id
	.... ..1		MNR_VERSION	"X'01" DSECT version mask
(4)	CHARACTER	1	MNR_DSECT_VERS	DSECT version number
(5)	CHARACTER	3		Reserved
(8)	BITSTRING	32	MNR_HEADER (0)	Header Data
(8)	HALFWORD	2	MNR_HDRLEN	Length of header data
(A)	BITSTRING	2		Reserved
(C)	BITSTRING	8		Reserved
(14)	HALFWORD	2	MNR_TRN	Number of record triplets
(16)	BITSTRING	2		Reserved
(18)	BITSTRING	4	MNR_ISO	Offset to ID data
(1C)	BITSTRING	2	MNR_ISL	Length of ID entry
(1E)	BITSTRING	2	MNR_ISN	Number of ID entries
(20)	BITSTRING	4	MNR_FSO	Offset to File data
(24)	BITSTRING	2	MNR_FSL	Length of File entry
(26)	BITSTRING	2	MNR_FSN	Number of File entries
(28)	BITSTRING	4	MNR_TSO	Offset to TSQueue data
(2C)	BITSTRING	2	MNR_TSL	Length of TSQueue entry
(2E)	BITSTRING	2	MNR_TSN	Number of TSQueue entries
	..1. 1...		MNR_HDR_LENGTH	**MNR_HEADER" Header data length

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	MNR_ID_DATA	Identification Data Entry
(0)	CHARACTER	4	MNR_ID_TRANID	Transaction id
(4)	CHARACTER	4	MNR_ID_TERMID	Terminal id
(8)	CHARACTER	8	MNR_ID_USERID	User id
(10)	CHARACTER	4	MNR_ID_STYPE	Transaction Start type
(14)	BITSTRING	8	MNR_ID_START	Transaction Start time
(1C)	BITSTRING	8	MNR_ID_STOP	Transaction Stop time
(24)	BITSTRING	4	MNR_ID_TASKNO	Transaction Sequence Number
(28)	CHARACTER	8	MNR_ID_LUNAME	VTAM Luname
(30)	CHARACTER	8	MNR_ID_PGMNAME	First program name
(38)	BITSTRING	20	MNR_ID_UOW_PX	Network Unit-of-Work Prefix
(4C)	BITSTRING	8	MNR_ID_UOW_SX	Network Unit-of-Work Suffix
(54)	CHARACTER	4	MNR_ID_RSYSID	Remote sysid routed to
(58)	BITSTRING	8	MNR_ID_TRN_FLAGS	Transaction flags
(60)	CHARACTER	4	MNR_ID_FCTYNAME	Transaction Facility name
(64)	CHARACTER	4	MNR_ID_RTYPE	Resource Record Type
(68)	BITSTRING	4	MNR_ID_TERMINFO (0)	Terminal Information

MNR

Offset Hex	Type	Len	Name (Dim)	Description
(68)	BITSTRING	1	MNR_ID_NATURE	Nature
	.... ....		MNR_ID_	
			NATURE_NOTAPPLIC	"X'00" Not applic
	.... ...1		MNR_ID_	
			NATURE_TERMINAL	"X'01" Terminal
	.... ..1.		MNR_ID_	
			NATURE_SESSION	"X'02" Session
(69)	BITSTRING	1	MNR_ID_SESSTYPE	Session Type
	.... ....		MNR_ID_SESSTYPE_	
			NOTAPPLIC	"X'00" Not applic
	.... ...1		MNR_ID_SESSTYPE_IRC	"X'01" IRC
	.... ..1.		MNR_ID_	
			SESSTYPE_IRC_XM	"X'02" IRC XM
	.... ..11		MNR_ID_	
			SESSTYPE_IRC_XCF	"X'03" IRC XCF
	.... ..1..		MNR_ID_SESSTYPE_LU61	"X'04" LU61
	.... ..1.1		MNR_ID_SESSTYPE_	
			LU62_SING	"X'05" LU62 SINGLE
	.... ..11.		MNR_ID_SESSTYPE_	
			LU62_PARA	"X'06" LU62 PARALLEL
(6A)	BITSTRING	1	MNR_ID_ACMETH	Access method
	.... ....		MNR_ID_	
			ACMETH_NOTAPPLIC	"X'00" Not applic
	.... ...1		MNR_ID_ACMETH_VTAM	"X'01" VTAM
	.... ..1.		MNR_ID_ACMETH_BTAM	"X'02" BTAM
	.... ..11		MNR_ID_ACMETH_BSAM	"X'03" BSAM
	.... ..1..		MNR_ID_ACMETH_TCAM	"X'04" TCAM
	.... ..1.1		MNR_ID_	
			ACMETH_TCAMSNA	"X'05" TCAMSNA
	.... ..11.		MNR_ID_ACMETH_BGAM	"X'06" BGAM
	.... ..111		MNR_ID_	
			ACMETH_CONSOLE	"X'07" CONSOLE
(6B)	BITSTRING	1	MNR_ID_DEVCODE	Device type code See TYPETERM RDO attribute
(6C)	CHARACTER	4	MNR_ID_TERMCONNM	Terminal Connection name
(70)	BITSTRING	4	MNR_ID_RES_FLAGS (0)	Resource flags
(70)	BITSTRING	1	MNR_ID_RES_FLAG1	Resource flag 1
	1...		MNR_FILE_	
			LIMIT_EXCEEDED	"X'80" Resource File limit exceeded
	..1..		MNR_TSQUEUE_	
			LIMIT_EXCEEDED	"X'40" Resource TSQueue limit exceeded
(71)	BITSTRING	3		Reserved
(74)	BITSTRING	8		Reserved
(7C)	BITSTRING	8		Reserved
(84)	BITSTRING	8		Reserved
	1... 11..		MNR_ID_LENGTH	**MNR_ID_DATA" Identification entry data length

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	MNR_FILE_ENTRY	File Entry
(0)	CHARACTER	8	MNR_FILE_NAME	File name
(8)	BITSTRING	8	MNR_FILE_GET	File Get time/count
(10)	BITSTRING	8	MNR_FILE_PUT	File Put time/count
(18)	BITSTRING	8	MNR_FILE_BRWSE	File Browse time/count
(20)	BITSTRING	8	MNR_FILE_ADD	File Add time/count
(28)	BITSTRING	8	MNR_FILE_DEL	File Delete time/count
(30)	BITSTRING	8	MNR_FILE_TOTAL	File Total time/count
(38)	BITSTRING	4	MNR_FILE_AM_RQ	File Access Method request count
(3C)	BITSTRING	4		Reserved
(40)	BITSTRING	8	MNR_FILE_IO_WT	File I/O wait time
(48)	BITSTRING	8	MNR_RLS_FILE_IO_WT	RLS File I/O wait time
(50)	BITSTRING	8	MNR_CFDI_IO_WT	CFDI I/O wait time
(58)	BITSTRING	8		Reserved
	..11.		MNR_FILE_LEN	**MNR_FILE_ENTRY" File entry data length

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	MNR_TSQUEUE_ENTRY	TSQueue Entry
(0)	CHARACTER	16	MNR_TSQUEUE_NAME	TSQueue Name
(10)	BITSTRING	8	MNR_TSQUEUE_GET	TSQueue Get time/count

MNSMF

Offset Hex	Type	Len	Name (Dim)	Description
(18)	BITSTRING	8	MNR_TSQUEUE_PUT_AUX	TSQueue Put Aux time/count
(20)	BITSTRING	8	MNR_TSQUEUE_PUT_MAIN	TSQueue Put Main time/count
(28)	BITSTRING	8	MNR_TSQUEUE_TOTAL	TSQueue Total time/count
(30)	BITSTRING	4		Reserved
(34)	BITSTRING	4	MNR_TSQUEUE_GET_ITEML	TSQueue Get Item length
(38)	BITSTRING	4	MNR_TSQUEUE_PUT_AUX_ITEML	TSQueue Put Aux Item length
(3C)	BITSTRING	4	MNR_TSQUEUE_PUT_MAIN_ITEML	TSQueue Put Main Item length
(40)	BITSTRING	8		Reserved
(48)	BITSTRING	8	MNR_TSQUEUE_IO_WT	TSQueue I/O wait time
(50)	BITSTRING	8	MNR_SHR_TSQUEUE_IO_WT	Shared TSQueue I/O wait time
(58)	BITSTRING	8	MNR_TSQUEUE_LEN	Reserved
.11.				**MNR_TSQUEUE_ENTRY" TSQueue entry data length

MNSMF SMF header and SMF product section

```

MACRO NAME = DFHMNSMF
DESCRIPTIVE NAME = CICS SMF Header and SMF Product Section
                    for Monitoring
    @BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
    @BANNER_END
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	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	MNSMFDS	
(0)	BITSTRING	2	SMFMNLEN	RECORD LENGTH
(2)	BITSTRING	2	SMFMNSEG	SEGMENT DESCRIPTOR
(4)	BITSTRING	1	SMFMNFLG	OPERATING SYSTEM INDICATOR
.11.			SMFMNESA	"XC0" 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

MNSMF

Offset Hex	Type	Len	Name (Dim)	Description
(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	1		RESERVED
(7D)	BITSTRING	1	SMFMNOPN	Monitoring Options
(7E)	CHARACTER	8	SMFMNJB	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
    @BANNER_START 02
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5697-E93
    @BANNER_END
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)	STRUCTURE	0	DFHMNTDS	,
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	MNTLEN	Length of data
	.1.1 .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	TMRTSID	TERM - Terminal identification
(10)	CHARACTER	8	TMRUSID	USERID - User identification
(18)	CHARACTER	4	TMRTRTY	TTYTYPE - Transaction type
(1C)	CHARACTER	8	TMRATTT	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	TCLSNNAME - Transaction class name
(3C)	CHARACTER	8	TMRUNM	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	PERRECENT - 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	TMRTRFLG (0)	TRANFLAG - Transaction flags
(8C)	BITSTRING	1	TMRTRFL1	Transaction Flag 1
	1...		TMRTRFL1_NONE	"X'80" None
	.1.		TMRTRFL1_TERM	"X'40" Terminal Facility
	.1.		TMRTRFL1_SURR	"X'20" Surrogate Terminal Facility
	...1		TMRTRFL1_DEST	"X'10" Destination Facility
	... 1...		TMRTRFL1_BRDG	"X'08" Bridge Facility EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved
(8D)	BITSTRING	1	TMRTRFL2	Transaction Flag 2
	1...		TMRTRFL2_SYSTEM	"X'80" System Transaction
	.1.		TMRTRFL2_MIRROR	"X'40" Mirror Transaction
	.1.		TMRTRFL2_DPL	"X'20" Mirror Transaction - DPL
	...1		TMRTRFL2_ONC_RPC	"X'10" Alias Transaction - ONC/RPC
	.... 1...		TMRTRFL2_WEB	"X'08" Alias Transaction - WEB
	.... .1.		TMRTRFL2_BRIDGE	"X'04" Bridge Transaction EQU X'02' Reserved
	.... ...1		TMRTRFL2_RUN_TRAN	"X'01" BTS Run Transaction
(8E)	BITSTRING	1	TMRTRFL3	Transaction Flag 3
	1...		TMRTRFL3_RPT	"X'80" WLM Report
	.1.		TMRTRFL3_NOTIFY_COMP	"X'40" WLM Notify - Completion
	.1.		TMRTRFL3_NOTIFY	"X'20" WLM Notify
(8F)	BITSTRING	1	TMRTRFL4	Transaction Flag 4
	1...		TMRTRFL4_LOC_BELOW	"X'80" Taskdataloc=below
	.1.		TMRTRFL4_CICS_KEY	"X'40" Taskdatakey=cics
	.1.		TMRTRFL4_ISOLATE_NO	"X'20" Isolate=no

MNT

Offset Hex	Type	Len	Name (Dim)	Description
	...1		TMRTRFL4_DYNAMIC	"X'10" Dynamic=yes EQU X'08' Reserved EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved
(90)	BITSTRING	1	TMRTRFL5	Transaction Flag 5 Transaction origin type
(91)	BITSTRING	1	TMRTRFL6	Transaction Flag 6 - Reserved
(92)	BITSTRING	1	TMRTRFL7	Transaction Flag 7 - Reserved
(93)	BITSTRING	1	TMRTRFL8	Transaction Flag 8
	1...		TMRTRFL8_WAIT_NO	"X'80" Indoubt wait = no
	.1.		TMRTRFL8_COMMIT	"X'40" Indoubt action = commit
	.1.		TMRTRFL8_INDOUBT_ACT	
	...1		TMRTRFL8_UOW_SHUNT	"X'20" UOW Indoubt action
	.... 1...		TMRTRFL8_UOW_UNSHUNT	"X'10" UOW Shunt
	.... .1..		TMRTRFL8_INDBT_FAIL	"X'08" UOW Unshunt
	.... ..1.		TMRTRFL8_RO_FAILURE	"X'04" Indoubt failure
(94)	BITSTRING	4	TMRTEINF (0)	"X'02" Resource Owner failure EQU X'01' Reserved
(94)	BITSTRING	1	TMRNATUR	TERMINFO - Terminal Information
	.... ....		TMRNATUR_NOTAPPLIC	Nature
	.... ...1		TMRNATUR_TERMINAL	"X'00" Not applic
	.... ..1.		TMRNATUR_SESSION	"X'01" Terminal
(95)	BITSTRING	1	TMRSESST	"X'02" Session
	.... ....		TMRSESST_NOTAPPLIC	Session Type
	.... ...1		TMRSESST_IRC	"X'00" Not applic
	.... ..1.		TMRSESST_IRC_XM	"X'01" IRC
	.... ...11		TMRSESST_IRC_XCF	"X'02" IRC XM
	.... .1..		TMRSESST_LU61	"X'03" IRC XCF
	.... .1.1		TMRSESST_LU62_SING	"X'04" LU61
	.... .11.		TMRSESST_LU62_PARA	"X'05" LU62 SINGLE
(96)	BITSTRING	1	TMRACMTH	"X'06" LU62 PARALLEL
	.... ....		TMRACMTH_NOTAPPLIC	Access method
	.... ...1		TMRACMTH_VTAM	"X'00" Not applic
	.... ..1.		TMRACMTH_BTAM	"X'01" VTAM
	.... ...11		TMRACMTH_BSAM	"X'02" BTAM
	.... .1..		TMRACMTH_TCAM	"X'03" BSAM
	.... .1.1		TMRACMTH_TCAMSNA	"X'04" TCAM
	.... .11.		TMRACMTH_BGAM	"X'05" TCAMSNA
	.... .111		TMRACMTH_CONSOLE	"X'06" BGAM
(97)	BITSTRING	1	TMRDVTCOD	"X'07" CONSOLE
(98)	CHARACTER	4	TMRTECNM	Device type code See TYPETERM RDO attribute
(9C)	CHARACTER	4	TMRBTRID	TERMCNM - Terminal Connection name
(A0)	CHARACTER	16	TMRURID	BRDGTRAN - Bridge Transaction id
(B0)	CHARACTER	36	TMRPNAME	RRMSURID - RRMS/MVS Unit of Recovery id
(D4)	CHARACTER	8	TMRPTYPE	PRCSNAME - Process name
(DC)	CHARACTER	52	TMRPCID	PRCSTYPE - Process type
(110)	CHARACTER	52	TMRACTID	PRCSID - Process id
(144)	CHARACTER	16	TMRACTNM	ACTVTYID - Activity id
(154)	CHARACTER	16	TMRICIPAD	ACTVTYNM - Activity name
(164)	BITSTRING	28	TMRTPID	CLIPADDR - Client IP Address
(180)	CHARACTER	8	TMRNETID	TRNGRPID - Transaction Group Id
(188)	CHARACTER	8	TMRRLUNM	NETID - Network id
(190)	CHARACTER	8	TMRRTCPV	RLUNAME - Real Luname
(198)	BITSTRING	4	TMRPORTN	TCPSRVCE - TCP/IP Service name
(19C)	BITSTRING	128	TMRPORTS	PORTNUM - TCP/IP Service port number
(21C)	CHARACTER	4	TMRCBRNM	OTSTID - OTS Transaction id
(220)	CHARACTER	4	TMRERROR	CBSRVVRNM - CorbaServer name
(224)	CHARACTER	4	TMRABCDO	TASKFLAG - Transaction error flags
(228)	CHARACTER	4	TMRABCDC	ABCODEO - Original Transaction abend codes
(22C)	CHARACTER	4	TMRRTYPE	ABCODEC - Current Transaction abend code
	11.. ..11		TMRRTYPE_CONVERSE	RTYPE - Record type
	11.. ..1..		TMRRTYPE_DELIVER	"C'C" Converse
	11.. ..11.		TMRRTYPE_FREQUENCY	"C'D" Deliver
	111. ...1.		TMRRTYPE_SYNCPOINT	"C'F" Frequency
	111. ...11		TMRRTYPE_TERMINATE	"C'S" Syncpoint
(230)	BITSTRING	4	TMRPINMC	"C'T" Terminate
(234)	BITSTRING	4	TMRPCH1C	TCMSGIN1 - Primary TC messages - in
(238)	BITSTRING	4	TMRPCH2C	TCCHRIN1 - Primary TC characters - in
(23C)	BITSTRING	4	TMRPCH3C	TCMSGOU1 - Primary TC messages - out
(240)	BITSTRING	4	TMRPCH4C	TCCHROU1 - Primary TC characters - out
(244)	BITSTRING	4	TMRPCH5C	TCMSGIN2 - Secondary TC messages - in
(248)	BITSTRING	4	TMRPCH6C	TCCHRIN2 - Secondary TC characters - in
(24C)	BITSTRING	4	TMRPCH7C	TCMSGOU2 - Secondary TC messages - out
(250)	BITSTRING	4	TMRPCH8C	TCCHROU2 - Secondary TC characters - out
(254)	BITSTRING	4	TMRPCH9C	TCM62IN2 - Secondary TC msgs for LU6.2. - in
(258)	BITSTRING	4	TMRPCH0C	TCC62IN2 - Secondary TC chars for LU6.2. - in
(25C)	BITSTRING	4	TMRPCH1C	TCM62OU2 - Secondary TC msgs for LU6.2. - out
(260)	BITSTRING	4	TMRPCH2C	TCC62OU2 - Secondary TC chars for LU6.2. - out
(264)	BITSTRING	4	TMRPCH3C	TCALLOCT - No. TCTTE allocate requests
(268)	BITSTRING	4	TMRPCH4C	SCUGETCT - No. user storage getmains below line
(26C)	BITSTRING	4	TMRPCH5C	- No. user storage getmains above line
(270)	BITSTRING	4	TMRPCH6C	SCCGETCT - No. CDSA storage getmains below line
(274)	BITSTRING	4	TMRPCH7C	- No. ECDSA storage getmains above line
(278)	BITSTRING	4	TMRPCH8C	SCUSRHWM - User task storage hwm below line
(27C)	BITSTRING	4	TMRPCH9C	- User task storage hwm above line
(280)	BITSTRING	4	TMRPCH0C	SC24CHWM - CDSA storage hwm below the line
(284)	BITSTRING	8	TMRPCH1C	SC31CHWM - ECDSA storage hwm above the line
			TMRUTSOB	SCUSRSTG - User task stge "occupancy" below line

MNT

Offset Hex	Type	Len	Name (Dim)	Description
(28C)	BITSTRING	8	TMRUTSOA	- User task stge "occupancy" above line
(294)	BITSTRING	8	TMRCOCCB	SC24COCC - CDSA storage "occupancy" below line
(29C)	BITSTRING	8	TMRCOCCA	SC31COCC - ECDSA storage "occupancy" above line
(2A4)	BITSTRING	4	TMRSC24S	SC24SGCT - Shared stg getmain count below 16M
(2A8)	BITSTRING	4	TMRSC24G	SC24GSHR - Shared stg bytes getmain'd
(2AC)	BITSTRING	4	TMRSC24F	SC24FSHR - Shared stg bytes freemain'd
(2B0)	BITSTRING	4	TMRSC31S	SC31SGCT - Shared stg getmain count above 16M
(2B4)	BITSTRING	4	TMRSC31G	SC31GSHR - Shared stg bytes getmain'd
(2B8)	BITSTRING	4	TMRSC31F	SC31FSHR - Shared stg bytes freemain'd
(2BC)	BITSTRING	4	TMRPCUSE	PCSTGHWM - Program storage hwm
(2C0)	BITSTRING	4	TMRPC31A	PC31AHWM - Prog storage hwm above the line
(2C4)	BITSTRING	4	TMRPCUSB	PC24BHWM - Prog storage hwm below the line
(2C8)	BITSTRING	4	TMRPCCAH	PC31CHWM - ECDSA prog storage hwm above
(2CC)	BITSTRING	4	TMRPCCBH	PC24CHWM - CDSA prog storage hwm below
(2D0)	BITSTRING	4	TMRPCRAH	PC31RHWM - R/O prog storage hwm above
(2D4)	BITSTRING	4	TMRPCRBH	PC24RHWM - R/O prog storage hwm below
(2D8)	BITSTRING	4	TMRPCSAH	PC31SHWM - Shared prog storage hwm above
(2DC)	BITSTRING	4	TMRPCSBH	PC24SHWM - Shared prog storage hwm below
(2E0)	BITSTRING	4	TMRFCGC	FCGETCT - No. file gets
(2E4)	BITSTRING	4	TMRFCPC	FCPUTCT - No. file puts
(2E8)	BITSTRING	4	TMRFCBC	FCBRWCT - No. file browses
(2EC)	BITSTRING	4	TMRFCAC	FCADDCT - No. file adds
(2F0)	BITSTRING	4	TMRFCDC	FCDELCT - No. file deletes
(2F4)	BITSTRING	4	TMRFCTC	FCTOTCT - Total FC requests
(2F8)	BITSTRING	4	TMRFCAMC	FCAMCT - No. access method requests
(2FC)	BITSTRING	4	TMRTDGC	TDGETCT - No. transient data gets
(300)	BITSTRING	4	TMRTDPC	TDPUTCT - No. transient data puts
(304)	BITSTRING	4	TMRTDRC	TDPURCT - No. transient data purges
(308)	BITSTRING	4	TMRDTDTC	TDTOTCT - Total TD requests
(30C)	BITSTRING	4	TMRTSGC	TSGETCT - No. temp storage gets
(310)	BITSTRING	4	TMRTPAC	TSPUTACT - No. temp storage puts - aux
(314)	BITSTRING	4	TMRTPMC	TSPUTMCT - No. temp storage puts - main
(318)	BITSTRING	4	TMRSTC	TSTOTCT - Total TS requests
(31C)	BITSTRING	4	TMRBMMC	BMSMAPCT - No. BMS map requests
(320)	BITSTRING	4	TMRBMIC	BMSINCT - No. BMS in requests
(324)	BITSTRING	4	TMRBMOC	BMSOUTCT - No. BMS out requests
(328)	BITSTRING	4	TMRBMTCT	BMSTOTCT - Total BMS requests
(32C)	BITSTRING	4	TMRPCLIC	PCLINKCT - No. program links
(330)	BITSTRING	4	TMRPCXC	PCXCTLCT - No. program xctls
(334)	BITSTRING	4	TMRPCLOC	PCLOADCT - No. program loads
(338)	BITSTRING	4	TMRPCLUC	PCLURMCT - No. program links to URMs
(33C)	BITSTRING	4	TMRPCDPL	PCDPLCT - No. DPL program links
(340)	BITSTRING	4	TMRPCDLL	PCDLCSDL - DPL program links with channel option data length
(344)	BITSTRING	4	TMRPCDRL	PCDLRDL - DPL program returns with channel option data length
(348)	BITSTRING	4	TMRPCLCC	PCLNKCT - No. program links with channel option
(34C)	BITSTRING	4	TMRPCXCC	PCXCLCT - No. program xctls with channel option
(350)	BITSTRING	4	TMRPCDCC	PCDPLCT - DPL program links with channel option
(354)	BITSTRING	4	TMRPCRCC	PCRTNCT - No. program returns with channel option
(358)	BITSTRING	4	TMRPCRCL	PCRTNCDL - No. program returns with channel option data length
(35C)	BITSTRING	4	TMRJNLCT	JNLWRCT - No. journal write requests
(360)	BITSTRING	4	TMRLGWCT	LOGWRCT - No. CICS logger write requests
(364)	BITSTRING	4	TMRICC	ICPUINCT - No. interval control starts
(368)	BITSTRING	4	TMRICTC	ICTOTCT - Total interval control requests
(36C)	BITSTRING	4	TMRICSCC	ICSTACT - No. interval control start reqs with channel option
(370)	BITSTRING	4	TMRICSCD	ICSTACDL - Interval control start reqs with channel option data length
(374)	BITSTRING	4	TMRICSRC	ICSTRCT - No. interval control start reqs with channel option - remote
(378)	BITSTRING	4	TMRICSRD	ICSTRCDL - Interval control start reqs with channel option data length - remote
(37C)	BITSTRING	4	TMRSPPC	SPSYNCT - No. syncpoint requests
(380)	BITSTRING	4	TMRCTACT	CFCAPCT - No. OO Class Library API requests
(384)	BITSTRING	4	TMRSZACT	SZALLOCT - No. FEPI allocates
(388)	BITSTRING	4	TMRSZRCT	SZRCVCT - No. FEPI receives
(38C)	BITSTRING	4	TMRSZSCT	SZSENDCT - No. FEPI sends
(390)	BITSTRING	4	TMRSZTCT	SZSTRCT - No. FEPI starts
(394)	BITSTRING	4	TMRSZCOT	SZCHROUT - No. chars sent via FEPI
(398)	BITSTRING	4	TMRSZCIN	SZCHRIN - No. chars received via FEPI
(39C)	BITSTRING	4	TMRSZATO	SZALLCTO - No. FEPI allocate timeouts
(3A0)	BITSTRING	4	TMRSZRTO	SZRCVTO - No. FEPI receive timeouts
(3A4)	BITSTRING	4	TMRSZTOT	SZTOTCT - Total no. FEPI requests
(3A8)	BITSTRING	4	TMRBARSC	BARSYNCT - No. Run Process/Activity Sync
(3AC)	BITSTRING	4	TMRBARAC	BARASYCT - No. Run Process/Activity Async
(3B0)	BITSTRING	4	TMRBALKC	BALKPACT - No. Link Process/Activity reqs
(3B4)	BITSTRING	4	TMRBADPC	BADPROCT - No. Define Process requests
(3B8)	BITSTRING	4	TMRBADAC	BADACTCT - No. Define Activity requests
(3BC)	BITSTRING	4	TMRBTPAC	BARSPACT - No. Reset Process/Activity requests
(3C0)	BITSTRING	4	TMRBSPAC	BASUPACT - No. Suspend Process/Activity requests
(3C4)	BITSTRING	4	TMRBRPAC	BARMPACT - No. Resume Process/Activity requests
(3C8)	BITSTRING	4	TMRBDCPC	BADCPACT - No. Delete Activity and Cancel Process or Activity requests
(3CC)	BITSTRING	4	TMRBAAPC	BAACQPCT - No. Acquire Process requests
(3D0)	BITSTRING	4	TMRBATPC	BATOTPCT - Total No. Process/Activity requests
(3D4)	BITSTRING	4	TMRBAPDC	BAPRDCT - No. Process Data Container requests
(3D8)	BITSTRING	4	TMRBAADC	BAACDCCT - No. Activity Data Container requests
(3DC)	BITSTRING	4	TMRBATCC	BATOTCCT - Total No. Data Container requests
(3E0)	BITSTRING	4	TMRBAREC	BARATECT - No. Retrieve Reattach Event requests
(3E4)	BITSTRING	4	TMRBADIC	BADFIECT - No. Define Input Event requests
(3E8)	BITSTRING	4	TMRBATAC	BATIAECT - No. Timer Associated Event requests
(3EC)	BITSTRING	4	TMRBATEC	BATOTECT - Total No. Event requests
(3F0)	BITSTRING	4	TMRWBRCCT	WBRCVCT - No. WEB Receive requests
(3F4)	BITSTRING	4	TMRWBCIN	WBCHRIN - No. Characters received via WEB reqs

MNT

Offset Hex	Type	Len	Name (Dim)	Description
(3F8)	BITSTRING	4	TMRWBSC	WSENDCT - No. WEB Send requests
(3FC)	BITSTRING	4	TMRWBCOT	WBCHROUT - No. Characters sent via WEB requests
(400)	BITSTRING	4	TMRWBTC	WBOTCT - Total No. WEB requests
(404)	BITSTRING	4	TMRWBRPR	WBREPRCT - No. Repository Reads
(408)	BITSTRING	4	TMRWBRPW	WBREPWCT - No. Repository Writes
(40C)	BITSTRING	4	TMRWBBERC	WBEXTRCT - No. WEB Extract requests
(410)	BITSTRING	4	TMRWBBERC	WBBRWCT - No. WEB Browse requests
(414)	BITSTRING	4	TMRWBRRRC	WBREADCT - No. WEB Read requests
(418)	BITSTRING	4	TMRWBWRRC	WBWRITET - No. WEB Write requests
(41C)	BITSTRING	4	TMRDHCRC	DHCRECT - No. Document Create requests
(420)	BITSTRING	4	TMRDHINC	DHINSCT - No. Document Insert requests
(424)	BITSTRING	4	TMRDHSTC	DHSETCT - No. Document Set requests
(428)	BITSTRING	4	TMRDHRTC	DHRETCT - No. Document Retrieve requests
(42C)	BITSTRING	4	TMRDHTC	DHTOTCT - Total No. Document requests
(430)	BITSTRING	4	TMRDHTDL	DHTOTDCL - Total Document Created length
(434)	BITSTRING	4	TMRSOBEN	SOBYENCT - No. Bytes Encrypted
(438)	BITSTRING	4	TMRSOBDE	SOBYDECT - No. Bytes Decrypted
(43C)	BITSTRING	4	TMRSOERC	SOEXTRCT - No. Extract TCP/IP and Extract Certificate requests
(440)	BITSTRING	4	TMRSOCNS	SOCNPST - No. Create Non-Persistent Socket reqs
(444)	BITSTRING	4	TMRSOCPS	SOCPSCT - No. Create Persistent Socket reqs
(448)	BITSTRING	4	TMRSONHW	SONPSHWM - Non-Persistent Socket HWM
(44C)	BITSTRING	4	TMR SOPHW	SOPSHWM - Persistent Socket HWM
(450)	BITSTRING	4	TMRSORCT	SORCVCT - No. Socket Receive requests
(454)	BITSTRING	4	TMRSOCIN	SOCHRIN - No. Characters received
(458)	BITSTRING	4	TMRSOCST	SOSENDCT - No. Socket Send requests
(45C)	BITSTRING	4	TMRSOCOT	SOCHROUT - No. Characters sent
(460)	BITSTRING	4	TMR SOTC	SOTOTCT - Total No. Socket requests
(464)	BITSTRING	4	TMR SOIMC	SOMSGIN1 - No. Inbound Socket Receive reqs
(468)	BITSTRING	4	TMR SOI1C	SOCHRIN1 - No. Inbound Socket Characters rec'vd
(46C)	BITSTRING	4	TMR SOOMC	SOMSGOU1 - No. Inbound Socket Send reqs
(470)	BITSTRING	4	TMR SOO1C	SOCHROU1 - No. Inbound Socket Characters sent
(474)	BITSTRING	4	TMRIMSRC	IMSREQCT - Total No. IMS requests
(478)	BITSTRING	4	TMRDB2RC	DB2REQCT - Total No. DB2 requests
(47C)	BITSTRING	4	TMRTCBAC	TCBATTCT - No. CICS Dispatcher TCB Attach's
(480)	BITSTRING	4	TMRDSTHW	DSTCBHWM - CICS Dispatcher TCB HWM
(484)	BITSTRING	4	TMREJBAC	EJBSACCT - No. Bean State Activation requests
(488)	BITSTRING	4	TMREJBPC	EJBSPACT - No. Bean State Passivation requests
(48C)	BITSTRING	4	TMREJBCC	EJBRECT - No. Bean Creation requests
(490)	BITSTRING	4	TMREJBRC	EJBREMCT - No. Bean Removal requests
(494)	BITSTRING	4	TMREJMCT	EJBMTHCT - No. EJB Method Calls
(498)	BITSTRING	4	TMREJBTC	EJBTOTCT - Total No. EJB requests
(49C)	BITSTRING	4	TMRWBROC	WBREDOCT - No. Web Read requests
(4A0)	BITSTRING	4	TMRWBWOC	WBWRTOCT - No. Web Write requests
(4A4)	BITSTRING	4	TMRWBIRC	WBRCVIN1 - No. Web Receive requests
(4A8)	BITSTRING	4	TMRWB11C	WBCHRIN1 - No. Bytes received by Web reqs
(4AC)	BITSTRING	4	TMRWBOSC	WBSNDOU1 - No. Web Send requests
(4B0)	BITSTRING	4	TMRWBO1C	WBCHROU1 - No. Bytes sent by Web send reqs
(4B4)	BITSTRING	4	TMRWBPRC	WBPARSCT - No. Web Parse requests
(4B8)	BITSTRING	4	TMRWBBOC	WBBRWOC - No. Web Browse requests
(4BC)	BITSTRING	4	TMRWBIWC	WBIWBSCT - No. Invoke Webservice requests
(4C0)	BITSTRING	4	TMRWBRDL	WBREPRDL - Repository Read data length
(4C4)	BITSTRING	4	TMRWBWDL	WBREPWDL - Repository Write data length
(4C8)	BITSTRING	4	TMRPGCTC	PGTOTCCT - Total No. channel data container reqs
(4CC)	BITSTRING	4	TMRPGBCC	PGBRWCCCT - No. Browse container channel requests
(4D0)	BITSTRING	4	TMRPGGCC	PGGETCCT - No. Get container channel requests
(4D4)	BITSTRING	4	TMRPGPCC	PGPUTCCT - No. Put container channel requests
(4D8)	BITSTRING	4	TMRPGMCC	PGMOVCCCT - No. Move container channel requests
(4DC)	BITSTRING	4	TMRPGGCL	PGGETCDL - Get container channel data length
(4E0)	BITSTRING	4	TMRPGPCL	PGPUTCDL - Put container channel data length
(4E4)	BITSTRING	4	TMRPGCCC	PGCRECCT - No. Containers created
(4E8)	BITSTRING	8	TMRDIST	USRDISPT - User task Dispatch time
(4F0)	BITSTRING	8	TMRCPUT	USRCPUT - User task Cpu time
(4F8)	BITSTRING	8	TMR SUST	SUSPTIME - Task Suspend time
(500)	BITSTRING	8	TMRDWT	DISPWTT - Dispatch Wait time
(508)	BITSTRING	8	TMRQRDSP	QRDISPT - User task QR Mode Dispatch time
(510)	BITSTRING	8	TMRQRCPU	QRCPUT - User task QR Mode Cpu time
(518)	BITSTRING	8	TMRMSDSP	MSDISPT - User task Other Mode Dispatch time
(520)	BITSTRING	8	TMRMSCPU	MSCPUT - User task Other Mode Cpu time
(528)	BITSTRING	8	TMRRODSP	RODISPT - User task RO Mode Dispatch time
(530)	BITSTRING	8	TMRROCPU	ROCPUT - User task RO Mode Cpu time
(538)	BITSTRING	8	TMRKY8DS	KY8DISPT - User task Key 8 Mode Dispatch time
(540)	BITSTRING	8	TMRKY8CP	KY8CPUT - User task Key 8 Mode Cpu time
(548)	BITSTRING	8	TMRKY9DS	KY9DISPT - User task Key 9 Mode Dispatch time
(550)	BITSTRING	8	TMRKY9CP	KY9CPUT - User task Key 9 Mode Cpu time
(558)	BITSTRING	8	TML8CPU	L8CPUT - User task L8 Mode Cpu time
(560)	BITSTRING	8	TML9CPU	L9CPUT - User task L9 Mode Cpu time
(568)	BITSTRING	8	TMRJ8CPU	J8CPUT - User task J8 Mode Cpu time
(570)	BITSTRING	8	TMR S8CPU	S8CPUT - User task S8 Mode Cpu time
(578)	BITSTRING	8	TMRJ9CPU	J9CPUT - User task J9 Mode Cpu time
(580)	BITSTRING	8	TMRX8CPU	X8CPUT - User task X8 Mode Cpu time
(588)	BITSTRING	8	TMRX9CPU	X9CPUT - User task X9 Mode Cpu time
(590)	BITSTRING	8	TMRQRDLY	QRMODDLY - QR Mode delay time
(598)	BITSTRING	8	TMR OTDLY	MAXOTDLY - Max Open TCB delay time
(5A0)	BITSTRING	8	TMRJTDLY	MAXJTDLY - Max JVM TCB delay time
(5A8)	BITSTRING	8	TMRXTDLY	MAXXTDLY - Max XPLink TCB delay time
(5B0)	BITSTRING	8	TMRSTDLY	MAXSTDLY - Max SSL TCB delay time
(5B8)	BITSTRING	8	TMRDSMWT	DSTCBMWT - Dispatcher TCB Mismatch wait time
(5C0)	BITSTRING	8	TMR CMDLY	DSCHMDLY - CICS TCB Change Mode delay time

MNT

Offset Hex	Type	Len	Name (Dim)	Description
(5C8)	BITSTRING	8	TMREXWT	EXWTTIME - Exception wait time
(5D0)	BITSTRING	8	TMRTCWT	TCIOWTT - TC i/o wait time
(5D8)	BITSTRING	8	TMRFCWT	FCIOWTT - FC i/o wait time
(5E0)	BITSTRING	8	TMRJCWT	JCIOWTT - JC i/o wait time
(5E8)	BITSTRING	8	TMRTSWT	TSIOWTT - TS i/o wait time
(5F0)	BITSTRING	8	TMRIOWTT	IRIOWTT - IR i/o wait time
(5F8)	BITSTRING	8	TMRTDWT	TDIOWTT - TD i/o wait time
(600)	BITSTRING	8	TMRPCLT	PCLOADTM - Program load time
(608)	BITSTRING	8	TMRFDLY	DSPDELAY - 1st Dispatch delay - TCLASS,MXT,etc
(610)	BITSTRING	8	TMRFDTCL	TCLDELAY - 1st Dispatch delay due to TCLASS
(618)	BITSTRING	8	TMRFDMXT	MXTDELAY - 1st Dispatch delay due to MXT
(620)	BITSTRING	8	TMRNQDLY	ENQDELAY - Local ENQ delay time
(628)	BITSTRING	8	TMRGQDLY	GNQDELAY - Global ENQ delay time
(630)	BITSTRING	8	TMR61WT	LU61WTT - LU61 i/o wait time
(638)	BITSTRING	8	TMR62WT	LU62WTT - LU62 i/o wait time
(640)	BITSTRING	8	TMRSZWT	SZWAIT - FEPI suspend time
(648)	BITSTRING	8	TMRMIT	RMITIME - Total RMI elapsed time
(650)	BITSTRING	8	TMRMIS	RMISUSP - Total RMI suspend time
(658)	BITSTRING	8	TMRSYNCT	SYNCTIME - Syncpoint elapsed time
(660)	BITSTRING	8	TMRRLSWT	RLSWAIT - RLS wait time
(668)	BITSTRING	8	TMRRLSCLP	RLSCLPUT - RLS SRB CPU time
(670)	BITSTRING	8	TMRMLDLY	LMDELAY - Lock Mgr delay time
(678)	BITSTRING	8	TMRWXTWT	WTEXWAIT - Wait External wait time
(680)	BITSTRING	8	TMRWCEWT	WTCEWAIT - Wait CICS/Event wait time
(688)	BITSTRING	8	TMRICDLY	ICDELAY - Interval control delay time
(690)	BITSTRING	8	TMRGVPWT	GVUPWAIT - Give up control wait time
(698)	BITSTRING	8	TMRTSHWT	TSSHWAIT - Shared TS wait time
(6A0)	BITSTRING	8	TMRCDTWT	CFDTWAIT - CF Data Table wait time
(6A8)	BITSTRING	8	TMRSYWTT	SRVSYWTT - Server Syncpoint wait time
(6B0)	BITSTRING	8	TMRRRSWT	RRMSWAIT - RRMS/MVS wait time
(6B8)	BITSTRING	8	TMRRTWT	RUNTRWTT - Run Transaction wait time
(6C0)	BITSTRING	8	TMRSDLY	SYNCDLY - Syncpoint delay time
(6C8)	BITSTRING	8	TMRSOWT	SOIOWTT - Socket I/O wait time
(6D0)	BITSTRING	8	TMRIMSWT	IMSWAIT - IMS wait time
(6D8)	BITSTRING	8	TMRRDQWT	DB2RDYQW - DB2 Readyq wait time
(6E0)	BITSTRING	8	TMRCONWT	DB2CONWT - DB2 Connection wait time
(6E8)	BITSTRING	8	TMRDB2WT	DB2WAIT - DB2 wait time
(6F0)	BITSTRING	8	TMRJVMT	JVMTIME - Total JVM elapsed time
(6F8)	BITSTRING	8	TMRJVMS	JVMSUSP - Total JVM suspend time
(700)	BITSTRING	8	TMRSOOWT	SOOIOWTT - Outbound Socket I/O wait time
(708)	BITSTRING	8	TMRQRWT	RQRWAIT - Request Receiver wait time
(710)	BITSTRING	8	TMRQPWT	RQPWAIT - Request Processor wait time
(718)	BITSTRING	8	TMROIDWT	OTSINDWT - OTS Indoubt wait time
(720)	BITSTRING	8	TMRJVMIT	JVMITIME - JVM elapsed time - initialise
(728)	BITSTRING	8	TMRJVMRT	JVMRTIME - JVM elapsed time - resetting
(730)	BITSTRING	8	TMRPTWT	PTPWAIT - Partner wait time
(738)	BITSTRING	8	TMRDSCWT	DSMMSCWT - DS storage constraint wait time
(738)		0	MNTLEN	**MNTLEN" length of DSECT

MRC

MRC Transient data VSAM control

MODULE NAME = DFHMRCPS
 DESCRIPTIVE NAME = **Transient Data VSAM Control**
 CICS/ESA AP Domain
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 FUNCTION =
 Copybook DFHMRCPS provides structures, DFHMRCB and DFHMRSB.
 DFHMRCB describes the String Common Area (MRCA),
 only one MRCA is allocated.
 DFHMRSB 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	DFHMRCB	
(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)	BIT(8)	1	MRCA_DFP_VR	- version, release
(11)	BIT(8)	1	MRCA_DFP_M0	- modification, 0
(12)	BIT(16)	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

MRC

Offset Hex	Type	Len	Name (Dim)	Description
(80)	ADDRESS	4	*	- A(first MWCB) or 0
(84)	CHARACTER	4	MRCAECB	ECB WORD
	1... ..		*	- ECB BYTE
	..1.		MRCACSMI	- CSM BUILD COMPLETE
(84)	BIT(22) POS(3)	3	*	RESERVED
(87)	UNSIGNED	1	MRCAERC1	- RETURN CODE
(88)	CHARACTER	4	*	MRCA STATUS
(88)	CHARACTER	1	MRC AFLG0	- DATASET
	1... ..		MRC AOPEN	- OPENED
	..1.		MRC AESDS	- VSAM ESDS
	...1 1111		MRC ADDST	- DD STATEMENT
			*	- RESERVED
(89)	CHARACTER	1	MRC AFLG1	- CONTENTS
	1... ..		MRC AMPTY	- EMPTY (INITIALLY)
	..1.		MRC AFULL	- FULL
	...1 1111		*	- RESERVED
(8A)	CHARACTER	1	MRC AFLG2	- CSM INITIALIZATION
	1... ..		MRC ACSMR	- REQUIRED
	..1.		MRC ACSMP	- IN PROGRESS
	...1 1111		MRC ACSMC	- COMPLETE
			*	- RESERVED
(8B)	CHARACTER	1	MRC AFLG3	- RESERVED
(8B)	BIT(8)	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	0	*	

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	0	*	

CI STATUS MAP - SEGMENT DESCRIPTOR (MRSD)

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	576	DFHMRS D	
(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'

MWCB

Offset Hex	Type	Len	Name (Dim)	Description
(8)	CHARACTER	8	MRSD_BLOCK	- value - 'MRSD '
(10)	CHARACTER	8	MRSD_STATS	
(10)	FULLWORD	4	MRSD_CIS_ALLOCATED	
(14)	FULLWORD	4	*	CIs allocated
(18)	CHARACTER	20	MRSDPFIX	Reserved
(18)	CHARACTER	4	MRSDPFID	SEGMENT PREFIX
(1C)	FULLWORD	4	MRSDPFLN	- EYE CATCHER
(20)	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	MRSDSFLL	- #(FIRST CI IN SEGMENT)
(238)	FULLWORD	4	MRSDSFUL	- #(LAST CI IN SEGMENT)
(23C)	ADDRESS	4	MRSDSFCN	- A(NEXT SEGMENT) OR 0
(240)	CHARACTER	0	*	

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 = DFHMWCP
DESCRIPTIVE NAME = Transient Data Wait Control
CICS/ESA AP Domain
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
FUNCTION =
Copybook DFHMWCP 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 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	

Offset Hex	Type	Len	Name (Dim)	Description
(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 '
(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)	BITSTRING	1	MWCB_TDQ_FLAG	
			.... ...1	
			MWCB_TDQ_DISCARDED	- Associated queue gone
(21)	CHARACTER	3	*	- reserved
(24)	CHARACTER	4	*	- reserved
(28)	CHARACTER	0	*	- reserved

NCS4D Named counter server CF statistics

```

CONTROL BLOCK NAME = DFHNCS4D
DESCRIPTIVE NAME = CICS Named Counter Server List Str Stats
  @BANNER_START 02
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5697-E93
  @BANNER_END
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)	STRUCTURE	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..	"0124" List structure stats mask
(2)	ADDRESS	2	S4ID	List structure stats id
			.... ...1	"X01" 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	S4KGECT	Inquire KGE
Statistics for internal CF requests.				
(58)	FULLWORD	4	S4ASYCT	Number of asynchronous requests
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

NCS5D

Offset Hex	Type	Len	Name (Dim)	Description
(74)	FULLWORD	4	S4RSP7CT	Structure temporarily unavailable, during system-managed rebuild
	.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				
@BANNER_START 02				
Licensed Materials - Property of IBM				
"Restricted Materials of IBM"				
5697-E93				
@BANNER_END				
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)	STRUCTURE	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	"X01" 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	Storage FREE requests
(30)	FULLWORD	4	S5ANYRQS	GETs which failed to get storage
(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	Storage FREE requests
(60)	FULLWORD	4	S5LOWRQS	GETs which failed to get storage
(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
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	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.. ..		TWAORPL	"X'40" Print VTAM RPL
	.1.		TWAOTCTE	"X'20" Print TCTTE
	...1		TWAOTIOA	"X'10" Print TIOA
	.... 1..		TWAOBIND	"X'08" Print BIND area
	.... .1..		TWAODNTA	"X'04" System dump if no task attached
	.... ..1.		TWAONQN	"X'02" Print NQNAME
	.... ...1		TWAOTNA	"X'01" Print TNADDR
(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..		TWAOBPB	"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		TWAONCN	"X'10" Normal CLSDST (no reset allowed)
	.... 1..		TWAO SCN	"X'08" Normal CLSDST (reset allowed)
	.... .1..		TWAO NEGR	"X'04" Send negative response
	.... ..1.		TWAO OS	"X'02" Keep node out of service
	.... ...1		TWAO CN	"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

NEPCA

Offset Hex	Type	Len	Name (Dim)	Description
(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
Other useful information for NEP				
With the exception of TWANLD, TWANLDL & TWANPFW these fields are READ ONLY				
(24)	BITSTRING	22	TWAADINF (0)	Reserved
(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	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	NEP Class Flag
(30)	BITSTRING	1	TWAEISAB	Stand alone begin bracket indicator
	.... .1..		TWAESAB	"X'04" Stand alone begin bracket
(31)	BITSTRING	3		Reserved
(34)	ADDRESS	4	TWANLD	NEP data pointers
(38)	HALFWORD	2	TWANLDL	Length of NEP data
Additional system parameters				
With the exception of TWAPNETN, TWAPNTID & TWAUPRRRC these fields are READ ONLY				
(3C)	FULLWORD	4	(0)	
(3C)	BITSTRING	68	TWASYSPM (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	TWAUPRRRC	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 = DFHNQGD
 DESCRIPTIVE NAME = CICS Enqueue Manager Statistics
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 @BANNER_END
 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 DFHNQGD 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)	STRUCTURE	0	DFHNQGD	Enqueue Manager Global statistics
(0)	FULLWORD	4	(0)	Fullword alignment
(0)	HALFWORD	2	NQGLN	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
	.... 1...		NQGHEND	*** End of header
	.... 1...		NQGHLEN	***-NQGLN" Length of header
(8)	FULLWORD	4	NQGNPOOL	Number of ENQ pools following
	.... 11..		NQGGEND	*** End of global portion
	.... 11..		NQGGLEN	***-DFHNQGD" Length of header and global part

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)	STRUCTURE	0	NQGBODY	Individual ENQ pool statistics
(0)	CHARACTER	8	NQGPOL	ENQ pool id
(8)	FULLWORD	4	NQGTNQSI	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)

NQUE

Offset Hex	Type	Len	Name (Dim)	Description
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
(64)	FULLWORD	4	NQGTWPPTO	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.

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@BANNER_END

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 UEPNQTK.

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).

NQUE

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)	BIT(8)	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)	BIT(16)	2	*	Reserved

The next 3 bytes (NQ_EIDOPT5 - NQ_EIDOPT7) are the flagword bits.

A user exit program at XNQEREQ can set the NQ_NOSUSPEND_X bit for an ENQ command.

(5)	BIT(8)	1	NQ_EIDOPT5	
(5)	BIT(8)	1	*	Reserved
(6)	BIT(8)	1	NQ_EIDOPT6	
(6)	BIT(8)	1	*	Reserved
(7)	BIT(8)	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
Equate for NQ_GROUP. All ENQ/DEQ requests have group code '12'				
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
  @BANNER_START 02
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  @BANNER_END
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	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	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				

OSPWA

Offset Hex	Type	Len	Name (Dim)	Description
(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	OSPPFSA (2)	PAGE FORMATTING SAVE AREA
(28)	FULLWORD	4	OSPDSBSA (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
(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 RLRLINIT
(30)	FULLWORD	4	OSPBSL14	SAVE AREA FOR RETURN REGISTER FOR RLRLBLD
(48)	FULLWORD	4	(2)	RESERVED
DATA SAVED FROM TCA REQUEST AREA				
(50)	BITSTRING	1	OSPSVDTA	*** BMS REQUEST DATA FROM TCA
	1... ..		OSPTR1	TYPE OF REQUEST BYTE 1
	...1 ..		OSPTRR	"X'80" TYPE = ROUTE
	..1.		OSPREO	"X'40" ERRTERM = ORIG
	...1		OSPRETI	"X'20" ERRTERM = TERMINAL ID
	.... 1...		OSPRI	"X'10" INTRVAL = NUMERIC VALUE
	.... ..1.		OSVRT	"X'08" TIME = NUMERIC VALUE
	.... ..1.		OSPRA	"X'04" LIST = ALL
	.... ..1.		OSPRLSA	"X'02" LIST = SYMBOLIC ADDRESS
	.... ..1		OSPROC	"X'01" OPCLASS = OPERATOR CLASS
(51)	BITSTRING	1	OSPTR2	TYPE OF REQUEST BYTE 2
	1... ..		OSPRTL	"X'80" TITLE = SYMBOLIC ADDRESS
	..1.		OSPTOPT	"X'40" PROPT = NLEOM
	...1		OSPRQI	"X'20" REQID = ALPHANUMERIC VALUE
	.... 1...		OSPTLD	"X'10" LDC = MNEMONIC OR YES
	.... ..1.		OSPIOT	"X'08" IOTYPE = IMMED
	.... ..1.		OSPLPS	"X'04" SEND PARTNSET
	.... ..1.		OSPRIN	"X'02" RECV INTO EXEC COMMAND
	.... ..1		OSPTRG	"X'01" TYPE = PURGE
(52)	BITSTRING	1	OSPTR3	TYPE OF REQUEST BYTE 3
	1... ..		OSPTRLST	"X'80" TYPE = LAST
	..1.		OSPRPR	"X'40" RECEIVE PARTITION
	...1		OSPTRT	"X'20" TYPE=TEXT ON INPUT MAPPING
	.... 1...		OSPHON	"X'20" HONEOM REQUESTED ON OUTPUT MAPPING (EXEC INTERFACE ONLY)
	.... ..1.		OSPTC	"X'10" CURSOR = NUMBER
	.... ..1.		OSPTCWCC	"X'08" CTRL = ANY 3270 WRITE CONTROL CHARACTER
	.... ..1.		OSPTMN	"X'04" MAP = MAP NAME
	.... ..1.		OSPTSA	"X'02" MSETADR = SYMBOLIC ADDRESS OR PSETADR = ADDRESS
	.... ..1		OSPTSN	"X'01" MAPSET = MAP SET NAME
(53)	BITSTRING	1	OSPTR4	TYPE OF REQUEST BYTE 4
	11..		OSPTDY	"X'C0" DATA = YES
	..1.		OSPTDN	"X'40" DATA = NO
	...1		OSPTRS	"X'20" TYPE = SAVE
	.... 1...		OSPTMA	"X'10" MAPADR = SYMBOLIC ADDRESS
	.... ..1.		OSPTRW	"X'08" TYPE = WAIT
	.... ..1.		OSPTRM	"X'04" TYPE = MAP
	.... ..1.		OSPTRF	"X'02" TYPE = ERASE
	.... ..1		OSPTRI	"X'01" TYPE = IN
(54)	BITSTRING	1	OSPTR5	TYPE REQUEST BYTE 5
	1... ..		OSPTRB	"X'80" TYPE = PAGEBLD
	..1.		OSPTRF	"X'40" OFLOW = SYMBOLIC ADDRESS
	...1		OSPTEU	"X'20" TYPE = ERASEAUP
	.... 1...		OSPTFF	"X'10" TYPE = FORMFEED
	.... ..1.		OSPTRLLOC	"X'08" TYPE = LOCATE_MAP
	.... ..1.		OSPTRD	"X'04" TYPE = OUT
	.... ..1.		OSPTRF	"X'02" TYPE = STORE
	.... ..1		OSPTRU	"X'01" TYPE = RETURN
(55)	BITSTRING	1	OSPTR6	TYPE REQUEST BYTE 6
	1... ..		OSPTRP	"X'80" TYPE = PAGEOUT
	..1.		OSPTCAPG	"X'40" CTRL = AUTOPAGE
	...1		OSPTCPG	"X'20" CTRL = PAGE
	.... 1...		OSPTCRET	"X'10" CTRL = RETAIN
	.... ..1.		OSPTCREL	"X'08" CTRL = RELEASE
	.... ..1.		OSPTWBC	"X'04" WTBK = CURRENT
	.... ..1.		OSPTWBA	"X'02" WTBK = ALL
	.... ..1		OSPEODOP	"X'01" EODPURG=OPER
(56)	BITSTRING	1	OSPTR7	TYPE REQUEST BYTE 7
	1... ..		OSPTRX	"X'80" TYPE = TEXTBLD
	..1.		OSPTHDR	"X'40" HEADER = SYMBOLIC ADDRESS
	...1		OSPTRL	"X'20" TRAILER = SYMBOLIC ADDRESS
	.... 1...		OSPJUST	"X'10" JUSTIFY = FIRST, LAST, OR VALUE
	.... ..1.		OSPPOPRT	"X'08" API SPECIFIES OUTPARTN
	.... ..1.		OSPAPRT	"X'04" API SPECIFIES ACTPARTN
	.... ..1.		OSPPGAS	"X'02" PGA SUPPLIED AT END OF DATA. NOTE: TIOATDL MUST INCLUDE THE LENGTH OF THE PGA IF THIS IS SET
	.... ..1		OSPTRN	"X'01" TYPE = NOEDIT
(57)	BITSTRING	1	OSPTR8	TYPE REQUEST BYTE 8
	1... ..		OSPIPRT	"X'80" API SPECIFIES INPARTN

OSPWA

Offset Hex	Type	Len	Name (Dim)	Description
	.1..		OSPMGM	"X'40" MSR SPECIFIED ON API
	..1.		OSPEIC	"X'20" EXEC INTERFACE COMMAND
	...1		OSPTFP	"X'10" FMHPARM = YES OR PARM
	.... 1...		OSPRDA	"X'08" RDATT = SYMBOLIC ADDRESS
	.... .1..		OSPWRB	"X'04" WRBRK = SYMBOLIC ADDRESS
	.... ..1.		OSPSIG	"X'02" SIGNAL = SYMBOLIC ADDRESS
	.... ...1		OSPMGC	"X'01" SEND CONTROL SPECIFIED
	.1.1 1...		OSPTRND	*** END REQUEST BYTE INFORMATION
	.... 1...		OSPTRLEN	"OSPTRND-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	OSDMA (0)	MAP ADDRESS
(60)	CHARACTER	8	OSPMN (0)	MAP NAME
(60)	CHARACTER	8	OSPPSN (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)	ADDRESS	4	OSPRTI	TIME OR INTERVAL FOR TYPE=ROUTE
(68)	ADDRESS	4	OSPMSA (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 DFHBSM
(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	OSPPGCN	PAGE CHAIN NUMBER FOR OUTPUT CHAINING
(96)	HALFWORD	2	OSPPGNO	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	OSPDTP	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	OSPTIOA	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	OSPRETPG	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 RLRLDCTT SUBROUTINE				
(EC)	CHARACTER	1	OSPWKB1	RLRLDCTT WORK AREA 1

OSPWA

Offset Hex	Type	Len	Name (Dim)	Description
(ED)	CHARACTER	1	OSPWKB2	RLRLDCTT WORK AREA 2
(EE)	CHARACTER	2	OSPDELDM	DEFAULT LDC MNEMONIC FROM MAP SET
(F0)	CHARACTER	2	OSPETLDC	ERROR TERMINAL'S LDC MNEMONIC
(F2)	HALFWORD	2	OSP TTCNT	TERMINAL TYPE PARAMETER COUNT
(F4)	HALFWORD	2	OSP TOTPG	TOTAL PAGE COUNT (3601)
(F6)		4	OSP TDEL	INTERVAL OR TIME OF DELIVERY
(FA)	CHARACTER	4	OSP DEL	DATE OF DELIVERY
(FE)	CHARACTER	4	OSP TERID	ID OF TERMINAL TO GET ERROR NOTICE
(102)	CHARACTER	3	OSP OPRCL	OPERATOR CLASS
(105)	BITSTRING	1	OSP IND01	OUTPUT SERVICE PROCESSOR (OSP)
	1... ..		OSP OPPND	"X'80" OUTPUT PENDING IN PAGE BUFFERS
	.1.		OSP RTE	"X'40" LOGICAL MESSAGE UNDER ROUTE REQUEST
	.1.		OSP DELI	"X'20" DELIVERY TIME IS INTERVAL
	...1		OSP IRPGL	"X'10" INITIATE RETURN PAGE LIST, IF NECESSARY
	.... 1...		OSP LMPB	"X'08" LOGICAL MESSAGE IN PAGEBLD MODE
	.... .1..		OSP LMTB	"X'04" LOGICAL MESSAGE IN TEXTBLD MODE
	.... .1..		OSP WAPGO	"X'02" PAGE OVERFLOW IN PROCESS
	.... ...1		OSP DWEP	"X'01" DWE PROCESSING IN PROGRESS
(106)	BITSTRING	1	OSP IND02	OSPWA INDICATOR BYTE 02
	1... ..		OSP BMSSM	"X'80" BMS - SYSTEM MESSAGE
	.1.		OSP PL1	"X'40" REQUESTING PROGRAM IS PL/I
	.1.		OSP LTA	"X'20" LEAVE TCTTEDA - BECAUSE TPP ISSUED WRITE WITHOUT A WAIT
	...1		OSP RUWA	"X'10" RESET UWA STRFIELD HAS BEEN USED IN THIS TRANSACTION
	.... 1...		OSP SRTA	"X'08" SUCCESSFUL 'RESET TO AUTOMATIC PAGING
	.... .1..		OSP LDCOB	"X'04" LDC MNEMONIC ORIGINLY BLANK
	.... .1..		OSP NOMDL	"X'02" DO NOT USE MAPSET DEF LDC
	.... ...1		OSP ASCSA	"X'01" USE ALTERNATE SCREEN/PAGE SIZE
(107)	BITSTRING	1	OSP IND03	OSPWA INDICATOR BYTE 03
	1... ..		OSP LMLDC	"X'80" LOGICAL MESSAGE USES LDCS
	.1.		OSP LMPRT	"X'40" LOGICAL MESSAGE USES PARTITIONS
	.1.		OSP 3270E	"X'20" 3270E INBOUND, SET BY MCP TESTED BY MIN
	...1		OSP NDDS	"X'10" DEVICE DEPENDENT SUFFIXING NOT REQD
	.... 1...		OSP TRAN	"X'08" TIOA ALLOWS FOR TRANS- PARENCY. PASSED BY DFHTOM TO DFHPHP
	.... .1..		OSP DFMAL	"X'04" PRE 1.6 MAPS ALIGNED
	.... .1..		OSP CUMAL	"X'02" CURRENT MAP IS ALIGNED
	.... ...1		OSP NOMAP	"X'01" BYPASS INPUT MAPPING - SET
(108)	BITSTRING	1	OSP IND04	OSPWA INDICATOR BYTE 04
	1... ..		OSP DFHE	"X'80" PRE R1.7 EDF MAP
	.1.		OSP NOSC	"X'40" REMOVE SO/SI CHARS IN DATA BY MCP RECEIVE ROUTINE
	.1.		OSP SOSIM	"X'20" SO/SI ATTRIBUTE EXISTENCE
	...1		OSP FOLD	"X'10" UPPER CASE TRANSLATION NEEDED
	.... 1...		OSP UEDIT	"X'08" GLUE can be called
(109)	BITSTRING	1	OSP ADISP	CURRENTLY ACTIVE DISPOSITION
(10A)	BITSTRING	1	OSP DDISP	DIRECT (ORIGINATING TERMINAL) DISPOSITION
(10B)	BITSTRING	1	OSP RDISP	ROUTING DISPOSITION
(10C)	HALFWORD	2	OSP MAL	MAP ATTRIBUTE LENGTH
(10E)	HALFWORD	2	OSP DAL	DATA STRUCTURE ATTRIBUTE LENGTH
(110)	HALFWORD	2	OSP MLL	OFFSET TO FIRST MAP FIELD
(112)	BITSTRING	4	OSP PFWRK (0)	PAGE FORMATTING WORK AREA
OSP PFWRK'S FIELDS ARE SEQUENCE SENSITIVE TO THE FIELDS IN TTP PFWRK				
(112)	BITSTRING	1	OSP PFCL	CURRENT LINE POINTER
(113)	BITSTRING	1	OSP PFNFL	NEXT AVAILABLE FULL LINE POINTER
(114)	BITSTRING	1	OSP PFNCL	NEXT AVAILABLE COLUMN FROM LEFT
(115)	BITSTRING	1	OSP PFNCR	NEXT AVAILABLE COLUMN FROM RIGHT
TERMINAL PAGE RETRIEVAL PROGRAM COMMAND BUILD AREA				
(115)		0	OSP TPCBA	***
(116)	BITSTRING	1	OSP TPC01	COMMAND BYTE 1
(117)	BITSTRING	1	OSP TPC02 (0)	COMMAND BYTE 2
(117)	BITSTRING	1	OSP TPOS	POSITION BYTE (RETRIEVE, PURGE)
(118)	BITSTRING	1	OSP TCHN	CHAIN NUMBER
(11A)	HALFWORD	2	OSP TPAG	PAGE NUMBER
	.... .1..		OSP TLEN	**OSPTPCBA* COMMAND BUILD AREA LENGTH
BMS RETURN INFORMATION				
(11A)		0	OSP RISTR	***
(11C)	BITSTRING	1	OSP RC1	RETURN CODE BYTE ONE
	1... ..		OSP RF	"X'80" ROUTE FAILED - NO RESOLUTIONS
	.1.		OSP RW	"X'40" ROUTE WORKED - SOME RESOLUTIONS
	.1.		OSP IET	"X'20" INVALID ERROR TERMINAL
	.... 1...		OSP MTL	"X'08" MAP TOO LARGE
	.... .1..		OSP CBM	"X'04" I/O AREA CANNOT BE MAPPED
	.... .1..		OSP RPI	"X'02" PAGE RETURNED INDICATOR
	.... ...1		OSP IR	"X'01" INVALID REQUEST
	.... ....		OSP NR1	"X'00" NORMAL RESPONSE
(11D)	BITSTRING	1	OSP RC2	RETURN CODE BYTE TWO
	1... ..		OSP SIOE	"X'80" TEMPORARY STORAGE I/O ERROR
	.1.		OSP REQCD	"X'40" REQUEST CHANGE DIRECTION ERROR
	.1.		OSP UXI	"X'20" UNEXPECTED INPUT
	...1		OSP IMN	"X'10" INVALID LDC MNEMONIC
	.... 1...		OSP IPS	"X'08" INVALID PARTITION SET NAME
	.... .1..		OSP IPN	"X'04" INVALID PARTITION NAME
	.... .1..		OSP IPF	"X'02" PARTITION FAIL
	.... ...1		OSP DSS	"X'01" DATASET STATUS CHANGE
(11E)	BITSTRING	1	OSP RC3	RETURN CODE BYTE THREE
	...1		OSP GRQI	"X'10" SPECIFIED 'REQID' IGNORED
	.... 1...		OSP EOC	"X'08" END-OF-CHAIN IN LAST INPUT

OSPWA

Offset Hex	Type	Len	Name (Dim)	Description
	.... .1..		OSPEODS	"X'04" END-OF-DATA-SET LAST INPUT
	.... .1.		OSPIFH	"X'02" INBOUND FMH IN LAST INPUT
	.... ...1		OSPOI	"X'01" PAGEBLD OVERFLOW INDICATOR
(11F)	BITSTRING	1	OSPRI1	RETURN INFORMATION BYTE ONE ... IF INVMPsz 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)		0	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)		0	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	OSPINPNM	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	OSPXPID	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	OSPOVTTP	OVERFLOW TTP
(308)	ADDRESS	4	OSPSVTTP	REQUEST TTP WHILE OFTTP IS CURRENT.
(30C)	CHARACTER	12	OSPLBXA (0)	
(30C)	BITSTRING	5	OSPLBX	EXTENDED ATTR VALUES AT BLANK
(311)	BITSTRING	7		RESERVED
(318)	FULLWORD	4	OSPDERSA (6)	DOMAIN CALL REGISTER SAVE AREA
(330)	HALFWORD	2	OSPCUAMC	MODIFIED CURSOR POSITION
(332)	BITSTRING	1	OSPCUA	FLAG BYTE FOR CUA SUPPORT
	1...		OSPCUACL	"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 & DFHXBMS

(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	BMXFDFB	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	**-BMXFDFB" length of variable info
(364)	CHARACTER	1	BMXINTAB (8)	internal array

PCE

Offset Hex	Type	Len	Name (Dim)	Description
(364)		0	OSPEND	"" OSPWA END
(364)		0	OSPLEN	"OSPEND-OSPSTART" LENGTH OF OSPWA

PCE Program control EXEC argument list

CONTROL BLOCK NAME = DFHPCEDS
 DESCRIPTIVE NAME = **CICS Program Control EXEC argument list**
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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_ADDR9
 PC_ADDRA
 PC_GROUP
 PC_FUNCT
 PC_BITS1
 PC_BITS2
 PC_EIDOPT5
 PC_EIDOPT6
 PC_PROGRAM
 PC_LENGTH
 PC_INPUTMSGLEN
 PC_DATALENGTH
 PC_SYSID
 PC_TRANSID
 PC_CHANNEL

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 eleven addresses.
 The eleven addresses are defined by PC_ADDR0 to PC_ADDRA. This DSECT defines PC_ADDR0 to PC_ADDRA 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 UEPCCTOK

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 eleven addresses, that form the EXEC parameter list for Program Control.
 In addition, PC_ADDR1 to PC_ADDR8 and PC_ADDRA may be modified by a user exit.
 PC_ADDR9 is not used.
 Any attempt to modify PC_ADDR0 will be ignored.

PCE

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	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
(24)	ADDRESS	4	PC_ADDR9	Address 9
(28)	ADDRESS	4	PC_ADDR10	Address 10
	..1. 11..		PC_ADDR_LIST_LEN	"*-PC_ADDR_LIST"

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,
PC_EXIST8 and
PC_EXISTA

- (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)	STRUCTURE	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
<p>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.</p>				
(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	PC_BITS2	Second eight existence bits
	1...		PC_EXIST9	"X'80" This bit is not used
	.1..		PC_EXISTA	"X'40" PC_ADDR10 is valid if the command specifies CHANNEL. This bit may be modified by a user exit.
<p>The next byte is reserved.</p>				
(4)	BITSTRING	1	PC_EIDOPT4	Reserved
<p>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.</p>				
(5)	BITSTRING	1	PC_EIDOPT5	Options Byte 1
(6)	BITSTRING	1	PC_EIDOPT6	Options byte 2
	1...		PC_SYNCONRET_X	"X'80" SYNCONRETURN specified

PCE

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)	STRUCTURE	0	PC_DATA1	Addressed by PC_ADDR1
(0)	CHARACTER	8	PC_PROGRAM	program name

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)	STRUCTURE	0	PC_DATA3	Addressed by PC_ADDR3
(0)	HALFWORD	2	PC_LENGTH	Value of 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)	STRUCTURE	0	PC_DATA5	Addressed by PC_ADDR5
(0)	HALFWORD	2	PC_INPUTMSGLEN	Area for LENGTH of INPUTMSG

PC_ADDR6 addresses length of COMMAREA to be sent

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	PC_DATA6	Addressed by PC_ADDR6
(0)	HALFWORD	2	PC_DATALENGTH	Area For DATALENGTH

PC_ADDR7 addresses SYSID

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	PC_DATA7	Addressed by PC_ADDR7
(0)	CHARACTER	4	PC_SYSID	Area For SYSID

PC_ADDR8 addresses TRANSID

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	PC_DATA8	Addressed by PC_ADDR8
(0)	CHARACTER	4	PC_TRANSID	Area For TRANSID

PC_ADDRA addresses CHANNEL

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	PC_DATAA	Addressed by PC_ADDRA
(0)	CHARACTER	16	PC_CHANNEL	Area For CHANNEL name

PCE

Offset Hex	Type	Len	Name (Dim)	Description
Start of general use programming interface. EIBRCODE, EIBRESP and EIBRESP2 Equates for EIBRCODE values used by Program Control				
(10)	BITSTRING	6	PC_OK_EIBRCODE	OK
.... ...1			PC_PGMIDERR_EIBRCODE	"X'01"
.111 1.1.			PC_CHANNELERR_EIBRCODE	"X'7A"
11.1			PC_SYSDERR_EIBRCODE	"X'D0"
111.			PC_INVREQ_EIBRCODE	"X'E0"
111. ...1			PC LENGERR_EIBRCODE	"X'E1"
1111 ...1			PC_TERMERR_EIBRCODE	"X'F1"
11.1 1..1			PC_RESUNAVAIL_EIBRCODE	"X'D9"
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
...1 1.11			PC_PGMIDERR_EIBRESP	"27" program id error
..11 .1.1			PC_SYSDERR_EIBRESP	"53" system id error
1.. .11.			PC_NOTAUTH_EIBRESP	"70" not authorised
1.1 ...1			PC_TERMERR_EIBRESP	"81" terminal error
111 1..1			PC_RESUNAVAIL_EIBRESP	"121" Resource unavailable
.111 1.1.			PC_CHANNELERR_EIBRESP	"122" Channel error
Equates for EIBRESP2 values used by Program Control				
....			PC_OK_EIBRESP2	"0" OK
.... ...1			PC_CHANNELERR_EIBRESP2	"1" Invalid CHANNEL name
.... ...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_SYSDERR_1_EIBRESP2	"18" SYSDERR raised
...1 ...11			PC_INVREQ_5_EIBRESP2	"19" INPUTMSG specified on DPL request
...1 .1..			PC_SYSDERR_2_EIBRESP2	"20" DPL not supported over LU6.1
...1 .1.1			PC_SYSDERR_3_EIBRESP2	"21" Type of request not supported by receiver e.g. LINK CHANNEL to be executed a CICS that does not support CHANNEL
.11. .1.1			PC_NOTAUTH_1_EIBRESP2	"101" resource security check failed
End of general use programming interface.				

PCUES Program control user exits DSECT

CONTROL BLOCK NAME = DFHPCUES
 DESCRIPTIVE NAME = CICS Program control user exits DSECT
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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	80	DFHPCUES	program control user exits work area
(0)	HALFWORD	2	PCUE_LENGTH_ OF_DSECT	
(2)	BIT(8)	1	PCUE_CONTROL_BITS	task has a terminal id
	1... ..		PCUECBTE	program is not EXEC level
	.1... ..		PCUENOTX	real entry point exists
	..1... ..		PCUE_REAL	Resume addr not supported
	...1... ..		PCUE_NO_RESUME	Modified entry addr not supported
	.... 1... ..		PCUE_NO_MODIFY	reserved
	.... .111		*	reserved
(3)	BIT(8)	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
	1... ..		PCUEAMOD	AMODE (31)
(20)	BIT(31) POS(2)	4	*	
(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
	1... ..		PCUE_BRANCH_AMODE	AMODE of program at branch
(34)	BIT(31) POS(2)	4	*	
(38)	BIT(8)	1	PCUE_BRANCH_EXECKEY	Execution key to be used at modified address
(39)	CHARACTER	3	*	Reserved
(3C)	ADDRESS	4	PCUE_REAL_ENTRY	Real entry point for LE program
(40)	CHARACTER	16	PCUE_CHANNEL_NAME	Channel name

PDA

Constants

Len	Type	Value	Name	Description
Constants used by XPCFTCH, XPCHAIR and XPCTA				
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)
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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)	STRUCTURE	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'Ovrm'
(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)	BITSTRING	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	PDRTPCLS	Transaction class name
(90)	CHARACTER	8	PDRVLUNM	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

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Offset Hex	Type	Len	Name (Dim)	Description
(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
(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	TERMCNOM - Terminal Connection name
(F0)	CHARACTER	4	PDRBTRID	BRDGTRAN - 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	PDRPRCID	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)	CHARACTER	8	PDRNETID	NETID - Network id
(1DC)	CHARACTER	8	PDRRLUNM	RLUNAME - Real Luname
(1E4)	CHARACTER	8	PDRTCPV	TCPV - TCP/IP Service name
(1EC)	BITSTRING	4	PDRPORTN	PORTNUM - TCP/IP Port number
(1F0)	BITSTRING	128	PDRSTID	OTSTID - OTS Transaction id
(270)	CHARACTER	4	PDRCBRNM	CBSRVBRNM - CorbaServer name
(274)	BITSTRING	4	PDRRERRR	TASKFLAG - Transaction error flags
(278)	CHARACTER	4	PDRABCD0	Original Transaction abend codes
(27C)	CHARACTER	4	PDRABCDC	Current Transaction abend code
(280)	BITSTRING	3		Reserved
(283)	CHARACTER	1	PDRRRTYPE	Performance record type
	11.. ..11		PDRRRTYPE_CONVERSE	"C'C" Converse
	11.. .1..		PDRRRTYPE_DELIVER	"C'D" Deliver
	11.. .11.		PDRRRTYPE_FREQUENCY	"C'F" Frequency

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Offset Hex	Type	Len	Name (Dim)	Description
	111. .1.		PDRRTYPE_SYNCPOINT	"C'S" Syncpoint
	111. .11		PDRRTYPE_TERMINATE	"C'T" Terminate
(284)	BITSTRING	4	PDRPINMC	Primary TC messages - in
(288)	BITSTRING	4	PDRTCI1C	Primary TC characters - in
(28C)	BITSTRING	4	PDRPOUMC	Primary TC messages - out
(290)	BITSTRING	4	PDRTCO1C	Primary TC characters - out
(294)	BITSTRING	4	PDRSINMC	Secondary TC messages - in
(298)	BITSTRING	4	PDRTCI2C	Secondary TC characters - in
(29C)	BITSTRING	4	PDRSOUMC	Secondary TC messages - out
(2A0)	BITSTRING	4	PDRTCO2C	Secondary TC characters - out
(2A4)	BITSTRING	4	PDR62IMC	Secondary TC msgs for LU6.2. - in
(2A8)	BITSTRING	4	PDR62ICH	Secondary TC chars for LU6.2. - in
(2AC)	BITSTRING	4	PDR62OMC	Secondary TC msgs for LU6.2. - out
(2B0)	BITSTRING	4	PDR62OCH	Secondary TC chars for LU6.2. - out
(2B4)	BITSTRING	4	PDRTAC	No. TCTTE allocate requests
(2B8)	BITSTRING	4	PDRSCUGB	User stg getmain count below 16M
(2BC)	BITSTRING	4	PDRSCUGA	User stg getmain count above 16M
(2C0)	BITSTRING	4	PDRSCGGB	CDSA stg getmain count below 16M
(2C4)	BITSTRING	4	PDRSCCGA	ECDSA stg getmain count above 16M
(2C8)	BITSTRING	4	PDRUSHWB	User task storage HWM below 16M
(2CC)	BITSTRING	4	PDRUSHWA	User task storage HWM above 16M
(2D0)	BITSTRING	4	PDRCHWMB	CDSA storage HWM below the 16M
(2D4)	BITSTRING	4	PDRCHWMA	ECDSA storage HWM above the 16M
(2D8)	BITSTRING	8	PDRUTSOB	User task stg "occupancy" below 16M
(2E0)	BITSTRING	8	PDRUTSOA	User task stg "occupancy" above 16M
(2E8)	BITSTRING	8	PDRCOCCB	CDSA storage "occupancy" below 16M
(2F0)	BITSTRING	8	PDRCOCCA	ECDSA storage "occupancy" above 16M
(2F8)	BITSTRING	4	PDRSC24S	Shared stg getmain count below 16M
(2FC)	BITSTRING	4	PDRSC24G	Shared stg bytes getmain'd
(300)	BITSTRING	4	PDRSC24F	Shared stg bytes freemain'd
(304)	BITSTRING	4	PDRSC31S	Shared stg getmain count above 16M
(308)	BITSTRING	4	PDRSC31G	Shared stg bytes getmain'd
(30C)	BITSTRING	4	PDRSC31F	Shared stg bytes freemain'd
(310)	BITSTRING	4	PDRPCUSE	Program storage HWM
(314)	BITSTRING	4	PDRPC31A	Program storage HWM above 16M
(318)	BITSTRING	4	PDRPCUSB	Program storage HWM below 16M
(31C)	BITSTRING	4	PDRPCCAH	ECDSA CICS program storage HWM
(320)	BITSTRING	4	PDRPCCBH	CDSA CICS program storage HWM
(324)	BITSTRING	4	PDRPCRAH	ERDSA R/O program storage HWM
(328)	BITSTRING	4	PDRPCRBH	RDSEA R/O program storage HWM
(32C)	BITSTRING	4	PDRPCSAH	ESDSA Shared program storage HWM
(330)	BITSTRING	4	PDRPCSBH	SDSEA Shared program storage HWM
(334)	BITSTRING	4	PDRFCGC	No. file gets
(338)	BITSTRING	4	PDRFCPC	No. file puts
(33C)	BITSTRING	4	PDRFCBC	No. file browses
(340)	BITSTRING	4	PDRFCAC	No. file adds
(344)	BITSTRING	4	PDRFCDC	No. file deletes
(348)	BITSTRING	4	PDRFCTC	Total FC requests
(34C)	BITSTRING	4	PDRFCAMC	No. access method requests
(350)	BITSTRING	4	PDRTDGC	No. transient data gets
(354)	BITSTRING	4	PDRTDPC	No. transient data puts
(358)	BITSTRING	4	PDRTDRC	No. transient data purges
(35C)	BITSTRING	4	PDRTDTC	Total TD requests
(360)	BITSTRING	4	PDRTSGC	No. temp storage gets
(364)	BITSTRING	4	PDRTSPAC	No. temp storage puts - aux
(368)	BITSTRING	4	PDRTSPMC	No. temp storage puts - main
(36C)	BITSTRING	4	PDRTSTC	Total TS requests
(370)	BITSTRING	4	PDRBMMC	No. BMS map requests
(374)	BITSTRING	4	PDRBMIC	No. BMS in requests
(378)	BITSTRING	4	PDRBMOC	No. BMS out requests
(37C)	BITSTRING	4	PDRBMTC	Total BMS requests
(380)	BITSTRING	4	PDRPCLIC	No. program links
(384)	BITSTRING	4	PDRPCXC	No. program xctls
(388)	BITSTRING	4	PDRPCLOC	No. program loads
(38C)	BITSTRING	4	PDRPCLUC	No. program links to URM's
(390)	BITSTRING	4	PDRPCDPL	No. DPL program links
(394)	BITSTRING	4	PDRPCDLL	DPL program links with channel option data length
(398)	BITSTRING	4	PDRPCDRL	DPL program returns with channel option data length
(39C)	BITSTRING	4	PDRPCLCC	No. program links with channel option
(3A0)	BITSTRING	4	PDRPCXCC	No. program xctls with channel option
(3A4)	BITSTRING	4	PDRPCDCC	DPL program links with channel option
(3A8)	BITSTRING	4	PDRPCRCC	No. program returns with channel option
(3AC)	BITSTRING	4	PDRPCRCL	No. program returns with channel option data length
(3B0)	BITSTRING	4	PDRJNLCT	No. journal write requests
(3B4)	BITSTRING	4	PDRLGWCT	No. CICS logger write requests
(3B8)	BITSTRING	4	PDRICC	No. interval control starts
(3BC)	BITSTRING	4	PDRICTC	Total interval control requests
(3C0)	BITSTRING	4	PDRICSCC	No. interval control start reqs with channel option
(3C4)	BITSTRING	4	PDRICSCD	Interval control start reqs with channel option data length
(3C8)	BITSTRING	4	PDRICSRC	No. interval control start reqs with channel option - remote
(3CC)	BITSTRING	4	PDRICSRD	Interval control start reqs with channel option data length - remote
(3D0)	BITSTRING	4	PDRSPPC	No. syncpoint requests
(3D4)	BITSTRING	4	PDRCFACT	No. OO Class Libary API requests
(3D8)	BITSTRING	4	PDRSZACT	No. FEPI allocates
(3DC)	BITSTRING	4	PDRSZRCT	No. FEPI receives
(3E0)	BITSTRING	4	PDRSZSCT	No. FEPI sends
(3E4)	BITSTRING	4	PDRSZTCT	No. FEPI starts
(3E8)	BITSTRING	4	PDRSZCOT	No. chars sent via FEPI

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Offset Hex	Type	Len	Name (Dim)	Description
(3E3)	BITSTRING	4	PDRSZCIN	No. chars received via FEPI
(3F0)	BITSTRING	4	PDRSZATO	No. FEPI allocate timeouts
(3F4)	BITSTRING	4	PDRSZRTO	No. FEPI receive timeouts
(3F8)	BITSTRING	4	PDRSZTOT	Total no. FEPI requests
(3FC)	BITSTRING	4	PDRBARSC	No. Run Process/Activity Sync
(400)	BITSTRING	4	PDRBARAC	No. Run Process/Activity Async
(404)	BITSTRING	4	PDRBALKC	No. Link Process/Activity reqs
(408)	BITSTRING	4	PDRBADPC	No. Define Process requests
(40C)	BITSTRING	4	PDRBADAC	No. Define Activity requests
(410)	BITSTRING	4	PDRBTPAC	No. Reset Process/Activity reqs
(414)	BITSTRING	4	PDRBSPAC	No. Suspend Process/Activity reqs
(418)	BITSTRING	4	PDRBRPAC	No. Resume Process/Activity reqs
(41C)	BITSTRING	4	PDRBDCPC	No. Delete/Cancel requests
(420)	BITSTRING	4	PDRBAAPC	No. Acquire Process requests
(424)	BITSTRING	4	PDRBATPC	Total No. Process/Activity reqs
(428)	BITSTRING	4	PDRBAPDC	No. Process Container requests
(42C)	BITSTRING	4	PDRBAADC	No. Activity Container requests
(430)	BITSTRING	4	PDRBATCC	Total No. Container requests
(434)	BITSTRING	4	PDRBAREC	No. Reattach Event requests
(438)	BITSTRING	4	PDRBADIC	No. Define Input Event requests
(43C)	BITSTRING	4	PDRBATAAC	No. Timer Associated Event requests
(440)	BITSTRING	4	PDRBATEC	Total no. Event requests
(444)	BITSTRING	4	PDRWBRCT	No. WEB Receive requests
(448)	BITSTRING	4	PDRWBCIN	No. Characters received via WEB reqs
(44C)	BITSTRING	4	PDRWBSCT	No. WEB Send requests
(450)	BITSTRING	4	PDRWBCOT	No. Characters sent via WEB requests
(454)	BITSTRING	4	PDRWBTC	Total No. WEB requests
(458)	BITSTRING	4	PDRWBRPR	No. Repository Reads
(45C)	BITSTRING	4	PDRWBRPW	No. Repository Writes
(460)	BITSTRING	4	PDRWBERC	No. WEB Extract requests
(464)	BITSTRING	4	PDRWBBC	No. WEB Browse requests
(468)	BITSTRING	4	PDRWBRR	No. WEB Read requests
(46C)	BITSTRING	4	PDRWBWRC	No. WEB Write requests
(470)	BITSTRING	4	PDRDHCRC	No. Document Create requests
(474)	BITSTRING	4	PDRDHINC	No. Document Insert requests
(478)	BITSTRING	4	PDRDHSTC	No. Document Set requests
(47C)	BITSTRING	4	PDRDHRTC	No. Document Retrieve requests
(480)	BITSTRING	4	PDRDHTC	Total No. Document requests
(484)	BITSTRING	4	PDRDHTDL	Total Document Created length
(488)	BITSTRING	4	PDRSOBEN	No. Bytes Encrypted
(48C)	BITSTRING	4	PDRSOBDE	No. Bytes Decrypted
(490)	BITSTRING	4	PDRSOERC	No. Extract TCP/IP and Extract Certificate requests
(494)	BITSTRING	4	PDRSOCNS	No. Create Non-Persistent Socket req
(498)	BITSTRING	4	PDRSOCPS	No. Create Persistent Socket req
(49C)	BITSTRING	4	PDRSONHW	Non-Persistent Socket HWM
(4A0)	BITSTRING	4	PDRSOPHW	Persistent Socket HWM
(4A4)	BITSTRING	4	PDRSORCT	No. Socket Receive requests
(4A8)	BITSTRING	4	PDRSOCIN	No. Characters received
(4AC)	BITSTRING	4	PDRSOSCT	No. Socket Send requests
(4B0)	BITSTRING	4	PDRSOCOT	No. Characters sent
(4B4)	BITSTRING	4	PDRSOTC	Total No. Socket requests
(4B8)	BITSTRING	4	PDRSOIMC	No. Inbound Socket Receive reqs
(4BC)	BITSTRING	4	PDRSOI1C	No. Inbound Socket Characters rcv'd
(4C0)	BITSTRING	4	PDRSOOMC	No. Inbound Socket Send reqs
(4C4)	BITSTRING	4	PDRSOO1C	No. Inbound Socket Characters sent
(4C8)	BITSTRING	4	PDRIMSRC	Total No. IMS requests
(4CC)	BITSTRING	4	PDRDB2RC	Total No. DB2 requests
(4D0)	BITSTRING	4	PDRTCBAC	No. CICS Dispatcher TCB Attach's
(4D4)	BITSTRING	4	PDRDSTHW	CICS Dispatcher TCB HWM
(4D8)	BITSTRING	4	PDREJBAC	No. Bean State Activation requests
(4DC)	BITSTRING	4	PDREJBPC	No. Bean State Passivation requests
(4E0)	BITSTRING	4	PDREJBCC	No. Bean Creation requests
(4E4)	BITSTRING	4	PDREJBRC	No. Bean Removal requests
(4E8)	BITSTRING	4	PDREJMCT	No. EJB Method Calls
(4EC)	BITSTRING	4	PDREJBTC	Total No. EJB requests
(4F0)	BITSTRING	4	PDRWBROC	No. Web Read requests
(4F4)	BITSTRING	4	PDRWBWOC	No. Web Write requests
(4F8)	BITSTRING	4	PDRWBIRC	No. Web Receive requests
(4FC)	BITSTRING	4	PDRWB11C	No. Bytes received by Web reqs
(500)	BITSTRING	4	PDRWBOSC	No. Web Send requests
(504)	BITSTRING	4	PDRWBO1C	No. Bytes sent by Web send reqs
(508)	BITSTRING	4	PDRWBPRC	No. Web Parse requests
(50C)	BITSTRING	4	PDRWBBOC	No. Web Browse requests
(510)	BITSTRING	4	PDRWBIWC	No. Invoke Webservice requests
(514)	BITSTRING	4	PDRWBRDL	Repository Read data length
(518)	BITSTRING	4	PDRWBWDL	Repository Write data length
(51C)	BITSTRING	4	PDRPGCTC	Total No. channel data container requests
(520)	BITSTRING	4	PDRPGBCC	No. Browse container channel requests
(524)	BITSTRING	4	PDRPGGCC	No. Get container channel requests
(528)	BITSTRING	4	PDRPGPCC	No. Put container channel requests
(52C)	BITSTRING	4	PDRPGMCC	No. Move container channel requests
(530)	BITSTRING	4	PDRPGGCL	Get container channel data length
(534)	BITSTRING	4	PDRPGPCL	Put container channel data length
(538)	BITSTRING	4	PDRPGCCC	No. Containers created
(53C)	BITSTRING	8	PDRDIST	User task dispatch time
(544)	BITSTRING	8	PDRCPUT	User task cpu time
(54C)	BITSTRING	8	PDRSUST	Task suspend time
(554)	BITSTRING	8	PDRDWT	Dispatch wait time

PDA

Offset Hex	Type	Len	Name (Dim)	Description
(55C)	BITSTRING	8	PDRQRDSP	User task QR Mode dispatch time
(564)	BITSTRING	8	PDRQRCPU	User task QR Mode cpu time
(56C)	BITSTRING	8	PDRMSDSP	User task Other Mode dispatch time
(574)	BITSTRING	8	PDRMSCPU	User task Other Mode cpu time
(57C)	BITSTRING	8	PDRRODSP	User task RO Mode dispatch time
(584)	BITSTRING	8	PDRROCPU	User task RO Mode cpu time
(58C)	BITSTRING	8	PDRKY8DS	User task Key 8 Mode Dispatch time
(594)	BITSTRING	8	PDRKY8CP	User task Key 8 Mode Cpu time
(59C)	BITSTRING	8	PDRKY9DS	User task Key 9 Mode Dispatch time
(5A4)	BITSTRING	8	PDRKY9CP	User task Key 9 Mode Cpu time
(5AC)	BITSTRING	8	PDLR8CPU	User task L8 Mode cpu time
(5B4)	BITSTRING	8	PDLR9CPU	User task L9 Mode cpu time
(5BC)	BITSTRING	8	PDRJ8CPU	User task J8 Mode cpu time
(5C4)	BITSTRING	8	PDRS8CPU	User task S8 Mode cpu time
(5CC)	BITSTRING	8	PDRJ9CPU	User task J9 Mode cpu time
(5D4)	BITSTRING	8	PDRX8CPU	User task X8 Mode cpu time
(5DC)	BITSTRING	8	PDRX9CPU	User task X9 Mode cpu time
(5E4)	BITSTRING	8	PDRQRDLY	QR Mode delay time
(5EC)	BITSTRING	8	PDRDLY	Max Open TCB delay time
(5F4)	BITSTRING	8	PDRJTDLY	Max JVM TCB delay time
(5FC)	BITSTRING	8	PDRXTDLY	Max XPLink TCB delay time
(604)	BITSTRING	8	PDRSTDLY	Max SSL TCB delay time
(60C)	BITSTRING	8	PDRDSMWT	Dispatcher TCB Mismatch wait time
(614)	BITSTRING	8	PDRCMDLY	CICS TCB Change Mode delay time
(61C)	BITSTRING	8	PDRXWT	Exception wait time
(624)	BITSTRING	8	PDRTCWT	TC i/o wait time
(62C)	BITSTRING	8	PDRFCWT	FC i/o wait time
(634)	BITSTRING	8	PDRJCWT	JC i/o wait time
(63C)	BITSTRING	8	PDRTSWT	TS i/o wait time
(644)	BITSTRING	8	PDRIRWT	IR i/o wait time
(64C)	BITSTRING	8	PDRTDWT	TD i/o wait time
(654)	BITSTRING	8	PDRPCLT	Program load time
(65C)	BITSTRING	8	PDRFDDLY	1st Dispatch delay - TCLASS,MXT,etc
(664)	BITSTRING	8	PDRFDTCL	1st Dispatch delay due to TCLASS
(66C)	BITSTRING	8	PDRFDMXT	1st Dispatch delay due to MXT
(674)	BITSTRING	8	PDRNQDLY	Local ENQ delay time
(67C)	BITSTRING	8	PDRGQDLY	Global ENQ delay time
(684)	BITSTRING	8	PDR61WT	LU61 i/o wait time
(68C)	BITSTRING	8	PDR62WT	LU62 i/o wait time
(694)	BITSTRING	8	PDRSZWT	FEPI suspend time
(69C)	BITSTRING	8	PDRRMIT	Total RMI elapsed time
(6A4)	BITSTRING	8	PDRRMIS	Total RMI suspend time
(6AC)	BITSTRING	8	PDRSYNCT	Syncpoint elapsed time
(6B4)	BITSTRING	8	PDRRLSWT	RLS wait time
(6BC)	BITSTRING	8	PDRRLSCP	RLS SRB CPU time
(6C4)	BITSTRING	8	PDRRLMDLY	Lock Mgr delay time
(6CC)	BITSTRING	8	PDRWTXWT	External wait time
(6D4)	BITSTRING	8	PDRWCEWT	Cics/Event wait time
(6DC)	BITSTRING	8	PDRICDLY	Interval control delay time
(6E4)	BITSTRING	8	PDRGVPWT	Give up control wait time
(6EC)	BITSTRING	8	PDRTSHWT	Shared TS wait time
(6F4)	BITSTRING	8	PDRCDTWT	CF Data Table wait time
(6FC)	BITSTRING	8	PDRSYWTT	Server Syncpoint wait time
(704)	BITSTRING	8	PDRRRSWT	RRMS/MVS wait time
(70C)	BITSTRING	8	PDRRTRWT	Run Transaction wait time
(714)	BITSTRING	8	PDRSYDLY	Syncpoint delay time
(71C)	BITSTRING	8	PDRSOWT	Socket I/O wait time
(724)	BITSTRING	8	PDRIMSWT	IMS wait time
(72C)	BITSTRING	8	PDRRDQWT	DB2 Readyq wait time
(734)	BITSTRING	8	PDRCONWT	DB2 Connection wait time
(73C)	BITSTRING	8	PDRDB2WT	DB2 wait time
(744)	BITSTRING	8	PDRJVMT	Total JVM elapsed time
(74C)	BITSTRING	8	PDRJVMS	Total JVM suspend time
(754)	BITSTRING	8	PDRSOOWT	Outbound Socket I/O wait time
(75C)	BITSTRING	8	PDRRQRWT	Request Receiver wait time
(764)	BITSTRING	8	PDRRQPWT	Request Processor wait time
(76C)	BITSTRING	8	PDRDOWT	OTS Indoubt wait time
(774)	BITSTRING	8	PDRJVMIT	JVM elapsed time - initialise
(77C)	BITSTRING	8	PDRJVMRT	JVM elapsed time - resetting
(784)	BITSTRING	8	PDRPTPWT	Partner wait time
(78C)	BITSTRING	8	PDRDSCWT	DS storage constraint wait time
(794)	FULLWORD	4	PDRUEND (0)	
(794)		0	MNPDRLEN	"*-DFHMPDA" Performance Data Record length

PEP Program error program commarea

Module Name = DFHPCOMS
Descriptive Name = Commarea for User Program Error Program
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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	regs at abend
			(16)	
(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

PFT

Constants

Len	Type	Value	Name	Description
PEP_COM_RETURN_CODE values				
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
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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 = locatd 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)	BIT(8)	1	PPFFLAGS	FLAGS
	1...		PPFDYNA	ENTRY DYNAMICALLY ADDED
	.111 1111		*	RESERVED
(D)	CHARACTER	3	*	RESERVED
(10)	CHARACTER	5	PPFJINF	5 BYTES MOVED TO TCTTE
(10)	BIT(8)	1	PPFMIOAJ	TERMINAL MSG I/O & JOURNAL
	1...		PPFMFMHA	ALL FMH'S TO APPLICATION
	.1.		PPFMFMHE	(EODS)
	..1.		PPFMIMIO	RESERVED
	...1		PPFMDLIO	RESERVED
	.... 1..		PPFMFMHD	(DIP)
	.... .1.		PPFMLRQ	LOGICAL REC PRESENT REQUIRED
	.... ..1.		PPFMJLI	AUTO INPUT MSG JOURNALLING
	.... ...1		PPFMJLO	AUTO OUTPUT MSG JOURNALLING

PFT

Offset Hex	Type	Len	Name (Dim)	Description
(11)	BIT(8)	1	PPFEXTOP	EXTRACT OPTIONS
	1... ..		PPFEXNO	EXTRACT=NO
	.1... ..		PPFEXAT	EXTRACT=ATTACH
	..1... ..		*	RESERVED
	...1... ..		*	RESERVED
	.... 1... ..		*	RESERVED
	.... .1... ..		*	RESERVED
	.... ..1... ..		*	RESERVED
	.... ...1		*	RESERVED
(12)	BIT(8)	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	PPFMPCRQ	TERMINAL MSG PROT.REQUIRED
(15)	BIT(8)	1	*	1ST BYTE
(16)	BIT(8)	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)	BIT(8)	1	*	1ST BYTE
(18)	BIT(8)	1	PPFMOFLG	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	PPFTRTO	READ TIMEOUT
(1B)	CHARACTER	8	PPFMDEN	MODENAME
(23)	BIT(8)	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	*	RESERVED
(25)	BIT(8)	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	PPFFACLK	FACILITYLIKE

PGA

PGA BMS page control area DSECT

```

MODULE NAME = DFHPGADS
DESCRIPTIVE NAME = CICS BMS PAGE CONTROL AREA DSECT
  @BANNER_START 02
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5697-E93
  @BANNER_END
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)	STRUCTURE	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	"X80" ...ERASE WITH WRITE @
	.1.. ..		PGAOFBYS	"X40" ...OBF USED IN THIS PAGE
	.1.. ..		PGAFF	"X40" ...FORM FEED ON THIS PAGE
	..1.		PGAML1	"X20" ...ML1 FORMATTED THIS PAGE
	.... .1..		PGA16BIT	"X04" ...14- OR 16-BIT SBAS
	.... .1.		PGAWSFYS	"X02" ...WSF NEEDED FOR THIS PAGE
	.... ..1		PGAFMHYS	"X01" ...FMH PRESENT IN THIS PAGE
(3)	BITSTRING	1	PGAWCC	3270 WRITE CONTROL CHARACTER @
	.... .1..		PGAEND	*** END OF PAGE CONTROL AREA @
	.... .1..		PGALEN	"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

@BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END

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_API - CICSAPI or OPENAPI
 PGAC_JVM - the program is to be run under the JVM
 PGAC_JVM_CLASS_LENGTH - length of JVM class name data
 PGAC_JVM_CLASS_DATA - the JVM class name data
 PGAC_JVM_PROFID - the JVM profile member name
 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	312	PGAC	
(0)	CHARACTER	8	PGAC_PROGRAM	
(8)	CHARACTER	1	PGAC_MODULE_TYPE	
(9)	CHARACTER	34	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	

PGACC

Offset Hex	Type	Len	Name (Dim)	Description
(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	
(28)	CHARACTER	1	PGAC_RETURN_CODE	
(29)	CHARACTER	1	PGAC_DYNAMIC_STATUS	
(2A)	CHARACTER	1	PGAC_CONCURRENCY	
Java return information				
(2B)	CHARACTER	1	PGAC_JVM	
(2C)	HALFWORD	2	PGAC_JVM_CLASS_LEN	
(2E)	CHARACTER	256	PGAC_JVM_CLASS_DATA	
(12E)	CHARACTER	1	*	reserved
(12F)	CHARACTER	8	PGAC_JVM_PROFID	
(137)	CHARACTER	1	PGAC_RETURN_INFORMATION2	
(137)	CHARACTER	1	PGAC_API	

Constants

Len	Type	Value	Name	Description
Constants for module type.				
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 API				
1	CHARACTER	1	PGAC_CICSAPI	
1	CHARACTER	2	PGAC_OPENAPI	
Constants for JVM				
1	CHARACTER	1	PGAC_JVM_YES	
1	CHARACTER	2	PGAC_JVM_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	DFHPGGPS	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
The following fields define the record				
1	HEX	01	PGG_DCL_VERSION	version number
2	DECIMAL	23	PGG_DCL_ID	PG global id statistics id

PGRDS JVM Program Resource Statistics

```

CONTROL BLOCK NAME = DFHPGRDS
DESCRIPTIVE NAME = CICS Jvmprogram (PG Domain) Statistics
  @BANNER_START 02
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5697-E93
  @BANNER_END
FUNCTION =
  This data area contains the Jvmprogram statistics provided
  by the PG 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 PG Domain to store
  statistics to be passed to the user in response to a
  for JVMPROGRAM 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 =
NOTES :
  DEPENDENCIES = S/370
  RESTRICTIONS = None
  MODULE TYPE = Control block definition

```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHPGRDS	Jvmprogram Resid stats record
(0)	HALFWORD	2	PGRDS_LEN	Jvmprogram stats record length
(2)	ADDRESS	2	PGRDS_ID	Jvmprogram stats id
(4)	CHARACTER	1	PGRDS_VERS	Jvmprogram stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	PGR_JVMPROGRAM_	
			NAME	Jvmprogram Name
(10)	CHARACTER	8	PGR_JVMPROGRAM_	
			PROFILE	Jvmprofile Name
(18)	FULLWORD	4	PGR_JVMPROGRAM_	
			USECOUNT	Jvmprogram Use count
(1C)	BITSTRING	1	PGR_JVMPROGRAM_	
			EXEC_KEY	Jvmprogram CICS/USER key

PIRDS

Offset Hex	Type	Len	Name (Dim)	Description
(1D)	CHARACTER	3		Reserved
(20)	CHARACTER	255	PGR_JVMPROGRAM_ JVMCLASS	Jvmprogram Jvmclass name
(11F)	CHARACTER	1		Reserved
(120)	CHARACTER	24		Reserved
(120)		0	PGRDS_END	""
(120)		0	PGRDS_LENGTH	""-PGRDS_LEN" Jvmprogram record length
Constants that denote a PG Jvmprogram stats record				
	.111 .111		PGR_IDR	"119" Jvmprogram resid stats id
	.... ...1		PGR_VERS	"X01" Record version number
Equates for testing PGR_JVMPROGRAM_EXEC_KEY				
	.... ...1		PGR_CICS_KEY	"1" CICS exec key
	.... ...1.		PGR_USER_KEY	"2" USER exec key

PIRDS Pipeline Resource Statistics

CONTROL BLOCK NAME = DFHPIRDS
 DESCRIPTIVE NAME = CICS Pipeline Domain (Pipeline) Statistics
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END

FUNCTION =
 This data area contains the pipeline statistics provided by the PI 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 Pipeline Domain to store statistics to be passed to the user in response to a for pipeline 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 DFHPIRDS 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)	STRUCTURE	0	DFHPIRDS	Pipeline Resid stats record
(0)	HALFWORD	2	PIRDS_LEN	Pipeline stats record length
(2)	ADDRESS	2	PIRDS_ID	Pipeline stats id
(4)	CHARACTER	1	PIRDS_VERS	Pipeline stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	PIR_PIPELINE_NAME	Pipeline name
(10)	BITSTRING	8		Reserved
(18)	BITSTRING	8		Reserved
(20)	BITSTRING	255	PIR_CONFIGURATION_ FILE	Pipeline configuration file
(11F)	BITSTRING	1		Reserved
(120)	BITSTRING	255	PIR_SHELF_DIRECTORY	Pipeline shelf directory
(21F)	BITSTRING	1		Reserved
(220)	BITSTRING	255	PIR_WSDIR_DIRECTORY	Pipeline WSDIR pickup directory
(31F)	BITSTRING	1		Reserved
(320)	FULLWORD	4	PIR_PIPELINE_ USE_COUNT	Pipeline use count
(324)	BITSTRING	4		Reserved
(328)	BITSTRING	8		Reserved

PIWDS

Offset Hex	Type	Len	Name (Dim)	Description
(330)	BITSTRING	8		Reserved
(338)	BITSTRING	8		Reserved
(338)		0	PIRDS_END	""
(338)		0	PIRDS_LENGTH	**PIRDS_LEN" Pipeline record length

Constants that denote a PI pipeline stats record

.11. 1..1			PIRIDR	"105" Pipeline resid stats id
.... ...1			PIR_VERS	"X'01" Record version number

PIWDS Webservice Resource Statistics

CONTROL BLOCK NAME = DFHPIWDS
DESCRIPTIVE NAME = CICS Pipeline Domain (Webservice)

Statistics
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END

FUNCTION =
This data area contains the webservice statistics provided by the PI 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 Pipeline Domain to store statistics to be passed to the user in response to a for webservice 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 DFHPIWDS 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)	STRUCTURE	0	DFHPIWDS	Webservice Resid stats record
(0)	HALFWORD	2	PIWDS_LEN	Webservice stats record length
(2)	ADDRESS	2	PIWDS_ID	Webservice stats id
(4)	CHARACTER	1	PIWDS_VERS	Webservice stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	32	PIW_WEBSERVICE_ NAME	Webservice name
(28)	BITSTRING	1	PIW_PROGRAM_ INTERFACE	Webservice program interface
(29)	BITSTRING	1	PIW_MSG_ VALIDATION	Webservice msg validation
(2A)	BITSTRING	6		Reserved
(30)	CHARACTER	8	PIW_PIPELINE_ NAME	Webservice pipeline name
(38)	CHARACTER	8	PIW_URIMAP_ NAME	Webservice urimap name
(40)	BITSTRING	8		Reserved
(48)	BITSTRING	255	PIW_WSBIND_ FILE	Webservice WSBind file
(147)	BITSTRING	1		Reserved
(148)	BITSTRING	255	PIW_WSDL_ FILE	Webservice WSDL file
(247)	BITSTRING	1		Reserved
(248)	BITSTRING	255	PIW_WSDL_ BINDING	Webservice WSDL binding
(347)	BITSTRING	1		Reserved
(348)	BITSTRING	255	PIW_ENDPOINT_ URI	Webservice ENDPOINT URI
(447)	BITSTRING	1		Reserved
(448)	BITSTRING	8		Reserved
(450)	CHARACTER	8	PIW_WEBSERVICE_ PROGRAM	Webservice program name
(458)	CHARACTER	16	PIW_CONTAINER_ NAME	Webservice container name
(468)	CHARACTER	16		Reserved

PLT

Offset Hex	Type	Len	Name (Dim)	Description
(478)	FULLWORD	4	PIW_WEBSERVICE_ USE_COUNT	
(47C)	BITSTRING	4		Webservice use count
(480)	BITSTRING	8		Reserved
(488)	BITSTRING	8		Reserved
(488)		0	PIWDS_END	""
(488)		0	PIWDS_LENGTH	""-PIWDS_LEN" Webservice record length
Constants that denote a PI webservice stats record				
.11.	1.1.		PIWIDR	"106" Webservice resid stats id
....	...1		PIW_VERS	"X01" Record version number
....	....		PIW_INTERFACE_ NOTAPPLIC	
....	...1		PIW_INTERFACE_ CHANNEL	"X00" Program interface - notapplic
....	..1.		PIW_INTERFACE_ COMMAREA	"X01" Program interface - channel
....	...1		PIW_VALIDATION_NO	"X02" Program interface - commarea
....	..1.		PIW_VALIDATION_YES	"X01" Webservice msg validation - No "X02" Webservice msg validation - Yes

PLT Program list table entry

```

CONTROL BLOCK NAME = DFHPLTDS
DESCRIPTIVE NAME = CICS Program List Table Entry
  @BANNER_START 02
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5697-E93
  @BANNER_END
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)	STRUCTURE	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
    @BANNER_START 02
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5697-E93
    @BANNER_END
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	0	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	PSDPSSL	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	PSDPSFX	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)	BIT(8)	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)	BIT(8)	1	PSDCIFLG	PARTITION FLAGS 1
	1...		PSDCIERR	THIS IS A CICS/VS ERROR MESSAGE PARTITION
(5)	CHARACTER	1	PSDMPSFX	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)	BIT(8)	1	PSDPAM	FLAG BYTE INDICATING UNIT OF MEASURE AND ADDRESS MODE
	1...		*	
	.1..		*	
	..1.		*	
	...1		PSDUMPEL	UNIT OF MEASURE IS PELS
	.... 1...		*	
	.... .1..		*	

PSG

Offset Hex	Type	Len	Name (Dim)	Description
	.... ..1.		*	
	.... ..1		PSDAM16	ADDRESS MODE IS 16 BIT
(5)	BIT(8)	1	PSDPFLG	FLAG BYTE
	1...		*	
	.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.
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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
  
```

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 & DFHPSPPS:
(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

PSG

Offset Hex	Type	Len	Name (Dim)	Description
(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	*	Reserved
(2C)	BIT(8)	1	PSGFEE	Extra service facilities
	1...		PSGFETR	Additional trace required
	.111 111.		*	Reserved
	.... ...1		PSGFECH	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	PSGSYSID	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	PSGSCRS	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	PSGSPI	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)	BIT(8)	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
PSGFLAG - general Sub-system Interface flags				
1	HEX	FF	PSGON	Flag is on.
1	HEX	00	PSGOFF	Flag is off.

PSP

PSP Printer spooling subsystem

```

MODULE NAME = DFHPSPPS
DESCRIPTIVE NAME = CICS Printer Spooling Subsystem
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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)	BIT(8)	1	PSPQUAL	Reserved
	1... ..		PSPQNTFY	Reserved
	.1... ..		PSPQANY	Reserved
	.1... ..		PSPQCMD	Reserved
	...1 1111		*	Reserved
(2)	BIT(8)	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)	BIT(8)	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)	BIT(8)	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)	BIT(8)	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)	BIT(8)	1	PSPOPT5	Option 5 Indicators.
(6)	BIT(8)	1	*	Reserved
(7)	BIT(8)	1	PSPQUE	Reserved
	1... ..		PSPQLST	Reserved
	.1... ..		PSPQRDR	Reserved
	.1... ..		PSPQPUN	Reserved
	...1 ...		PSPQXMIT	Reserved
	.... 1...		PSPQPRTR	Reserved
	.... .111		*	Reserved
(8)	BIT(8)	1	PSPCBOPT	Reserved
(9)	BIT(8)	1	PSPDISPS	Reserved
	1... ..		PSPDHOLD	Reserved
	.1... ..		PSPDACT	Reserved
	.1... ..		PSPDRDY	Reserved
	...1 ...		PSPDERR	Reserved
	.... 1...		PSPDRES	Reserved
	.... .1..		PSPDKEP	Reserved
	.... .1.		PSPDLVE	Reserved

PSP

Offset Hex	Type	Len	Name (Dim)	Description
	.... ...1		PSPDERRP	Reserved
(A)	UNSIGNED	1	PSPCOPY	Reserved
(B)	UNSIGNED	1	PSPPRI	Reserved
(C)	UNSIGNED	1	*	Reserved
(D)	UNSIGNED	1	PSPPGSZ	Reserved
(E)	CHARACTER	1	PSPCLASS	CLASS Character.
(F)	UNSIGNED	1	*	Reserved
(10)	BIT(8)	1	PSPDISP	DISPOSITION to be set.
(11)	CHARACTER	1	PSPNCLSS	Reserved
(12)	UNSIGNED	2	PSPLNLG	Reserved
(14)	ADDRESS	4	PSPFORMS	Reserved
(18)	ADDRESS	4	PSPMPST	Reserved
(1C)	ADDRESS	4	PSPTOKEN	Pointer to token value.
(20)	ADDRESS	4	PSPREPNUM	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	PSPTWRTN	Reserved
1	DECIMAL	20	PSPTWRT	WRITE
1	DECIMAL	21	PSPTTRAN	Reserved

PTANC

Len	Type	Value	Name	Description
1	HEX	E2	PSPSRES	KEEP
1	HEX	C4	PSPSDEL	DELETE
2	DECIMAL	120	PSPLNG	

PTANC Partner Domain Control Blocks

This copybook includes definitions for the anchor block, the state block, the pool block and all trace ids used by the domain. At present this is the only copybook for the PT domain. Everything is in a single copybook because this domain is so small. In time different definitions may be separated out into separate copybooks as the domain grows.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	28	PT_ANCHOR_BLOCK	
(0)	CHARACTER	8	PTANC_EYECATCHER	Eyecatcher
(8)	UNSIGNED	4	PTANC_LENGTH	Length of anchor block
(C)	CHARACTER	8	PTANC_STATE_STG_POOL	Storage manager subpool
(14)	CHARACTER	4	PTANC_POOL_DIR_TOKEN	Dir mgr token for pools
(18)	CHARACTER	4	PTANC_STATE_DIR_TOKEN	Dir mgr token for states

Pool block

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	28	PTTW_POOL_BLOCK	
(0)	CHARACTER	8	PTTWPB_EYECATCHER	Eyecatcher
(8)	UNSIGNED	4	PTTWPB_LENGTH	Length of block
(C)	UNSIGNED	4	PTTWPB_STATE	State of the pool
(10)	CHARACTER	8	PTTWPB_NAME	Pool name
(18)	UNSIGNED	4	PTTWPB_USECOUNT	Count of state tokens

State block

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	76	PTTW_STATE_BLOCK	
(0)	CHARACTER	8	PTTWSB_EYECATCHER	Eyecatcher
(8)	UNSIGNED	4	PTTWSB_LENGTH	Length of block
(C)	UNSIGNED	4	PTTWSB_STATE	State of partnership
(10)	ADDRESS	4	PTTWSB_SUSPENDTOK	Suspend token
(14)	CHARACTER	8	PTTWSB_DD_TOKEN	Dir mgr token
(1C)	CHARACTER	8	PTTWSB_POOLTOKEN	Pool token
(24)	ADDRESS	4	PTTWSB_POOLPTR	Pool block addr
(28)	CHARACTER	4	PTTWSB_USERTOKEN	User token
(2C)	CHARACTER	16	PTTWSB_PARTNERS (2)	A partner's defn
(2C)	UNSIGNED	4	PTTWSB_TRIGSTATE	Trigger state
(30)	UNSIGNED	4	PTTWSB_COMPCODE	Completion code
(34)	CHARACTER	8	PTTWSB_XMTOK	XM token

Constants

Len	Type	Value	Name	Description
Value of pttwpb_eyecatcher.				
8	CHARACTER	>PTTWPB	PTTWPB_EYE_VALUE	
Values for pttwpb_state. This is a list of all the states that the pool block can take. The numeric values of the pool, partnership and trigger states are different to one another so that any bug in the code which accidentally assigns a pool state to a partnership state (for instance) is more likely to show up.				
4	DECIMAL	0	PTTWPB_STATE_	UNDEFINED
4	DECIMAL	1	PTTWPB_STATE_	EMPTY
4	DECIMAL	2	PTTWPB_STATE_	NOT_EMPTY
4	DECIMAL	3	PTTWPB_STATE_	QUIESCING
Value of pttwsb_eyecatcher.				
8	CHARACTER	>PTTWSB	PTTWSB_EYE_VALUE	
Values for pttwsb_state. This is a list of all the states that the state block can take.				
4	DECIMAL	0	PTTWSB_STATE_	UNDEFINED
4	DECIMAL	4	PTTWSB_STATE_	CREATED
4	DECIMAL	5	PTTWSB_STATE_	PARTIALLY_MADE
4	DECIMAL	6	PTTWSB_STATE_	MADE
4	DECIMAL	7	PTTWSB_STATE_	DELETED
Values for pttwsb_trigstate. This is a list of all the states that each partner's trigger object can have.				
4	DECIMAL	1	PTTWSB_TRIGSTATE_	UNDEFINED
4	DECIMAL	2	PTTWSB_TRIGSTATE_	VALID
4	DECIMAL	4	PTTWSB_TRIGSTATE_	WAITING
4	DECIMAL	3	PTTWSB_TRIGSTATE_	TRIGGERED
4	DECIMAL	5	PTTWSB_TRIGSTATE_	RESUMED
Trace point ids for PTDM in the range 0000 to 00FF.				
2	NUMB HEX	0000	TID_PTDM_ENTRY	
2	NUMB HEX	0001	TID_PTDM_EXIT	
2	NUMB HEX	0002	TID_PTDM_RECOVERY	
2	NUMB HEX	0003	TID_PTDM_	ADD_SUBPOOL_FAILED
2	NUMB HEX	0004	TID_PTDM_	GETMAIN_FAILED
2	NUMB HEX	0005	TID_PTDM_	SET_ANCHOR_FAILED
2	NUMB HEX	0006	TID_PTDM_	CREATE_DIR_FAILED
2	NUMB HEX	0007	TID_PTDM_	ADD_GATE_FAILED
Trace point ids for PTTW in the range 0100 to 01FF.				
2	NUMB HEX	0100	TID_PTTW_ENTRY	
2	NUMB HEX	0101	TID_PTTW_EXIT	
2	NUMB HEX	0102	TID_PTTW_	EXC_INV_FORMAT
2	NUMB HEX	0103	TID_PTTW_	EXC_INV_FUNCTION
2	NUMB HEX	0104	TID_PTTW_	EXC_INV_TIMED_OUT
2	NUMB HEX	0105	TID_PTTW_	EXC_PURGED
2	NUMB HEX	0106	TID_PTTW_	EXC_GETMAIN_FAILED
2	NUMB HEX	0107	TID_PTTW_	EXC_ADD_ENTRY_FAILED
2	NUMB HEX	0108	TID_PTTW_	EXC_DEL_ENTRY_FAILED
2	NUMB HEX	0109	TID_PTTW_	EXC_POOL_NOT_FOUND
2	NUMB HEX	010A	TID_PTTW_	EXC_STATE_NOT_FOUND
2	NUMB HEX	010B	TID_PTTW_	EXC_LOCATE_FAILED
2	NUMB HEX	010C	TID_PTTW_	EXC_CORRUPT_POOL
2	NUMB HEX	010D	TID_PTTW_	EXC_CORRUPT_STATE

RCS

Len	Type	Value	Name	Description
2	NUMB HEX	010E	TID_PTTW_ EXC_ADD_SUS_FAILED	
2	NUMB HEX	010F	TID_PTTW_ EXC_DEL_SUS_FAILED	
2	NUMB HEX	0110	TID_PTTW_ EXC_INQ_TXN_FAILED	
2	NUMB HEX	0111	TID_PTTW_ EXC_RESUME_FAILED	
2	NUMB HEX	0112	TID_PTTW_ EXC_SUSPEND_FAILED	
2	NUMB HEX	0113	TID_PTTW_ EXC_RESUME_TIMED_OUT	
2	NUMB HEX	0114	TID_PTTW_RECOVERY	
2	NUMB HEX	0115	TID_PTTW_WHOAMI	
2	NUMB HEX	0116	TID_PTTW_ STATE_BLOCK_FOUND	
2	NUMB HEX	0117	TID_PTTW_ TRIGSTATE_CHANGE	
2	NUMB HEX	0118	TID_PTTW_EXC_INV_STATE	

RCS Recovery Control Static Storage

```

CONTROL BLOCK NAME = DFHRCSPS
DESCRIPTIVE NAME = CICS RECOVERY CONTROL STATIC STORAGE
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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)	BIT(8)	1	*	Reserved
	1... ..		*	Reserved
	.1... ..		RCSCPPST	restart complete post bit
(A)	BIT(8)	1	*	Reserved
	1... ..		*	Reserved
	.1... ..		RCS_STP_END_EVENT	STP keypoint ended
(B)	BIT(8)	1	*	Reserved
	1... ..		*	Reserved
	.1... ..		RCS_WARM_ KEYPOINT_EVENT	
(C)	FULLWORD	4	RCS_RECORD_COUNT	ready for keypoint
(10)	ADDRESS	4	RCS_AID_CHAIN	User log record count
(14)	CHARACTER	4	*	AID chain
(18)	CHARACTER	0	RCSTATLN	Reserved
				End

RMG Recovery Manager Global statistics

CONTROL BLOCK NAME = DFHRMGDS
 DESCRIPTIVE NAME = CICS Recovery Manager Statistics
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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)	STRUCTURE	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	RMGCSSHIN	Current uows shunted for indoubt
(24)	CHARACTER	8	RMGCSHTI	Current time shunted indoubt (STCK)
(2C)	FULLWORD	4	RMGTSHRO	Total ouws shunted for RO commit fail
(30)	CHARACTER	8	RMGTSHTR	Total time shunted for RO fail (STCK)
(38)	FULLWORD	4	RMGCSHRO	Current ouws 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

RMUXC Recovery Manager Domain Inline Access

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	141	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)	BIT(8)	1	RMUX_FLAGS OPTIMAL_CLIENTS_ONLY	Only optimal clients are involved in this UOW.
1... ..				
(24)	ADDRESS	4	RMUX_WORK_ TOKEN_ARRAY (21)	
(78)	CHARACTER	21	RMUX_CLIENT_STATES	
(78)	BIT(8)	1	CLIENT_STATE (21) COMMIT_COMPLETE	has locally committed
1... ..				
.111 1111			*	

Constants

Len	Type	Value	Name	Description
1	DECIMAL	21	RMUX_MAX_RO	

This structure is used to define the parts of a UOW object which may be accessed by inline macros. Since these need to be insensitive to the fact that the UOW is an object, we define these parts in a single structure which is addressed via the second half of the Recovery Manager transaction token.

The fields are the local UOW id., the remote UOW id. (a variable length field of at most 27 bytes), the work token array, and a flag which indicates whether any non-optimal work tokens have been set.

RPD DL/I General purpose macro

```

CONTROL BLOCK NAME = DFHRPD
DESCRIPTIVE NAME = CICS CICS DL/I General Purpose Macro
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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)	STRUCTURE	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		TCITE 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

RSB

Offset Hex	Type	Len	Name (Dim)	Description
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				
NOTE: There is a copy of this storage up to XFRFLAGA in DFHEIIC and DFHEPC. These programs must also be changed if the offset of XFRFLAGA changes. the field name in these programs is TFRFLAGA.				
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.		XFRSYNCR	"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
	.... .1.		XFRRESUN	"X'02" RESUNAVAIL condition supported
	.... ..1		XFRCHAN	"X'01" CHANNEL request
(62)	HALFWORD	2	XFRRTRLN	Length of router commarea or 0
(64)	ADDRESS	4	XFRRTRAD	A(DFHDSRP) or 0
(68)	BITSTRING	4	XFRCHTOK	Channel Token
(6C)	BITSTRING	1	(7)	reserved
(74)	FULLWORD	4	XFRFSPEC (0)	Origin for function specific storage
DL/I RELATED FIELDS				
(74)	ADDRESS	4	XFRUIB	A(UIB)
(78)	FULLWORD	4	XFRDLILN	Maximum length os SETS I/O area so far
FILE CONTROL RELATED FIELDS				
(7C)	FULLWORD	4	FCBUFLEN	Shipped buffer length
(80)	HALFWORD	2	FCKEYLEN	Shipped record identifier length
(82)	BITSTRING	1	FCEID (9)	ARG 0 OF EIP PARAMETER LIST (EID)
(8B)	BITSTRING	1	(17)	RESERVED
(9C)	FULLWORD	4	(0)	MAKE LENGTH MULTIPLE OF 4
This DSECT describes the entries required for remote program link				
(9C)	FULLWORD	4	DFHPCENT (0)	PC LINK entries begin here
(9C)	CHARACTER	4	XFR_PC_ATT_TRAN	Transaction code - for mirror attach FMH
(A0)	CHARACTER	4	XFR_PC_EIB_TRAN	Transaction code - for mirror EIBTRNID
(A4)	FULLWORD	4	XFR_PC_CCSID	Character data conversion 0 => no conversion -1 => conversion required use client code page defined via DFHCNV n => conversion requird use n as override to code page defined via DFHCNV
(A8)	FULLWORD	4	XFR_PC_NDIAN	Binary data conversion 0 => no conversion X'01020304' => data held in big endian format X'04030201' => data held in little endian format
(AC)	CHARACTER	8	XFRPNAME	name of program
(B4)	HALFWORD	2	XFRCOMML	length of commarea
(B6)	HALFWORD	2	XFRDATAL	length of data to be sent
(B8)	CHARACTER	4	XFRABCD	Abend code returned from mirror
(BC)	BITSTRING	1	XFRFLAG4	Flag byte
	1... ..		XFRHTRAN	"X'80" hex tranid present
	.1.. ..		XFRDATAV	"X'40" valid DATALENGTH supplied
	1111		ESCARGN	"240" Special id for escape sequence
Fields used for passing terminal error information between MIRS/ISP and the transformer				
(BD)	BITSTRING	4	XFRTCERR	Terminal error
(C1)	CHARACTER	4	XFRTCABE	Terminal control abend code
(C5)	BITSTRING	4	XFRTCSENS	Terminal control sense data
(D0)	DBL WORD	8	CONTAINER_LIST (0)	
(D0)	ADDRESS	4	CONTAINER_LIST_P	Address of container list
(D4)	FULLWORD	4	CONTAINER_LIST_N	Length of container list
(D8)	FULLWORD	4	XFRCHOUT	# outbound channel bytes
(DC)	FULLWORD	4	XFRCHIN	# inbound channel bytes
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

Offset Hex	Type	Len	Name (Dim)	Description
FIELDS IN THE XF CONTROL BLOCK THAT ARE COMMON TO A BATCH AND ONLINE ENVIRONMENTS				
(E0)	ADDRESS	4	XFRPLIST	ADDRESS OF PLIST PASSED TO TRANSFORMER OR ADDRESS OF PLIST CREATED BY TRANSFR
(E4)	ADDRESS	4	XFRATABN	A(1ST TABLE ENTRY) OR 0 - E.G. RPDIR OR DCTTE
(E8)	ADDRESS	4	XFRATAB2	A(2ND TABLE ENTRY) - E.G. PDIR OR 0
(EC)	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
(ED)	CHARACTER	2	XFRARCHD	USED TO SHOW CICS OR SNA ARCHITECTURE WHEN A CHOICE IS AVAILABLE
(EF)	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 .1.		XFRJCGRP	"X'14" - THE CICS JC GROUP
	.1.		XFRDLGRP	"X'40" - THE DL/I GROUP
(F0)	CHARACTER	1	XFRFUNCT	THE FUNCTION IDENTIFIER FOR THE CURRENT REQUEST
(F1)	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.		XFRPRTCT	"X'01" THE REQUEST IS TO BE SHIPPED PROTECTED
(F2)	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
	...1		XFRFCRQ	"X'20" Shipped FC request
	...1		XFRTMERR	"X'10" Terminal error in xformer layer
	.... .1.		XFRESCAP	"X'02" Escape sequence preceding 4-byte legths may be found
	.... .1.		XFRCHANL	"X'01" This is a CHANNEL request
(F3)	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
	...1		XFRCHNSP	"X'20" Other end of MRO link supports channels
(F4)	CHARACTER	1	XFRFLAG3	PARAMETER LIST FLAGS - WITH ALL VALUES RESERVED
(F5)	CHARACTER	2	XFRCODES (0)	FLAGS INDICATING WHERE CONTROL IS TO BE PASSED UPON RETURN FROM THE TRANSFORMER
(F5)	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
	11.1 1.11		XFRLNKUN	"219" RESUNAVAIL condition raised in remote region
	...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 .1.1		XFRDWNLV	"21" The remote system does not support a keyword on this request
	...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
	.... 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..1		XFRLNKCP	"9" Special for CPSM only equ of XFRLNKSH.
	.... 1..		XFRLNKSH	"8" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK, THOUGH EXISTING, IS OUT OF SERVICE
	.... .11.		XFRLNKNS	"6" Type of request (either LINK or START CHANNEL) is not supported over LU6.1 connections
	.... .1..		XFRLNKSY	"4" ALLOCATE IN ISP HAS FAILED BECAUSE NAME IS NOT THAT OF TCTSE
(F6)	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
(F7)	CHARACTER	1	XFRABCDE	ABEND CODE INDICATOR PASSED BACK FROM THE TRANSFORMER TO THE BATCH CONTROLLER PROGRAM
(F8)	ADDRESS	4	XFRRESR9	resumption base for DL/I function shipping
(FC)	ADDRESS	4	XFRRESRE	resumption address for DL/I function shipping
(100)	ADDRESS	4	XFRBEGOP	address of Arg0 options bytes
(104)	FULLWORD	4	XFRARGS (0)	ORIGIN FOR ARGUMENTS
	1.11 11..		XFRNGTH	**XFRSTART*

TRANSFORMER'S RESOURCE TABLE

RSB

Offset Hex	Type	Len	Name (Dim)	Description
(108)	DBL WORD	8	DRXSTRT (0)	START OF DFHDRX
(108)	FULLWORD	4	DRXSSASZ	MAX SSA SIZE AS PERCEIVED BY THIS SYSTEM
(10C)	CHARACTER	8	DRXRPSB	NAME OF PSB TO BE USED ON REMOTE SYSTEM
(114)	ADDRESS	4	DRXPCBAL	A(LOCAL PCB ADDRESS LIST) THIS FIELD IS SET BY XFR4 DURING SCHEDULE CALL AND IS USED DURING DB CALLS
(118)	ADDRESS	4	DRXCHAIN	CHAIN OF STORAGE SEGMENTS OBTAINED BY TRANSFORMER 4
(11C)	ADDRESS	4	DRXIOAWK	A(READ SET BUFFER); BEFORE DRXBUFAL SET ON CONTAINS LENGTH FOR BUFFER
(120)	HALFWORD	2	DRXINDEX	THE PCB INDEX FOR THE CURRENT DATABASE CALL
(122)	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
(123)	BITSTRING	1	DRXISCO	ISC OUTBOUND FLAGS
	1... ..		DRXSYNC	"X'80" PRESENT TO RETAIN SDB - DL/I SIMILARITY
	.1.. ..		DRXHPLI	"X'40" HPLI COMMAND WITH SSA AND I/O LENGTHS GIVEN
(124)	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
(125)	BITSTRING	1	DRXFCTR	RESPONSE BYTE FROM CICS SYSTEM CORRESP TO TCAFCTR (SET BY XFR4)
(126)	BITSTRING	1	DRXDLTR	RESPONSE BYTE FROM CICS SYSTEM CORRESP TO TCADLTR (SET BY XFR4)
(127)	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
(128)	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
(12C)	FULLWORD	4	DRXRETAD	ADDRESS OF POINT IN TRANSFORMER TO WHICH RETRY ROUTINE SHOULD RETURN
(130)	FULLWORD	4	DRXIOLEN	I/O AREA LENGTH FOR HPLI COMMAND - VALID IF DRXHPLI IS SET
(134)	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
(135)	CHARACTER	6	DRXRCODE (0)	RETURN CODE FROM AN EXEC CICS REQUEST
(135)	CHARACTER	1	DRXRCDE1	RESPONSE CODE
(136)	CHARACTER	1	DRXRCDE2	RESERVED
(137)	CHARACTER	1	DRXRCDE3	RESERVED
(138)	CHARACTER	1	DRXRCDE4	RESERVED
(139)	CHARACTER	1	DRXRCDE5	RESERVED
(13A)	CHARACTER	1	DRXRCDE6	RESERVED
	..11 ..11		DRXLEN	**DRXSTRT" LENGTH OF DFHDRX
(13C)	ADDRESS	4	RSBEXPRM	ADDR OF EDP'S DBLWD FOR LOCATE MODE RETRIEVAL
(13C)		0	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)	STRUCTURE	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
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FIELDS IN THE XF CONTROL BLOCK THAT ARE UNIQUE
 TO AN ONLINE ENVIRONMENT

NOTE: There is a copy of this storage up to XFRFLAGA in
 DFHEIIC and DFHEPC. These programs must also be changed
 if the offset of XFRFLAGA changes. the field name in these
 programs is TFRFLAGA.

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
	.... ..1.		XFRRESUN	"X'02" RESUNAVAIL condition supported
	.... ...1		XFRCHAN	"X'01" CHANNEL request
(62)	HALFWORD	2	XFRRTRLN	Length of router commarea or 0
(64)	ADDRESS	4	XFRRTRAD	A(DFHDSRP) or 0
(68)	BITSTRING	4	XFRCHTOK	Channel Token
(6C)	BITSTRING	1	(7)	reserved
(74)	FULLWORD	4	XFRFSPEC (0)	Origin for function specific storage

DL/I RELATED FIELDS

(74)	ADDRESS	4	XFRAUIB	A(UIB)
(78)	FULLWORD	4	XFRDLILN	Maximum length os SETS I/O area so far

FILE CONTROL RELATED FIELDS

RSB

Offset Hex	Type	Len	Name (Dim)	Description
(7C)	FULLWORD	4	FCBUFLEN	Shipped buffer length
(80)	HALFWORD	2	FCKEYLEN	Shipped record identifier length
(82)	BITSTRING	1	FCEID (9)	ARG 0 OF EIP PARAMETER LIST (EID)
(8B)	BITSTRING	1	(17)	RESERVED
(9C)	FULLWORD	4	(0)	MAKE LENGTH MULTIPLE OF 4
This DSECT describes the entries required for remote program link				
(9C)	FULLWORD	4	DFHPCENT (0)	PC LINK entries begin here
(9C)	CHARACTER	4	XFR_PC_ATT_TRAN	Transaction code - for mirror attach FMH
(A0)	CHARACTER	4	XFR_PC_EIB_TRAN	Transaction code - for mirror EIBTRNID
(A4)	FULLWORD	4	XFR_PC_CCSID	Character data conversion 0 => no conversion -1 => conversion required use client code page defined via DFHCNV n => conversion required use n as override to code page defined via DFHCNV
(A8)	FULLWORD	4	XFR_PC_NDIAN	Binary data conversion 0 => no conversion X'01020304' => data held in big endian format X'04030201' => data held in little endian format
(AC)	CHARACTER	8	XFRPNAME	name of program
(B4)	HALFWORD	2	XFRCOMML	length of commarea
(B6)	HALFWORD	2	XFRDATAL	length of data to be sent
(B8)	CHARACTER	4	XFRABCD	Abend code returned from mirror
(BC)	BITSTRING	1	XFRFLAG4	Flag byte
			1...	"X80" hex tranid present
			.1.	"X40" valid DATALENGTH supplied
			1111	"240" Special id for escape sequence
Fields used for passing terminal error information between MIRS/ISP and the transformer				
(BD)	BITSTRING	4	XFRTCERR	Terminal error
(C1)	CHARACTER	4	XFRTCABE	Terminal control abend code
(C5)	BITSTRING	4	XFRTCSNS	Terminal control sense data
(D0)	DBL WORD	8	CONTAINER_LIST (0)	
(D0)	ADDRESS	4	CONTAINER_LIST_P	Address of container list
(D4)	FULLWORD	4	CONTAINER_LIST_N	Length of container list
(D8)	FULLWORD	4	XFRCHOUT	# outbound channel bytes
(DC)	FULLWORD	4	XFRCHIN	# inbound channel bytes
FIELDS IN THE XF CONTROL BLOCK THAT ARE UNIQUE TO A BATCH ENVIRONMENT				
(48)	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
(4C)	ADDRESS	4	XFRASTG4	ADDRESS OF THE FLATTENED REPLY IN THE BUFFERS OF BATCH DL/I.
(50)	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				
(E0)	ADDRESS	4	XFRPLIST	ADDRESS OF PLIST PASSED TO TRANSFORMER OR ADDRESS OF PLIST CREATED BY TRANSFR
(E4)	ADDRESS	4	XFRATABN	A(1ST TABLE ENTRY) OR 0 - E.G. RPDIR OR DCTTE
(E8)	ADDRESS	4	XFRATAB2	A(2ND TABLE ENTRY) - E.G. PDIR OR 0
(EC)	CHARACTER	1	XFRFORMN	THE TRANSFORMER INDEX - WITH VALUES SET AS FOLLOWS
			.... ....	"0" TRANSFORMER 1 - VERTICAL TO HORIZONTAL REQUESTS
			.... .1.	"2" TRANSFORMER 2 - HORIZONTAL TO VERTICAL REQUESTS
			.... .1.	"4" TRANSFORMER 3 - VERTICAL TO HORIZONTAL REPLIES
			.... .11.	"6" TRANSFORMER 4 - HORIZONTAL TO VERTICAL REPLIES
(ED)	CHARACTER	2	XFRARCHD	USED TO SHOW CICS OR SNA ARCHITECTURE WHEN A CHOICE IS AVAILABLE
(EF)	CHARACTER	1	XFRGROUP	THE GROUP IDENTIFIER FOR THE CURRENT REQUEST
			.... .11.	"X06" - THE CICS FC GROUP
			.... 1..	"X08" - THE CICS TD GROUP
			.... 1.1.	"X0A" - THE CICS TS GROUP
			...1	"X10" - THE CICS IC GROUP
			...1 .1.	"X14" - THE CICS JC GROUP
			.1.	"X40" - THE DL/I GROUP
(F0)	CHARACTER	1	XFRFUNCT	THE FUNCTION IDENTIFIER FOR THE CURRENT REQUEST
(F1)	CHARACTER	1	XFRFLAGS	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
			1...	"X80" THE ARGUMENT LIST COMES FROM OR GOES TO EIP
			.1.	"X40" THE ARGUMENT LIST COMES FROM OR GOES TO DL/I
			.1.	"X20" FIRST ARGUMENT IS A COUNT OF THE REMAINING ARGUMENTS
			...1	"X10" THE DL/I REQUEST COMES FROM PL/I - INDIRECTION EXISTS
			.... 1..	"X08" AN ATTACH HEADER HAS BEEN PUT OUT BEFORE OTHER DATA
			.... .1.	"X04" THE MIRROR TASK NEEDS TO BE LONG RUNNING
			.... .1.	"X02" THE REQUEST IS TO BE SHIPPED; HOWEVER NO REPLY IS EXPECTED
			.... ...1	"X01" THE REQUEST IS TO BE SHIPPED PROTECTED
(F2)	CHARACTER	1	XFRFLAG1	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
			1...	"X80" THE REQUEST MAY BE QUEUED BEFORE SHIPPING
			.1.	"X40" FC Token can be shipped
			.1.	"X20" Shipped FC request
			...1	"X10" Terminal error in xformer layer
			.... .1.	"X02" Escape sequence preceding 4-byte legths may be found
			.... ...1	"X01" This is a CHANNEL request
(F3)	CHARACTER	1	XFRFLAG2	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
			1...	"X80" DFHMIRVM has handled an abend; the abend code is to be found in the TACB
			.1.	"X40" LENGTH parameter forced for a FILE READ request which didn't specify LENGTH parameter originally
			.1.	"X20" Other end of MRO link supports channels
(F4)	CHARACTER	1	XFRFLAG3	PARAMETER LIST FLAGS - WITH ALL VALUES RESERVED
(F5)	CHARACTER	2	XFRCODES (0)	FLAGS INDICATING WHERE CONTROL IS TO BE PASSED UPON RETURN FROM THE TRANSFORMER

Offset Hex	Type	Len	Name (Dim)	Description
(F5)	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
	11.1 1.11		XFRLNKUN	"219" RESUNAVAIL condition raised in remote region
	...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 .1.1		XFRDWNLV	"21" The remote system does not support a keyword on this request
	...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
	.... 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
	.... 1.1		XFRLNKCP	"9" Special for CPSM only equ of XFRLNKSH.
	.... 1...		XFRLNKSH	"8" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK, THOUGH EXISTING, IS OUT OF SERVICE
	.... .11.		XFRLNKNS	"6" Type of request (either LINK or START CHANNEL) is not supported over LU6.1 connections
	.... .1..		XFRLNKSY	"4" ALLOCATE IN ISP HAS FAILED BECAUSE NAME IS NOT THAT OF TCTSE
(F6)	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
(F7)	CHARACTER	1	XFRABCDE	ABEND CODE INDICATOR PASSED BACK FROM THE TRANSFORMER TO THE BATCH CONTROLLER PROGRAM
(F8)	ADDRESS	4	XFRRESR9	resumption base for DL/I function shipping
(FC)	ADDRESS	4	XFRRESRE	resumption address for DL/I function shipping
(100)	ADDRESS	4	XFRBEGOP	address of Arg0 options bytes
(104)	FULLWORD	4	XFRARGS (0)	ORIGIN FOR ARGUMENTS
	1.11 11..		XFRLNGTH	"-XFRSTART"

TRANSFORMER'S RESOURCE TABLE

(108)	DBL WORD	8	DRXSTRT (0)	START OF DFHDRX
(108)	FULLWORD	4	DRXSSASZ	MAX SSA SIZE AS PERCEIVED BY THIS SYSTEM
(10C)	CHARACTER	8	DRXRPSB	NAME OF PSB TO BE USED ON REMOTE SYSTEM
(114)	ADDRESS	4	DRXPCBAL	A(LOCAL PCB ADDRESS LIST) THIS FIELD IS SET BY XFR4 DURING SCHEDULE CALL AND IS USED DURING DB CALLS
(118)	ADDRESS	4	DRXCHAIN	CHAIN OF STORAGE SEGMENTS OBTAINED BY TRANSFORMER 4
(11C)	ADDRESS	4	DRXIOAWK	A(READ SET BUFFER); BEFORE DRXBUFAL SET ON CONTAINS LENGTH FOR BUFFER
(120)	HALFWORD	2	DRXINDEX	THE PCB INDEX FOR THE CURRENT DATABASE CALL
(122)	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
(123)	BITSTRING	1	DRXISCO	ISC OUTBOUND FLAGS
	1...		DRXSYNC	"X'80" PRESENT TO RETAIN SDB - DL/I SIMILARITY
	.1..		DRXHLPI	"X'40" HLPI COMMAND WITH SSA AND I/O LENGTHS GIVEN
(124)	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
(125)	BITSTRING	1	DRXFCTR	RESPONSE BYTE FROM CICS SYSTEM CORRESP TO TCAFCTR (SET BY XFR4)
(126)	BITSTRING	1	DRXDLTR	RESPONSE BYTE FROM CICS SYSTEM CORRESP TO TCADLTR (SET BY XFR4)
(127)	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		DRXPPI	"C'P" PL/I
(128)	BITSTRING	1	DRXFLG1	FLAG BYTE
	1...		DRXCMPPT	"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
(12C)	FULLWORD	4	DRXRETAD	ADDRESS OF POINT IN TRANSFORMER TO WHICH RETRY ROUTINE SHOULD RETURN
(130)	FULLWORD	4	DRXIOLN	I/O AREA LENGTH FOR HLPI COMMAND - VALID IF DRXHLPI IS SET
(134)	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
(135)	CHARACTER	6	DRXRCODE (0)	RETURN CODE FROM AN EXEC CICS REQUEST
(135)	CHARACTER	1	DRXRCDE1	RESPONSE CODE
(136)	CHARACTER	1	DRXRCDE2	RESERVED
(137)	CHARACTER	1	DRXRCDE3	RESERVED
(138)	CHARACTER	1	DRXRCDE4	RESERVED
(139)	CHARACTER	1	DRXRCDE5	RESERVED
(13A)	CHARACTER	1	DRXRCDE6	RESERVED

SAB

Offset Hex	Type	Len	Name (Dim)	Description
(13C)	..11 ..11	4	DRXLEN	"*-DRXSTR*" LENGTH OF DFHDRX
(13C)	ADDRESS	0	RSBEXPRM	ADDR OF EDP'S DBLWD FOR LOCATE MODE RETRIEVAL
(13C)		0	RSBLEN	"*-RSBSTART*" LENGTH OF RSB

SAA Storage accounting area

CONTROL BLOCK NAME = DFHSAAPS
DESCRIPTIVE NAME = **CICS Storage Accounting Area.**
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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**
@BANNER_START 02
Licensed Materials - Property of IBM
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5697-E93
@BANNER_END
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

SAB

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	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
	.... ..1.		SABV620	"2" Version 6.2.0 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
(20)	BITSTRING	16	SABGROUT	Generic Routecodes
(30)	FULLWORD	4	SABLGLIM	Actual logon limit for the address space
	.11. .1..		SABLGFT	"100" Default logon limit for the address space
	.11. .1..		SABLGMIN	"100" Minimum logon limit for the address space
	1111 1.1.		SABLGMAX	"250" Maximum logon limit for the address space
	..11 .1..		SABL	**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)	STRUCTURE	0	SCTE	
(0)	ADDRESS	4	SCTELACB	Address of LACB
(4)	SIGNED	3	SCTECNT	NUMBER OF 'ASSOCIATED' address spaces
(7)	SIGNED	1	SCTEMOD#	SCTE modification no. - potentially allows DFHIRP control blocks or algorithms to be changed at LACB create time without an IPL by using the dynamic LPA facility, but beware the XCF DIE page fix problem
	.... ..1		SCTEMOD1	"1" SCTE modification 1 - CICS/TS 2.2
(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
	.... ..11		SCTEVER3	"3" SCTE version 3 - CICS/TS 2.2
(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

SDG Dump domain global statistics

CONTROL BLOCK NAME = DFHSDGDS
DESCRIPTIVE NAME = **CICS Dump Domain Global Statistics**
(System dumps)
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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)	STRUCTURE	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		SDGEND	***
	...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)
    @BANNER_START 02
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5697-E93
    @BANNER_END
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)	STRUCTURE	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

SETCC SET Storage Control (in FLAB and FRTE)

CONTROL BLOCK NAME = DFHSETCC
DESCRIPTIVE NAME = CICS Set Storage Control
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	8	DFHSSC	
(0)	ADDRESS	4	SSC_SET_ADDRESS	Set storage address
(4)	HALFWORD	2	SSC_SET_LENGTH	Set storage length
(6)	BIT(8)	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
  @BANNER_START 02
Licensed Materials - Property of IBM
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5697-E93
  @BANNER_END
FUNCTION = COMMUNICATION AREA FOR INITIALIZATION.
MACROS = DFHSIPD

```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	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 plist 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
			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		SIPSFABL	"X'01" .. SUFFIXABLE MODULE FLAG
(E3)	BITSTRING	1	SIPERFLG	INITIALISATION/ERROR FLAGS
	1... ..		SIPCNCLE	"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	TEPCIZ	TEMPORARY STORAGE CI SIZE
(118)	FULLWORD	4	TEPCIN	NUMBER OF CONTROL INTERVALS FOR TEMP STORAGE

SIP

Offset Hex	Type	Len	Name (Dim)	Description
OPERATOR COMMUNICATIONS AREA				
(11C)	FULLWORD	4	SIPWTOCB	WRITE TO OPERATOR ECB (OS/VS)
(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
(240)	CHARACTER	8	SIPDUANY	storage token User key & above 16M
PLIST for TEOF - moved to end of SIPCOM				
(248)	HALFWORD	2	(0)	
(248)	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)				
(24C)	BITSTRING	1	SIPTEFLG	TEOF FLAGS
	1... ..		SIPTEAO	"X'80" TEOF SUBTASK WAS ATTACHED (DOS)
	.1.. ..		SIPTEJCS	"X'40" TAPE JOURNAL WAS CLOSED SUCCESSFULLY
(250)	FULLWORD	4		Reserved
(254)	CHARACTER	6		Reserved
SAVE AREA FOR SIP LOADER.				
(25C)	FULLWORD	4	SIPLSAVE (16)	SAVE AREA
COMMUNICATION AREA - DFHSIH1 TO DFHSI11 TO DFHSIJ1				
(29C)	FULLWORD	4	SIPSPSIZ	EFFECTIVE SIZE OF SUBPOOL FOR START UP - IN K BYTES
(2A0)	FULLWORD	4	CHKRLSAV	SAVE SIPBAR
(2A4)	FULLWORD	4	UPENTSAV	SAVE SIPBAR
(2A8)	ADDRESS	4	SIPCICNA	
(2AC)	ADDRESS	4	SIPITCAP	A(TCA acquired during initialisation)
(2B0)	FULLWORD	4	SIPPLTAD	ADDRESS OF PLTPI ENTRY POINT
(2B4)	FULLWORD	4	(4)	Reserved
(2C4)	BITSTRING	8	SIPRSDDT	Date / Time stamp
(2CC)	FULLWORD	4	SIPPLTE1	Early PLT complete ECB
(2D0)	FULLWORD	4	SIPPLTE2	Start late PLT ECB
(2D4)	FULLWORD	4	SIPPLTE3	Late PLT complete ECB
(2D4)		0	SIPCOMEA	*** END OF INITIALISATION COMMUNICATIONS AREA

SIT System initialisation table

CONTROL BLOCK NAME = DFHSITPS
 DESCRIPTIVE NAME = CICS SYSTEM INITIALIZATION TABLE
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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	2968	DFHSITPS	System Initialization Table
(0)	CHARACTER	0	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	DFHDLL	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)	BIT(8)	1	SITTRNTY	Tran dump trace option
			SITTRALL	Option ALL
			*	Unused
(56)	BIT(8)	1	SITSRCVY	Stg. recovery byte
			SITSRYES	St. recovery requested
			*	Reserved
(57)	UNSIGNED	1	SITTCSWT	TC Shutdown Wait

SIT

Offset Hex	Type	Len	Name (Dim)	Description
(58)	BIT(8)	1	SITTCSAN	TC Shutdown Action
	1... ..		SITTCSUB	TC Shut Act, Unbind
	.1... ..		SITTCSFO	TC Shut Act, Force
	..11 1111		*	Reserved
(59)	CHARACTER	4	SITVDLY	Autoinstall delete delay time
(5D)	BIT(8)	1	SITCHTSK	CHKSTSK option
	1... ..		*	Reserved
	.1... ..		SITTSKCR	Check current task storage
	..11 1111		*	Reserved
(5E)	BIT(8)	1	SITCHTRM	CHKSTRM option
	1... ..		SITTRMCR	Check current terminal storage
	..11 1111		*	Reserved
(5F)	BIT(8)	1	SITRRMS	RRMS options
	1... ..		SITRRMSYES	RRMS=YES
	..11 1111		*	Reserved
(60)	FULLWORD	4	SITPSDI	PSDI option (HHMMSS)
SUPERVISOR CALL LIST				
(64)	UNSIGNED	1	SITSVSNO	Service svc number
(65)	UNSIGNED	1	SITISISNO	Service init. svc number
(66)	HALFWORD	2	*	Reserved
(68)	HALFWORD	2	*	Reserved
MISCELLANEOUS OPTIONS				
(6A)	BIT(8)	1	SITSTRCD	STATistics Recrdng 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... ..		SITCONFXTX_YES	CONFXTX=YES
	.1... ..		SITCONFDATA_HIDETC	
	..11 11..		*	CONFDATA=HIDETC
	.... ..11		*	Reserved
	.... ..1		SITENCST	ENCRYPTION=STRONG
	.... ..1		SITENCNM	ENCRYPTION=NORMAL
	.... ..1		SITENCWK	ENCRYPTION=WEAK
(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)	BIT(8)	1	SITSMENO	System dump option (DUMP=)
	1... ..		SITSMENDYS	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)	BIT(8)	1	SITRUWA	LE stg management opts
	1... ..		SITRUWPL	ruwapool yes
	.1... ..		SITAUTST	autodst yes
	..11 1111		*	Unused
(81)	CHARACTER	1	*	reserved
(82)	BIT(8)	1	SITMSGCS	Message Case Indicator
	1... ..		SITMSGUP	Uppercase messages only
	.1... ..		SITMSGMX	Mixed Case messages.
	..11 1111		*	Reserved
(83)	BIT(8)	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	SITFRQQR	FORCEQR option
(85)	CHARACTER	1	SITIRCS	IRC session startup option
(86)	CHARACTER	1	SITHPO	HPO option

Offset Hex	Type	Len	Name (Dim)	Description
(87)	CHARACTER	1	SITLPA	Link pack area option
(88)	UNSIGNED	1	SITFERS	Reserved
(89)	CHARACTER	1	SITEODI	Sequ. devices EOD Indicator.
(8A)	CHARACTER	1	*	Reserved
(8B)	CHARACTER	1	SITDTBO	DTB buffers (MJA) (DOS only)
(8C)	BIT(8)	1	SITTRAP	F.E. trap option
	1... ..		SITTRAPO	Global trap required
	.1.. ..		*	Reserved
	..1. ..		*	Reserved
	...1 ..		*	Reserved
	.... 1..		*	Reserved
	.... .1.		*	Reserved
	.... ..1		*	Reserved
(8D)	BIT(8)	1	SITMONCL	Monitor options
	1... ..		SITMONY	Monitor-on
	.1.. ..		SITMONPR	Performance class required
	..1. ..		SITMONEX	Exception class required
	...1 ..		SITMONRS	Resource class req'd
	.... 1..		*	Reserved
	.... .1.		*	Reserved
	.... ..1		*	Reserved
(8E)	BIT(8)	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
(8F)	CHARACTER	4	SITMONFR	MN frequency (0HHMSSC)
(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	4	*	Reserved
(F4)	BIT(8)	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 resrcr check
	.... ..1		SITCMDSE	Always enact command check
(F5)	BIT(8)	1	SITSECF2	SECURITY FLAG BYTE NO. 2
	1... ..		SITXEJB	EJB SECURITY REQUESTED
	.111 1111		*	SPARE
(F6)	BIT(8)	1	SITPLTSC	PLTPI Security options
	1... ..		SITPLTCM	Command level checking
	.1.. ..		SITPLTRS	Resource level checking
	..11 1111		*	Reserved
(F7)	UNSIGNED	1	SITSCOPE	Signon Scope Checking
(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)	CHARACTER	8	SITSECPX	Security Resource Prefix
(10C)	CHARACTER	8	SITPLTID	PLTPI User id
(114)	CHARACTER	16	SITEJBPF	EJB ROLE PREFIX
(124)	CHARACTER	1	SITEMIR	MROFSE: retain mirror
(125)	CHARACTER	3	*	RESERVED
DUMP OPTIONS				
(128)	FULLWORD	4	SITTRNSZ	Size of tran dmp trace
(12C)	CHARACTER	2	*	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

SIT

Offset Hex	Type	Len	Name (Dim)	Description
(14E)	CHARACTER	2	SITFCOMP	Reserved
(150)	BIT(24)	3	SITPRGD	Purge delay interval HHMM
(153)	BIT(8)	1	SITPOPT	BMS process options
	1... ..		*	Reserved
	.1.. ..		SITALGN	Default map aligned
	..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	*	Reserved
(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	*	Reserved
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)	BIT(8)	1	SITCICSF	Storage protection flags
	1... ..		SITSTPRO	STGPROT 0=NO 1=YES
	.1.. ..		SITCWAKY	CWAKEY 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	SITMCPSPF	BMS MCP suffix set by CICS
(1A0)	CHARACTER	2	SITRLRSF	BMS RLR suffix set by CICS
(1A2)	CHARACTER	2	SITPBPSF	BMS PBP suffix set by CICS
(1A4)	CHARACTER	2	SITM32SF	BMS M32 suffix set by CICS
(1A6)	CHARACTER	2	SITPPPSF	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	SITTPX6	TBP exit program 6
(1D2)	CHARACTER	8	SITGRNME	Generic resource applid

Offset Hex	Type	Len	Name (Dim)	Description
(1DA)	CHARACTER	8	SITTBPX1	TBP exit program 1
(1E2)	CHARACTER	8	SITTBPX2	TBP exit program 2
(1EA)	CHARACTER	6	*	Reserved
START-UP OPTIONS				
(1F0)	CHARACTER	1	SITSTRTA	ALL specified on START(Y/N) *
(1F1)	CHARACTER	1	SITSTART	CICS/ESA start-up option
			'A' - START=AUTO	
			'U' - START=(AUTO,ALL)	
			'S' - START=STANDBY	
			'T' - START=(STANDBY,ALL)	
			'C' - START=COLD	
			'I' - START=(COLD,ALL)	
			'I' - START=INITIAL	
			'I' - START=(INITIAL,ALL)	
			'E' - START=EMER	
			'R' - START=(EMER,ALL)	
			'W' - START=WARM	
			'H' - START=(WARM,ALL)	
(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)	BIT(8)	1	SITSOFFS	OFFSITE settings:-
			1...	This is an offsite restart
			.111 1111	*
				Reserved
(1F6)	BIT(8)	1	SITDCTOP	TDINTRA option status
			1...	TDINTRA=EMPTY specified
			.111 1111	*
				Reserved
(1F7)	BIT(8)	1	SITFSSTA	Function ship start option
			1...	Link affinity required
			.111 1111	*
				Reserved
(1F8)	BIT(8)	1	*	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)	BIT(8)	1	SITFEAT	Miscellaneous features
			1...	SITFEAWB
			.1.	*
			.1.	*
			...1	*
			.... 1..	*
			.... .1.	*
			.... ..1.	*
			.... ...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	SITGMMNM	Good Morning Transaction
(207)	CHARACTER	4	SITGNITE	Good Night Transaction
MAXIMUM TASK COUNTS				
(20B)	UNSIGNED	1	*	Reserved
(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)	BIT(8)	1	SITACMTH	Access Method flags
			1...	SITVTAM
			.1.	SITLGNMS
			.1.	LOGONMSG=YES
			...1	*
			.... 1..	Reserved
			.... .1.	SITTCPIP
			.... ..1.	TCPIP=YES
			.... ...1	SITIIOPLISTENER
				IIOPLISTENER=YES
				Reserved
				Reserved
(233)	BIT(8)	1	SITRESP	Logical Unit Response type

SIT

Offset Hex	Type	Len	Name (Dim)	Description
	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
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 autoI (YES|NO|AUTO)
(4D9)	BIT(8)	1	SITCSMOP	CPSMCONN req/type
	1...		SITCSMCM	...CMAS required
	.1..		SITCSMNO	...not required
	..1.		SITCSMLM	...LMAS required
	...1		SITCSMWU	...WUI required
	.... 1...		*	Reserved for CPSM
	.... .1..		*	Reserved for CPSM
	.... ..1.		*	Reserved for CPSM
	.... ...1		*	Reserved for CPSM
(4DA)	CHARACTER	2	*	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)	BIT(8)	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)	BIT(8)	1	SITNEW	NEWSIT= override?
	1...		SITNEWY	...yes
	.1..		*	Reserved
	..1.		*	Reserved
	...1		*	Reserved
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		*	Reserved
	.... ...1		*	Reserved
(512)	BIT(8)	1	SITXSIGN	XRF sign-on byte
	1...		SITXSFRG	Force sign-on requested
	.1..		*	Reserved
	..1.		*	Reserved
	...1		*	Reserved
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		*	Reserved
	.... ...1		*	Reserved

SIT

Offset Hex	Type	Len	Name (Dim)	Description
	.... ...1		*	Reserved
(513)	BITSTRING	1	SITMISC	Miscellaneous bits
	1...		SITRAPLF	RAPOOL FORCE specified
	.1.		SITICMNR	AUTORESETTIME specified
(514)	FULLWORD	4	SITXSFI	PS/XRF signon timeout
(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	*	Reserved
(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)	BIT(8)	1	*	
	1...		SITOPSYS_X	Operating system level
	.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.		DFHDLL_X	Addr of DL/I link list
	.... ...1		DFHAPT_X	Reserved
(539)	BIT(8)	1	*	
	1...		SITCOMA_X	Communications area addr
	.1.		SITOVRPM_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)	BIT(8)	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)	BIT(8)	1	*	
	1...		SITDBLBL_X	DBP= existence bit
	.1.		SITSRVCVY_X	STGRVCVY= existence bit
	.1.		*	Reserved
	...1		SITPSDL_X	PSDL= existence bit
	.... 1...		*	Reserved
	.... .1..		SITTSTG_X	
	.... .1.		SITSVSNO_X	SVC= existence bit
	.... ...1		SITSISNO_X	SRBSVC= existence bit
(53C)	BIT(8)	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)	BIT(8)	1	*	DUMP existence bits
	1...		SITSDUMP_X	DUMP= existence bit
	.1.		SITDMPDS_X	DUMPDS= existence bit
	.1.		SITDMPRT_X	DURETRY= existence bit
	...1		SITDMPSW_X	DUMPSW= existence bit
	.... 1...		SITMSGCS_X	MSGCASE= existence bit
	.... .1..		SITGRNME_X	GRNAME= existence bit
	.... .1.		SITDAE_X	DAE= existence bit
	.... ...1		*	Reserved
(53E)	BIT(8)	1	*	
	1...		SITPRINT_X	PRINT= existence bit
	.1.		SITMSGLV_X	MSGLVL= existence bit
	.1.		SITPL1_X	
	...1		SITRUWPL_X	RUWAPOOL existence
	.... 1...		SITDTYMD_X	DATFORM=YYMMDD existence
	.... .1..		SITDTDMY_X	DATFORM=DDMMYY existence
	.... .1.		SITDTMDY_X	DATFORM=MMDDYY existence
	.... ...1		SITVSPLI_X	
(53F)	BIT(8)	1	*	
	1...		SITIRCS_X	IRC= existence bit
	.1.		SITHPO_X	HPO= existence bit
	.1.		SITLPA_X	LPA= existence bit
	...1		*	Reserved
	.... 1...		SITEODL_X	EODI= existence bit
	.... .1..		SITTCAMO_X	TCAM= existence bit
	.... .1.		*	Reserved

SIT

Offset Hex	Type	Len	Name (Dim)	Description
(540)	BIT(8)	1	SITTRAPO_X	TRAP= existence bit
			SITMONY_X	MN= existence bit
			SITMONPR_X	MNPER= existence bit
			SITMONEX_X	MNEXC= existence bit
			SITMONRS_X	MNRES= existence bit
			SITGRPLI_X	GRPLIST= existence bit
			SITPGCPY_X	PGCOPY= existence bit
			SITPGPRG_X	PGPURGE= existence bit
			SITPGRET_X	PGRET= existence bit
(541)	BIT(8)	1	SITFCOMP_X	
			SITPRGD_X	PRGDLAY= existence bit
			SITALGN_X	ALIGN= existence bit
			SITNDDS_X	NODDS= existence bit
			SITMCTSF_X	MCT= existence bit
(542)	BIT(8)	1	SITCDSA_X	CDSASZE existence bit
			SITUDSA_X	UDSASZE existence bit
			SITSDSA_X	SDSASZE existence bit
			SITRDSA_X	RDSASZE existence bit
			SITECDSA_X	ECDSASZE existence bit
			SITEUDSA_X	EUDSASZE existence bit
			SITESDSA_X	ESDSASZE existence bit
			SITERDSA_X	ERDSASZE existence bit
(543)	CHARACTER	1	*	Reserved *
(544)	FULLWORD	4	*	Reserved
(548)	BIT(8)	1	*	Reserved
			SITSTRTA_X	Reserved
			*	Reserved
			SITSTART_X	START= existence bit
			SITIND_X	
			SITTCOP_X	TCT startup option
			SITDCTOP_X	DCT startup option
			*	Reserved
(549)	BIT(8)	1	SITPPTOP_X	PPT startup option
			SITPCTOP_X	PCT startup option
			SITCSAOP_X	CSA startup option
			SITICPOP_X	ICP startup option
			SITTSPOP_X	TSP startup option
			*	Reserved
			SITBMSOP_X	BMS startup option
			*	Reserved
(54A)	BIT(8)	1	SITMXSTS_X	MAXSSLTCBS override coded
			*	Reserved
			SITPMULT_X	PYTRAGE= existence bit
			SITSBTSK_X	SUBTSKS= existence bit
			SITGMMNM_X	GMTRAN= existence bit
(54B)	BIT(8)	1	*	Reserved (wbhttp not needed@QIC)
			SITMXTSK_X	MXT= existence bits
			SITWBTP_X	WEBDELAY(1) existence bit
			SITWBGCI_X	WEBDELAY(2) existence bit
			SITFEAT1_X	Miscellaneous feature 1
			SITFEAT2_X	Miscellaneous feature 2
			SITFEAT3_X	Miscellaneous feature 3
			SITFEAT4_X	Miscellaneous feature 4
(54C)	BIT(8)	1	SITFEAT5_X	Miscellaneous feature 5
			SITFEAT6_X	Miscellaneous feature 6
			SITFEAT7_X	Miscellaneous feature 7
			SITFEAT8_X	Miscellaneous feature 8
			SITGMTAD_X	CSECT address
			SITSYSID_X	SYSIDNT= existence bit
			SITRAPL_X	RAPOOL= existence bit
			SITHRAPL_X	HPO RAPOOL= existence bit
(54D)	BIT(8)	1	SITOPNDL_X	OPNDLIM= existence bit
			SITVTAM_X	VTAM= existence bit
			SITLGNMS_X	LGNSMG= existence bit
			SITSKRTB_X	SKRxxx= existence bit
			SITTDDBNO_X	TD= existence bit 1st
			SITTDSDNO_X	TD= existence bit 2nd
			SITTSBNO_X	TS= existence bit buffers
			SITSSNO_X	TS= existence bit start
(54E)	BIT(8)	1	SITVMXWE_X	AIQMAX= existence bit
			SITVAXIT_X	AIXIT= existence bit
			SITRAPLF_X	RAPOOL FORCE existence
			*	Reserved
			*	Reserved
			SITUOWNQ_X	UOWNETQL existence bit

SIT

Offset Hex	Type	Len	Name (Dim)	Description
	.... .1.		SITXRFFN_X	XRF= existence bit
	.... .1		SITXRSNS_X	
(54F)	BIT(8)	1	*	
	1...		SITGAPLD_X	APPLID= existence 1st
	.1.		SITSAPLD_X	APPLID= existence 2nd
	.1.		SITPDL_X	PDI= existence bit
	...1		SITTAKE_X	TAKEOVR= existence bit
	.... 1...		SITCLT_X	CLT= existence bit
	.... .1.		SITCLTSF_X	CLT= existence bit
	.... .1.		SITADL_X	ADI= existence bit
	.... .1		SITJDL_X	JESDI= existence bit
(550)	BIT(8)	1	*	
	1...		SITRMTRN_X	RMTRAN= existence bit
	.1.		SITPMERR_X	PARMERR= existence bit
	.1.		SITNEW_X	NEWSIT= existence bit
	...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)	BIT(8)	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)	BIT(8)	1	*	
	1...		SITLUIT_X	LUITTIME 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)	BIT(8)	1	*	
	1...		SITREMDL_X	Remote delete idle
	.1.		SITREMDI_X	Remote delete interval
	.1.		SITCMDPRO_X	CMDPROT existence
	...1		SITTCUAKY_X	TCTUAKEY existence
	.... 1...		SITCWAKY_X	CWAKEY existence
	.... .1.		SITSTPRO_X	STORPROT existence
	.... .1.		SITRNTPGM_X	RENTPGM existence
	.... .1		SITTRNISO_X	TRANISO existence
(554)	BIT(8)	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)	BIT(8)	1	*	
	1...		SITFRCQR_X	FORCEQR override coded
	.1.		SITMXOTS_X	MAXOPENTCBS override coded
	.1.		SITMXJTS_X	MAXJVMTCBS override coded
	...1		SITMXTS_X	MAXXPTCBS override coded
	.... 1...		SITMXSOC_X	MAXSOCKETS override coded
	.... .1.		SITSTEOD_X	STATEOD override coded
	.... .1.		SITSTINT_X	STATINT override coded
	.... .1		SITAUTST_X	AUTODST override coded
(556)	BITSTRING	1	*	
	1...		SITJVMTO_X	JVMLEVEL0TRACE overd coded
	.1.		SITJVMT1_X	JVMLEVEL1TRACE overd coded
	.1.		SITJVMT2_X	JVMLEVEL2TRACE overd coded
	...1		SITJVMTU_X	JVMUSERTRACE overd coded
	.... 1...		SITJVMCP_X	JVMCCPROFILE override coded
	.... .1.		SITJVMCI_X	JVMCCSIZE override coded
	.... .1.		SITJVMCS_X	JVMCCSTART override coded
	.... .1		SITICMNR_X	AUTORESETTIME override coded
(557)	BIT(8)	1	*	
	1...		SITDEBU0_X	DEBUGTOOL override coded
	.1.		SITINFO_X	INFOCENTER override coded
	.11 1111		*	Reserved

The following table defines 64 Trace Selectivity Bits for standard trace. There is one bit for each domain.

(558)	BIT(64)	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)	BIT(64)	8	SITTRXSP	Special Trace Existence
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TRACE SELECTIVITY TABLE

SIT

Offset Hex	Type	Len	Name (Dim)	Description
(568)	CHARACTER	512	SITTRSTB	Beginning of table
(568)	BIT(32)	4	SITTRSTN (64)	Standard trace flags
(668)	BIT(32)	4	SITTRSPC (64)	Special trace flags
NATIONAL LANGUAGES LIST				
(768)	CHARACTER	36	SITLANGS	National Languages list
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	CSDLRNO
(7C6)	HALFWORD	2	SITCSDJI	CSDJID
(7C8)	HALFWORD	2	SITCSDFR	CSDFRLOG
(7CA)	BIT(8)	1	SITCSDRC	CSDRECOV
(7CB)	BIT(8)	1	SITCSIMG	CSDIMAGE
(7CC)	BIT(8)	1	SITCSDAC	CSDACC
(7CD)	BIT(8)	1	SITCSDIS	CSDDISP
(7CE)	BIT(8)	1	*	RLS flags
	1... ..		SITCSRLS	CSD uses RLS
	.1.		SITCSNRI	Integrity=uncommitted
	..1.		SITSCSR	Integrity=consistent
	...1		SITCSRR	Integrity=repeatable
	.... 1111		*	Reserved
(7CF)	BIT(8)	1	SITVRLS	RLS settings
	1... ..		SITRLS	RLS enabled for this CICS
	.1.		SITRTOL	RLS files in pool build
	..11 111.		*	Reserved
	.... ...1		SITCILK	CI lock set for this CICS
AIDELAY KEYWORD				
(7D0)	CHARACTER	4	SITDDL	AIDELAY DELETE DELAY TIME
CLSDSTP KEYWORD				
(7D4)	CHARACTER	1	SITCLSP	CLSDST NOTIFY/NONOTIFY
LLACOPY KEYWORD				
(7D5)	BIT(8)	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)	UNSIGNED	1	SITSSCCH	SSLCACHE 1=CICS 2=Sysplex
(811)	UNSIGNED	3	*	Reserved
(814)	HALFWORD	2	SITSSCRP	CRL server port number
(816)	HALFWORD	2	SITSSCRN	Length of CRL server
(818)	CHARACTER	256	SITSSCRL	Name of CRL LDAP server
(918)	CHARACTER	48	SITSSKYF	SSL Keyring
(948)	HALFWORD	2	SITMXSSL	Max S8 TCBS (MAXSSLTCBS)
MAXSOCKET parameter				
(94C)	UNSIGNED	4	SITMAXSOCKS	MAXSOCKETS
(950)	FULLWORD	4	*	Alignment
(954)	UNSIGNED	4	SITBRMAXKEEPTIME	BRMAXKEEPTIME

SIT

Offset Hex	Type	Len	Name (Dim)	Description
(958)	CHARACTER	1	SITAIBRIDGE	AIBRIDGE Yes/Auto
(959)	CHARACTER	3	*	Reserved
(95C)	CHARACTER	4	SITSTEOD	ST End-of-Day (0HHMMSSC)
(960)	CHARACTER	4	SITSTINT	ST Interval (0HHMMSSC)
(964)	CHARACTER	8	*	Reserved
DISPATCHER Parameters				
(96C)	HALFWORD	2	SITMXJTS	Max JVM TCBs limit
(96E)	HALFWORD	2	SITMXXTS	Max XPLink TCBs limit
(970)	CHARACTER	8	*	Reserved
JVM Trace Option Strings				
(978)	ADDRESS	4	SITJVMTS	JVM Trace Option Strings
JVMPROFILEDIR - Directory in HFS for JVM profiles				
(97C)	CHARACTER	244	SITJVMPD	JVMPROFILEDIR
JVM classcache				
(A70)	CHARACTER	8	SITJVMCP	JVMCCPROFILE
(A78)	CHARACTER	8	SITJVMCI	JVMCCSIZE
(A80)	CHARACTER	1	SITJVMCS	JVMCCSTART
(A81)	CHARACTER	3	*	Reserved for alignment
DEBUGTOOL and INFOCENTER keywords				
(A84)	BIT(8)	1	SITDBTL	DEBUGTOOL setting
	1...		SITDBTLY	Debug Tool is required
	.1.		SITINFOY	Infocentre URL specified
	..11 1111		*	Reserved
(A88)	CHARACTER	256	SITINFOC	URL for infocentre
System defaults for DFHCNV				
(B88)	FULLWORD	4	SITCLICP	Default CLINTCP index
(B8C)	FULLWORD	4	SITSRVCP	Default SRVERCP index
LOCAL CCSID Parameter				
(B90)	FULLWORD	4	SITCCSID	Region wide default CCSID
(B98)	CHARACTER	0	DFHSITEA	End of table label

TRACE SELECTIVITY TABLE REDEFINED

Offset Hex	Type	Len	Name (Dim)	Description
(568)	STRUCTURE	256	SITTRSTA	Redefine the table
(568)	BIT(32)	4	SITTRST1 (15)	Standard trace flags for first 15 domains
(5A4)	BIT(32)	4	SITAPSTN	AP Standard trace flags
(5A8)	BIT(32)	4	SITRMSTN	RM Standard trace flags
(5AC)	BIT(32)	4	SITA2STN	A2 Standard trace flags
(5B0)	BIT(32)	4	SITTRST2 (8)	Standard trace flags for next 8 domains
(5D0)	BIT(192)	24	*	for future domains
(5E8)	BIT(32)	4	SITTRSP1 (15)	Special trace flags for first 15 domains
(624)	BIT(32)	4	SITAPSPC	AP Special trace flags
(628)	BIT(32)	4	SITRMSPC	RM Special trace flags
(62C)	BIT(32)	4	SITA2SPC	AP Special trace flags
(630)	BIT(32)	4	SITTRSP2 (8)	Special trace flags for next 8 domains
(650)	BIT(192)	24	*	for future domains

DL/I EXTENSION OF SIT

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	4	DFHLISTA	
(0)	BIT(8)	1	DLIFLG	Flag value
	1...		*	Reserved
	.1.		*	Reserved
	..1.		*	Reserved
	...1		*	Reserved
	.... 1...		*	Reserved
	.... .1..		*	Reserved
	.... ..1.		DLIPSBCK	PSB checking required
	.... ...1		*	Reserved
(1)	BIT(8)	1	*	Reserved
(2)	CHARACTER	2	DLPDIRSF	PDIR suffix

GOOD MORNING MESSAGE

SIT

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	0	SITGMTXE	Message end

JVM Trace Option Strings

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	968	DFHJVMTS	
(0)	HALFWORD	2	SITJVM0L	Level 0 Option length
(2)	CHARACTER	240	SITJVM0T	Level 0 Option test
(F2)	HALFWORD	2	SITJVM1L	Level 1 Option length
(F4)	CHARACTER	240	SITJVM1T	Level 1 Option test
(1E4)	HALFWORD	2	SITJVM2L	Level 2 Option length
(1E6)	CHARACTER	240	SITJVM2T	Level 2 Option test
(2D6)	HALFWORD	2	SITJVMUL	User Option length
(2D8)	CHARACTER	240	SITJVMUT	User Option test

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
	.... ..1		*	

Constants

Len	Type	Value	Name	Description
Constants				
TCUALOC (TCTTE User Area Location) constants. SITTCUA				
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
1	HEX	61	SITC61	Vers.6, release 1
1	HEX	62	SITC62	Vers.6, release 2
1	HEX	63	SITC63	Vers.6, release 3
1	HEX	64	SITC64	Vers.6, release 4
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	00	YSPPOOL	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	00	SITCSRCA	All
1	HEX	40	SITCSRNC	None
1	HEX	20	SITCSRBC	Backout only
1	HEX	00	SITCSSHA	Static
1	HEX	00	SITCSFUZ	Dynamic
1	HEX	00	SITCSDRO	Read only
1	HEX	40	SITCSDRW	Read Write
1	HEX	00	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

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Len	Type	Value	Name	Description
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				
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

SJCON Java VM domain control blocks

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	488	SJA	
-				
Block header				
(0)	CHARACTER	16	SJA_PREFIX	==== eyecatcher <====
(0)	HALFWORD	2	SJA_LENGTH	length of sja
(2)	CHARACTER	14	SJA_PREFIX_TEXT	>DFHSJAnchor
--				
-				
Domain state information				
(10)	ADDRESS	4	SJA_CEEPIPL_ENTRY	ceepipl entry point
(14)	ADDRESS	4	SJA_LOCK_TOKEN	global lock token
(18)	ADDRESS	4	SJA_JVMPOOL_LOCK_TOKEN	jvmpool lock token
(1C)	ADDRESS	4	SJA_JVMSET_LOCK_TOKEN	jvm set lock token
(20)	ADDRESS	4	SJA_SETTERM_LOCK_TOKEN	set terminate lock token
(24)	CHARACTER	8	SJA_GENERAL_SPTOKEN	general subpool
(2C)	CHARACTER	8	SJA_SJTCB_SPTOKEN	sjtcb subpool
(34)	CHARACTER	8	SJA_SJPTE_SPTOKEN	Profile table
(3C)	CHARACTER	8	SJA_SJVMS_SPTOKEN	sjvms subpool
(44)	CHARACTER	8	SJA_SJSTK_SPTOKEN	suspend chain s/pool
(4C)	CHARACTER	8	SJA_SJUSR_SPTOKEN	User key subpool
(54)	UNSIGNED	1	SJA_SJ_STATE	SJ domain state initialised, quiesced or terminated
(55)	UNSIGNED	1	SJA_FLAGS	Flags
	1... ..		SJA_COLD_START	1=CICS cold started
	.1.. ..		SJA_STORAGE_PROTECT	1=Storage protection on
	..1.		SJA_MVS_STG_THRESHOLD_BREACHED	1=Storage constrained
	...1		SJA_MVS_STG_CUSHION_BREACHED	1=short on storage
 1111		*	Reserved

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Offset Hex	Type	Len	Name (Dim)	Description
(56)	UNSIGNED 1... ..	1	SJA_JVMPOOL_FLAGS SJA_JVMPOOL_ENABLED	Stats last reset time 1=jvmpool is enabled
(57)	UNSIGNED 1111 1... .... .1.. .... ..1. .... ...1	1	* SJA_DATE_FORMAT * SJA_YMMDD SJA_DMMYY SJA_MMDDYY	Reserved Copy of CSADATFT Reserved Format as YMMDD Format as DMMYY Format as MMDDYY
(58)	CHARACTER	56	SJA_STATS_DATA	SJ statistics data
(58)	ADDRESS	4	SJA_STATS_BUFFER_PTR	Statistics buffer
(5C)	CHARACTER	8	SJA_STATS_LAST_RESET_TIME	Stats last reset tim
(64)	FULLWORD	4	SJA_CURRENT_JVMS	Current number of JVMs
(68)	FULLWORD	4	SJA_PEAK_JVMS	Peak number of JVMs
(6C)	FULLWORD	4	SJA_CURRENT_WORKER_JVMS	Current worker JVMs
(70)	FULLWORD	4	SJA_PEAK_WORKER_JVMS	Peak worker JVMs
(74)	FULLWORD	4	SJA_JVM_REQUESTS_TOTAL	Total JVM program reqs
(78)	FULLWORD	4	SJA_JVM_REQUESTS_RESET	JVM reqs - reset mode
(7C)	FULLWORD	4	SJA_JVM_REQUESTS_REUSE	JVM reqs - reuse mode
(80)	FULLWORD	4	SJA_JVM_REQUESTS_INIT	JVM reqs - init
(84)	FULLWORD	4	SJA_JVM_REQUESTS_MISMATCH	JVM reqs - mismatch
(88)	FULLWORD	4	SJA_JVM_REQUESTS_TERMINATE	JVM reqs - terminate
(8C)	FULLWORD	4	SJA_JVM_REQUESTS_CACHE	JVM reqs - classcache
# (90)	FULLWORD	4	*	
(98)	OBJECT IsA(HOP_DCHAIN)	40	SJA_JVMPOOL_SJTCBS	
(98)	CHARACTER	4	*	
(A0)	OBJECT IsA(HOP_DCHAINNODE)	16	ITER0	
(A0)	CHARACTER	4	*	
(A8)	CHARACTER	8	*	
(A8)	ADDRESS	4	PREV	
(AC)	ADDRESS IsA(HOP_DCHAINNODE@)	4	NEXT	
(B0)	OBJECT IsA(HOP_DCHAINNODE)	16	NODE0	
(B0)	CHARACTER	4	*	
(B8)	CHARACTER	8	*	
(B8)	ADDRESS	4	PREV	
(BC)	ADDRESS IsA(HOP_DCHAINNODE@)	4	NEXT	
(C0)	ADDRESS	4	SJA_SJCCH_PTR	Address of ClassCache control block (sjcch)
(C4)	ADDRESS	4	SJA_SJPTE_ANCHOR	Profile table
(C8)	CHARACTER	9	SJA_APPLID	Null-terminated
(C8)	CHARACTER	8	SJA_APPLID_AREA	Applid + nulls
(D0)	CHARACTER	1	SJA_APPLID_TERMINATOR	For 8 byte applid
(D1)	UNSIGNED	1	SJA_USER_EXEC_KEY	Copy of CSAUSKEY
(D2)	UNSIGNED	1	SJA_CICS_EXEC_KEY	Copy of CSACIKEY
(D3)	CHARACTER	1	*	Reserved
(D4)	HALFWORD	2	SJA_JVM_TRACE_OPTIONL (4)	4 trace option lens
(DC)	ADDRESS	4	SJA_JVM_TRACE_OPTIONS (4)	4 trace option strs
(EC)	FULLWORD	4	SJA_PROFILE_DIR_LEN	len JVMPROFILEDIR
(F0)	CHARACTER	244	SJA_PROFILE_DIR	SIT JVMPROFILEDIR
(1E4)	CHARACTER	4	*	Reserved
--				
(1E8)	CHARACTER	0	SJA_END	

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Constants

Len	Type	Value	Name	Description
1	HEX	FF	HOP_TRUE	
1	HEX	00	HOP_FALSE	
-				
Message numbers and system dumpcode values				
1	DECIMAL		1	MNO_ABEND
8	CHARACTER	SJ0001		DCD_ABEND
1	DECIMAL		2	MNO_SEVERE_ERROR
8	CHARACTER	SJ0002		DCD_SEVERE_ERROR
1	DECIMAL		3	MNO_NO_STORAGE
8	CHARACTER	SJ0003		DCD_NO_STORAGE
SJDM 101 - 199 dcl msg_sjdm_xxxxx fixed bin (16) constant (101); SJIN 201 - 299				
2	DECIMAL		201	MSG_SJIN_ INIT_SUB_DP_FAILED
8	CHARACTER	SJ0201		DCD_SJIN_ INIT_SUB_DP_FAILED
2	DECIMAL		202	MSG_SJIN_TERM_FAILED
8	CHARACTER	SJ0202		DCD_SJIN_TERM_FAILED
2	DECIMAL		203	MSG_SJIN_ CALL_SUB_0_FAILED
8	CHARACTER	SJ0203		DCD_SJIN_ CALL_SUB_0_FAILED
2	DECIMAL		204	MSG_SJIN_ CALL_SUB_1_FAILED
8	CHARACTER	SJ0204		DCD_SJIN_ CALL_SUB_1_FAILED
2	DECIMAL		205	MSG_SJIN_ CALL_SUB_2_FAILED
8	CHARACTER	SJ0205		DCD_SJIN_ CALL_SUB_2_FAILED
SJIS 301 - 399 dcl msg_sjis_xxxxx fixed bin (16) constant (301); SJST 401 - 499 dcl msg_sjst_xxxxx fixed bin (16) constant (401); SJCS 501 - 599				
2	DECIMAL		501	MSG_SJCS_NO_WRAPPER
2	DECIMAL		502	MSG_SJCS_CHDIR_FAILED
2	DECIMAL		503	MSG_SJCS_ DLLLOAD_FAILED
2	DECIMAL		504	MSG_SJCS_ INVALID_PROFILE
2	DECIMAL		505	MSG_SJCS_ OPEN_FAILED_A
2	DECIMAL		506	MSG_SJCS_ UNKNOWN_PARM
2	DECIMAL		507	MSG_SJCS_ UNKNOWN_OPTION
2	DECIMAL		508	MSG_SJCS_ OPTION_IGNORED
2	DECIMAL		509	MSG_SJCS_ OPEN_FAILED_B
2	DECIMAL		510	MSG_SJCS_ FETCH_URM_FAILED
2	DECIMAL		511	MSG_SJCS_ WORK_DIR_READONLY
2	DECIMAL		512	MSG_SJCS_ CONCAT_FOUND_EOF
2	DECIMAL		513	MSG_SJCS_ CANT_BUILD_TMCP
2	DECIMAL		514	MSG_SJCS_ PROB_IN_PROFILE
2	DECIMAL		515	MSG_SJCS_ PROB_IN_SYSPROP
2	DECIMAL		516	MSG_SJCS_ CREATEJVM_FAILED
8	CHARACTER	SJ0516		DCD_SJCS_ CREATEJVM_FAILED
2	DECIMAL		517	MSG_SJCS_MISSING_PARM
2	DECIMAL		518	MSG_SJCS_ GETJVMEXT_FAILED
8	CHARACTER	SJ0518		DCD_SJCS_ GETJVMEXT_FAILED
2	DECIMAL		519	MSG_SJCS_ PARAM_CONFLICT
2	DECIMAL		520	MSG_SJCS_INVALID_PARM

Len	Type	Value	Name	Description
SJCC 601 - 699				
ddl msg_sjcc_xxxxx fixed bin (16) constant (601);				
SJJM 701 - 799				
2	DECIMAL	701	MSG_SJMJ_	INVALID_START_TYPE
2	DECIMAL	702	MSG_SJMJ_	ADD_TCB_FAILED
2	DECIMAL	703	MSG_SJMJ_	CHANGE_MODE_FAILED
2	DECIMAL	704	MSG_SJMJ_	RESTORE_MODE_FAILED
2	DECIMAL	705	MSG_SJMJ_	DELETE_TCB_FAILED
2	DECIMAL	706	MSG_SJMJ_	INIT_SUB_DP_FAILED
2	DECIMAL	707	MSG_SJMJ_	CALL_SUB_FAILED
2	DECIMAL	708	MSG_SJMJ_TERM_FAILED	
SJJL 801 - 899				
2	DECIMAL	801	MSG_SJL_	CREATEJVM_FAILED
8	CHARACTER	SJ0801	DCD_SJL_	CREATEJVM_FAILED
2	DECIMAL	802	MSG_SJL_	DLLLOAD_FAILED
2	DECIMAL	803	MSG_SJL_CHDIR_FAILED	
--				
2	HEX	0101	TID_SJDM_ENTRY	
2	HEX	0102	TID_SJDM_EXIT	
2	HEX	0103	TID_SJDM_RECOVERY	
2	HEX	0104	TID_SJDM_	INVALID_FORMAT
2	HEX	0105	TID_SJDM_	INVALID_FUNCTION
2	HEX	0106	TID_SJDM_	RELEASE_LOCK_ERROR
2	HEX	0107	TID_SJDM_	NO_STORAGE_FOR_SJA
2	HEX	0108	TID_SJDM_	NO_STORAGE_FOR_STATS
2	HEX	0109	TID_SJDM_	NO_STORAGE_FOR_SJCCH
2	HEX	010A	TID_SJDM_	INQ_STGPROT_FAILED
2	HEX	0201	TID_SJIN_ENTRY	
2	HEX	0202	TID_SJIN_EXIT	
2	HEX	0203	TID_SJIN_RECOVERY	
2	HEX	0204	TID_SJIN_INVALID_FORMAT	
2	HEX	0205	TID_SJIN_	INVALID_FUNCTION
2	HEX	0206	TID_SJIN_	GET_LOCK_ERROR
2	HEX	0207	TID_SJIN_	RELEASE_LOCK_ERROR
2	HEX	0208	TID_SJIN_	INVALID_DSAT_FUNCTION
2	HEX	0209	TID_SJIN_PIPEL_CALL	
2	HEX	020A	TID_SJIN_PIPEL_RETURN	
2	HEX	020B	TID_SJIN_PIPEL_EXC	
2	HEX	020C	TID_SJIN_	SYSTEM_EXIT_FROM_JVM
2	HEX	020D	TID_SJIN_	INVALID_RET_FROM_JVM
2	HEX	020E	TID_SJIN_	UNKNOWN_FATAL_JVM_ERROR
2	HEX	020F	TID_SJIN_	INVALID_URM_CALL
2	HEX	0210	TID_SJIN_	TRANSACTION_ABENDING
2	HEX	0211	TID_SJIN_	TRANSACTION_ABENDED
2	HEX	0212	TID_SJIN_	JVM_SYSTEM_EXIT
2	HEX	0213	TID_SJIN_	UNEXPECTED_ABEND
2	HEX	0214	TID_SJIN_	INVALID_URM_FETCH
2	HEX	0215	TID_SJIN_	INIT_SUB_DP_FAILED
2	HEX	0216	TID_SJIN_TERM_FAILED	
2	HEX	0217	TID_SJIN_	CALL_SUB_0_FAILED
2	HEX	0218	TID_SJIN_	CALL_SUB_1_FAILED

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Len	Type	Value	Name	Description
2	HEX	0219	TID_SJIN_	
			CALL_SUB_2_FAILED	
2	HEX	0220	TID_SJIN_DESTROY_JVM	
2	HEX	0221	TID_SJIN_	
			DESTROY_ENCLAVE	
2	HEX	0222	TID_SJIN_	
			RESET_JVM_OP_STREAMS	
2	HEX	0223	TID_SJIN_	
			CALL_SUB_3_FAILED	
2	HEX	0224	TID_SJIN_	
			INVOKE_WRAPPER	
2	HEX	0301	TID_SJIS_ENTRY	
2	HEX	0302	TID_SJIS_EXIT	
2	HEX	0303	TID_SJIS_RECOVERY	
2	HEX	0304	TID_SJIS_INVALID_FORMAT	
2	HEX	0305	TID_SJIS_	
			INVALID_FUNCTION	
2	HEX	0306	TID_SJIS_	
			GET_LOCK_ERROR	
2	HEX	0307	TID_SJIS_	
			RELEASE_LOCK_ERROR	
2	HEX	0308	TID_SJIS_	
			INVALID_DSIT_FORMAT	
2	HEX	0309	TID_SJIS_	
			CANCEL_TASK_ERROR1	
2	HEX	030A	TID_SJIS_	
			CANCEL_TASK_ERROR2	
2	HEX	030B	TID_SJIS_	
			CANCEL_TASK_ERROR3	
2	HEX	030C	TID_SJIS_	
			DELETE_ALL_TCBS_ERROR	
2	HEX	030D	TID_SJIS_	
			JVMTRACE_SET_OPT	
2	HEX	030E	TID_SJIS_	
			JVMTRACE_GET_OPT	
2	HEX	0401	TID_SJST_ENTRY	
2	HEX	0402	TID_SJST_EXIT	
2	HEX	0403	TID_SJST_RECOVERY	
2	HEX	0404	TID_SJST_	
			INVALID_FORMAT	
2	HEX	0405	TID_SJST_	
			INVALID_FUNCTION	
2	HEX	0406	TID_SJST_INVALID_PARMS	
2	HEX	0407	TID_SJST_	
			GET_EXC_LOCK_ERROR	
2	HEX	0408	TID_SJST_	
			RELEASE_EXC_LOCK_	
			ERROR	
2	HEX	0409	TID_SJST_	
			GET_SHR_LOCK_ERROR	
2	HEX	0410	TID_SJST_	
			RELEASE_SHR_LOCK_	
			ERROR	
2	HEX	0411	TID_SJST_	
			RECOVERY_RELEASE_	
			LOCK_ERROR	
2	HEX	0412	TID_SJST_	
			UNKNOWN_KE_ERROR_	
			CODE	
2	HEX	0501	TID_SJCS_SJCSBLD_ENTRY	
2	HEX	0502	TID_SJCS_SJCSBLD_EXIT	
2	HEX	0503	TID_SJCS_	
			SJCSCALL_ENTRY	
2	HEX	0504	TID_SJCS_SJCSCALL_EXIT	
2	HEX	0505	TID_SJCS_	
			SJCSDES_ENTRY	
2	HEX	0506	TID_SJCS_SJCSDES_EXIT	
2	HEX	0507	TID_SJCS_RECOVERY	
2	HEX	0508	TID_SJCS_CHDIR_FAILED	
2	HEX	0509	TID_SJCS_	
			CREATEJVM_BEFORE	
2	HEX	050A	TID_SJCS_	
			CREATEJVM_AFTER	
2	HEX	050B	TID_SJCS_	
			DEL_RECOVERY_FAILED	
2	HEX	050C	TID_SJCS_	
			CREATEJVM_FAILED	
2	HEX	050D	TID_SJCS_	
			FINDCLASS_BEFORE	
2	HEX	050E	TID_SJCS_	
			FINDCLASS_AFTER	
2	HEX	050F	TID_SJCS_	
			FINDCLASS_FAILED	
2	HEX	0510	TID_SJCS_	
			GETMETHOD_BEFORE	
2	HEX	0511	TID_SJCS_	
			GETMETHOD_AFTER	
2	HEX	0512	TID_SJCS_	
			GETMETHOD_FAILED	

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Len	Type	Value	Name	Description
2	HEX	0513	TID_SJCS_	
2	HEX	0514	BUILDDARGS_BEFORE	
2	HEX	0515	BUILDDARGS_AFTER	
2	HEX	0516	BUILDDARGS_FAILED	
2	HEX	0517	EXECUTECLASS_BEFORE	
2	HEX	0518	EXECUTECLASS_AFTER	
2	HEX	0519	WRAPPER_EXCEPTION	
2	HEX	051A	RESETJVM_BEFORE	
2	HEX	051B	RESETJVM_AFTER	
2	HEX	051C	DESTROYJVM_BEFORE	
2	HEX	051D	DESTROYJVM_AFTER	
2	HEX	051E	DESTROYJVM_FAILED	
2	HEX	051F	TID_SJCS_ INITARGS_DATA	
2	HEX	0520	TID_SJCS_ ADD_RECOVERY_FAILED	
2	HEX	0521	TID_SJCS_ FETCHURM_BEFORE	
2	HEX	0522	TID_SJCS_ FETCHURM_AFTER	
2	HEX	0523	TID_SJCS_ INVALID_URM_FETCH	
2	HEX	0524	TID_SJCS_ INVURM_BEFORE	
2	HEX	0525	TID_SJCS_ INVURM_AFTER	
2	HEX	0526	TID_SJCS_ DLLLOAD_FAILED	
2	HEX	0527	TID_SJCS_ SETVMARGS_ENTRY	
2	HEX	0528	TID_SJCS_ SETVMARGS_EXIT	
2	HEX	0529	TID_SJCS_ INVALID_PROFILE	
2	HEX	052A	TID_SJCS_ FETCH_URM_FAILED	
2	HEX	052D	TID_SJCS_ WORK_DIR_READONLY	
2	HEX	052E	TID_SJCS_ SET_JVMTRACE_BEFORE	
2	HEX	052F	TID_SJCS_ SET_JVMTRACE_OPTION	
2	HEX	0530	TID_SJCS_ SET_JVMTRACE_MEMERR	
2	HEX	0531	TID_SJCS_ SET_JVMTRACE_JNIERR	
2	HEX	0532	TID_SJCS_ SET_JVMTRACE_RASERR	
2	HEX	0533	TID_SJCS_ SET_JVMTRACE_AFTER	
2	HEX	0534	TID_SJCS_ DFHSJCSL_SWITCH	
2	HEX	0535	TID_SJCS_ ENVPARMS_UNRECOG	
2	HEX	0601	TID_SJCS_ GETJVMEXT_FAILED	
2	HEX	0602	TID_SJCC_ENTRY	
2	HEX	0603	TID_SJCC_EXIT	
2	HEX	0604	TID_SJCC_RECOVERY	
2	HEX	0605	TID_SJCC_ INVALID_FORMAT	
2	HEX	0606	TID_SJCC_ INVALID_FUNCTION	
2	HEX	0607	TID_SJCC_ GET_LOCK_ERROR	
2	HEX	0608	TID_SJCC_ RELEASE_LOCK_ERROR	
2	HEX	0609	TID_SJCC_ ATTACH_DFHSJMM_FAILED	
2	HEX	060A	TID_SJCC_STOP_JVMSET	
2	HEX	060B	TID_SJCC_WAIT_ECB	
2	HEX	060C	TID_SJCC_POST_ECB	
2	HEX	060D	TID_SJCC_ RESUME_WAITERS	
2	HEX	060E	TID_SJCC_ INVALID_CC_STATE	
2	HEX	060F	TID_SJCC_ CANCEL_TASK_ERROR1	
2	HEX	060F	TID_SJCC_ CANCEL_TASK_ERROR2	

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Len	Type	Value	Name	Description
2	HEX	0610	TID_SJCC_	
			CANCEL_TASK_ERROR3	
2	HEX	0611	TID_SJCC_	
			WAIT_MVS_ERROR	
2	HEX	0701	TID_SJMM_ENTRY	
2	HEX	0702	TID_SJMM_EXIT	
2	HEX	0703	TID_SJMM_INVALID_START_	
			TYPE	
2	HEX	0704	TID_SJMM_	
			ADD_TCB_FAILED	
2	HEX	0705	TID_SJMM_	
			CHANGE_MODE_FAILED	
2	HEX	0706	TID_SJMM_	
			RESTORE_MODE_FAILED	
2	HEX	0707	TID_SJMM_	
			DELETE_TCB_FAILED	
2	HEX	0708	TID_SJMM_	
			INIT_SUB_DP_FAILED	
2	HEX	0709	TID_SJMM_	
			CALL_SUB_FAILED	
2	HEX	070A	TID_SJMM_TERM_FAILED	
2	HEX	0801	TID_SJL_ENTRY	
2	HEX	0802	TID_SJL_EXIT	
2	HEX	0803	TID_SJL_CREATE_MASTER	
2	HEX	0804	TID_SJL_	
			CREATEJVM_FAILED	
2	HEX	0805	TID_SJL_	
			DESTROYED_MASTER	
2	HEX	0806	TID_SJL_DLLLOAD_FAILED	
2	HEX	0807	TID_SJL_CHDIR_FAILED	
2	HEX	0901	TID_SJSM_ENTRY	
2	HEX	0902	TID_SJSM_EXIT	
2	HEX	4D00	TID_APJVMT_	
			JVMTRACE_PLUGIN	
2	HEX	4D01	TID_APJVMT_	
			JVMTRACE_TRACEPOINT	
4	CHARACTER	ASJA	ABEND_ASJA	
4	CHARACTER	ASJB	ABEND_ASJB	
4	CHARACTER	ASJC	ABEND_ASJC	
4	CHARACTER	ASJD	ABEND_ASJD	
4	CHARACTER	ASJE	ABEND_ASJE	
4	CHARACTER	ASJF	ABEND_ASJF	
4	CHARACTER	ASJG	ABEND_ASJG	
4	CHARACTER	ASJH	ABEND_ASJH	
4	CHARACTER	ASJI	ABEND_ASJI	
4	CHARACTER	ASJ1	ABEND_ASJ1	
4	CHARACTER	ASJ2	ABEND_ASJ2	
4	CHARACTER	ASJ3	ABEND_ASJ3	
4	CHARACTER	ASJ4	ABEND_ASJ4	
4	CHARACTER	ASJ5	ABEND_ASJ5	
4	CHARACTER	ASJ6	ABEND_ASJ6	
4	CHARACTER	ASJ7	ABEND_ASJ7	
4	CHARACTER	ASJ9	ABEND_ASJ9	
4	DECIMAL	0	RC_SJCS_OK	
4	DECIMAL	0	RC_SJL_OK	
4	DECIMAL	1	RC_SJCS_NO_PROFILE	
4	DECIMAL	2	RC_SJCS_NO_PROPERTIES	
4	DECIMAL	3	RC_SJCS_NO_AUTOSTART	
4	DECIMAL	4	RC_SJCS_INVALID_INDEX	
4	DECIMAL	5	RC_SJL_DLLLOAD_FAILED	
4	DECIMAL	6	RC_SJL_MASTER_	
			JVM_ABENDED	
4	DECIMAL	13	RC_SJCS_ABORT_DRIVEN	
4	DECIMAL	998	RC_SJL_DISASTER	
4	DECIMAL	999	RC_SJCS_DISASTER	
4	DECIMAL	0	IX_SJCS_BUILD	
4	DECIMAL	1	IX_SJCS_DESTROY	
4	DECIMAL	2	IX_SJCS_CALL	

--
-
SJ Domain States (printed in formatted dump)

1	DECIMAL	1	SJ_STATE_INITIALISING
1	DECIMAL	2	SJ_STATE_INITIALISED
1	DECIMAL	3	SJ_STATE QUIESCING
1	DECIMAL	4	SJ_STATE QUIESCED
1	DECIMAL	5	SJ_STATE_TERMINATED

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-
ClassCache states

1	DECIMAL	1	SJ_CACHE_STOPPED
1	DECIMAL	2	SJ_CACHE_STARTED
1	DECIMAL	3	SJ_CACHE_STARTING
1	DECIMAL	4	SJ_CACHE_RELOADING

Len	Type	Value	Name	Description
--	-			
Literals				
2	CHARACTER	SJ	COMPID	
8	CHARACTER	SJGENRAL	SPNAME_GENERAL	
8	CHARACTER	SJSJTCB	SJ_SJTCB_SP	
8	CHARACTER	SJSJTBCB	SJ_SJTCB_CE_SP	
8	CHARACTER	SJSJVMS	SJ_SJVMS_SP	
8	CHARACTER	SJSJPTE	SJ_SJPTE_SP	
8	CHARACTER	SJSJSTK	SJ_SJSTK_SP	
8	CHARACTER	SJUSERKY	SJ_SJUSR_SP	
14	CHARACTER	>DFHSJANCHOR	SJA_EYE_CATCHER	
14	CHARACTER	>DFHSJ-SJTCB	SJTCB_EYE_CATCHER	
8	CHARACTER	HISTORY	SJTCB_HL_EYECATCH	
14	CHARACTER	>DFHSJ-SJCCH	SJCCH_EYE_CATCHER	
14	CHARACTER	>DFHSJ-SJVMS	SJVMS_EYE_CATCHER	
8	CHARACTER	SJGLOBAL	SJ_LOCK	
8	CHARACTER	SJVMPOOL	SJ_JVMPOOL_LOCK	
8	CHARACTER	SJSETTRM	SJ_SETTERM_LOCK	
8	CHARACTER	SJJVMSET	SJ_JVMSET_LOCK	
8	CHARACTER	SJCCACHE	SJ_CCACHE_LOCK	
4	DECIMAL		1	SJ_JVM_LEVEL0_TRACE
4	DECIMAL		2	SJ_JVM_LEVEL1_TRACE
4	DECIMAL		3	SJ_JVM_LEVEL2_TRACE
4	DECIMAL		4	SJ_JVM_USER_TRACE
4	CHARACTER	NONE		SJ_JVM_TRACE_NONE
1	CHARACTER	*		SJ_JVM_TRACE_RESET
6	CHARACTER	LEVEL0		SJ_JVM_LEVEL0_TRACE_OPTION
6	CHARACTER	LEVEL1		SJ_JVM_LEVEL1_TRACE_OPTION
6	CHARACTER	LEVEL2		SJ_JVM_LEVEL2_TRACE_OPTION
4	CHARACTER	NONE		SJ_JVM_USER_TRACE_OPTION
--	-			
Misc. constants				
4	DECIMAL	4096		SJ_STATS_BUFFER_SIZE
4	DECIMAL	32		SJ_HISTORY_LIST_SIZE
--	-			
Error codes (for DFHKERN RECOVERY_REQUEST)				
4	CHARACTER	ASJA		LOCK_ERROR_CODE
4	CHARACTER	ASJB		UNLOCK_ERROR_CODE
4	DECIMAL		1	SJ_OK
4	DECIMAL		2	SJ_EXCEPTION
4	DECIMAL		3	SJ_DISASTER
4	DECIMAL		4	SJ_INVALID
4	DECIMAL		6	SJ_PURGED
--	-			
Next we declare the common bit variable constants.				
0	BIT	1		TRUE
0	BIT	0		FALSE
0	BIT	1		YES
0	BIT	0		NO
0	BIT	1		ON
0	BIT	0		OFF
1	DECIMAL		9	USER_KEY
1	DECIMAL		8	CICS_KEY

SJGDS

SJGDS JVMPOOL Global Statistics

```

CONTROL BLOCK NAME = DFHSJGDS
DESCRIPTIVE NAME = CICS Jvmpool Global Statistics
  @BANNER_START 02
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5697-E93
  @BANNER_END
FUNCTION =
  This data area contains the jvmpool global statistics
  provided by the JVM 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 JVM Domain to store
  statistics to be passed to the user in response to a
  request for jvmpool 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 DFHSJGDS 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)	STRUCTURE	0	DFHSJGDS	Jvmpool Global stats record
(0)	HALFWORD	2	SJGDS_LEN	Jvmpool Global stats record length
(2)	ADDRESS	2	SJGDS_ID	Jvmpool Global stats id
(4)	CHARACTER	1	SJGDS_VERS	Jvmpool Global stats version
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	SJG_CURRENT_JVMS	Current JVMs
(C)	FULLWORD	4	SJG_PEAK_JVMS	Peak JVMs
(10)	FULLWORD	4	SJG_JVM_REQS_TOTAL	Total JVM program requests
(14)	FULLWORD	4	SJG_JVM_REQS_REUSE	JVM requests - with JVM reuse
(18)	FULLWORD	4	SJG_JVM_REQS_INIT	JVM requests - JVM initialised
(1C)	FULLWORD	4	SJG_JVM_REQS_MISMATCH	JVM requests - JVM mismatch
(20)	FULLWORD	4	SJG_JVM_REQS_TERMINATE	JVM requests - JVM terminated
(24)	FULLWORD	4	SJG_JVM_REQS_RESET	JVM requests - with JVM reset
(28)	FULLWORD	4	SJG_CURRENT_CACHE_JVMS	Current worker (class cache) JVMs
(2C)	FULLWORD	4	SJG_PEAK_CACHE_JVMS	Peak worker (class cache) JVMs
(30)	FULLWORD	4		Reserved
(34)	FULLWORD	4	SJG_JVM_REQS_CACHE	JVM requests - Class Cache
(38)	FULLWORD	4		Reserved
(3C)	CHARACTER	8		Reserved
	.1.. .1..		SJGDS_END	""
	.1.. .1..		SJGDS_LENGTH	""-SJGDS_LEN" Jvmpool stats record length

SJRDS JVMPROFILE Resource Statistics

```

CONTROL BLOCK NAME = DFHSJRDS
DESCRIPTIVE NAME = CICS ....
  @BANNER_START 02
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5697-E93
  @BANNER_END
FUNCTION =
  This data area contains the Jvmprofile statistics provided
  by the SJ 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 SJ Domain to store
  statistics to be passed to the user in response to a
  for JVMPROFILE 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

```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHSJRDS	Jvmprofile Resid stats record
(0)	HALFWORD	2	SJRDS_LEN	Jvmprofile stats record length
(2)	ADDRESS	2	SJRDS_ID	Jvmprofile stats id
(4)	CHARACTER	1	SJRDS_VERS	Jvmprofile stats version
(5)	CHARACTER	3		Reserved
	.... 1...		SJRDS_HDR_END	*** End of stats record header
	.... 1...		SJRDS_HDR_LEN	**SJRDS_LEN* Stats record header length
Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	SJR_PROFILE_HEADER	Jvmprofile Stats Header
(0)	CHARACTER	8	SJR_PROFILE_NAME	Jvmprofile Name
(8)	CHARACTER	255	SJR_PROFILE_PATH_NAME	Jvmprofile HFS Path Name
(107)	BITSTRING	1		Reserved
(108)	BITSTRING	1	SJR_PROFILE_CLASS_CACHE	Jvmprofile Class Cache Setting
(109)	BITSTRING	3		Reserved
(10C)	BITSTRING	8		Reserved
(114)	HALFWORD	2	SJR_PROFILE_MODES	No. Jvmprofile modes
(116)	BITSTRING	2		Reserved
(116)		0	SJR_PROFILE_HDR_END	*** End of jvmprofile stats header
(116)		0	SJR_PROFILE_HDR_LEN	**SJR_PROFILE_HEADER* Jvmprofile header len
Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	SJR_PROFILE_MODE_STATS	Jvmprofile Mode Stats
(0)	BITSTRING	1	SJR_STORAGE_KEY	Jvmprofile Storage key (CICS/USER)
(1)	BITSTRING	3		Reserved
(4)	FULLWORD	4	SJR_PROFILE_REQUESTS	Jvmprofile Request count
(8)	FULLWORD	4	SJR_CURR_PROFILE_USE	Current jvmprofile use count
(C)	FULLWORD	4	SJR_PEAK_PROFILE_USE	Peak jvmprofile use count
(10)	FULLWORD	4	SJR_NEW_JVMS_CREATED	

SJRDS

Offset Hex	Type	Len	Name (Dim)	Description
(14)	FULLWORD	4	SJR_JVMS_UNRESETTABLE	New JVMs created No. JVMs Unresettable
(18)	FULLWORD	4	SJR_MISMATCH_STEALER	No. times mismatch stealer
(1C)	FULLWORD	4	SJR_MISMATCH_VICTIM	No. times mismatch victim
(20)	FULLWORD	4	SJR_LE_HEAP_HWM	LE heap hwm used by JVMs
(24)	FULLWORD	4	SJR_JVM_HEAP_HWM	Nonsystem heap hwm used by JVMs
(28)	FULLWORD	4	SJR_JVMS_DESTROYED_SOS	Times JVMs destroyed by 'SOS' action
(2C)	BITSTRING	8		Reserved
(34)	BITSTRING	4		Reserved
(38)	CHARACTER	8	SJR_PROFILE_XMX_VALUE	Jvmprofile -Xmx value
(40)	BITSTRING	8	SJR_PROFILE_MODE_END	Reserved
	.1.. 1...		SJR_PROFILE_MODE_END	*** End of a jvmprofile mode stats
	.1.. 1...		SJR_PROFILE_MODE_LEN	***-SJR_PROFILE_MODE_STATS" Jvmprofile mode len
	.1.. 1...		SJRDS_END	***
(40)		0	SJRDS_LENGTH	"SJRDS_HDR_LEN+SJR_PROFILE_HDR_LEN+SJR_NUM_MODES*SJR_"
Constants that denote a SJ Jvmprofile stats record				
	.111 .11.		SJR_IDR	"118" Jvmprofile resid stats id
	.... ..1		SJR_VERS	"X'01" Record version number
Equates for testing SJR_PROFILE_CLASS_CACHE				
	.... ..1		SJR_CLASS_CACHE_NO	"1"
	.... ..1.		SJR_CLASS_CACHE_YES	"2"
Equates for testing SJR_STORAGE_KEY				
	.... ..1		SJR_CICS_KEY	"1"
	.... ..1.		SJR_USER_KEY	"2"
Equate for Number of Modes				
	.... ..1.		SJR_NUM_MODES	"2"

SKA SKP subtask control area

CONTROL BLOCK NAME = DFHSKAPS
 DESCRIPTIVE NAME = CICS (SKP) Subtask Control Area.
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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
				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

SKA

Offset Hex	Type	Len	Name (Dim)	Description
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 DFHSKC ONLY				
(2C)	BIT(8)	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)	BIT(8)	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
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)	BIT(8)	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

Offset Hex	Type	Len	Name (Dim)	Description
	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	0	SKAEND	end of DFHSKAPS

SKRQ Subtask management parameter block

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	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 ...		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

SKW

Offset Hex	Type	Len	Name (Dim)	Description
(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
...1 11..			SKRQSIZE	"*-DFHSKRQ" SIZE IN BYTES

SKW SKP work queue element

CONTROL BLOCK NAME = DFHSKWPS
 DESCRIPTIVE NAME = CICS (SKP) Work Queue Element (WQE)
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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

Offset Hex	Type	Len	Name (Dim)	Description
				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)	BIT(8)	1	SKWFLAGS	flags - TRUE means..
				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.
 @BANNER_START 02
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 5697-E93
 @BANNER_END
 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)	STRUCTURE	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				
	...1 ...1		SLD3604	"X'11" KEYBOARD DISPLAY
	...1 .111		SLD3610	"X'17" DOCUMENT PRINTER
	...1 1..1		SLD3612	"X'19" PASSBOOK & DOCUMENT PRINTER
	..1.		SLD3618	"X'20" ADMINISTRATIVE LINE PRINTER
	..1. ...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)
	...1		SLDCBLD1	"X'10" DISK 1
	...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

SMD

Offset Hex	Type	Len	Name (Dim)	Description
(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.		SLDCPO1	"X'06" OII LEVEL 1
	.... .111		SLDCPO2	"X'07" OII LEVEL 2
	.... 1...		SLDCPO3	"X'08" OII LEVEL 3
Other values are reserved				
	...1		SLDCEND	*** END OF SYSTEM LDC ENTRY
	...1		SLDCLEN	**"-DFHSLDC" LENGTH OF SYSTEM LDC ENTRY

SMD domain subpool storage statistics

CONTROL BLOCK NAME = DFHSMDDS
DESCRIPTIVE NAME = CICS Storage statistics for domain
subpools.
@BANNER_START 02
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5697-E93
@BANNER_END
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)	STRUCTURE	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

Offset Hex	Type	Len	Name (Dim)	Description
.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			SMDECDSA	"5"
.... ..111			SMDESDSA	"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.
 @BANNER_START 02
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 5697-E93
 @BANNER_END
 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)	STRUCTURE	0	DFHSMFDS	
(0)	BITSTRING	2	SMFLEN	Record length
(2)	BITSTRING	2	SMFSEG	Segment descriptor
(4)	BITSTRING	1	SMFFLG	Operating system indicator
11..			SMFESA	"X'CO" MVS/ESA fixed indicators
(5)	BITSTRING	1	SMFRTY	Record type 110 for CICS
(6)	BITSTRING	4	SMFTME	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

SMF

Offset Hex	Type	Len	Name (Dim)	Description
End of SMF-Header.				
Start of JC SMF Product-section.				
(2C)	BITSTRING	2	SMFPSRVN	Record version format x'0vrm' v = version r = release m = modification
(2E)	CHARACTER	8	SMFSPRN	Product name (Generic APPLID)
(36)	CHARACTER	8	SMFSPSPN	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 TTR0 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.	***
End of JC SMF Product-section.				
Start of MN SMF Product-section.				
(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	1		Reserved
(7D)	BITSTRING	1	SMFMNOPN	Monitoring Options
			1... ..	SMFMNAPL "X'80" ... APPLNAME=YES
			.1.. ..	SMFMNRMI "X'40" ... RMI=YES
(7E)	CHARACTER	8	SMFMNJB	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.	***
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.	***
End of ST SMF Product-section.				

SMS pagepool storage statistics

CONTROL BLOCK NAME = DFHMSDS
 DESCRIPTIVE NAME = CICS Storage statistics for Pagepools and subspaces.
 @BANNER_START 02
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 5697-E93
 @BANNER_END
 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)	STRUCTURE	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
Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	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	SMSEDSALIMIT	Current EDSA limit
(28)	FULLWORD	4	SMSDSATOTAL	Current DSA total
(2C)	FULLWORD	4	SMSEDSATOTAL	Current EDSA total
(30)	FULLWORD	4	SMSHWMDSATOTAL	HWM DSA total
(34)	FULLWORD	4	SMSHWMEDSATOTAL	HWM EDSA total
(38)	CHARACTER	8	SMSTIMEWAITMVS	total time waiting for MVS storage
(40)	FULLWORD	4	SMSMVSSTGREQWAITS	number of requests for MVS storage causing wait
(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
Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	SMSBODY	Storage statistics body
(0)	CHARACTER	8	SMSDSANAME	DSA name
(8)	BITSTRING	1	SMSLOCN	Location (below/above)

SMS

Offset Hex	Type	Len	Name (Dim)	Description
(9)	BITSTRING	1	SMSACCESS	Access
(A)	BITSTRING	1	SMSDSAINDEX	DSA index
(B)	CHARACTER	1		Reserved
(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 of storage violations
(68)	FULLWORD	4	SMSXSTS	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 = DFHSM TDS
 DESCRIPTIVE NAME = CICS Storage statistics for task subpools.
 @BANNER_START 02
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 5697-E93
 @BANNER_END
 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)	STRUCTURE	0	DFHSM TDS	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	SMTHEXD	Reserved
	.... 1...		SMTHEXD	*** End of header
	.... 1...		SMTHEXD	**SMTLEN" Header length

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

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	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	SMTMWMPS	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"
-----------	---------	-----

SNEX

Offset Hex	Type	Len	Name (Dim)	Description
....	.1.1.		SMTUDSA	"2"
....	.1.1		SMTECDSA	"5"
....	.11.		SMTEUDSA	"6"

SNEX Signon Extension Block

<p>CONTROL BLOCK NAME = DFHSNEXC DESCRIPTIVE NAME = CICS Sign-on Extension to the TCTTE @BANNER_START 02 Licensed Materials - Property of IBM "Restricted Materials of IBM" 5697-E93 @BANNER_END 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</p>

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	56	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	

SNEX

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)	BIT(8)	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 XRFSOFF SIT parameter must be set to NOFORCE, the XRFIGNOFF 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)	BIT(8)	1	SNEX_XRF_FLAGS	
	1...		SNEX_XRF_REFLECTABLE	
	.1..		SNEX_SIGNON_CATLGD	User data written to catalog for PS restart
	..1.		SNEX_AWAITING_SIGNON	Not yet signed on after PS restart
	...1 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

SNEX

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	
	.... ...1		*	Reserved
(21)	CHARACTER	1	SNEX_FLAGS2	

Offset Hex	Type	Len	Name (Dim)	Description
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 SNEX_CONSOLE_ REFLECT_FIRST_USER	
	1... ..		SNEX_CONSOLE_ REFLECT EVERY_USER	
	.1.. ..		*	Reserved @01A
	..11 1111			
(22)	CHARACTER	1	SNEX_LUIT_USERID_LEN	Len of PV userid
(23)	CHARACTER	8	SNEX_LUIT_USERID	PV userid
(2B)	CHARACTER	1	*	Reserved
(2C)	ADDRESS	4	SNEX_SIGNON_ DATA_ADDR	Data address for PS signon retention
(30)	HALFWORD	2	SNEX_SIGNON_ DATA_LENGTH	Data length for PS signon retention
(32)	UNSIGNED	2	SNEX_ERR_RESPONSE	Response code for msg
(34)	UNSIGNED	2	SNEX_ERR_REASON	Reason code for msg
(36)	CHARACTER	2	*	Reserved
(38)	CHARACTER	0	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	Mechanism causing timeout
(15)	CHARACTER	3	*	Reserved
(18)	CHARACTER	0	*	End of parameter list

SNGS

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	
(4)	CHARACTER	1	GNTRAN_ PSEUDO_CONV_FLAG	Always equal to "CEGN"
(5)	CHARACTER	1	GNTRAN_ SCREEN_TRUNCATED	Terminal was in pseudo conversation when it was timed out: 'Y' or 'N'
(6)	CHARACTER	1	GNTRAN_ TRANSLATE_TIOA	3270 screen buffer had to be truncated: 'Y' or 'N'
(7)	CHARACTER	9	*	Flag to indicate that TIOA input to GNTRAN needs upper case translation. Reserved
(10)	CHARACTER	8	GNTRAN_TIMEOUT_TIME	Time that the terminal timed out in CICS ABSTIME format.
(18)	CHARACTER	1	GNTRAN_ TIMEOUT_REASON	
(19)	CHARACTER	11	*	Mechanism causing timeout: 'T' for terminal timeout or 'X' for XRF takeover timeout Reserved
(24)	CHARACTER	4	GNTRAN_PSEUDO_ CONV_TRANSID	
(28)	HALFWORD	2	GNTRAN_ SCREEN_LENGTH	Next transaction to run at this terminal had it not been timed out.
(2A)	HALFWORD	2	GNTRAN_ CURSOR_POSITION	Length of screen buffer left by previous transaction
(2C)	HALFWORD	2	GNTRAN_ SCREEN_WIDTH	Cursor position left by previous transaction
(2E)	HALFWORD	2	GNTRAN_ SCREEN_HEIGHT	Width of screen left by previous transaction
(30)	CHARACTER	16	GNTRAN_USER_FIELD	Height of screen left by previous transaction 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)
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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	

SOGDS

SOGDS Sockets Global Statistics

```

CONTROL BLOCK NAME = DFHSOGDS
DESCRIPTIVE NAME = CICS Sockets Global Statistics
  @BANNER_START 02
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5697-E93
  @BANNER_END
FUNCTION =
  This data area contains the sockets global 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
  request for sockets 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 DFHSOGDS 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)	STRUCTURE	0	DFHSOGDS	Sockets Global stats record
(0)	HALFWORD	2	SOGDS_LEN	Sockets Global stats record length
(2)	ADDRESS	2	SOGDS_ID	Sockets Global stats id
(4)	CHARACTER	1	SOGDS_VERS	Sockets Global stats version
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	SOG_MAXSOCKETS_LIMIT	Maxsockets limit
(C)	FULLWORD	4	SOG_CURR_INBOUND_SOCKETS	Current Inbound sockets
(10)	FULLWORD	4	SOG_PEAK_INBOUND_SOCKETS	Peak Outbound sockets
(14)	FULLWORD	4	SOG_CURR_OUTB_SOCKETS	Current Outbound sockets
(18)	FULLWORD	4	SOG_PEAK_OUTB_SOCKETS	Peak Outbound sockets
(1C)	FULLWORD	4	SOG_CURR_PERS_OUTB_SOCKETS	Current Persistent Outb sockets
(20)	FULLWORD	4	SOG_PEAK_PERS_OUTB_SOCKETS	Peak Persistent Outb sockets
(24)	FULLWORD	4	SOG_INB_SOCKETS_CREATED	Number Inbound sockets created
(28)	FULLWORD	4	SOG_OUTB_SOCKETS_CREATED	Number Outbound sockets created
(2C)	FULLWORD	4	SOG_OUTB_SOCKETS_CLOSED	Number of Outb sockets closed
(30)	FULLWORD	4	SOG_TIMES_AT_MAX_SOCKETS	Number of times at maxsockets
(34)	FULLWORD	4	SOG_DELAYED_AT_MAX_SOCKETS	Total delayed at maxsockets
(38)	CHARACTER	8	SOG_QTIME_AT_MAX_SOCKETS	Total delay time at maxsockets

SORDS

Offset Hex	Type	Len	Name (Dim)	Description
(40)	FULLWORD	4	SOG_TIMEDOUT_ AT_MAX_SOCKETS	Timeouts whilst at maxsockets
(44)	FULLWORD	4	SOG_CURR_ DELAYED_AT_MAX	Current delayed at maxsockets
(48)	FULLWORD	4	SOG_PEAK_ DELAYED_AT_MAX	Peak delayed at maxsockets
(4C)	CHARACTER	8	SOG_CURRENT_ QTIME_AT_MAX	Current delay time at maxsockets
(54)	CHARACTER	8		Reserved
(5C)	BITSTRING	1	SOG_SSLCACHE	SSLCACHE setting
(5D)	CHARACTER	7		Reserved
(64)	CHARACTER	8		Reserved
	.11. 11..		SOGDS_END	***
	.11. 11..		SOGDS_LENGTH	**SOGDS_LEN" Sockets stats record length

Constants that denote a SO Global stats record

.11. 1.11	SOGIDR	"107" Sockets global stats id
.... ...1	SOG_VERS	"X'01" Record version number
.... ...1	SOG_SSLCACHE_ CICS	"X'01" SSLCACHE = CICS
.... ...1	SOG_SSLCACHE_ SYSPLEX	"X'02" SSLCACHE = SYSPLEX

SORDS TCP/IP Service (Sockets) Statistics

```

CONTROL BLOCK NAME = DFHSORDS
DESCRIPTIVE NAME = CICS TCP/IP Service (Sockets) Statistics
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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)	STRUCTURE	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)

SORDS

Offset Hex	Type	Len	Name (Dim)	Description
(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
(6C)	CHARACTER	18	SOR_WLM_GROUP	TCP/IP Service WLM DNS Group
(7E)	CHARACTER	2		Reserved
(80)	CHARACTER	8	SOR_PROTOCOL	TCP/IP Service Protocol
(88)	BITSTRING	1	SOR_AUTHENTICATE	TCP/IP Service Authenticate
(89)	BITSTRING	1	SOR_PRIVACY	TCP/IP Service Privacy
(8A)	BITSTRING	1	SOR_ATTACHSEC	TCP/IP Service Attachsec
(8B)	CHARACTER	5		Reserved
(90)	CHARACTER	6	SOR_TSQPREFIX	TCP/IP Service Tsqprefix
(96)	CHARACTER	2		Reserved
(98)	FULLWORD	4	SOR_MAXDATA_LENGTH	TCP/IP Service Maxdata length
(9C)	CHARACTER	4		Reserved
(A0)	CHARACTER	8		Reserved
(A8)	CHARACTER	8		Reserved
(B0)	CHARACTER	8		Reserved
(B8)	CHARACTER	8		Reserved
11..			SORDS_END	***
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
....	SOR_AUTHENT_NONE	"X'00" Authenticate = None
.... ..1	SOR_AUTHENT_BASIC	"X'01" Authenticate = Basic
.... ..1	SOR_AUTHENT_CERT	"X'02" Authenticate = Certificate
.... ..11	SOR_AUTHENT_AUTOREG	"X'03" Authenticate = Autoregister
.... .1..	SOR_AUTHENT_AUTO	"X'04" Authenticate = Automatic
.... .1.1	SOR_AUTHENT_ASSERTED	"X'05" Authenticate = Asserted
....	SOR_PRIVACY_NOTSUPPORTED	"X'00" Privacy = NotSupported
.... ..1	SOR_PRIVACY_SUPPORTED	"X'01" Privacy = Supported
.... ..1	SOR_PRIVACY_REQUIRED	"X'02" Privacy = Required
.... ..1	SOR_ATTACHSEC_LOCAL	"X'01" Attachsec = Local
.... ..1	SOR_ATTACHSEC_VERIFY	"X'02" Attachsec = Verify

SPI Task Local Storage Definition

```

MODULE NAME = DFHDMTLS
DESCRIPTIVE NAME = CICS Resource Definition Online
Task Local Storage definition.
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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)	BIT(8)	1	TLCUBITS	Flag bits
	1... ..		TLMGSOFF	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		TLGENGAL	Generic group alter
(19)	BIT(8)	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

SPI

Offset Hex	Type	Len	Name (Dim)	Description
(28)	ADDRESS	4	TLARG0PT	Current argument 0 ptr
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,ttdef)
(4C)	CHARACTER	20	TTNDX	TYPTERM names,defs. tm_ndx : MAP OF (tmid,tmdef)
(60)	CHARACTER	20	TMNDX	CICS tmids tm_use : MAP OF (tmid,ttid)
(74)	CHARACTER	20	TMUSE	TYPTERM references. pt_ndx : MAP OF (tmid,ptdef)
(88)	CHARACTER	20	PTNDX	pooled TERMINALs pt_use : MAP OF (tmid,ttid)
(9C)	CHARACTER	20	PTUSE	TYPTERM 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 references
End of DFHTOR-specific variables.				
AMP EXPAND|DISPLAY BROWSE SPECIFIC KEYWORDS				
(EC)	CHARACTER	32	*	BROWSE work area
(EC)	BIT(8)	1	*	Status flags
	1... ..		*	Reserved
	.1.. ..		EXPANDAC	EXPAND active
	..1.		EXPANDNX	SET TO 1 WHEN 1ST NEXT IS OK *
	...1		DISPLYAC	DISPLAY active
	.... 1...		RMREGTRD	Have registered with RM
	.... .1..		CREATCOM	Create command
	.... ..1.		POOLINPR	Terminal pool in progress
	.... ...1		CONNINPR	Connection in progress
(ED)	BIT(8)	1	*	More flags
	1... ..		INSTACOM	Install command
	.111 1111		*	Reserved
(EE)	BIT(8)	1	*	Reserved
(EF)	BIT(8)	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
Catalog token to disconnect in case of abend				
(124)	CHARACTER	4	TLS_CCTOKEN	Catalog token
(128)	CHARACTER	0	*	End of storage

SRA SRB interface mapping

```

MODULE NAME = DFHSRADS
DESCRIPTIVE NAME = CICS SRB INTERFACE MAPPING
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
SRB INTERFACE CONTROL AREA

```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	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
(1)	BITSTRING	1	SRAFLAG2	FLAGS FIELD
	1...		SRASCHED	"X'80" SRB SCHEDULED FLAG
(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

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
    PCBSSRB 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
    PLS - 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)	STRUCTURE	0	SRBSECT	
(0)	ADDRESS	4	SRB (0)	
(0)	CHARACTER	4	SRBID	EBCDIC ACRONYM FOR SRB OR SSRB.
(4)	ADDRESS	4	SRBFLNK	FORWARD CHAIN FIELD
(8)	ADDRESS	4	SRBASCB (0)	PTR TO ASCB OF ADDRESS SPACE SRB IS TO BE DISPATCHED TO

SRB

Offset Hex	Type	Len	Name (Dim)	Description
(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.		SRBFRREQ	"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 SRBFRREQ 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		SRBTOKNP	"X'01" This SSRB belongs to the pool created for SUSPEND with SPTOKEN.
(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	SRXCSAA	ADDRESS OF CICS CSA
(38)	ADDRESS	4	SRXEXLA	ADDRESS OF VTAM EXIT LIST, WHICH IS PROTECTED FOR SRB MODE USE
(3C)	ADDRESS	4	SRXKCSPA	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

SRED System recovery error data

```

CONTROL BLOCK NAME = DFHSREDS
DESCRIPTIVE NAME = CICS System Recovery Error Data
@BANNER_START 02
Licensed Materials - Property of IBM
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5697-E93
@BANNER_END
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)	BIT(16)	2	SRP_SYS_ABCODE	System abend code
(6)	BIT(16)	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)	BIT(8)	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)	BIT(8)	1	*	Padding
(C3)	1... ..		SRP_SYSTEM_AR_MODE	AR mode ?
				System interrupt data
(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	
				ALET
(178)	CHARACTER	4	SRP_ALET	ALET
(17C)	CHARACTER	8	SRP_SUBSPACE_TOKEN	
				Subspace token
(184)	BIT(8)	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.**
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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)	STRUCTURE	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**
 @BANNER_START 02
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 5697-E93
 @BANNER_END
 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)	STRUCTURE	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)
(48)	ADDRESS	4	SSAAPLX	APLX static storage area addr

STG

Offset Hex	Type	Len	Name (Dim)	Description
(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
@BANNER_START 02
Licensed Materials - Property of IBM
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5697-E93
@BANNER_END
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)	STRUCTURE	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 Interval Collections
(C)	FULLWORD	4	STGSMFW	Number of SMF Writes
(10)	FULLWORD	4	STGLDW	Length of Statistics Data Written
(14)	FULLWORD	4		Reserved
(18)	FULLWORD	4	STGSMFS	Number of SMF Writes Suppressed
(1C)	FULLWORD	4	STGSMFE	No. SMF errors
(20)	FULLWORD	4	STGINTR	No. INT statistics records
(24)	FULLWORD	4	STGEODR	No. EOD statistics records
(28)	FULLWORD	4	STGUSSR	No. USS statistics records
(2C)	FULLWORD	4	STGREQR	No. REQ statistics records
(30)	FULLWORD	4	STGRRTR	No. RRT statistics records
(34)	FULLWORD	4		Reserved
(38)	BITSTRING	8	STGCSTRT	Statistics CICS Start Time
(40)	BITSTRING	8	STGLRT	Statistics Last Reset Time
(48)	BITSTRING	8	STGINTVL	Statistics Collection Interval
(50)	CHARACTER	6	STGEODT	Statistics End-of-Day Time
(56)	BITSTRING	1	STGSTRCD	STATRCD setting
(57)	BITSTRING	1		Reserved
	.1.1 1...		STGEND	**
	.1.1 1...		STGCLEN	**STGLEN" Length of stats

STI Statistics record identifiers

CONTROL BLOCK NAME = DFHSTIDS
 DESCRIPTIVE NAME = CICS Statistics Record Identifiers.
 @BANNER_START 02
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 @BANNER_END
 FUNCTION = This copybook contains the common 5 byte header for statistics records and a list (as equates) of all the valid statistics record ids for the CICS SMF record type 110, subtype 2 statistics records. The statistics record ids for the CICS SMF record type 110, subtypes 3, 4 and 5 are only noted in CICS Statistics chapter of the Customization Guide, but not in this dsect.
 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)	STRUCTURE	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 1.1.1		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
	...1		STITSQ	"48" TSQUEUE stats id
	...1 1..		STICONSRR	"52" ISC/IRC system entry (resid) id
	...1 .11.		STICONSRR	"54" ISC connection - System Security
	...1 11..		STIDS	"60" Dispatcher stats id
	...1 11.1		STIUSG	"61" User Domain stats id
	...1 1111		STITM	"63" Table manager stats id
	...1		STIDST	"64" Dispatcher TCB (Global) id
	...1 ...1		STIDSR	"65" Dispatcher TCB (Resource) 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		STIM	"81" Monitoring stats (Global) id
	...1 .1.		STIMNR	"82" Monitoring stats (Resid) id
	...1 .1.1		STITDR	"85" Transaction dump (Resid) id
	...1 .111		STITDG	"87" Transaction dump (Global) id
	...1 1...		STISDR	"88" System dump (Resid) id
	...1 1.1.		STISDG	"90" System dump (Global) id
	...1 11..		STILGG	"92" Logstream stats (Global) id
	...1 11.1		STILGR	"93" Logger stats (Resource) id
	...1 111.		STILGS	"94" Logstream stats (Resource) id
	...1 ...1		STINQG	"97" ENQ Manager stats (Global) id
	...1 .11		STIRMG	"99" Recovery Mgr stats (Global) id
	...1 .1.1		STIWBG	"101" URIMAPs (Global) id
	...1 .11.		STID2G	"102" DB2 Connection stats (Global) id

TACB

Offset Hex	Type	Len	Name (Dim)	Description
.11. .111			STID2R	"103" DB2 Entry stats (Resource) id
.11. 1...			STIWBR	"104" URIMAPs (Resource) id
.11. 1..1			STIPIR	"105" PIPELINE (Resource) id
.11. 1..1			STIPIW	"106" WEBSERVICE (Resource) id
.11. 1..11			STISOG	"107" TCP/IP (Global) id
.11. 11..			STISOR	"108" TCP/IP Services (Resource) id
.11. 1111			STIIIR	"111" Requestmodel (Resource) id
.111 ..1.			STIEJR	"114" CorbaServer (Resource) id
.111 ..11			STIEJB	"115" Bean stats (Resource) id
.111 ..1.1			STISJG	"117" JVMPOOL stats (Global) id
.111 ..11.			STISJR	"118" JVMPROFILE stats (Resource) id
.111 ..111			STIPGR	"119" JVMPROGRAM stats (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
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 @BANNER_END
 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 TCAPCACB 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	342	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
			ABNDCCDE	- 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
			ABNDUMP	- DUMP REQUESTED
			ABND_DUMP_ TAKEN	- dump taken
(10)	CHARACTER	8	ABNDNAME	'DFHTACB' EYECATCHER
(18)	CHARACTER	4	ABNDSTAT	STATUS FLAGS
(18)	BIT(8)	1	ABNDSYAB	- CONTENTS OF TCASYABI
(19)	BIT(16)	2	ABNDPCTR	- CONTENTS OF TCAPCTR
(1B)	BIT(8)	1	ABNDCAXI	- CONTENTS OF TCAPCAXI
(1C)	CHARACTER	4	ABNDCCODE	ABEND CODE
(20)	CHARACTER	8	ABNDPRG	FAILING PROGRAM
(20)	CHARACTER	8	ABNDPGM	- ALIAS
(28)	CHARACTER	4	ABNDREQ	REQUEST ID

TACB

Offset Hex	Type	Len	Name (Dim)	Description
(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	ABNDSSENS	SENSE BYTES
(3C)	BIT(8)	1	ABNDSSN1	- SYSTEM SENSE 1
(3D)	BIT(8)	1	ABNDSSN2	- SYSTEM SENSE 2
(3E)	BIT(8)	1	ABNDUSN1	- USER SENSE 1
(3F)	BIT(8)	1	ABNDUSN2	- USER SENSE 2
(40)	CHARACTER	6	*	ERROR MESSAGE DATA
(40)	ADDRESS	4	ABNDAMSG	- A(ERROR MESSAGE)
(44)	HALFWORD	2	ABNDMLEN	- 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	152	*	
(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)	
(98)	CHARACTER	64	ABNDGPRH	GP REGISTERS 0 - 15 - HIGH WRDS ON ENTRY TO ABEND
(98)	CHARACTER	64	ABNDREGH	
(98)	FULLWORD	4	ABNDRGXH (0 15)	
(D8)	CHARACTER	8	ABNDPSW	EC MODE PSW ON ENTRY TO ABEND (ASRA, ASRB, ASRD, AICA)
(E0)	CHARACTER	8	ABNDINT	ADDITIONAL EC MODE INFO (ASRA, ASRB, ASRD, AICA)
(E8)	CHARACTER	32	ABNDFPRS	FP REGISTERS 0,2,4,6 (ASRA, ASRB, ASRD, AICA)
(E8)	CHARACTER	8	ABNDFPR0	- FP REGISTER 0
(F0)	CHARACTER	8	ABNDFPR2	- FP REGISTER 2
(F8)	CHARACTER	8	ABNDFPR4	- FP REGISTER 4
(100)	CHARACTER	8	ABNDFPR6	- FP REGISTER 6
(108)	CHARACTER	64	ABNDACRS	Access registers
(108)	FULLWORD	4	ABNDACREGS (0 15)	
(148)	CHARACTER	4	ABNDALET	ALET at time of abend
(14C)	CHARACTER	8	ABNDSTOKEN	STOKEN at time of abend *
(154)	CHARACTER	1	ABNDSPACE	space (basespace/subspace * at time of abend as passed on ABAB interface)
(155)	CHARACTER	1	ABNDFLGX	
(155)	CHARACTER	1	ABNDFLG3	- VALID FIELDS
	1... ..		ABNDREGV	- ABEND REGISTERS - HIGH *
	.111 1111		*	- RESERVED
(156)	CHARACTER	0	ABNDMSGT	MESSAGE TEXT (IF ANY)

Constants

Len	Type	Value	Name	Description
ABNDSTG values				
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

TACLE Terminal abnormal condition line entry

CONTROL BLOCK NAME = DFHTCTLE
 DESCRIPTIVE NAME = CICS Terminal Abnormal Condition Line

Entry

@BANNER_START 02
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 @BANNER_END
 FUNCTION =
 Terminal Control Table Line Entry Prefix.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	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		TCEMCMTL	"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... .111		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... 11.		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 .11.		TCEMCUE	"X'96" Unit exception
	1..1 .111		TCEMCUES	"X'97" Unit exception should not occur
	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
 @BANNER_START 02
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 @BANNER_END
 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)	BIT(8)	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)	BIT(8)	1	TCAFCI	facility control indicator x'00' indicates NONE.
	111.		*	Reserved
	...1		TCAFCAID	AID FACILITY MASK.
	.... 1..		TCAFCDQM	Destination Control indicator *
	.... .1..		TCAFCICM	Interval Control indicator *
	.... ..1.		TCAFCMCM	K C P MACRO FILE MASK
	.... ...1		TCAFCTRM	Terminal Control indicator *
(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	0	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)	BIT(8)	1	TCATCDC	TASK CONTROL DISPATCH CONTROL INDICATOR MASK MASK ABEND REQUESTED
(19)	BIT(8)	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)	BIT(8)	1	TCAPCDMP	PROGRAM CONTROL TASK DUMPED INDICATOR

TCA

Offset Hex	Type	Len	Name (Dim)	Description
(1C)	BIT(8)	1	TCATCCFG	TERMINAL CONTROL COMPATABILITY CONTROL COMPATIBILITY FLAGS AND OTHER USES
(1C)	BIT(8)	1	TCAPURGI	TASK PURGE INDICATOR
	1... ..		*	Reserved (was TCATPURG)
	.1.. ..		TCASPURG	system purgeable mask
	..1. ..		TCACTIND	
	...1 ..		TCACTFBF	FULL BUFFER FLAG
	.... 1...		TCAENQRR	RESUME required (see ENQ code) *
	.... .1..		TCAJOURN	Journalling in control
	.... ..1.		*	Reserved (was TCASTGFZ)
	.... ...1		TCACTCMT	COMPATIBLE MODE TASK MASK INDICATOR
(1D)	CHARACTER	2	*	reserved
(1F)	BIT(8)	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	0	*	
2 CHAR(4), Reserved				
(20)	CHARACTER	4	TCATXNO	XM supplied txn number
2 CHAR(4), reserved				
(24)	CHARACTER	4	TCASVTRN	TRANSID saved
(28)	BIT(8)	1	TCASAVE1	
	1... ..		TCASVEFT	Facility type saved
	..11 1111		*	
(29)	BIT(8)	1	TCAJDBC	Used by JDBC syncpoints
	1... ..		TCASYNCP	Syncpoint has occurred
	.1.. ..		TCAROLLB	Rollback has occurred
	..11 1111		*	
(2A)	CHARACTER	2	*	
(2C)	FULLWORD	4	TCARTNSV	INTERNAL RETURN REGISTER SAVE AREA
(30)	CHARACTER	0	TCACKPFA	FINAL ADDRESS OF KCP AREA.
STORAGE CONTROL SECTION				
CONTROL BLOCK NAME = DFHTCUSC				
DESCRIPTIVE NAME = CICS DFHSC USER OVERLAY OF THE DFHTCA				
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@BANNER_END				
(30)	ADDRESS	4	TCASCSA	ADDRESS OF STORAGE AFTER IT HAS BEEN OBTAINED BY STORAGE CONTROL AND INITIALIZED TO REQUESTED CONFIGURATION
(34)	BIT(8)	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
(35)	CHARACTER	1	TCASCIB	VALUE TO WHICH STORAGE IS TO BE INITIALIZED: ZERO, BLANKS, ETC.
(36)	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				
(38)	ADDRESS	4	TCASCRS (8)	STORAGE CONTROL REGISTER STORAGE AREA: STORES REGISTERS 14 - 5
COMMON CONTROL				
(58)	FULLWORD	4	TCACCCA (12)	common control communication area used by some AP Domain modules as a parameter area
			*	
(88)	FULLWORD	4	TCACCRS (14)	common control register save area used by some AP Domain modules.
(C0)	HALFWORD	2	TCACCSV1	SAVE AREA FOR BYTES OVERLAID BY DFHDC
(C2)	HALFWORD	2	*	Reserved
(C4)	FULLWORD	4	TCACCSV2	SAVE AREA FOR BYTES OVERLAID BY DUMP CODE
(C8)	CHARACTER	0	TCACCEA	COMMON CONTROL ENDING ADDRESS
TRACE				
CONTROL BLOCK NAME = DFHTCUTR				
DESCRIPTIVE NAME = CICS DFHTR USER OVERLAY OF THE DFHTCA				
@BANNER_START 02				
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5697-E93				
@BANNER_END				
(C8)	CHARACTER	8	TCATRF	Data area 1 and 2
(C8)	FULLWORD	4	TCATRF1	TRACE ENTRY DATA AREA 1
(CC)	FULLWORD	4	TCATRF2	TRACE ENTRY DATA AREA 2

TCA

Offset Hex	Type	Len	Name (Dim)	Description
(D0)	BIT(8)	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
	.... 1...		*	X'A' Reserved X'9' Reserved
	.... .1..		TCATRSYS	X'8' PP entry X'7' Reserved X'6' Reserved X'5' LIFO exit trace
	.... ..1.		TCATRUSE	X'4' System trace X'3' LIFO enter trace
	.... ...1		*	X'2' User trace
(D1)	BIT(8)	1	TCATRID	TRACE ENTRY IDENTIFICATION
(D2)	BIT(8)	1	TCATRMF	TCA TRACE CONTROL
	1...		TCATRSI	User trace for single task
	..11 1111		*	Reserved
(D3)	BIT(8)	1	TCATR1D1	TRACE ENTRY I.D.EXTENSION
(D4)	ADDRESS	4	TCAEISTG	COMMAND LEVEL ASSEMBLER EXEC STORAGE
(D8)	ADDRESS	4	TCAJCAAD	JOURNAL CONTROL AREA (JCA) ADDRESS
(DC)	FULLWORD	4	TCAATAC	ABNORMAL TERMINATION ABEND CODE
(E0)	ADDRESS	4	TCACSAAD	CSA address
(E4)	FULLWORD	4	TCALFR1	Save area for R1 and
(E8)	FULLWORD	4	TCALFR14	R14 in DFHLFM UNSTACK
2 CHAR(4), 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)	BIT(8)	1	TCAPCRFL	XPCTA retry execution key
(F9)	BIT(8)	1	TCAPCSTG	Storage hit by ASRA 0C4
(FA)	BIT(8)	1	TCAPCARO	XSRAB abend recovery option
(FB)	BIT(8)	1	TCAMFLAG	Miscellaneous flags
	1...		TCADUPAB	Duplicate abend
	..11 1111		*	Reserved
(FC)	ADDRESS	4	TCAPRUWA	APLI ruwa pool
(100)	CHARACTER	0	*	End of User area
(100)	CHARACTER	0	DFHTCADY	
SYSTEM AREA				
(100)	CHARACTER	0	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				
@BANNER_START 02				
Licensed Materials - Property of IBM				
"Restricted Materials of IBM"				
5697-E93				
@BANNER_END				
(110)	CHARACTER	4	TCATXNUM	TXN MGR transaction num
(110)	BIT(8)	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				
@BANNER_START 02				
Licensed Materials - Property of IBM				
"Restricted Materials of IBM"				
5697-E93				
@BANNER_END				
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				
@BANNER_START 02				
Licensed Materials - Property of IBM				
"Restricted Materials of IBM"				
5697-E93				
@BANNER_END				
(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

TCA

Offset Hex	Type	Len	Name (Dim)	Description
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)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	TCAL EDT	Address of data to be
added to the transaction dump				
(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 @BANNER_START 02 Licensed Materials - Property of IBM "Restricted Materials of IBM" 5697-E93 @BANNER_END				
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 @BANNER_START 02 Licensed Materials - Property of IBM "Restricted Materials of IBM" 5697-E93 @BANNER_END				
BASIC MAPPING SUPPORT				
(158)	ADDRESS	4	TCAOSPWA	OUTPUT SERVICE PROCESSOR WORK AREA ADDRESS (BMS)
(15C)	ADDRESS	4	*	Reserved
(160)	ADDRESS	4	TCAEIP14	Appl Reg14 for AP 00E1 trace
(161)	CHARACTER	2	*	Reserved
(163)	BIT(8)	1	TCADLII	DL/I INDICATOR
	1... ..		TCADLISI	DL/I SCHEDULING INITIATED
	.111 1111		*	Reserved
(164)	FULLWORD	4	*	Reserved
RECOVERY / RESTART SECTION				
CONTROL BLOCK NAME = DFHTCSPP DESCRIPTIVE NAME = CICS DFHSP SYSTEM OVERLAY OF THE DFHTCA @BANNER_START 02 Licensed Materials - Property of IBM "Restricted Materials of IBM" 5697-E93 @BANNER_END				
RECOVERY / RESTART SECTION				
(168)	BIT(8)	1	TCAZLUWD	TASK'S LOGICAL UNIT OF WORK (LUW) DEFINITION
	1... ..		TCAZAKPT	Activity keypoint
	.111 1111		*	Reserved
(169)	BIT(8)	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	DL/I-SYNCHRONOUS 4 COMMUNICATION ESTABLISHED
	.... ..11		*	Reserved
(16A)	BIT(8)	1	TCABRPS	Rollback status
	1... ..		*	Reserved
	.1.		TCATXBK	Texci backout
	.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)	BIT(8)	1	TCATRTO	TERMINAL READ TIME OUT VALUE
(181)	BIT(8)	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
(182)	BIT(8)	1	TCASCS	SCREEN SIZE SELECTION ETC
	1... ..		TCAFASTL	FAST LINK to DFHMIRS

TCA

Offset Hex	Type	Len	Name (Dim)	Description
	.111		*	
	.... 1...		TCASCSA	ALTERNATE SCREEN SIZE
	.... .1..		*	
	.... ..1.		TCAPRTCM	BMS TEXT PRINTER COMPATIBILITY
	.... ...1		TCATCABT	DFHACP abending flag
(183)	BIT(8)	1	TCAIRTC	INTER REGION RETURN CODE
(184)	ADDRESS	4	TCARLB	Address of TMP lock block
(188)	ADDRESS	4	TCAEMSSV	SAVE AREA FOR DFHEMS
(18C)	BIT(8)	1	*	Reserved
(18D)	BIT(8)	1	*	Reserved
(18E)	CHARACTER	1	*	Reserved
(18F)	BIT(8)	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	TCAIHRE	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	TCITTE 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)	BIT(8)	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)	BIT(8)	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)	BIT(8)	1	*	Reserved
(1CF)	BIT(8)	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
(1F0)	CHARACTER	7	*	Reserved
(1F7)	CHARACTER	5	TCAJVM	JVM information
(1F7)	BIT(8)	1	TCACJVMF	DFHCJVM flags
	1...		TCAFURM	Fetching URM DFHJVMAT
	.1.		TCACURM	Calling URM DFHJVMAT
	..1.		TCAJVMXT	System.exit from JVM
	...1 1111		*	Reserved
(1F8)	CHARACTER	4	TCAJVMTK	Token for JVM instance
(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	TCAICREQ	REQID from an IC START
TASK CONTROL - TABLE MANAGER INTERFACE				
(238)	BIT(8)	1	TCAALFLG	Flag byte used by DFHALP
	1...		TCAALRES	A RESUME is required
	.111 1111		*	Reserved

TCA

Offset Hex	Type	Len	Name (Dim)	Description
(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				
@BANNER_START 02				
Licensed Materials - Property of IBM				
"Restricted Materials of IBM"				
5697-E93				
@BANNER_END				
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)	BIT(8)	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	1	TC AFCNOM	Copy of FCN OLDMODE
(2E1)	CHARACTER	3	*	Reserved
(2E4)	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)	BIT(8)	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
	.... ..1.		TC AFCNFO	FCN abend on FO TCB
	.... ...1		TCACNCHK	Channel storage check in progress
(2FD)	UNSIGNED	1	TCASRLOC	Abend in application?
(2FE)	BIT(16)	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	0	TCAEND	T C A STORAGE AREA DISPLACEMENT

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CONTROL BLOCK NAME = DFHTCUKC
DESCRIPTIVE NAME = CICS DFHKC USER OVERLAY OF THE DFHTCA
@BANNER_START 02
Licensed Materials - Property of IBM
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5697-E93
@BANNER_END

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Offset Hex	Type	Len	Name (Dim)	Description
(58)	STRUCTURE	36	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(58)	CHARACTER	1	TCAKCRC	SYST.MACRO RTN.CODE FROM CHANGE FROM ATT/AVAIL/REDISP
	1111 11..		*	
(59)	CHARACTER	1	TCAKCSRB	SECONDARY REQUEST BYTE
(5A)	CHARACTER	1	TCAKCRC2	Secondary response indicator (macro compatibility XMxx reason) *
(5B)	CHARACTER	1	TCATOMOP	Attach options
	1... ..		TCATOMCN	Conditional attach
	.1.. ..		TCATOMEPE	Entrypoint attach
	..1.		TCATOMST	Attach of a system task
	...1 1111		*	Reserved
(5C)	ADDRESS	4	TCAKCEPA	ENTRY POINT ADDRESS
(5C)	CHARACTER	9	TCAKCSSF	SECURITY SUBFIELD
(5C)	UNSIGNED	1	TCAKCUIL	...LENGTH OF USERID
(5D)	CHARACTER	8	TCAKCUID	...TASK USERID
(60)	CHARACTER	8	*	reserved
(68)	CHARACTER	4	TCAKCDST	T.D. DESTINATION ID
(6C)	ADDRESS	4	TCAKCPA	ATTPARM address
(6C)	CHARACTER	4	TCAKCSYS	REMOTE SYSTEM IDENTIFICATION *
(70)	CHARACTER	4	TCAKCTI	TRANSACTION IDENTIFICATION
(74)	UNSIGNED	1	TCAKCPL	ATTPARM length
(75)	CHARACTER	2	*	RESERVED
(77)	BIT(8)	1	TCAKCFI	FACILITY CONTROL INDICATOR *
	111.		*	RESERVED
	...1		TCAKCAID	AID FACILITY MASK.
	.... 1...		TCAKDCDM	DESTINATION CONTROL TABLE
	.... .1..		TCAKCICM	NON-TERMINAL FACILITY MASK *
	.... .1..		TCAKCMCM	K C P MACRO FILE MASK
	.... ...1		TCAKCTRM	TERMINAL FACILITY MASK
(78)	CHARACTER	4	TCAKCTA	TASK CONTROL AREA ADDRESS
(78)	ADDRESS	4	TCAKCFA	FACILITY CONTROL ADDRESS
(78)	ADDRESS	4	TCAKCPTR	FACILITY CONTROL ID

```

CONTROL BLOCK NAME = DFHTCUIC
DESCRIPTIVE NAME = CICS DFHIC USER OVERLAY OF THE DFHTCA
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
The following field is product sensitive:-
TCAICTR

```

Offset Hex	Type	Len	Name (Dim)	Description
(58)	STRUCTURE	48	*	
(58)	CHARACTER	1	TCAICTR	TYPE OF REQUEST/RESPONSE
(59)	CHARACTER	3	*	RESERVED
(5C)	CHARACTER	4	TCAICTEC	ICP 'POST' TIMER EVENT CONTROL ADDRESS
(5C)	ADDRESS	4	TCAICDA	ICP MACRO SERVICE-DATA ADDRESS
(60)	CHARACTER	8	TCAICQPX	REQUEST ID PREFIX
(60)	CHARACTER	8	TCAICQID	ICP REQUEST IDENTIFICATION
(68)	FULLWORD	4	TCAICRT	REQUESTED TIME INTERVAL OR EXPIRATION TIME-OF-DAY
(6C)	CHARACTER	4	TCAICFA	ICP FACILITY CONTROL ADDR.
(6C)	CHARACTER	4	TCAICTI	ICP TRANSACTION IDENT.
(70)	CHARACTER	4	TCAICUSA	ADDRESS OF US PARAMETER STORAGE WHICH IS 11 BYTE FIELD OF: 1 BYTE USERID LENGTH 10 BYTE FIELD FOR USERID
(70)	CHARACTER	4	TCAICTID	ICP SYMBOLIC TERMINAL IDENTIFICATION
(74)	CHARACTER	1	TCAICCLS	UNIQUE ID OF REQUESTED ID
(75)	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
(76)	CHARACTER	2	*	RESERVED
(78)	ADDRESS	4	TCAICTKA	XM Transaction token address. *
(7C)	ADDRESS	4	TCAICRTR	Router's commarea address

TCA

Offset Hex	Type	Len	Name (Dim)	Description
(80)	HALFWORD	2	TCAICRTL	Routers commarea length
(82)	CHARACTER	2	*	RESERVED
(84)	UNSIGNED	4	TCAICITK	Channel token

CONTROL BLOCK NAME = DFHTCUTC
 DESCRIPTIVE NAME = CICS DFHTC USER OVERLAY OF THE DFHTCA
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END

Offset Hex	Type	Len	Name (Dim)	Description
(58)	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				
(58)	CHARACTER	32	TCATP_TRACE	TCA parm list trace area
(58)	BIT(8)	1	TCATPAPR	APPLICATION REQUEST RESPONSE CODE
(58)	BIT(8)	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
(59)	BIT(8)	1	*	RESERVED
(5A)	BIT(8)	1	TCATPOS1	EXTERNAL OPERATOR REQUEST - byte 1
(5B)	BIT(8)	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

(5B)	BIT(8)	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		TCATPQAU	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)
(5C)	BIT(8)	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
	.... .1..		TCATPBPQ	BYP QUIESCE FOR PASS
	.... .1..		TCATPTSA	TRANSACTION
	.... .11		*	reserved
	.... .1..		TCATPINS	IN SERVICE
	.... ...1		TCATPOOS	OUT OF SERVICE
(5D)	BIT(8)	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

Offset Hex	Type	Len	Name (Dim)	Description
	.... 1..		TCATTPUR	PURGE TASK
	.... .1..		TCATPCPT	PRINT REQUEST
	.... .1..		TCATPREL	RELEASE
	.... ..1.		TCATPCNT	NOTTRANSLATE REQUEST
	.... ..1.		TCATPRSO	RESYNCHRONIZATION OVERRIDE
	.... ...1		TCATPCPB	PSEUDO BINARY MODE
	.... ...1		TCATPACQ	ACQUIRE
(5E)	BIT(8)	1	TCATPOC1	OPERATION CONTROL BYTE 1
For ZARQ (Application requests) - see constants below				
For ZSTU (Status change) - see constants below				
(5F)	BIT(8)	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		TCATPFDP	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
(60)	CHARACTER	2	TCATPLDM	LOGICAL DEVICE MNEMONIC
(62)	BIT(8)	1	TCATPCON	CONNECTION TYPE FLAG
	1111 111.		*	
	.... ...1		TCATPNCM	NON-COMMUNICATION INDICATOR
(63)	BIT(8)	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,DOMN=SYS
	.... ...1		*	X'01' RESERVED
	.... ...1		*	X'01' RESERVED
(64)	CHARACTER	20	TCATPPNM	PROGRAM NAME FIELD
(64)	ADDRESS	4	TCATPTA	TMNL ID OR A(FULL)MODEL TE)
(68)	CHARACTER	16	TCATPREQ	REQUEST ID PARAMETER.
(68)	CHARACTER	16	TCATPAID	AID ADDRESS
(68)	ADDRESS	4	TCATPLDA	LOGIC DEVICE CODE ELEMENT ADDRESS
(6C)	CHARACTER	12	TCATPRMT	REMOTENAME OF FOUND TERM'L
(6C)	ADDRESS	4	TCATPPFL	TERMINAL PROFILE ADDRESS
(70)	CHARACTER	8	TCATPAPL	APPLID OF REMOTE REGION
(70)	CHARACTER	4	TCATPSYS	SYSID OF REMOTE REGION
(74)	ADDRESS	4	TCATPSKA	A(SKELETON TCTTE)
(74)	ADDRESS	4	TCATPFS	FS parameters plist
TCATP_TRACE_LEN End of parm list trace area				
(78)	CHARACTER	8	TCATPZTR	ZC trace work area
(78)	CHARACTER	4	TCATPZT1	Copy TCT exit footprints
(7C)	ADDRESS	4	TCATPZT2	Copy TCT address

OVERLAYS

Offset Hex	Type	Len	Name (Dim)	Description
(88)	STRUCTURE	56	*	ORIGIN TO COMMON REGISTER STORAGE
(88)	FULLWORD	4	TCATPRS (14)	REGISTER SAVE AREA

CONTROL BLOCK NAME = DFHTCUPC
 DESCRIPTIVE NAME = CICS DFHPC USER OVERLAY OF THE DFHTCA
 @BANNER_START 02
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 @BANNER_END

TCA

Offset Hex	Type	Len	Name (Dim)	Description
(58)	STRUCTURE	36	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(58)	CHARACTER	1	TCAPCTR	TYPE OF REQUEST / RESPONSE
(59)	CHARACTER	1	TCAPCSR	PROGRAM CONTROL SECONDARY REQUEST
(5A)	CHARACTER	1	*	reserved
(5B)	CHARACTER	1	*	Reserved
(5C)	CHARACTER	8	TCAPCPI	PROGRAM IDENTIFICATION
(5C)	CHARACTER	4	TCAPCERA	ABEND EXIT RETURN ENTRY ADDRESS
(64)	CHARACTER	4	TCAPCEA	LOADED PROGRAM ENTRY ADDRESS AND PC BROWSE ENTRY ADDRESS
(64)	CHARACTER	4	TCAPCAC	ABNORMAL TERMINATION CODE
(68)	ADDRESS	4	TCAPCLA	LOADED PROGRAM BEGINNING ADDRESS
(6C)	ADDRESS	4	TCAPGENT	Program entry point (GLUE)
(70)	ADDRESS	4	TCAPGTKN	Program token (GLUE)
(74)	CHARACTER	8	TCAPCEPI	Program that abended APCT

REGISTER STORAGE

Offset Hex	Type	Len	Name (Dim)	Description
(88)	STRUCTURE	56	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(88)	FULLWORD	4	TCAPCRS (14)	PROGRAM CONTROL REGISTER STORAGE AREA: REGISTERS 14 -11 *

CONTROL BLOCK NAME = DFHTCUPH
 DESCRIPTIVE NAME = CICS DFHPPH User Overlay of the DFHTCA
 @BANNER_START 02
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 @BANNER_END

Offset Hex	Type	Len	Name (Dim)	Description
(58)	STRUCTURE	22	*	OVERLAY THE TCA COMMON COMMUNICATION AREA
(58)	CHARACTER	22	TCAPH	FOR ZEROING REQUEST BYTES
(58)	ADDRESS	4	TCAPHRC	ADDRESS OF RETURN CODE
(5C)	ADDRESS	4	TCAPHPSN	ADDRESS OF PRTNSET NAME
(60)	ADDRESS	4	TCAPHPN	ADDRESS OF PARTITION NAME
(64)	ADDRESS	4	TCAPHPID	ADDRESS OF PARTITION ID
(68)	ADDRESS	4	TCAPHTIO	ADDRESS OF TIOA
(6C)	CHARACTER	1	TCAPHTR	REQUEST TYPE
(6D)	CHARACTER	1	TCAPHRCV	RETURN CODE VALUE

CONTROL BLOCK NAME = DFHTCUBM
 DESCRIPTIVE NAME = CICS DFHBMS USER OVERLAY OF THE DFHTCA
 @BANNER_START 02
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 @BANNER_END

Offset Hex	Type	Len	Name (Dim)	Description
(58)	STRUCTURE	8	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(58)	BIT(8)	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
(59)	BIT(8)	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
	.... .1..		TCAMSIPN	INVALID PARTITION NAME
	.... ..1.		TCAMSIPF	PARTNFAL ERROR
	.... ...1		TCAMSDSS	DATASET STATUS CHANGE
(5A)	BIT(8)	1	TCAMSRC3	RETURN CODE BYTE THREE
	111.		*	

TCA

Offset Hex	Type	Len	Name (Dim)	Description
	...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
(5B)	BIT(8)	1	TCAMSR11	RETURN INFORMATION BYTE ONE
(5C)	CHARACTER	4	TCAMSPOF	PAGEBLD OVERFLO INFORMATION
(5C)	HALFWORD	2	TCAMSPGN	CURRENT PAGE NUMBER
(5E)	HALFWORD	2	TCAMSOCN	OVERFLOW CONTROL NUMBER
Offset Hex	Type	Len	Name (Dim)	Description
(58)	STRUCTURE	64	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(58)	BIT(8)	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..		TCAMSRA	LIST = ALL
	.... .1.		TCAMSRSA	LIST = SYMBOLIC ADDRESS
	.... ...1		TCAMSROC	OPCLASS = OPERATOR CLASS
(59)	BIT(8)	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
(5A)	BIT(8)	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
(5B)	BIT(8)	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
(5C)	BIT(8)	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
(5D)	BIT(8)	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
(5E)	BIT(8)	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.				
(5F)	BIT(8)	1	TCAMSTR8	TYPE REQUEST BYTE EIGHT
	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

TCA

Offset Hex	Type	Len	Name (Dim)	Description
	.... ...1		TCAMSMGC	SEND CONTROL
(60)	CHARACTER	4	TCAMSTA	TITLE ADDRESS
(60)	ADDRESS	4	TCAMSIOA	ALTERNATE I/O AREA ADDRESS
(64)	CHARACTER	4	TCAMSFSC	FIELD SEPARATOR CHARACTERS
(64)	CHARACTER	0	TCABMSFB	WCC AND FLAG BYTE
(64)	CHARACTER	1	TCAMSWCC	WRITE CONTROL CHARACTERS
(65)	BIT(8)	1	TCAMSJ	JUSTIFY = FIRST, LAST, OR VALUE
(66)	CHARACTER	2	TCAMSRPL	RETURNED LENGTH FROM RECEIVE PARTN
(66)	HALFWORD	2	TCABMSCP	CURSOR POSITION
(68)	CHARACTER	8	TCABMSMN	MAP NAME
(68)	CHARACTER	8	TCAMSPSN	PARTITION SET NAME
(68)	ADDRESS	4	TCABMSMA	MAP ADDRESS
(68)	ADDRESS	4	TCAMSHDR	HEADER ADDRESS
(68)	ADDRESS	4	TCAMSRLA	ROUTE OR RETURNED PAGE LIST ADDRESS
(6C)	ADDRESS	4	TCAMSTRL	TRAILER ADDRESS
(6C)	ADDRESS	4	TCABMSDA	ADS descriptor address
(6C)	CHARACTER	4	TCAMSRTI	TIME OR INTERVAL OF TIME
(70)	CHARACTER	8	TCAMMSA	MAP SET OR PARTNSET ADDRESS
(70)	CHARACTER	8	TCAMMSN	MAP SET NAME
(70)	CHARACTER	4	TCAMSTI	ROUTE ERROR TERMINAL ID
(74)	BIT(8)	1	*	RESERVED
(75)	CHARACTER	3	TCAMSOC	OPERATOR CLASS
(78)	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
(7A)	BIT(8)	1	TCAMSLDC	LOGICAL DEVICE CODE
(7B)	CHARACTER	2	TCAMSRID	REQID - TEMPORARY STORAGE RECOVERY PREFIX
(7D)	CHARACTER	2	TCAMAPNM	ACTPARTN VALUE
(7F)	CHARACTER	1	*	RESERVED FOR BMS
(80)	CHARACTER	8	TCAMSFMP	FUNCTION MANAGEMENT HEADER (FMH) PARAMETER
(88)	CHARACTER	4	TCAMSMSR	MSR CONTROL VALUE
(8C)	CHARACTER	8	TCAMSRQS	WORK AREA
(94)	CHARACTER	1	TCAMCPY	FLAG INDICATING COPY REQUIRED
(95)	CHARACTER	3	*	RESERVED

Offset Hex	Type	Len	Name (Dim)	Description
(88)	STRUCTURE	56	*	ORIGIN TO COMMON CONTROL REGISTER STORAGE
REGISTER STORAGE				
(88)	FULLWORD	4	*(7)	OVERLAID BY BMS REQUEST BYTES
(A4)	FULLWORD	4	*(3)	RESERVED
(B0)	FULLWORD	4	TCAMSRS (4)	BMS REGISTER SAVE AREA

CONTROL BLOCK NAME = DFHTCUSP
 DESCRIPTIVE NAME = CICS DFHSP User Overlay of the DFHTCA
 @BANNER_START 02
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 @BANNER_END

Offset Hex	Type	Len	Name (Dim)	Description
(58)	STRUCTURE	19	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(58)	BIT(8)	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
(59)	CHARACTER	3	*	Reserved
(5C)	ADDRESS	4	TCASPSDA	Address of RMRO parameter area for DFHSP PHASE_1/2 calls
(60)	CHARACTER	10	*	Reserved
(6A)	CHARACTER	1	TCASPRC	RETURN CODE

CONTROL BLOCK NAME = DFHTCUDC
 DESCRIPTIVE NAME = CICS DFHDC USER OVERLAY OF THE DFHTCA
 @BANNER_START 02
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 @BANNER_END
 same as TCADCRS

TCA

Offset Hex	Type	Len	Name (Dim)	Description
(58)	STRUCTURE	16	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(58)	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... ..		TCADCTRT	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				
(59)	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
(5A)	HALFWORD	2	TCADCNB	DUMP CONTROL NUMBER OF BYTES
(5C)	ADDRESS	4	TCADCSA	DUMP CONTROL STORAGE ADDRESS
(60)	CHARACTER	4	*	RESERVED
(64)	CHARACTER	4	TCADCDC	DUMP IDENTIFICATION CODE

REGISTER STORAGE

Offset Hex	Type	Len	Name (Dim)	Description
(88)	STRUCTURE	56	*	ORIGIN TO COMMON CONTROL REGISTER STORAGE
(88)	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
 @BANNER_START 02
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 @BANNER_END
 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
(58)	STRUCTURE	36	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(58)	CHARACTER	1	TCADLRC	DL/I Response Code
(59)	CHARACTER	1	TCADLTR	DL/I Reason Code
(5A)	CHARACTER	2	*	Reserved
(5C)	ADDRESS	4	TCADLPAR	DL/I Parameter List Address
(60)	CHARACTER	8	TCADLPSE	DL/I PSB Name
(68)	CHARACTER	4	TCADLFUN	DL/I Function Code
(6C)	ADDRESS	4	TCADLPCB	DL/I PCB Address
(70)	ADDRESS	4	TCADLIO	DL/I Workarea Address
(74)	ADDRESS	4	TCADLSSA	DL/I SSA List Address
(78)	CHARACTER	4	TCADLLAN	DL/I Language Flags

TCA

REGISTER STORAGE

Offset	Type	Len	Name (Dim)	Description
Hex				
(88)	STRUCTURE	56	*	ORIGIN TO COMMON CONTROL REGISTER STORAGE
(88)	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
 @BANNER_START 02
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 @BANNER_END

Offset	Type	Len	Name (Dim)	Description
Hex				
(58)	STRUCTURE	32	*	overlay on the TCA Common Control Communication Area
(58)	BIT(8)	1	TCATDTR	- type of request / response
	1...		*	- reserved
	.1..		TCATDPUT	- TYPE=PUT
	..1.		*	- reserved
	...1		*	- reserved
	.... 1...		*	- reserved
	.... .1..		*	- reserved
	.... ..1.		*	- reserved
	.... ...1		*	- reserved
(59)	CHARACTER	3	*	- reserved
(5C)	CHARACTER	4	TCATDDI	queue id - either N(queue) or A(DCTE)
(60)	CHARACTER	24	TCATDROA	- CTYPE=... overlay area

Offset	Type	Len	Name (Dim)	Description
Hex				
(60)	STRUCTURE	4	*	overlay area for DFHTD TYPE=PUT,....,GET,....
(60)	ADDRESS	4	TCATDAA	- A(data area)

Offset	Type	Len	Name (Dim)	Description
Hex				
(60)	STRUCTURE	8	*	overlay area for DFHTD CTYPE=OPEN,....,PUT,....
(60)	ADDRESS	4	TCATDDA	- A(DCTE) or 0 - in each case TCATDDI contains N(queue)
(64)	ADDRESS	4	TCATDOCP	- A(TDOC parameter list)
(64)	ADDRESS	4	TCATDTP	- A(TDTD parameter list)

REGISTER STORAGE

Offset	Type	Len	Name (Dim)	Description
Hex				
(88)	STRUCTURE	56	*	ORIGIN TO COMMON CONTROL REGISTER STORAGE
(88)	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
 @BANNER_START 02
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 @BANNER_END

Offset	Type	Len	Name (Dim)	Description
Hex				
(58)	STRUCTURE	36	*	ORIGIN TO COMMON CONTROL COMMUNICATION AREA
(58)	BIT(8)	1	TCATSTR	TYPE OF REQUEST/RESPONSE *
	1...		TCATSGET	get(q) request
	.1..		TCATSPUT	put(q) request
	..1.		TCATSREL	purge/release request

TCA

Offset Hex	Type	Len	Name (Dim)	Description
	...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
(59)	BIT(8)	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
	.... .1..		TCATSFBL	flush buffers
	.... ...1		TCATSES2	ESCAPE BIT (TCATSTR3 VALID) *
(5A)	CHARACTER	1	TCATSSTT	SAVED STORAGE TYPE INDICATOR *
(5B)	CHARACTER	1	*	Reserved
(5C)	ADDRESS	4	TCATSDA	TEMPORARY STORAGE DATA ADDRESS *
(60)	CHARACTER	8	TCATSDI	TEMPORARY DATA IDENTIFICATION
(68)	HALFWORD	2	TCATSRN	TEMPORARY STORAGE RECORD NUMBER
(6A)	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
(6B)	CHARACTER	1	TCATSR2	2ND RESPONSE BYTE
	1...		TCATSHDI	HEADER PRESENT IN INPUT DATA
(6C)	ADDRESS	4	TCATSCBA	APPENDED CONTROL BLOCK ADDRESS
(6C)	ADDRESS	4	TCATSCBP	
(70)	FULLWORD	4	TCATSSTA	ADDRESS OF PREVIOUSLY AQUIRED STORAGE
(74)	FULLWORD	4	TCATSLL	LL00 FIELD WHEN SEPARATE OR CONCAT = L'(LL00) + L'(DATA)
(78)	BIT(8)	1	TCATSCMD	COMMAND MODIFIER.
	1...		TCATSLRE	long record extn queue
	.1.		TCATSLRH	long record header
	.1.		TCATSLRU	long record header update
	...1 1111		*	reserved
(79)	CHARACTER	1	*	reserved
(7A)	HALFWORD	2	TCATSTNR	TOTAL NUMBER OF RECORDS
(7C)	CHARACTER	0	*	

REGISTER STORAGE

Offset Hex	Type	Len	Name (Dim)	Description
(88)	STRUCTURE	56	*	ORIGIN TO COMMON CONTROL REGISTER STORAGE
(88)	FULLWORD	4	TCATSR2 (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
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END

Offset Hex	Type	Len	Name (Dim)	Description
(58)	STRUCTURE	24	*	
(58)	CHARACTER	2	TCADIRC	CURRENT RETURN CODE
(58)	BIT(8)	1	TCADIRC1	CLASS OF ERROR
	111.		*	
	...1		TCADIQSN	UNKNOWN SENSE ERROR
	.... 1...		TCADIQFU	FUNCTION ERROR
	.... .1..		TCADIQDS	DESTINATION CHANGE RESPONSE
(59)	BIT(8)	1	TCADIRC2	VALUE OF ERROR CODE
(5A)	BIT(8)	1	TCADIFL1	OPERATION TYPE
(5B)	BIT(8)	1	TCADIFL2	OPERATION FLAGS
	1...		TCADIFNV	VOLADDR SPECIFIED
	.1.		TCADIFNM	SELECT SPECIFIED
	.1.		TCADIFNP	PROFILE SPECIFIED
	...1		TCADIFND	DSN NOT SPECIFIED

TCA

Offset Hex	Type	Len	Name (Dim)	Description
(5C)	BIT(8)	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
(5D)	BIT(8)	1	TCADIFL4	OPERATION FLAGS RESERVED FOR FUTURE USE
(5E)	BIT(8)	1	TCADINRS	NUMBER OF RECORDS IN REQUEST
(5F)	BIT(8)	1	TCADISEL	SELECT VALUE
(60)	CHARACTER	4	TCADIRNA	RECORD ID
(60)	ADDRESS	4	TCADIKYA	KEY ADDRESS
(64)	ADDRESS	4	TCADIDNA	DATA SET NAME ADDRESS
(68)	ADDRESS	4	TCADIVNA	VOLUME NAME ADDRESS
(6C)	BIT(8)	1	TCADIDSP	DATA STREAM PROFILE
(6D)	CHARACTER	1	*	RESERVED
(6E)	HALFWORD	2	TCADIKYN	KEYNUMBER VALUE
(70)	CHARACTER	0	TCADIPND	END OF PLIST MARKER

Constants

Len	Type	Value	Name	Description
CONSTANTS MISCELLANEOUS				
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	TCADUPO	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

Len	Type	Value	Name	Description
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 i.e. NONE
CONSTANTS THE FOLLOWING BELONG TO TCAKCRC				
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
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	TCAIGGET	'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
1	HEX	FD	TCATPKIL	Kill was rejected

TCA

Len	Type	Value	Name	Description
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
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 TE|SE.
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				

TCA

Len	Type	Value	Name	Description
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				
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	TCAPHPIX	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	TCADLPIF	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

TCA

Len	Type	Value	Name	Description
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	TCADLCSP	NOT YET SAFE TO DO *REC RQST
1	HEX	79	TCADLFDA	DE-ALLOCATION FAILURE
TCADLNLD BIT(8) CONSTANT('7A'X) 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	TCADTLFO	- TYPE=LOCATE
1	HEX	E1	TCADTCLO	- CTYPE=LOCATE
1	HEX	E3	TCADTDTD	- CTYPE=INIT_TD
1	HEX	E4	TCATDBRW	- CTYPE=BROWSE
1	HEX	F0	TCATDINI	- CTYPE=INITIALIZE
1	HEX	F1	TCATDWTI	- CTYPE=WAITINIT
1	HEX	FA	TCATDRST	- 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/TSUTE
THE FOLLOWING REFER TO TCATSSTT				
1	CHARACTER	A	TCATSSTU	TSUT TYPE STORAGE
1	CHARACTER	B	TCATSSTG	TSGID 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

TCADY

Len	Type	Value	Name	Description
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 RECVD
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
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	0E	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	0	DFHSYTCA	
(0)	CHARACTER	8	TCACPROG	Current program name
(8)	ADDRESS	4	*	Reserved
(C)	ADDRESS	4	*	Reserved
TASK CONTROL SECTION				
CONTROL BLOCK NAME = DFHTCSKC DESCRIPTIVE NAME = CICS DFHKC system overlay of the DFHTCA @BANNER_START 02 Licensed Materials - Property of IBM "Restricted Materials of IBM" 5697-E93 @BANNER_END				
(10)	CHARACTER	4	TCATXNUM	TXN MGR transaction num
(10)	BIT(8)	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 @BANNER_START 02 Licensed Materials - Property of IBM "Restricted Materials of IBM" 5697-E93 @BANNER_END				
INTERVAL CONTROL SECTION				
(30)	ADDRESS	4	TCAICEAD	INTERVAL CONTROL ELEMENT ADDRESS
(34)	ADDRESS	4	*	Reserved
PROGRAM CONTROL SECTION				

TCADY

Offset Hex	Type	Len	Name (Dim)	Description
CONTROL BLOCK NAME = DFHTCSPC DESCRIPTIVE NAME = CICS Section used by PROGRAM CONTROL @BANNER_START 02 Licensed Materials - Property of IBM "Restricted Materials of IBM" 5697-E93 @BANNER_END				
(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)WS (ALSO CALLED TCAPCCA) FOR ASSEMBLER(EXEC ONLY) IT IS THE DFHEISTG STORAGE HEADER 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	TCAL EDT	Address of data to be
added to the transaction dump				
(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 @BANNER_START 02 Licensed Materials - Property of IBM "Restricted Materials of IBM" 5697-E93 @BANNER_END				
TRANSIENT DATA SECTION				
(54)	ADDRESS	4	TCAIDAA	INTRAPARTITION DATA AREA
BASIC MAPPING SUPPORT				
CONTROL BLOCK NAME = DFHTCSBM DESCRIPTIVE NAME = CICS DFHBSM System Overlay of the DFHTCA @BANNER_START 02 Licensed Materials - Property of IBM "Restricted Materials of IBM" 5697-E93 @BANNER_END				
BASIC MAPPING SUPPORT				
(58)	ADDRESS	4	TCAOSPWA	OUTPUT SERVICE PROCESSOR WORK AREA ADDRESS (BMS)
(5C)	ADDRESS	4	*	Reserved
(60)	BIT(8)	1	*	Reserved
(61)	CHARACTER	2	*	Reserved
(63)	BIT(8)	1	TCADLII	DL/I INDICATOR
	1... ..		TCADLISI	DL/I SCHEDULING INITIATED
	.111 1111		*	Reserved
(64)	FULLWORD	4	*	Reserved
RECOVERY / RESTART SECTION				
CONTROL BLOCK NAME = DFHTCSPS DESCRIPTIVE NAME = CICS DFHSP SYSTEM OVERLAY OF THE DFHTCA @BANNER_START 02 Licensed Materials - Property of IBM "Restricted Materials of IBM" 5697-E93 @BANNER_END				
RECOVERY / RESTART SECTION				
(68)	BIT(8)	1	TCAZLUWD	TASK'S LOGICAL UNIT OF WORK (LUW) DEFINITION
	1... ..		TCAZAKPT	Activity keypoint
	.111 1111		*	Reserved
(69)	BIT(8)	1	TCAZLUWT	TASK'S LUW STATUS
	1... ..		TCAZRRD	A READ HAS OCCURRED IN THIS LUW
	.1.		TCAZRWRT	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)	BIT(8)	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)	BIT(8)	1	TCATRTO	TERMINAL READ TIME OUT VALUE

TCADY

Offset Hex	Type	Len	Name (Dim)	Description
(81)	BIT(8)	1	TC AFLAGS	MISCELLANEOUS FLAGS
	1... ..		*	Reserved
	.1.. ..		TCANOTRC	SUPPRESS TRACE FOR TASK
	.1.		*	Reserved
	...1		TCASZUSE	FEPI Access in Task
	.... 1..		*	Reserved
	.... .1..		TC AUKCAL	MAKE CALL IN USER KEY
	.... .1.		*	Reserved
	.... ..1		*	Reserved
(82)	BIT(8)	1	TCASCS	SCREEN SIZE SELECTION ETC
	1... ..		TC AFASTL	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)	BIT(8)	1	TC AIRTCD	INTER REGION RETURN CODE
(84)	ADDRESS	4	TCARLB	Address of TMP lock block
(88)	ADDRESS	4	TC AEMSSV	SAVE AREA FOR DFHEMS
(8C)	BIT(8)	1	*	Reserved
(8D)	BIT(8)	1	*	Reserved
(8E)	CHARACTER	1	*	Reserved
(8F)	BIT(8)	1	TC AEISFL	EXEC CICS I/F FLAG
(90)	ADDRESS	4	TC AEISA	EXEC CICS I/F STRUCT ADDR
(94)	ADDRESS	4	TC ACAAAD	LE/370 Anchor Address
(98)	ADDRESS	4	TC ACEEPT	LE/370 Parameter List Address *
(9C)	ADDRESS	4	TC AREGPT	EXEC CICS registers
(A0)	ADDRESS	4	TC AIIIRE	III task return addr
(A4)	ADDRESS	4	TC ALTGET	LIFO PUSH ROUTINE(=CSALFNAC) * SEE...TCALTFRE BELOW.
(A8)	FULLWORD	4	*	Reserved
(AC)	FULLWORD	4	*	Reserved
(B0)	CHARACTER	4	TC AKCTTI	Assigned transaction id
(B4)	ADDRESS	4	TC ATCUCN	TCTTE USER CHAIN FIELD.
(B8)	ADDRESS	4	*	Reserved
(BC)	ADDRESS	4	TC AXFS23	XFSTG FOR TRANSFORMATION 2 AND 3
(C0)	ADDRESS	4	TC ARSBA	ADDRESS OF REMOTE SCHEDULING BLOCK
(C4)	CHARACTER	4	TC AKCOID	ID WHICH ORIGINATED TASK
(C8)	BIT(8)	1	TC ADLIST	DLI STATUS INFORMATION
	1... ..		TC AUIBAQ	UIB ACQUIRED
	.111		*	Reserved
	.... 1..		TC AEXDLI	EXEC DLI
	.... .1..		*	Reserved
	.... .1.		TC AREMOT	REMOTE
	.... ..1		TC ADBCTL	DBCTL
(C9)	CHARACTER	2	TC AACMSG	DFHACP MSG NUMBER
(CB)	BIT(8)	1	TC AAPFLG	AP DOMAIN FLAGS @BA81573C
	1... ..		TC ARSREQ	RESUME REQUIRED
	.1..		TC AXMSOT	APXMI should invoke APXM
	.1.		TC ARROUTE	Transaction route attach has been sent to a remote CICS system
	..1 1111		*	Reserved
(CC)	CHARACTER	2	*	Reserved
(CE)	BIT(8)	1	*	Reserved
(CF)	BIT(8)	1	TC AAAM	APPLICATION ADDRESSING MODE NB BITS 1 - 7 OF BYTE TCAAAM MUST BE ZERO
	1... ..		TC AAAM31	31-BIT MODE
(D0)	ADDRESS	4	*	Reserved
(D4)	CHARACTER	4	TC ACRABC	CURRENT ABEND CODE
(D4)	CHARACTER	4	TC APCABC	CURRENT ABEND CODE
(D8)	CHARACTER	3	*	Reserved
(DB)	CHARACTER	1	TC AICB	ABEND CONTROL BLOCK STATUS *
(DC)	ADDRESS	4	TC APCACB	ABEND CONTROL BLOCK ADDRESS
(E0)	CHARACTER	4	TC ASENSE	SENSE FIELDS
(E0)	CHARACTER	2	TC ASS1	SYSTEM SENSE
(E2)	CHARACTER	2	TC AUS1	USER MSG NO.
(E4)	ADDRESS	4	TC ATIEBA	TIE CHAIN FOR API ROUTER
(E8)	ADDRESS	4	TC ADMTLA	ADDRESS OF CSD MANAGER TASK LOCAL STORAGE
(EC)	FULLWORD	4	TC ATRRRC	Transaction Routing RC
(F0)	CHARACTER	7	*	Reserved
(F7)	CHARACTER	5	TC AJVM	JVM information
(F7)	BIT(8)	1	TC ACJVMF	DFHCJVM flags
	1... ..		TC AFURM	Fetching URM DFHJVMAT
	.1..		TC ACURM	Calling URM DFHJVMAT
	.1.		TC AJVMXT	System.exit from JVM
	..1 1111		*	Reserved
(F8)	CHARACTER	4	TC AJVMTK	Token for JVM instance
(FC)	ADDRESS	4	TC APCXA	PROGRAM LOAD POINT ADDRESS
(100)	CHARACTER	8	TC ATRRSN	RESOURCE NAME
BASIC MAPPING SUPPORT FAST PATH FIELDS.				
(108)	CHARACTER	8	TC ABMMSN	SUFFIXED NAME OF MOST RECENTLY LOADED BMS MAPSET
(110)	ADDRESS	4	TC ABMMSA	ADDRESS OF MOST RECENT BMS MAPSET
(114)	CHARACTER	1	TC ABMMW	WIDTH OF MOST RECENT BMS MAP
(115)	CHARACTER	1	TC ABMMH	HEIGHT OF MOST RECENT BMS MAP
(116)	CHARACTER	1	TC ABMMC	COLUMN POSITION MOST RECENT BMS MAP
(117)	CHARACTER	1	TC ABMML	LINE POSITION MOST RECENT BMS MAP
LU6.2 INFORMATION				
(118)	ADDRESS	4	TC AALUCX	ADDRESS OF LU6.2 EXTENSION
(11C)	ADDRESS	4	*	Reserved

TCADY

Offset Hex	Type	Len	Name (Dim)	Description
(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)	BIT(8)	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				
@BANNER_START 02				
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@BANNER_END				
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
Transaction Routing parameters (DFHAPRT->DFHZIS2) & ATI routing for PF starts				
(1A2)	BIT(8)	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	1	TCAFENOM	Copy of FCN OLDMODE
(1E1)	CHARACTER	3	*	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)	BIT(8)	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
	.... ..1.		TCAFENFO	FCN abend on FO TCB
	.... ...1		TCACNCHK	Channel storage check in progress
(1FD)	UNSIGNED	1	TCASRLOC	Abend in application?

TCPRA

Offset Hex	Type	Len	Name (Dim)	Description
(1FE)	BIT(16)	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	0	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.

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@BANNER_END

=====
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)	BIT(30) POS(3)	4	*	@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

TCRWE Remote install work element

```

CONTROL BLOCK NAME = DFHTCRWE
DESCRIPTIVE NAME = CICS/ESA Remote Install Work Element
@BANNER_START 02
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@BANNER_END
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	TCRWE	
(0)	CHARACTER	1	RWETYPE	Request type
(1)	CHARACTER	1	RWEECB	ECB
			RWEIHA	Initiating program has ABENDED
			RWEPOST	TCTTE built OK
			RWESHA	Remote install prog. ABENDED
			RWEDUP	Duplicate TCTTE found
			*	Reserved
			RWETOK	TCTTE has a token
			RWEBITM	RT bit map used
			*	Reserved
(2)	BIT(8)	1	RWE_FLAG	Input flags
			RWERSE	Remote system entry
			RWESTERM	Shipped terminal definition@L3M
			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
 @BANNER_START 02
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 @BANNER_END
 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) =
 TCTVFRPA, TCTVFRMX, TCTVFRCX

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)	BIT(8)	1	TCTVLVL0	Function support byte 0
(5D)	BIT(8)	1	TCTVLVL1	Function support byte 1
	1...		*	80
	.1..		*	40
	..1.		*	20
	...1		*	10
	.... 1...		TCTVUSFD	08 ACB USERFLD supported
	.... .1..		*	04
	.... ..1.		*	02
	.... ...1		TCTVLUNS	01 Resource ID vector
(5E)	BIT(8)	1	TCTVLVL2	Function support byte 2
	1...		*	80
	.1..		*	40
	..1.		*	20
	...1		TCTVXRFS	10 VTAM API is XRF capable
	.... 1...		TCTVCLSS	08 CLSDST sense codes supptd
	.... .1..		TCTVSSON	04 Sending SONCODE supported
	.... ..1.		TCTVSLHO	02 SETLOGON HOLD supported
	.... ...1		*	01
(5F)	BIT(8)	1	TCTVLVL3	Function support byte 3
	1...		TCTV31BA	80 31-bit addr support
	.1..		TCTVQRN	40 Queued response NOTFN
	..1.		*	20
	...1		TCTVUVAR	10 INQUIRE USERVAR supp.

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Offset Hex	Type	Len	Name (Dim)	Description
 1...		*	08
1..		*	04
1.		*	02
1		*	01
(60)	BIT(8)	1	TCTVLVL4	Function support byte 4
	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)	BIT(8)	1	TCTVLVL5	Function support byte 5
	1... ..		*	80
	.1.. ..		*	40
	.1.. ..		*	20
	..1 ..		*	10
	.... 1...		*	08
	.... .1..		*	04
	.... ..1.		*	02
	.... ...1		*	01
(62)	BIT(8)	1	TCTVLVL6	Function support byte 6
	1... ..		*	80
	.1.. ..		*	40
	.1.. ..		*	20
	..1 ..		*	10
	.... 1...		*	08
	.... .1..		*	04
	.... ..1.		*	02
	.... ...1		*	01
(63)	BIT(8)	1	TCTVLVL7	Function support byte 7
	1... ..		*	80
	.1.. ..		*	40
	.1.. ..		*	20
	..1 ..		*	10
	.... 1...		*	08
	.... .1..		*	04
	.... ..1.		*	02
	.... ...1		*	01
(64)	BIT(8)	1	TCTVPNTK	Print key value
(65)	BIT(8)	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)	BIT(8)	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)	BIT(8)	1	TCTVSDST	Shutdown stage Shutdown Quiesce codes ... Move in stages from one to another as stage complete X'00' No shutdown, Etc...
(94)	BIT(8)	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)	BIT(8)	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

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Offset Hex	Type	Len	Name (Dim)	Description
1..		TCTVRRN	04 Use RRN outbound
1.		TCTVISC	02 ISC modules loaded
	.... ...1		TCTVBFQ	01 Non VTAM quiesce
(96)	BIT(8)	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)	BIT(8)	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)	BIT(8)	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	0	*	Alignment
(B8)	BIT(8)	1	TCTV32EA	Erase unprotected '6F'
(B9)	BIT(8)	1	TCTV32RB	Read buffer 'F2'
(BA)	BIT(16)	2	TCTV32PT	Print 'F1F8'
(BC)	BIT(16)	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	Cmnd scheduler commun. list
(CC)	ADDRESS	4	TCTVWLSE	Wait list entry
(D0)	ADDRESS	4	TCTVCCE	First Console Control Element
(D4)	ADDRESS	4	TCTVCTCT	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)	BIT(8)	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				
(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	0	*	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
(128)	FULLWORD	4	TCTCATWE	Console autoinst WE
(12C)	FULLWORD	4	TCTZGINE	DFHZGIN RPL ELEMENTS
(130)	FULLWORD	4	TCTVSRQ	System error Q for NACP First on queue

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Offset Hex	Type	Len	Name (Dim)	Description
(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	
(141)	CHARACTER	7	*	error offset in SCIP 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 TRACKING Q'S
(158)	HALFWORD	2	TCTVRPLN	RPL length
(15A)	HALFWORD	2	TCTVDOC	Dynamic open count
Process control switches				
(15C)	UNSIGNED	1	TCTVSDWT	TC Shutdown Wait from SIT TCSWAIT
(15D)	BIT(8)	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 Threshold 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 CCB
(170)	CHARACTER	128	TCTVXRPL	RPL initialising mask area
VIO trace				
(1F0)	UNSIGNED	1	TCTVIOBL	Max L2 VIO bufflst 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)	BIT(8)	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)	BIT(8)	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
(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)	BIT(8)	1	TCTVQLUL	Length of fully qualified LU name

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Offset Hex	Type	Len	Name (Dim)	Description
(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	This RSA is in use.
(325)	CHARACTER	7	*	Reserved
RSA stack for TCP calls				
(32C)	ADDRESS	4	TCTVRSAP	RSA pointer initial value
(330)	CHARACTER	0	*	Word alignment
(330)	HALFWORD	2	TCTVVMOF	Offset of self in assembly
(332)	HALFWORD	2	TCTVSUF	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	0	TCTVRSEA	RSA stack entry ending address

TCTVRSZ EQU (TCTVRSEA-TCTVRSBA) size of one save area = 80

Offset Hex	Type	Len	Name (Dim)	Description
(338)	STRUCTURE	812	*	
(338)	CHARACTER	320	*	4 save areas for TCP calls
TC task ECBS				
(478)	ADDRESS	4	TCTVINIT	TC initialisation TCA Address (posted by TCRP)
(47C)	ADDRESS	4	TCTVSTAT	

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Offset Hex	Type	Len	Name (Dim)	Description
(47C)	ADDRESS	4	TCTVCECB	TC restart completion ECB
(480)	ADDRESS	4	TCTVOECB	TC open for business ECB
(480)	BIT(8)	1	*	
	1... ..		*	
	.1.. ..		TCTVOPST	TC open for business post bit *
(484)	BIT(8)	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)	BIT(8)	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)	BIT(8)	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
Additional BITMAPS				
(4F4)	CHARACTER	4	*	Reserved
(4F8)	ADDRESS	4	TCTV_MRO2_BITMAP	2nd MRO name set
(4FC)	ADDRESS	4	TCTV_APPC2_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
Persistent Sessions fields				
(508)	BIT(8)	1	TCTVPRB1	Flags for Per. Sess. use
	1... ..		TCTV_PRSS_AVAILABLE	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	

TCTFX

Offset Hex	Type	Len	Name (Dim)	Description
	.... 1...		TCTV_PRSS_VTAM_ABEND	Current takeover victim
(509)	UNSIGNED 1... ..	1	TCTVPRB2	VTAM abend occurred
(50A)	UNSIGNED .1... ..	1	TCTV_ZGRP_FAILED	Byte 2 of Per. Sess flags
(50B)	UNSIGNED	1	TCTV_RA_DONE	SI11 notify SIJ1 of fail
			TCTVPRB3	RA initiation done
			TCTVPRB4	Byte 3 of Per. Sess flags
				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	
(514)	FULLWORD	4	TCTV_PRSS_UNBIND_THRESHOLD	NIBs for CO TCB
(518)	BIT(64)	8	TCTV_ZCNIBLST_TOKEN	NIBS FOR ZGUB CO
(520)	FULLWORD	4	TCTV_ZGRP_FIN_ECB	Subpool token - Per. Sess.@LFA
(524)	FULLWORD	4	TCTV_PSDI	ZGRP finished
(528)	ADDRESS	4	TCTV_PRSS_RPL_POOL_PTR	PSDI value in seconds
(52C)	ADDRESS	4	TCTV_PRSS_UNBIND_RPLS_PTR	RPL Pool for Per. Sess.
(530)	ADDRESS	4	TCTV_FIRST_NIBLIST_PTR	RPL pool within above
(534)	ADDRESS	4	TCTV_PRSS_LNKTABLE_PTR	First NIBLIST in chain
				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	
(540)	FULLWORD	4	TCTV_PRSS_OPNDST_COUNT	Per. Session INQUIREs issued.
(544)	FULLWORD	4	TCTV_PRSS_UNBIND_COUNT	Per. Sessions OPNDSTed
(548)	FULLWORD	4	TCTV_PRSS_ERROR_COUNT	Per. Sessions unbound
(54C)	ADDRESS	4	TCTV_NIB_EXLST_PTR	Per. Sessions clsd ext 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	Nibrch 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	
(590)	ADDRESS	4	TCTV_BRIDGE_BITMAP	CICS Client term names
(594)	ADDRESS	4	TCTV_CONS_BITMAP	Local BR facilities
(598)	ADDRESS	4	TCTV_ZC_ENQ_POOL_TOKEN	Console names
(59C)	ADDRESS	4	TCTV_BRIDGE2_BITMAP	ZC ENQ Pool Token
(5A0)	BIT(8)	1	TCTV_GRQL	Shared BR facilities
(5A1)	CHARACTER	17	TCTV_GRQN	Fully qual. GR name lngth
(5B2)	CHARACTER	8	TCTV_GENRNAME	Fully qualified GR name
(5BA)	BIT(8)	1	TCTV_GRSTATUS	Generic resource name
(5BB)	CHARACTER	1	*	Generic resource status
				Reserved

TCTFX

Offset Hex	Type	Len	Name (Dim)	Description
(5BC)	ADDRESS	4	TCTV_ZGXA	DFHZGXA entry point
(5C0)	ADDRESS	4	TCTV_ZGPR	DFHZGPR 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)	BIT(8)	1	TCTV_CESC_FLAGS	CESC flags
	1... ..		TCTV_CESC_SCHEDULED	CESC is scheduled
	.111 1111		*	Reserved
(5CE)	UNSIGNED	2	*	Reserved
Entry point addresses for ZC domain subroutines				
(5D0)	ADDRESS	4	*	DFHZGxx 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
PS signon retention storage				
(638)	CHARACTER	8	TCTV_PSTIM	Time of system failure
(640)	CHARACTER	8	TCTV_PSTTOKEN	Saved timer token
(648)	BIT(8)	1	TCTV_PSSIGN_FLGS	PS signon retention flags
	1... ..		TCTV_CATLG_ON_SHUTDOWN	Catalog on shutdown when PSDI = 0
	.1... ..		TCTV_CATLG_NOT_NEEDED	Don't catalog on shutdown when PSDI > 0
(649)	CHARACTER	3	*	Reserved
Further DFHZLGX work areas				
(64C)	FULLWORD	4	TCTV_ZLGX_TNADDR_LENGTH	Used during autoinstall
(650)	ADDRESS	4	TCTV_ZLGX_CV64_PTR	Used during autoinstall
(654)	CHARACTER	8	TCTV_ZLGX_WORK1	For CVD of TNADDR
(65C)	CHARACTER	8	TCTV_ZLGX_WORK2	For EDMK of TNADDR
(664)	CHARACTER	0	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_	
			TERM_TIMEOUT	Terminal
1	DECIMAL	2	TCTV_CESC_XRF_TIMEOUT	XRF
1	DECIMAL	3	TCTV_CESC_ENABLE_TIMEOUT	Enable
<hr/>				
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

TCTLE Terminal control table line entry

CONTROL BLOCK NAME = DFHTCTLS
 DESCRIPTIVE NAME = CICS Terminal Control Table Line Entry.
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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	0	*	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	0	*	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	0	*	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	0	*	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	output area
(30)	BIT(8)	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...		TCTLESIC	switched line connected
	.... .1..		TCTLESTR	terminal read initiated
	.... ..1.		TCTLESLI	line initiated

TCTLE

Offset Hex	Type	Len	Name (Dim)	Description
	.... ...1		TCTLESOS	line out of service
(31)	BIT(8)	1	TCTLEMI	multiple indicator byte
	1...		TCTLELPI	last line in pool indicator
	.1.		TCTLEMWL	wrap list indicator
	..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)	BIT(8)	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)	BIT(8)	1	*	
	1...		*	
	.1.		TCTLEPUI	purging data request indicator
	..1.		TCTLEDP2	term already connected purge
	...1		TCTLEDP1	term out of service purge
TCTLEDP1+TCTLEDP2 = TCTLEDP3 ... term in nopoll status purge				
	.... 1111		*	
(49)	BIT(8)	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)	BIT(8)	1	TCTLEBEI	bi-sync event indicators
(68)	BIT(8)	1	TCTLESBI	BSC line status
(69)	BIT(8)	1	TCTLEIBS	index byte savearea
(6A)	BIT(8)	1	TCTLERPS	rotational poll savearea
(6B)	BIT(8)	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

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 TCTESES
 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	293	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)	BIT(8)	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.		TCTTESTA	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)	BIT(8)	1	TCTTECIL	Length of USER AREA
(1D)	BIT(8)	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
	.... ..1.		TCTTEEOD	End of DATASET
	.... ...1		TCTEMOPU	Unattended mode

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
	.... .1..		TCTTEOFC	End of file
	.... .1.		TCTRO2	WRITE break occurred
	.... ...1		TCTRO1	READ attention occurred
(1E)	CHARACTER	1	TCTTEURC	User return code
(1F)	BIT(8)	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	TCTTERVT	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)	BIT(8)	1	TCTEVC	Type code name definition
	1111		TCTEVTCT	Logical device code
	.... 1..		*	
	.... .1..		TCTEOPF	OUTPUT format PARM present
	.... .1.		TCTEIFP	INPUT format PARM present
	.... ...1		TCTEFPP	FORMS parameter present type code STRG ALLOC
(2D)	BIT(8)	1	*	
(2D)	BIT(8)	1	TCTEVLDC	Logical device code
DATA STREAM TYPE				
(2E)	BIT(8)	1	TCTETDST	DATA STREAM type byte
	1... ..		TCTESCSB	SCS basic DATASTREAM indicator (GRAPHICS + NL)
	.1..		*	
	.1.		*	
	...1		*	
	.... 1..		TCTEADP	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)	BIT(8)	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)	BIT(8)	1	TCTTEAID	ATTENTION identifier
(33)	BIT(8)	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
2980 DEFINITIONS				
Terminal Dependent Overlay				
(30)	CHARACTER	5	TCTE2980	2980 definitions
(30)	BIT(8)	1	TCTTEBAA	2980 alternate address
(31)	BIT(8)	1	TCTTENSA	2980 normal address

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
(32)	BIT(8)	1	TCTTESID	2980 station ID
(33)	BIT(8)	1	TCTTETAB	2980 TAB factor
(34)	BIT(8)	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)	BIT(8)	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)	BIT(31) POS(2)	4	*	Reserved
(34)	FULLWORD	4	TCTTEMID	message identification
(38)	FULLWORD	4	TCTTECNI	Console identification
VTAM DEFINITIONS				
(3C)	CHARACTER	0	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)	BIT(8)	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)	BIT(8)	1	*	
(46)	BIT(8)	1	TCTETXTF	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)	BIT(8)	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
3270 EXTENDED FEATURES				
(50)	BIT(8)	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

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
(51)	BIT(8)	1	TCTTEMSR	MSR CONTROL supported
	1... ..1.		TCTE32E2	3270 extended features #2
	1... ..1.		TCTTEFRL	Field OUTLINING supported
	..1.		TCTTEMIX	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)	BIT(8)	1	TCTE32E3	3270 extended features
	1... ..1.		TCTTEQYA	QUERY always
	..1.		TCTTEQYC	QUERY COLD-STARTS only
	...1		TCTTEQYN	QUERY next LOGON
	.... 1111		*	QUERY pending
Extended User INFORMATION field				
(53)	BIT(8)	1	TCTEUSE2	Byte storage allocation
	1... ..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)	BIT(8)	1	TCTESCFL	Security flag byte
	1... ..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.		TCTESCCLG	SIGNOFF = LOGOFF
	.... ..1.		TCTESTAR	Trans Access Revoked
	.... ..1.		TCTESCTO	Timeout signoff required
(65)	CHARACTER	4	TCTEELGM	A(EXTRACTED LOGON DATA)
(69)	BIT(8)	1	*	
	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)	BIT(8)	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)	BIT(8)	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)	BIT(8)	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 ETCB)
(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	TCTTECTK	Channel Token
(90)	BIT(8)	1	TCTTECHN	Channel properties
	1... ..1.		TCTECHAN	Other end of MRO link supports channels
	..1.		*	Reserved
	..1.		TCTE_CHAN_SENT_FMH	FMH sent by DFHAPCR
	...1 1111		*	Reserved
(91)	CHARACTER	3	*	Reserved
(94)	ADDRESS	4	*	Reserved
(98)	ADDRESS	4	TCTTEUCN	ISC User ownership chain
(9C)	ADDRESS	4	TCTTEIST	ISC INTERSYSTEM table address
(A0)	BIT(8)	1	TCTTEEDF	EDF debug mode
(A1)	CHARACTER	1	TCTEMRST	MRO/LU6.1 Apl State-cur

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
(A2)	CHARACTER	1	TCTEMRSV	MRO/LU6.1 Apl State-prev
(A3)	CHARACTER	1	*	
	1111		TCTEMRSX	MRO/LU6.1 Indicators
	1...		TCTENNQI	IMS Session Indicator
	.111		*	Reserved
	.... 1111		TCTTEDI2	DYNAMIC INSTALL flags
	.... 111.		*	Reserved
	.... ...1		TCTEDAB	Autoinstall delete abend
(A4)	BIT(8)	1	TCTTEDII	DYNAMIC INSTALL indicators. *
	1...		TCTTEDAP	Pending DYNAMIC ADD
	.1..		TCTTEDDP	Requires deleting
	.1.		TCTPNDOS	Pending INSERVICE
	...1		TCTPNNDP	Pending TTI i.e. RECEIVEONLY *
	.... 1...		TCTPNNDAT	Pending ATI
	.... .1..		TCTPNNDLG	Pending CREATESESS.
	.... .1.		TCTPNNDAC	Pending AUTOCONNECT
	.... ...1		TCTETRAN	Transient terminal
(A5)	BIT(8)	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
(A6)	CHARACTER	4	TCTEXTOK	ZXQO token
(AA)	HALFWORD	2	TCTEEIDL	Length of residual data
(AC)	HALFWORD	2	TCTTECCU	Physical hardware address
(AE)	CHARACTER	1	TCTESONS	SON code for SCIP
Terminal read timeout VALUE				
(AF)	BIT(8)	1	*	Reserved
(B0)	BIT(8)	1	TCTTESCV	Storage violation count
This byte is used by surrogates to record the state of the relay link				
(B1)	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
(B2)	UNSIGNED	2	TCTETRTO	Read Timeout Value
The following field is overlaid by: TCTTEZ1 : NON-VTAM status fields TCTTEZ2 : PIPELINE statistics TCTTEZ3 : Session Specific fields for Function Shipping				
(B4)	CHARACTER	8	TCTTEZ0	
NON - VTAM Status fields				
(B4)	CHARACTER	8	TCTTEZ1	NON-VTAM status fields
(B4)	FULLWORD	4	TCTTEBC	Bypass control counter
(B8)	HALFWORD	2	TCTTELPL	(Terminal type is CARD READER or LINE PRINTER)
(BA)	BIT(8)	1	TCTTEPRC	Event (terminal type if SYSTEM/7 support)
(BB)	UNSIGNED	1	*	NON-VTAM Reserved
PIPELINE Statistics				
(B4)	CHARACTER	8	TCTTEZ2	PIPELINE statistics
(B4)	HALFWORD	2	TCTETCNT	Total throw-away count
(B6)	HALFWORD	2	TCTESCNT	Number of times (consecutive throw-away count)
(B8)	HALFWORD	2	TCTECCNT	Current throw-away count
(BA)	HALFWORD	2	TCTEMCNT	Maximum throw-away count
Session Specific fields used for Function Shipping				
(B4)	CHARACTER	4	TCTTEZ3	Session only fields
(B4)	CHARACTER	4	TCTESERV	Current mirror transid
TERMINAL STATISTICS				
(BC)	FULLWORD	4	TCTTENI	From this terminal (BINARY)
(C0)	FULLWORD	4	TCTTENO	To this terminal (BINARY)
(C4)	CHARACTER	2	TCTEDVSC	VTAM short on storage (SOS)
(C4)	CHARACTER	2	TCTTETE	Number of transmission errors or IRC disconnect requests (BINARY)
OPERATOR STATISTICS				
(C6)	CHARACTER	4	TCTTEOT	Number of transactions
(CA)	CHARACTER	2	TCTTEOE	Number of transaction errors

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
General Bits				
(CC)	BIT(8)	1	*	*
	11..			
	..1.		TCTECLRQ	CLSDST on INSERT req
	...1		TCTEPABP	Purge abend pending
	.... 1...		TCTETABP	Timeout abend pending
	.... .1..		TCTE_CONFDATA_ YES	Suppress user data
	.... ..1.		TCTEDIBS	DIB is inactive
	.... ...1		TCTTEGWI	A GET WAIT has been issued *
TERMINAL CONTROL INDICATORS				
(CD)	BIT(8)	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
(CE)	BIT(8)	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
(CF)	BIT(8)	1	TCTTEIO2	Byte 2 name definition
	1...		TCTTECAI	Permanent transaction code
	..1.		*	*
	...1		*	*
	.... 1...		TCTERORT	reserved
	.... ..1.		TCTERORN	Initiate restart task
	.... ...1		TCTEROCS	Notify terminal
	.... ...1		TCTEROS	Restart for CICS LOGON
	.... ...1		TCTEROS	Restart to SIMLOGON
ACCESS METHOD FLAGS				
(D0)	BIT(8)	1	TCTEAMIB	Access method flags
OPERATION REQUESTS				
(D1)	BIT(8)	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				
(D2)	BIT(8)	1	TCTTECS	External control request
	1...		TCTTERBI	Read buffer
	..1.		TCTTEEUI	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
(D3)	BIT(8)	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
	.... ..1.		TCTTECBW	COMMON BUFFER request
	.... ...1		TCTTEPBK	PASSBOOK request
	.... ...1		TCTTEOFR	END OF FILE request
	.... ...1		TCTTEWCI	Control char supplied
(D4)	BIT(8)	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
(D5)	BIT(8)	1	TCTEIKPC	Byte 4 storage allocation

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
	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
(D6)	BIT(8)	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
(D7)	BIT(8)	1	TCTEOC4	Byte 6 storage allocation
	1...		*	
	.1...		*	
	..1.		*	
	...1		*	
	.... 1...		*	
	.... .1..		TCTEBYPQ	Byp quiesce for PASS
	.... ..1.		TCTENOA	NOABEND requested
	.... ...1		TCTEINN	TERMERR flag byte
(D8)	BIT(8)	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
(D9)	BIT(8)	1	TCTEERAF	3270 Error MSG flags ROUTING SESSION
	1...		TCTEERAF	Error MSGS on last line
	.1...		TCTEERAI	Intensify 3270 error MSGS
	..1.		TCTEERAI	Intensify 3270 error MSGS
	...1		TCTEERAI	Intensify 3270 error MSGS
(DA)	BIT(8)	1	TCTEERAH	Propagate abend towards TOR
(DB)	BIT(8)	1	TCTEERAC	3270 Error MSG HIGHLIGHT ATTR
(DC)	CHARACTER	4	TCTESYID	SYSID of transaction owning system
(E0)	BIT(8)	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...		TCTERTBC	Back-end CRTE cancel
	.... .1..		TCTETECH	Supports channels
	.... ..1.		*	RESERVED
(E1)	BIT(8)	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
(E2)	UNSIGNED	2	TCTTERTK	RTT entry key
(E4)	UNSIGNED	1	TCTTEEN	POLL list entry number
(E5)	CHARACTER	1	TCTTETP	Terminal priority
(E6)	BIT(8)	1	*	Trace bits
	1...		TCTETRX	Exit trace active
	.1...		TCTETRS	Standard or special trace OFF = STAN, ON = SPECIAL
	..11 1111		*	Trace - Reserved
(E7)	UNSIGNED	1	TCTENLS	National Lang. Supp. code
(E8)	ADDRESS	4	TCTECLP	Address of CEL parmlist passed from CICS to CEL at Run Unit Init
(EC)	CHARACTER	8	TCTTE_START_DATA_ID	Start data id
(EC)	ADDRESS	4	TCTTE_START_DATA_ADDRESS	Data on session
(F0)	BIT(8)	1	TCTTE_START_DATA_FLAGS	Start flags
	1...		TCTTE_START_DATA_HEADER	Header in data
	.1...		TCTTE_START_DATA	Just data
	..11 1111		*	Reserved
(F1)	CHARACTER	3	*	Reserved
(F4)	HALFWORD	2	TCTTE_START_DATA_LEN	Start data length
(F6)	CHARACTER	1	TCTE_RES_SA	Reserved

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
(F7)	BIT(8)	1	TCTE_RZ	Requeststream flags
	1... ..		TCTERZS	Requeststream session
	.1... ..		TCTERZJS	Requeststream join sess
	..1.		TCTE_RZ_ INVITE_DONE	
(F8)	ADDRESS	4	TCTE_USER_TOKEN	APTC issued invite
(F8)	ADDRESS	4	TCTE_RQSBLKA	Notify user token
				Addr of Requeststream Blk
The following field is overlaid by:				
TCTTEX1 : Bisynchronous Data				
TCTETCM1 : TCAM Area				
(100)	CHARACTER	12	TCTTEX0	SNA System Area
BISYNCHRONOUS DATA				
(100)	CHARACTER	12	TCTTEX1	BISYNCH data
(100)	CHARACTER	4	TCTTEBSB	BISYNCH data begin addr
(100)	HALFWORD	2	TCTTEBDL	BISYNCH data area length
(102)	BIT(8)	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
(103)	BIT(8)	1	*	Reserved
(104)	ADDRESS	4	TCTTEPDA	Area
(108)	ADDRESS	4	TCTTEBIA	Blocked input record addr
(10C)	CHARACTER	0	TCTTEBEA	Address
TCAM AREA (OS)				
(100)	CHARACTER	12	TCTETCM1	TCAM area
(100)	HALFWORD	2	TCTTETML	Minimum length TIOA TCAM
(102)	BIT(8)	1	*	TCAM SNA flags
	1... ..		TCTETME	EB still to do for task
	.1... ..		TCTETMD	DUMMY write to perform
(103)	BIT(8)	1	TCTETCM2	Reserved TCAM
(104)	CHARACTER	8	TCTTETQN	TCAM QUEUE name
(10C)	CHARACTER	0	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				
(10C)	CHARACTER	25	TCTTETDE	Term Dep Ext Overlay area
2980 CONTROL EXTENSION				
Terminal dependent extension overlay area				
(10C)	CHARACTER	2	TCTTEY1	2980 control ext.
(10C)	BIT(8)	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		TCTTEXLT	Data translate
(10D)	BIT(8)	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				
(10C)	CHARACTER	25	TCTTEY2	3270 display area
(10C)	ADDRESS	4	TCTTEBDA	Blocking data area addr
(110)	HALFWORD	2	TCTTELSV	Retention
(112)	BIT(8)	1	TCTTEDOC	Byte 1 Storage Allocation
	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
(113)	BIT(8)	1	TCTTEWCS	Save area
(114)	BIT(8)	1	TCTTEDOS	Byte 2 storage allocation
	1... ..		TCTTEDBI	Device BUSY

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
	.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				
(115)	BIT(8)	1	TCTE32SW	SEGMENTED write flag byte
	1...		TCTE32WI	SEGMENTED write indicator
(116)	CHARACTER	2	TCTE32RL	Len of remain SEG output
(118)	CHARACTER	4	TCTE32RA	Addr of remain SEG output
3270 COMPATIBILITY AREA				
(11C)	CHARACTER	1	TCTTECTT	Compatible terminal type
(11D)	CHARACTER	1	TCTTECTM	Compatible terminal model
(11E)	CHARACTER	1	TCTTERTT	Real terminal type
(11F)	CHARACTER	1	TCTTERMN	Real terminal model
(120)	BIT(8)	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
(121)	BIT(8)	1	*	Reserved
(122)	HALFWORD	2	TCTTECSM	SMI BINARY position
(124)	BIT(8)	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				
(10C)	CHARACTER	4	TCTTEY3	3735 extension area
(10C)	CHARACTER	1	TCTTEMC1	3735 mode control flags
	1...		*	
	.1..		TCTTEMIQ	INQUIRY mode
	..1.		TCTTEMGI	GETMAIN
	...1		TCTTEMSF	ERROR status
	.... 1...		TCTTEMEF	End of file
	.... .1..		TCTTEMTC	Transmission complete
	.... ..1.		TCTTEMBW	Batch mode - write
	.... ...1		TCTTEMBR	Batch mode - read
(10D)	CHARACTER	3	TCTTEDMP	Data retention area
3600				
BINARY SYNCHRONOUS EXTENSION AREA				
Terminal dependent extension overlay area				
(10C)	CHARACTER	15	TCTTEY5	3600 extension area
(10C)	FULLWORD	4	TCTTEMTU	Message input
(110)	ADDRESS	4	TCTTEMTI	Address input TIOA
(114)	ADDRESS	4	TCTTESTU	User output TIOA address
(118)	HALFWORD	2	TCTTEMLN	Input
(11A)	BIT(8)	1	TCTTEMLN	3600 BSC control flags
	1...		TCTTEWWR	Write pending
	.1..		TCTTEMTD	Output segment built
	..1.		TCTTEMSG	SEGMENTED write

START - STOP SPECIFIC POLL AREA

Offset Hex	Type	Len	Name (Dim)	Description
(103)	STRUCTURE	9	*	Overlay byte and TCAM Q name
(103)	CHARACTER	3	TCTTESPA	POLL list header
(106)	CHARACTER	2	TCTTESPC	Terminal Address
(108)	CHARACTER	4	*	POLL list suffix

SNA SYSTEM AREA

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
(100)	STRUCTURE	336	*	AREAS
(100)	CHARACTER	4	TCTEVTSA	VTAM system area start
(100)	HALFWORD	2	TCTESOAL	Terminal data length
(102)	HALFWORD	2	TCTEGRS	Size of queued GETMAIN request
This area (from TCTE_TRACE_3 to TCTE_TRACE_3_LEN) is traced				
(104)	CHARACTER	44	TCTE_TRACE_3	TCTTE trace area 3
SENSE DATA				
(104)	CHARACTER	8	TCTEVSSS	System sense and status area
(104)	CHARACTER	4	TCTEVSDA	Sense area
(104)	BIT(8)	1	TCTESS1	Definition modifier system sense codes
(105)	BIT(8)	1	TCTESS2	Definition
(106)	BIT(8)	1	TCTEUS1	User sense byte 1
(107)	BIT(8)	1	TCTEUS2	User sense byte 2
(108)	CHARACTER	4	TCTEVNSS	Node sense and status area *
(108)	BIT(8)	1	TCTENSS1	Node system sense byte 1
(109)	BIT(8)	1	TCTENSS2	Node system sense byte 2
(10A)	BIT(8)	1	TCTENUS1	Node User sense byte 1
(10B)	BIT(8)	1	TCTENUS2	Node User sense byte 2
(10C)	ADDRESS	4	TCTESLNK	ISC system OWNERSHIP CHAIN *
(10C)	ADDRESS	4	TCTENEXT	Address next TCTTE(session) *
(10C)	ADDRESS	4	TCTE_NEXT_ APPC_SURROG	Next PS APPC surrog
(110)	CHARACTER	4	TCTETRND	ISC transaction ID
# (114)	BIT(8)	1	TCTE_SENSE_RC	Reason Code for 084C0000
(115)	BIT(8)	1	TCTESPS	ISC SYNC POINT flags
	1... ..		TCTESPSH	ISC SHUNT received
	.1.		TCTESPAB	ISC ISSUE ABEND received
	..1.		TCTESPER	ISC ISSUE ERROR received
	...1		TCTESPRB	ISC SYNC ROLLBACK received *
	.... 1..		TCTESPSS	ISC SYNC PT request sent
	.... .1..		TCTESPID	ISC IN DOUBT indicator
	.... ..1.		TCTESPSR	received
	.... ...1		TCTESPPR	ISC PREPARE received
(116)	BIT(8)	1	TCTESPSA	ADDITIONAL SYNC PT flags
	1... ..		*	
	.1.		TCTESPRP	Sent PREPARE
	..1.		TCTESPRC	Sent 'PREPARE INVITE'
	...1		TCTESPRL	Sent 'PREPARE REQUEST EB'
	.... 1..		TCTERPRC	Received 'PREPARE INVITE'
	.... .1..		TCTERPRL	Received 'PREPARE REQUEST EB'
SYNCH POINT status - not PROTOCOL FLAGS, but AUW LIFETIME				
(117)	BIT(8)	1	TCTESPST	SYNC point status
	1... ..		*	
	.1.		*	
	..1.		*	
	...1		*	
	.... 1..		*	
	.... .1..		*	
	.... ..1.		*	
	.... ...1		TCTESPUN	Session is known to not have done PROTECTED ACTIONS
(118)	BIT(8)	1	TCTESARB	
	1... ..		*	Reserved
	.1.		*	Reserved
	..1.		*	Reserved
	...1		*	Reserved
	.... 1..		*	Reserved
The next flag only used if TCSEAR0I is on (new rules)				
	.... .1..		TCTESARR	State after Rollback flag On = go to Receive Off = go to Send
	.... ..1.		*	Reserved
	.... ...1		*	Reserved
(119)	BIT(8)	1	*	Reserved
(11A)	BIT(8)	1	*	Reserved
	1... ..		TCTESABC	ABORT completely
	.1.		TCTESABR	ABORT received
	..1.		TCTESABS	ABORT sent
	...1		TCTESABP	ABORT pending
	.... 1..		*	
	.... .1..		*	
	.... ..1.		TCTEEMX	ERP MSG expected
	.... ...1		TCTESER	Error processing state
(11B)	CHARACTER	1	TCTEATPN	Attached process memory
(11C)	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				
(120)	CHARACTER	2	TCTEARC	Information
(120)	BIT(8)	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

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
	.... .1.		TCTEDL1M	DL/1 model
	.... .1.		TCTEFDM	FILE DEFINITION model
(121)	BIT(8)	1	TCTEARC2	Arch Info 2
	1...		TCTEOPCM	OPERATOR CONTROL model Other bits reserved
(122)	BIT(8)	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
(123)	BIT(8)	1	TCTENEPS	NEPCLASS static definition
(124)	CHARACTER	2	TCTESQNS	sequence number BUCKETS
(124)	HALFWORD	2	TCTESQIP	PHYSICAL INBOUND sequence number
(126)	HALFWORD	2	TCTESQOP	PHYSICAL OUTBOUND sequence number
(128)	HALFWORD	2	TCTESQIL	LOGICAL INBOUND sequence number
(12A)	HALFWORD	2	TCTESQOL	LOGICAL OUTBOUND sequence
(12C)	HALFWORD	2	TCTESQR1	OUR BB SEQ no sent
(12E)	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)				
(130)	BIT(8)	1	TCTETRC1	Byte 2 storage allocation
TASK REQUEST COLLECTOR (2)				
(131)	BIT(8)	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
(132)	BIT(8)	1	TCTESUP1	Required features (1)
(133)	BIT(8)	1	TCTESUP2	Required features (2)
(134)	BIT(8)	1	TCTENSP1	Unsupported features (1)
(135)	BIT(8)	1	TCTENSP2	Unsupported features (2)
(136)	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)				
(136)	BIT(8)	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.		TCTEAIO	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
(137)	BIT(8)	1	TCTEXTOP	EXTRACT options
(138)	BIT(8)	1	TCTEOPT2	EXTRA options
	1...		TCTESRAQ	RAQ=YES specified
	.1.		TCTETUCT	UC translate required
	.1.		*	
	...1		*	
	.... 1...		*	
	.... .1..		*	
	.... .1.		*	
	.... .1.		*	
(139)	BIT(8)	1	TCTEJID	JOURNALLING JOURNAL ID
(13A)	BIT(8)	1	TCTENEPC	Node error program class ID
end of COPIED FIELDS from PCT				
(13B)	BIT(8)	1	*	
	1...		TCTENBD	NIB disabled - ZCLS cleanup needed
	.1.		TCTECRQ	Real CLSDST reqd
(13C)	CHARACTER	4	TCTEIRET	Access method RETCODE
(140)	CHARACTER	8	TCTENET	Applid of TOR
(140)	CHARACTER	8	TCTE_TITOKEN	token for remote delete
Communications Recovery Services storage				
(148)	CHARACTER	38	CR_STORAGE	
Access method independent Communications Recovery Services storage				
(148)	CHARACTER	20	CR_COMMON_STG	
Access method dependent Communications Recovery Services storage				
(15C)	CHARACTER	12	CR_OVERLAY_STG1	
(15C)	CHARACTER	2	*	

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
(15E)	CHARACTER	9	*	
(167)	CHARACTER	1	*	Round up to next halfword
(168)	CHARACTER	6	CR_OVERLAY_STG2	
(16E)	CHARACTER	2	*	reserved
(170)	CHARACTER	6	TCTE_TNADDR	TN3270 client address
(170)	UNSIGNED	4	TCTE_TPADDR	TP address
(174)	UNSIGNED	2	TCTE_PORT	port
(176)	CHARACTER	10	TCTE_RES_SNA	Reserved
(180)	CHARACTER	4	TCTEACSA	Access method SPECIFIC OVERLAY part of SNA system area
VTAM SYSTEM AREA				
(180)	ADDRESS	4	TCTEFMSA	Address of area to be freed
(184)	ADDRESS	4	TCTEASRA	ASYNCH TCP RESUME address
(188)	ADDRESS	4	TCTEHACP	ACTIVATE chain address
(18C)	FULLWORD	4	TCTECID	VTAM communications ID
(190)	ADDRESS	4	TCTEVSSC	SYST SERVICE chain address
(194)	HALFWORD	2	TCTELDCI	LDC index into lookup tbl
(196)	BIT(8)	1	TCTEPRUS	PRIMARY RU SIZE
(197)	BIT(8)	1	TCTESRUS	SECONDARY RU SIZE
(198)	HALFWORD	2	TCTESQOS	number
(19A)	HALFWORD	2	TCTESQRP	Turnaround count field
(19C)	HALFWORD	2	TCTESQSC	number
(19E)	HALFWORD	2	TCTESQER	ERROR SEQUENCE number
(1A0)	HALFWORD	2	TCTEOAL	Maximum allowable output
(1A2)	HALFWORD	2	TCTECHMX	Maximum chain size
(1A4)	HALFWORD	2	TCTERUSZ	Maximum RU size
(1A6)	HALFWORD	2	TCTELROF	Offset of next logical REC
(1A8)	ADDRESS	4	TCTELRTA	Deblocking
(1AC)	ADDRESS	4	TCTELLDC	Local available LDC table
(1B0)	FULLWORD	4	TCTEEIDA	EXIT ID TRACE area
(1B0)	BIT(8)	1	TCTEEID0	EXIT ID capture area
(1B1)	BIT(8)	1	TCTEEID1	EXIT ID 1
(1B2)	BIT(8)	1	TCTEEID2	EXIT ID 2
(1B3)	CHARACTER	1	TCTEMDID	MODULE identifier
(1B3)	BIT(8)	1	TCTEEID3	EXIT ID 3
(1B4)	CHARACTER	4	TCTECDSV	A(TEDA) if change directio
(1B4)	FULLWORD	4	TCTERCSV	Error save area
This area (from TCTE_TRACE_5 to TCTE_TRACE_5_LEN) is traced				
(1B8)	CHARACTER	57	TCTE_TRACE_5	TCTTE trace area 5
INTERNAL ERROR CODE AREA				
(1B8)	BIT(64)	8	TCTE_ZNAC_ ERRCODE	BDY for CDS
(1B8)	BIT(16)	2	TCTEER15	Internal error code 5
(1B8)	BIT(8)	1	TCTEVR5	Internal error code 5
(1B9)	BIT(8)	1	TCTEMID5	Prog ID for error code 5
(1BA)	BIT(16)	2	TCTEER16	Internal error code 6
(1BA)	BIT(8)	1	TCTEVR6	Internal error code 6
(1BB)	BIT(8)	1	TCTEMID6	Prog ID for error code 6
(1BC)	BIT(16)	2	TCTEER17	Internal error code 7
(1BC)	BIT(8)	1	TCTEVR7	Internal error code 7
(1BD)	BIT(8)	1	TCTEMID7	Prog ID for error code 7
(1BE)	BIT(16)	2	TCTEER18	Internal error code 8
(1BE)	BIT(8)	1	TCTEVR8	Internal error code 8
(1BF)	BIT(8)	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.				
(1C0)	BIT(16)	2	TCTEER19	Internal error 9
(1C0)	BIT(8)	1	TCTEVR9	Internal error 9
(1C1)	BIT(8)	1	TCTEMID9	Prog ID for error 9
(1C2)	BIT(16)	2	TCTEER1A	Internal error 10 (A)
(1C2)	BIT(8)	1	TCTEVRCA	Internal error 10 (A)
(1C3)	BIT(8)	1	TCTEMIDA	Prog ID for error 10
(1C4)	ADDRESS	4	TCTEAWEA	AWE address
(1C4)	ADDRESS	4	TCTE_CTINDATA_ PTR	Pointer to CTIN data
ACTIVATE CHAIN REQUESTS				
(1C8)	CHARACTER	4	TCTEACR	Activate request bytes
(1C8)	BIT(8)	1	TCTEACR1	Byte 1 storage allocation
	1... ..		TCTECGR	GETMAIN
	.1.		TCTECFR	FREEMAIN
	..1.		TCTECAT	ATTACH
	...1		TCTECRC	ASYNCH return of control
	.... 1...		TCTECRR	RESUME
	.... .1..		TCTERCS	RECEIVE SPECIFIC
	.... ..1.		*	Reserved
	.... ...1		*	Reserved
(1C9)	BIT(8)	1	TCTEACR2	Byte 2 storage allocation
	1... ..		TCTECSS	SEND SYNC data flow
	.1.		TCTECSA	SEND ASYNCH commands
	..1.		TCTECSC	SESSIONC
	...1		TCTECSR	SEND response
	.... 1...		TCTECSR	RESETSR
	.... .1..		TCTEBYP	Delay ACTIVATE SCAN of TCTTE

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
	.... .1.		TCTECXA	EXIT added
	.... .1		TCTECDT	DETACH
(1CA)	BIT(8)	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
(1CB)	BIT(8)	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
(1CC)	BIT(8)	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
(1CD)	BIT(8)	1	TCTEVPAC	V-PACING constant
(1CE)	BIT(8)	1	*	reserved
(1CF)	BIT(8)	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
(1D0)	BIT(8)	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
(1D1)	BIT(8)	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
(1D2)	BIT(8)	1	TCTEVIR4	Byte 4 storage allocation
	1... ..		TCTECRP	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
(1D3)	BIT(8)	1	TCTEVIR5	Byte 5 storage allocation
	1... ..		TCTERPL	FREEMAIN - RPL
	.1.		TCTECFA	FREEMAIN - all
	.1.		TCTECFS	FREEMAIN - specific
	...1		TCTEFNB	FREEMAIN - NIB/BIND
	.... 1...		TCTEFBF	FREEMAIN - BUFFLST
	.... .1.		TCTEFLLC	FREEMAIN - LUC control blocks
	.... .1.		TCTEFNL	FREEMAIN - EXTR'D LOGON data
	.... .1		TCTEFRS	FREEMAIN - RPL specific
(1D4)	BIT(8)	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
(1D5)	BIT(8)	1	TCTERSRR	Byte 7 storage allocation
	11... ..		TCTERCMO	CONTINUE mode
	...1 1...		*	
	.... .1..		TCTERUB	Reject RU until BB

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
	.... .11		TCTERMOD	RECEIVE mode
SYSTEM SERVICE QUEUE FLAG				
(1D6)	BIT(8)	1	TCTEISSQ	Byte storage allocation
	1...		TCTESNQ	System error queue
	.1.		*	Reserved
	.1.		*	Reserved
	...1		TCTEOPQ	On Activate Process Queue
	.... 1..		*	
	.... .1.		*	
	.... .1.		*	
	.... ..1		*	
	.... ...1		*	
EMW REQUEST AND STATUS FLAGS				
(1D7)	BIT(8)	1	TCTEEMF	Byte Storage Allocation
	1...		TCTEPUR	PURGE request
	.1.		TCTESEM	SEND MESSAGE request
	.1.		TCTESNR	SEND NEGATIVE response
	...1		*	
	.... 1..		*	
	.... .1.		*	
	.... .1.		TCTEEMW	Error message writer active
	.... ..1		*	
	.... ...1		*	
RECEIVE flags				
(1D8)	BIT(8)	1	*	Byte storage allocation
	1...		TCTERVV	RECEIVE a response
	.1.		TCTERVD	RECEIVE data
	.1.		TCTERBP	BID PURGE in progress
	...1		TCTERRU	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
(1D9)	BIT(8)	1	TCTEIXRP	XRF Flags
	1...		TCTEXNR	XRF Term not Recovered
	.1.		TCTEXRM	XRF Recovery Msg reqd
	.1.		TCTEXRT	XRF Recovery Tranact reqd
	...1		TCTEXPT	XRF Purge task
	.... 1111		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
	.... ...1			
ASYNCH REQUEST FLAGS for use BY ZSDA /ZSAX only				
(1DA)	BIT(8)	1	*	ASYNCHRONOUS request byte
	1...		*	
	.1.		*	
	.1.		TCTERSH	Request SHUTDOWN
	...1		TCTEESH	E-SIGNAL
	.... 1..		TCTETSBI	SBI SEND request
	.... .1.		TCTERLSQ	RELEASE QUIESCE
	.... .1.		TCTEQEOC	QUIESCE at end of chain
	.... ..1		TCTERSD	Request SHUTDOWN
(1DB)	BIT(8)	1	TCTELTEC	LOSTERM Error code
	.... ...1			
LRP REQUEST AND STATUS FLAGS				
(1DC)	BIT(8)	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
	.... ..1			
	.... ...1			
VTAM PROCESS STATUS OPERATION IN PROGRESS				
(1DD)	BIT(8)	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
(1DE)	BIT(8)	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		TCTERVV	RECEIVE PURGE required
	.... ...1			

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
NODE SESSION STATUS				
(1DF)	BIT(8)	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		TCTESHQ	SHUTDOWN sent by CICS
	.... ...1		TCTERELR	RELEASE request received
(1E0)	BIT(8)	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				
(1E1)	BIT(8)	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				
(1E2)	BIT(8)	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)
(1E3)	BIT(8)	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		TCTESE0	EXCEPTION response outstanding
	.... ...1		TCTECDV	CHANGE DIRECTION save TIOA
BRACKET PROTOCOL STATUS				
(1E4)	BIT(8)	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				
(1E5)	BIT(8)	1	*	
	1..		TCTERTP	RTR pending state
	.1.		TCTEBRT	BID TO BE RETRIED indicator
	..1		TCTEBRP	BIDDING in progress
	...1		TCTEBRS	REBID if necessary
	.... 1..		TCTETBR	TERMINATE BRACKET
	.... .1.		TCTEEBM	END BRACKET memory flag
	.... ..1		TCTEEBR	EB received
	.... ...1		TCTEBEB	BB EB received state
ZRAC flag byte				
(1E6)	BIT(8)	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.		TCTERA0	ZRAC to EXECUTE
	.... ..1		TCTERAN	ZRAC possibly to RUN
	.... ...1		TCTESKI	ZRAC to SKIP
TRANSMISSION PROTOCOL STATUS				
(1E7)	BIT(8)	1	TCTEVTP	Byte storage allocation

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
	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
	.... ...1		TCTECPG	CHAIN PURGED indicator
CLSDEST STATUS				
(1E8)	BIT(8)	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
	.... ...1		TCTEBISR	BIS received
SEND RESPONSE TO COMMAND REQUEST				
(1E9)	BIT(8)	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				
(1EA)	BIT(8)	1	TCTEUSRS	CONVERSATION state machine
(1EB)	BIT(8)	1	TCTEBKTS	BRACKET state machine
(1EC)	BIT(8)	1	TCTECNTS	CONTENTION state machine
(1ED)	BIT(8)	1	TCTECHSS	CHAIN state machine
(1EE)	BIT(8)	1	TCTEACC	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				
(1EF)	CHARACTER	1	TCTESSPL	SPL,LU_SVC byte DEF
	1...		*	
	.1.		TCTESP2	--- all
	.1.		TCTESP1	--- commit
	...1		TCTERS1	--- restart supported
	.... 1...		*	SECONDARY REINIT
	.... .1.		*	PRIMARY REINIT
	.... .1.		TCTEPAR	PARALLEL SESSION
	.... ...1		TCTECNO	CNOS supported
(1F0)	BIT(8)	1	TCTEL62A	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
	.... ...1		*	
TCTE_TRACE_5_LEN End of TCTTE trace area 5				
The next byte is used to save pending User SYNCPT INFO				
(1F1)	BIT(8)	1	TCTEUSR	TCTEUSRS pending info
(1F2)	UNSIGNED	1	TCTE_ZBAN_RESPONSE	Response for ZNAC msg
(1F3)	UNSIGNED	1	TCTE_ZBAN_REASON	Reason for ZNAC msg
(1F4)	ADDRESS	4	TCTTEMOD	-> Mode-entry
(1F4)	ADDRESS	4	TCTE_PREV_	
			APPC_SURROG	
				Next PS APPC surrog
(1F8)	ADDRESS	4	TCTE_ACQUIRE_DATA	Acquire userdata
(1FC)	ADDRESS	4	TCTEBIMG	-> BIND-image
(200)	BIT(8)	1	*	Reserved
XRF Flags				
(201)	BIT(8)	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

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
	.... .1		TCTEXNT	RecovNotify = Transaction
XRF Flags, gathered up from other areas				
(202)	BIT(8)	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				
(203)	BIT(8)	1	TCTE_ACQUIRE_ OPTIONS	Acquire options
	1..		TCTE_SIMLOG_RQD	SIMLOGON reques
	.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				
(204)	FULLWORD	4	*	Ensure alignment
(204)	BIT(8)	1	TCTETSPB	Terminal session pool byte
	1..		TCTEXSL	Standby LOGON pending
	.1.		TCTESPLI	Pool/session leader
	.1.		TCTETPSI	Session terminal indicator
	...1		TCTECL	
APAR PK05945				
Shortened description of TCTECL				
	.... 1..		TCTEPTI	CLSDST cleanup ended
	.... .1.		TCTEXSN	Pool terminal indicator
(205)	BIT(8)	1	*	Standby session counted
	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
	.... .1.		TCTE_REM_EOD	Remember no EOD sup't
	.... ...1		TCTE_REM_FRI	Remember No FMH req'd
(206)	BIT(8)	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
(207)	BIT(8)	1	*	Session function definition
	1..		TCTECSRI	COLD START request indicator
	.1.		TCTE EOD	No EOD support indicator
	.1.		TCTENOCI	No output chain support IND
	...1		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
(208)	BIT(8)	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
(209)	BIT(8)	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
(20A)	CHARACTER	2	TCTEINSH	.
(20A)	BIT(8)	1	TCTESD4	Byte Storage Allocation
	1..		TCTENDT	No SDT supported
	.1.		TCTENSH	No SHUTD support
	.1.		TCTEQRS	QRI response supported

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
	...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
(20B)	BIT(8)	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
(20C)	BIT(8)	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)
(20D)	BIT(8)	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
(20E)	BIT(8)	1	TCTECACT	In transmission
(20F)	BIT(8)	1	TCTECLIM	Transmission
(210)	ADDRESS	4	TCTESPPA	Session pool address
(210)	ADDRESS	4	TCTETPPA	Terminal pool address
VTAM 3270 CONTROL INFORMATION				
(214)	BIT(8)	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.				
(215)	BIT(8)	1	*	Handling own errors
	1...		TCTEHOR	BMS input passthrough
	.1..		TCTEWPD	EDS FMH received
	.1.		TCTERED	Awaiting receipt of FMH 12
	...1		TCTEF12	LOGON with OPNDST active
	.... 1...		TCTEDLG	Send buffer is a TIOA
	.... .1..		TCTETIA	BIND received
	.... .1.		TCTEBIR	UNBIND received
	.... ...1		TCTEUBR	
Persistent Sessions State machine - see constants for values				
(216)	BIT(8)	1	TCTE_PRSS	Persistent Sessions State
Generic resource flags				
(217)	BIT(8)	1	TCTE_GR_FLAGS	Generic Resource flags
	1...		TCTE_GR_LOGGEDON_BY_MEMBERNAME	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				
(218)	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.				
(218)	CHARACTER	8	TCTTENNM	Netname Copy
(220)	CHARACTER	8	TCTTETIM	STCK logon time
(228)	ADDRESS	4	TCTEBFLA	VTAM buffer list address
(22C)	ADDRESS	4	TCTE_PRSS_CV29_PTR	Last PRSS flows etc
(230)	ADDRESS	4	TCTELUCX	A(TCTTE LUC Extension)
(230)	CHARACTER	0	TCTEPIPE	PIPELINE overlay
(234)	CHARACTER	0	TCTESESS	Session overlay
VTAM 3270 SYSTEM AREA EXISTS only for VTAM 3270 and 3270 COMPATIBILITY mode				
(234)	CHARACTER	4	TCTEPTO	PRINTTO name
(238)	CHARACTER	4	TCTEAPT	ALTPRT name

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
(23C)	ADDRESS	4	TCTEFRM	Source-terminal address for copy
PRINTER and Alternate Printer Netnames for VTAM 3270				
(240)	CHARACTER	8	TCTEPNET	Printer Netname
(248)	CHARACTER	8	TCTEANET	Alternate Printer Netname
Length of ZC Terminals				
(250)	CHARACTER	0	TCTEGET1	Length for ZC terminals
(250)	CHARACTER	0	TCTEGET2	Length for ZC terminals

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
(148)	STRUCTURE	31	CR_COMMON	
(148)	STRUCTURE	31	*	
	IsA(RMC_SHARED)			
(148)	STRUCTURE	20	*	
	IsA(RMC_COMMON)			
(148)	STRUCTURE	10	*	
	IsA(DFHCRESI_STATE)			

This is the token returned by ADD_LINK, and represents &rm.'s link state. It is supplied to &rm. on subsequent calls.

(148)	BIT(32)	4	CR_CURRENT_LINK
-------	---------	---	-----------------

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).

Also, there is a flag to indicate that the session is a 'dummy', in the sense that a DFHRMLNM ADD_LINK has not been issued for the session. This happens for MRO sessions which are used to perform bind processing (DFHCRR). Bind sessions do not need recovery manager actions, and do not participate in syncpoint (even in failure situations). There can be many concurrent bind sessions at start of day, and if we were to issue ADD_LINKs for all of them, then RM could be swamped.

(14C)	BIT(32)	4	CR_PENDING_LINK
(150)	1... ..		CR_FORGET_NEEDED
	.1... ..		CR_DUMMY_LINK
	..11 1111		*

The PENDING mechanism for adding/setting links is managed by a new piece of state, CR_PEND_RECOVERY_STATUS, associated with the session.

(151)	UNSIGNED	1	CR_PEND_RECOVERY_STATUS
(152)	STRUCTURE	9	*
	IsA(RMC_COMMON_LOGNAME)		
(152)	CHARACTER	9	CR_LOGNAME
(152)	UNSIGNED	1	CR_LOGNAME_LEN
(153)	CHARACTER	8	CR_LOGNAME_DATA
(15B)	STRUCTURE	1	*
	IsA(REMEMBERED_STATE)		
	1... ..		CR_2PC_SESS_FAIL
			sess fail sending Prepare|SPR
	.1... ..		CR_SHUNT_RECEIVED
	..1... ..		CR_ABORT_RECEIVED
	...1... ..		CR_ABORT_FORBIDDEN
(15C)	STRUCTURE	9	*
	IsA(RMC_SHARED_IRC61)		

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
(15C)	STRUCTURE IsA(SEQUENCE_NUMBERS)	9	*	
(15C)	CHARACTER	8	CR_SEQ_NOS	
(15C)	CHARACTER	4	CR_BACKOUT_ SEQ_NOS	
(15C)	HALFWORD	2	CR_BACKOUT_ SEQ_INPUT	
(15E)	HALFWORD	2	CR_BACKOUT_ SEQ_OUTPUT	
(160)	CHARACTER	4	CR_COMMIT_ SEQ_NOS	
(160)	HALFWORD	2	CR_COMMIT_ SEQ_INPUT	
(162)	HALFWORD	2	CR_COMMIT_ SEQ_OUTPUT	
(164)	11..		CR_UOW_DISPOSITION	NOTE - MUST be 1st 2 bits of byte for ASM
(165)	STRUCTURE IsA(RMC_SHARED_IRC62)	2	*	
(165)	STRUCTURE IsA(RESYNC_TYPE)	1	*	
	11..		CR_RESYNC_TYPE	What resync type is partner?
(166)	STRUCTURE IsA(RECOVERY_PROTOCOL)	1	*	
	1...		CR_PROTOCOL	
Offset Hex	Type	Len	Name (Dim)	Description
(168)	STRUCTURE	1	CR_LU62	
(168)	STRUCTURE IsA(RMC_LU62_SPECIFIC)	1	*	
(168)	STRUCTURE IsA(PA_RELIABILITY)	1	*	
	1...		CR_RELIABILITY_VOTE	Determined by inbound. rqc
Offset Hex	Type	Len	Name (Dim)	Description
(168)	STRUCTURE	2	CR_LU61	
(168)	STRUCTURE IsA(RMC_LU61_SPECIFIC)	2	*	
(168)	STRUCTURE IsA(LU61_SYNCPOINT_CONTROL)	1	*	
	1...		CR_LU61_ INBOUND_PREPARE	
	.1..		CR_LU61_ INBOUND_SPR	
(169)	STRUCTURE IsA(LU61_RESYNC_CONTROL)	1	*	
	1...		CR_LU61_ RESYNC_REQUIRED	
	.1..		CR_LU61_ PARTNER_COLD	
	..1.		CR_LU61_ RESYNC_DONE	
	...1		CR_LU61_ STSN_EXPECTED	
Offset Hex	Type	Len	Name (Dim)	Description
(168)	STRUCTURE	6	CR_IRC	
(168)	STRUCTURE IsA(RMC_IRC_SPECIFIC)	6	*	
(168)	STRUCTURE IsA(IRC_BIND_STATE)	1	*	
	111.		CR_BIND_LEG_NUM	Which conversation leg is it? NOTE- leg num must be first 3 bits of byte
	...1		CR_BIND_LOGGING	Is bind logging done yet?
(169)	STRUCTURE IsA(IRC_CONV_CORRELATOR)	5	*	
(169)	UNSIGNED	1	CR_CONV_ CORRELATOR_LEN	
(16A)	CHARACTER	4	CR_CONV_ CORRELATOR	

PIPELINE POOL ENTRIES (TCTEPTI) OVERLAY

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
(230)	STRUCTURE	12	*	Pipeline specific data
(230)	ADDRESS	4	TCTEPLCH	Pipeline pool chain if leader * and 3650 pipeline Session
(234)	CHARACTER	0	TCTEGET9	Length of pipeline term
(234)	CHARACTER	8	TCTEPLID	Poolid if pool-entry leader *
(234)	ADDRESS	4	TCTEPLLP	-> Pool-entry leader
(238)	FULLWORD	4	TCTEPLI	pool entry id for catlog
(23C)	CHARACTER	0	TCTEGET8	L(pipeline pool chain)
(23C)	CHARACTER	0	TCTEGET7	Length for pipeline pool

Session Overlay Area (non-pipeline)

Offset Hex	Type	Len	Name (Dim)	Description
(234)	STRUCTURE	4	*	session data
(234)	ADDRESS	4	TCTEPREV	Previous TCTTE
(238)	CHARACTER	0	TCTEGET3	Length for LUC Session

IRC Overlay area

Offset Hex	Type	Len	Name (Dim)	Description
(180)	STRUCTURE	110	*	OVERLAY access method-specific IRC Overlay area
(180)	CHARACTER	3	TCTESRHI	INBOUND request header
(180)	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
(181)	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
(182)	CHARACTER	1	TCTESRI3	M-M BRACKET byte
	1... ..		TCTESBBI	BEGIN BRACKET indicator
	.1.. ..		TCTESEBI	END BRACKET indicator
	..1.		TCTESCDI	CHANGE DIRECTION indicator
(183)	CHARACTER	3	TCTESRHO	OUTBOUND request header
(183)	CHARACTER	1	TCTESRO1	1st byte. Bits as TCTESRI1
(184)	CHARACTER	1	TCTESRO2	2ND byte. Bits as TCTESRI2
(185)	CHARACTER	1	TCTESRO3	3RD byte. Bits as TCTESRI3
(186)	HALFWORD	2	*	Reserved
(188)	BIT(8)	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
(189)	BIT(8)	1	*	Misc. IRC flags
	1... ..		TCTE_USE_MRO_BITMAP	Session name in BITMAP
(18A)	BIT(8)	1	TCTESBRS	BRACKET status byte
(18B)	BIT(8)	1	*	Reserved
(18C)	CHARACTER	4	TCTE_SERVICE_REPORTING_CLASS	
				Workload manager monitoring field
(190)	FULLWORD	4	TCTETHNO	THREAD NO. for IRC SVC
(194)	FULLWORD	4	TCTETHID	THREAD ID for IRC SVC
(198)	ADDRESS	4	TCTESCCB	Address of SCCB for THREAD
(19C)	CHARACTER	4	TCTEIRDA	data for switch
(19C)	ADDRESS	4	TCTEIRRA	Address of RH
(1A0)	FULLWORD	4	TCTEIRRL	Length of RH
(1A4)	ADDRESS	4	TCTEIRTA	Address of LU6.2 FMH
(1A8)	FULLWORD	4	TCTEIRTL	Length of LU6.2 FMH
(1AC)	ADDRESS	4	TCTEIRFA	Address of FMH
(1B0)	FULLWORD	4	TCTEIRFL	Length of FMH
(1B4)	FULLWORD	4	TCTEIRTT	OTHER-system LEVEL-indicator *
(1B8)	CHARACTER	4	TCTEIRFS	Flags bytes
(1B8)	BIT(8)	1	TCTEIRF1	Flag byte one
	1... ..		TCTEIRGI	GET DATA ALREADY issued
	.1.. ..		TCTEIRSR	SESSION RECOVERY performed

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
	.1.		TCTEIRWL	Have issued write last
	...1		TCTEIRJL	JUST allocated
	.... 1...		TCTEIRCO	Control on other side
	.... .1..		TCTEIRDP	Data to be processed
	.... .1..		TCTEIRUT	Tell IOR to use TIOA
	.... ...1		TCTEIRAO	AVAIL outstanding
(1B9)	BIT(8)	1	TCTEIRF2	Flag byte two
	1...		TCTEIRCD	CD on this side
	.1.		TCTEIRXM	CROSS-MEMORY in use
	.1.		TCTEIRAA	CRNP ATTACH SEC check failed *
	...1		TCTEIRDL	WRITE LAST issued but EB deferred *
	.... 1...		TCTERRSS	Transactional EXCI suppt
	.... .1..		TCTETXBK	Texci backout if abend
(1BA)	CHARACTER	2	*	Reserved
(1BC)	ADDRESS	4	TCTEURAD	MVS UR address
(1C0)	BIT(8)	1	TCTEIRST	BIN status
	1...		*	Reserved
	.1.		TCTEIRBN	EXCI session
	.1.		*	RESERVED for TRANS. EXCI
	...1		TCTE_UR_INIT_NEEDED	UR client INIT needed
	.... 1...		TCTE_UR_BIND_NEEDED	UR client BIND needed
(1C1)	CHARACTER	0	TCTEGET4	Length for IRC Conv.
LUWID, in the FORM of LL00ID (for possible WTO)				
(1C1)	CHARACTER	1	*	Reserved
(1C2)	HALFWORD	2	TCOTESLWN	LTH of LUW ID + 4
(1C4)	HALFWORD	2	TCOTESL00	ZEROS
(1C6)	CHARACTER	35	TCOTESLWD	LUWID
(1E9)	CHARACTER	5	TCOTEDLAB	DL/I ABEND code
(1EE)	CHARACTER	0	TCOTEGT5	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	272	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).
(15)	CHARACTER	1	TCSELUC	LUC flag byte
(15)	BIT(8)	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		TCSESNG	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	TCSESNM	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

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
Access Method VALUES SAME as for TCTTE field TCTEAMID				
(30)	BIT(8)	1	TCSACCM	Access Method flags
(31)	BIT(8)	1	TCSEDSP	DATA-STREAM
(32)	BIT(8)	1	TCSEDBA	De-blocking algorithm
(33)	BIT(8)	1	TCSEL_AI	APPC autoinstall flags
	1... ..		TCSETRAN	Transient system
	.1.. ..		TCSE_CLONE	Cloned system
	..1.		TCSE_CATLG_NO	AI not catalogued
	...1		TCSE_IMPLICIT_DELETE	AI delete
	.... 1...		TCSE_DELETE_ AT_RESTART	AI delete after EMER
	.... .1..		TCSE_DELETE_ SCHEDULED	AI DFHIC CATD sched
	.... ..1.		TCSE_DELETE_STARTED	AI DFHZATD started
	.... ...1		TCSE_DELETE_ AND_LOGON	AI BIND during delete Reserved
(34)	CHARACTER	16	*	Reserved
SYSTEM ENTRY - VTAM SPECIFIC CURRENT STATISTICS				
(44)	HALFWORD	2	TCSEALL	Number of AID'S in CHAIN
(46)	HALFWORD	2	TCSESALL	Number of non-specific AID
(48)	HALFWORD	2	TCSEBID	Number of BIDS in progress
(4A)	HALFWORD	2	TCSE2RY	Secondaries currently used
(4C)	UNSIGNED	2	TCSERTK	RTT entry number.
HIGH WATER MARKS				
(4E)	HALFWORD	2	TCSESTAM	Maximum number of allocates outstanding
(50)	HALFWORD	2	TCSE2HWM	Secondaries used
(52)	HALFWORD	2	TCSEBHWM	Maximum number of BIDS
ACCUMULATORS				
(54)	FULLWORD	4	TCSES2	ATI'S SAT. by secondaries
(58)	FULLWORD	4	TCSES1	ATI'S SAT. by primaries
(5C)	FULLWORD	4	TCSESBID	Number of BIDS sent
ISC LINK STATISTICS				
(60)	FULLWORD	4	TCSESTAS	Number of allocates for LINK
(64)	FULLWORD	4	TCSESTAQ	Number of allocates QUEUED
(68)	FULLWORD	4	TCSESTAF	Allocates failing - LINK SHUT
(6C)	FULLWORD	4	TCSESTAO	Allocates failing - OTHER
(70)	FULLWORD	4	TCSESTFC	Number of FC requests
(74)	FULLWORD	4	TCSESTIC	Number of IC requests
(78)	FULLWORD	4	TCSESTTD	Number of TD requests
(7C)	FULLWORD	4	TCSESTTS	Number of TS requests
(80)	FULLWORD	4	TCSESTDL	Number of DL/1 requests
(84)	FULLWORD	4	TCSESTTC	Number of TERM SHR REQS
(88)	HALFWORD	2	TCSEMXT	Allocate queue time
(8A)	HALFWORD	2	TCSEQPCT	MAXQTIME queue purge count *
(8C)	HALFWORD	2	TCSEMQPC	MAXQTIME alloc.s purged
(8E)	CHARACTER	2	*	Reserved
(90)	FULLWORD	4	TCSEZQRJ	XZIQUE rejects
(94)	HALFWORD	2	TCSEZQPU	XZIQUE purge conn count
(96)	HALFWORD	2	TCSEZQPC	XZIQUE allocs.s purged
Generic Resource Flags				
(98)	BIT(8)	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_ OUR_MEMBER_NAME	Partner used our member name
	...1		TCSE_MSG179_ISSUED	ZC0179 Msg Issued
	.... 1...		TCSE_CATLG_DONE	Defined connection with affinity is catalogued
	.... .1..		TCSE_MSG177_ISSUED	Msg ZC0177 issued
	.... ..1.		TCSE_RUN_ZGCH	Affinity has to be ended
(99)	BIT(8)	1	TCSE_MISC	Miscellaneous
	1... ..		TCSESSRE	Shunt received since restart
	.1.. ..		TCSE_SD_ HANG_REPORTED	on if ZC2352 written
	..1.		TCSEUDU	Use default user
	...1		TCSE_CNOS_SHUT	CNOS shutdown processed
	.... 1...		TCSE_CNOS2	CNOS inst 2 processed
(9A)	HALFWORD	2	TCSE1RY	Primaries currently used
(9C)	HALFWORD	2	TCSE1HWM	Peak number of Primaries used
(9E)	HALFWORD	2	TCSEARC8	Allocates after RC8 XZIQUE
(A0)	ADDRESS	4	TCSENEXT	Address of next TCTSE
(A4)	CHARACTER	5	*	

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
(A4)	UNSIGNED	2	TCSENQCT	ENQ count for task
(A6)	CHARACTER	3	TCSENQTI	Task id of ENQ holder
(A9)	BIT(8)	1	TCSEDII	DYNAMIC INSTALL inds
	1... ..		TCSEDAP	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
(AA)	CHARACTER	2	TCSEINUC	(Packed) Indirect system count
(AC)	ADDRESS	4	TCSE_REMDEL_ CHAIN	Address next REMDEL system@QWA
(AC)	ADDRESS	4	TCSESKA	Skeleton address
(B0)	UNSIGNED	2	TCSESRTK	Saved RTT entry number e.g. for APPC terminals
(B2)	BIT(8)	1	TCSEDII2	DYNAMIC INSTALL inds
	1... ..		TCSERDLR	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
(B3)	CHARACTER	1	TCSEDII3	
	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
(B4)	HALFWORD	2	TCSEALIM	CEDA allocate queue limit
(B6)	HALFWORD	2	TCSEACNT	Queued Allocates processed
(B8)	CHARACTER	8	TCSEAQTS	Time alloc Queue began
(C0)	CHARACTER	4	TCSETAQ	Number of allocates queued
(C4)	CHARACTER	4	TCSEALRJ	QLIMIT alloc.s rejected
(C8)	FULLWORD	4	TCSESTPC	Number of PC requests
(CC)	CHARACTER	2	TCSE_SUPPORTS_	
			FUNCTION	
				Function string
(CC)	BIT(8)	1	TCSE_SUPPORTS_ FLG1	Flag1
	1... ..		TCSE_ROUTABLE_	
			START	Routable START
	.1.. ..		TCSE_REQUESTSTREAMS	Requeststreams
(CD)	BIT(8)	1	TCSE_SUPPORTS_ FLG2	Flag2
(CE)	CHARACTER	2	TCSE_RESERVED	Reserved
(D0)	CHARACTER	8	TCSE_LINK_ CHAN_SENT	LINK CHANNEL bytes sent
(D8)	CHARACTER	8	TCSE_LINK_ CHAN_RCVD	LINK CHANNEL bytes rcvd
(E0)	CHARACTER	8	TCSE_STRT_ CHAN_SENT	START CHANNEL bytes sent@L6A
(E8)	CHARACTER	8	TCSE_STRT_ CHAN_RCVD	START CHANNEL bytes rcvd@L6A
(F0)	CHARACTER	8	TCSE_TSHR_ CHAN_SENT	Number of bytes of terminal sharing channels sent
(F8)	CHARACTER	8	TCSE_TSHR_ CHAN_RCVD	Number of bytes of terminal sharing channels rcvd
(100)	FULLWORD	4	TCSE_LINK_CHAN	Number of LINK CHANNEL
(104)	FULLWORD	4	TCSE_STRT_CHAN	Number of START CHANNEL
(108)	FULLWORD	4	TCSE_TSHR_CHAN	Number of terminal sharing channel requests
(10C)	FULLWORD	4	TCSE_RSVD2	Reserved
(110)	CHARACTER	0	TCSECOMN	End of common part
(110)	CHARACTER	0	TCSEGET1	Length for ZC Install

SYSTEM ENTRY - LU 6.1 and LU6.2

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
(110)	STRUCTURE	92	*	
(110)	CHARACTER	8	*	Reserved
(118)	CHARACTER	8	TCSEX62N	XRF specific name or
(118)	CHARACTER	8	TCSEX61N	GR name or member name
(120)	BIT(8)	1	*	
	1... ..		TCSEPSF	PSH flag bytes supported
	.1.. ..		TCSEWRS	No sessions bound. Scan for resync at next contact *
	..1.		TCSEXLD	EXCHANGE LOGNAME done
	...1		TCSEPR	Presumed Abort support
	.... 1...		TCSE_LR	Limited Resource
	.... .1..		TCSEANB	ACQ but No Bound sessions
	.... .1..		TCSE_PRSS_RECOV	Per. Sess. Recovery rqd
	.... ...1		TCSE_XLN_COLD	Hot/Cold XLN failure
(121)	UNSIGNED	1	TCSE_VTAM_MISC	Miscellaneous flag
	1... ..		TCSE_ALIAS_IN_USE	VTAM Aliasing
	.1..		TCSE_DIFF_NETWORK	Alias from diff netid
	..1.		TCSE_POSS_	
			INVAL_ALIAS	
				May need deleting
(122)	BIT(8)	1	*	LU6.2 Security flag
	1... ..		TCSEPNAR	Partner SPM not active
	.1..		TCSE_PRSS_REC_ACT	Track pers. resources
	..1.		TCSE_PRSS_REL_CONN	
				Release connection
	...1		TCSE_CLPEND	XLNaction race control
	.... 1...		TCSEFBN	Sessions already bound
	.... .1..		TCSEBTCH	Batched Resync support
	.... .1..		TCSECAL	CONNECT=ALL
	.... ...1		TCSEBSY	BINDSECURITY keyword used
<p>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:</p> <pre> :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 </pre>				
(123)	BIT(8)	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
	.... ..11		*	Reserved
<p>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.</p>				
(124)	CHARACTER	12	TCSEUTA	Userid Table Area
(124)	ADDRESS	4	TCSELUIT	Ptr to Local Userid Table.Copy of LOCAL_USERID_TABLE_AREA
(128)	CHARACTER	4	TCSESYSI	SYSID
(12C)	BIT(8)	1	TCSELFLG	LUIT Global Flags
	1... ..		TCSETOIP	Time Out In Progress flag
	..11 1111		*	Reserved
(12D)	CHARACTER	3	*	Reserved for ZCUT
OTHER TCSE FIELDS.....				
(130)	BIT(8)	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	
			TCSE_PRSS_	
			WAS_SHUTTING	
	.... .111		*	Unbind all
				Reserved
(131)	BIT(24)	3	*	Reserved for alignment
(134)	UNSIGNED	4	TCSE_PRA	Persistent Resource count
(138)	CHARACTER	8	TCSE_AI_CREATE_TIME	Autoinstall GMT time
(140)	ADDRESS	4	TCSE_DISTINGUISHED_	
			NAME_PTR	
				Unique name
(144)	CHARACTER	8	TCSE_TITOKEN	token for remote delete
(14C)	HALFWORD	2	TCSE_APPC_CONV	Active conversations
(14E)	BIT(8)	1	TCSEL_CC_FLAG	CICS client flag byte
	1... ..		TCSECCIN	CCIN has been run
	..11 1111		*	Reserved
(14F)	UNSIGNED	1	TCSEXLNC	XLN retry counter
(150)	ADDRESS	4	TCSE_CCINDATA_ PTR	PTR CICS client data

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
(154)	ADDRESS	4	TCSE_LU61_CHAIN	Next LU61 system
(158)	BIT(8)	1	TCSE_CQP_FLAGS	Flags for Connection Quiesce protocol
	1... ..		TCSE_CQP_SUPPORTED	CQP supported
	.1.. ..		TCSE_ENDAFFIN_REQD	CQP requested ENDAFFIN
	..1.		TCSE_CQPI_COMPLETE	Inbound CQP complete
	...1		TCSE_CQPO_ATTACHED	Outbound CQP attached
	.... 1...		TCSE_CQP_COMPLETE	CQP has completed
	.... .1..		TCSE_CQP_FAILED	CQP has failed
	.... ..11		*	reserved
(159)	CHARACTER	3	*	reserved for alignment
(15C)	CHARACTER	8	TCSE_NETID	Network identifier
(164)	CHARACTER	8	TCSE_REAL_NETNAME	NQN netname
(16C)	CHARACTER	0	TCSEGET6	Length of LU6.1 tcse
(16C)	CHARACTER	0	TCSEGET4	Length for ZC Install

SYSTEM ENTRY - M-M SPECIFIC

Offset Hex	Type	Len	Name (Dim)	Description
(110)	STRUCTURE	4	*	
(110)	HALFWORD	2	TCSESECN	No of secondaries sessions *
(112)	HALFWORD	2	TCSEPRMN	No of primaries sessions

Offset Hex	Type	Len	Name (Dim)	Description
(110)	STRUCTURE	20	*	
(110)	CHARACTER	4	*	Leave room for previous two *
(114)	ADDRESS	4	TCSEIRCH	Chain of IRC system entries *
(114)	ADDRESS	4	TCSE_MRO_CHAIN	Alternative name for IRCH
(118)	BIT(8)	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		TCSEIAID	We need USERSEC=IDENTIFY
(119)	BIT(8)	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
(11A)	CHARACTER	8	TCSESTOD	Latest CONNECT timestamp
(122)	CHARACTER	2	*	Reserved
(124)	CHARACTER	0	TCSEGET3	Length for ZC Install

SYSTEM ENTRY - INDIRECT ROUTE

Offset Hex	Type	Len	Name (Dim)	Description
(110)	STRUCTURE	8	*	
(110)	ADDRESS	4	TCSEINDA	Address of another system entry, on route to remote region.
(114)	CHARACTER	4	TCSEINDN	Name of other system *
(118)	CHARACTER	0	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

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
(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 ATI'S SAT by WINNERS
(44)	FULLWORD	4	TCMES1	LUC ATI'S 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)	BIT(8)	1	TCMECOM	Flags for comms failures
	1... ..		TCMENWF	Network failure
(65)	BIT(8)	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 -IN SERVICE
	.... .1..		TCMEPNLG	Pending CREATESESS.
	.... ...1		TCMEPNAA	Pending AUTOCONNECT all
(66)	BIT(8)	1	TCMEDII2	DYNAMIC INSTALL indicators
	1... ..		*	RESERVED
	.1.		TCMEUIP	Update in place
	..11 1111		*	RESERVED
(67)	CHARACTER	1	*	TCME - Reserved
(68)	HALFWORD	2	TCMEPMA	Potential LOCAL_MAX_ALLOW
(6A)	HALFWORD	2	TCMEPMCO	Potential MAX_CON_WINNERS
(6C)	ADDRESS	4	TCMEDPGR	Address of MACRO version
(70)	BIT(8)	1	TCMEIFG1	Flags - 1
	1... ..		TCMELSM	LU SERVICES MANAGER TCTME
	.1.		TCMETDY	TCPLR TIDYUP to run?
	.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)	BIT(8)	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
	.... 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	0	TCMEGET	Length for ZC Install

DESCRIPTIVE NAME = TCTTE BMS Extension

TCTTE

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)	BIT(8)	1	*	Reserved
(2)	CHARACTER	3	TCTTEOCL	Operator class code
(5)	BIT(16)	2	TCTTETFS	Terminal features
(5)	BIT(8)	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)	BIT(8)	1	*	
	1... ..		TCTTELDL	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)	BIT(8)	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	0	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)	BIT(8)	1	TCTTEQSL	Printer RSL
(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)	BIT(8)	1	*	Spooling flag byte
	1... ..		TCTTEQPM	No printed messages *
(18)	CHARACTER	4	*	Reserved *
(1C)	CHARACTER	0	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

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
(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)	BIT(8)	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..		TCTECCR2	DR2 to be sent
	.... .1.		TCTECCR1	DR1 to be sent
	.... ...1		TCTESDR	Remember DR1 RQD
(2)	BIT(8)	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)	BIT(8)	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	TCTECLL	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				
(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)	BIT(8)	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_	
	.... 1...		REJ_ATTACH	Reject attach flag
	.... .1..		TCTE_PRSS_	
	.... ...1		REM_SCHED	Remote schedule flag
	.... 1...		TCTENRI	Not Receive Immediate
	.... .1..		TCTE_FLOW_ FORGET	Forget flow required
	.... ..11		*	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

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
(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	TCTEPCLK	Previous TOD clock bits for LU62 bind
(AC)	ADDRESS	4	TCTERPLB	Second RPL
(B0)	FULLWORD	4	TCTEMINL	Minimum ll to receive
(B4)	BIT(8)	1	TCTEVOP3	Operation in progress
	1... ..		TCTERIP	Receive in progress
(B5)	BIT(8)	1	TCTERPBS	LU62 RPL_B state machine
(B6)	BIT(8)	1	TCTE_BID_STATUS	Persistent Sessions status for LU62 recovery
(B7)	BIT(8)	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	0	TCTTELCE	End of LUC extension

DESCRIPTIVE NAME = TCTTE NIB Descriptor Extension

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	116	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
(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)	BIT(8)	1	*	
	1... ..		TCTEPSSES	And its value
	.1. . . .		TCTENBLE	NEG BIND specified
	.1. . . .		TCTENBLR	NEGOTIABLE response required
	...1 . . .		TCTETNNB	TRY not NEG BIND
	... 1..		TCTE_ALIAS_IN_USE	VTAM Alias found
	.... .1..		TCTE_DIFF_NETWORK	Alias from diff network

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
.... ..1.			TCTE_POSS_ INVAL_ALIAS	
(41)	BIT(8)	1	TCTEERP	May need deleting
(42)	CHARACTER	16	TCTESQP	Error processing REASONCODE
(42)	CHARACTER	1	TCTESQPL	Session QUALIFIER PAIR
(43)	BIT(8)	1	*	Length of SQP field
				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 TCTESSQ is calculated as the
 Address of TCTEPSQ + the CONTENTS of TCTEPSQ.
 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)	BIT(8)	1	*	Length of PASSWORD ('X'00')
(53)	BIT(8)	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)	CHARACTER	8	TCTE_NETID	NQN NETID if Alias pres.
(68)	CHARACTER	8	TCTE_REAL_ NETNAME	NQN NETNAME if Alias pres.@DOA
(70)	FULLWORD	4	TCTENIBE	End of NIB DESCRIPTOR

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	TCTEPSQR	PSQ record based on TCTEPSQS
(0)	BIT(8)	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 PSQ
(0)	BIT(8)	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	*	TCTEDMWE	Logon work element
(0)	ADDRESS	4	TCTEDMCH	Chain field to next WE
(4)	BIT(8)	1	TCTEDMER	Error type byte 1
1... ..			TCTEDMCL	CLSDST failed - logon exit
..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)	BIT(8)	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

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
(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
(28)	CHARACTER	8	TCTE_DUMMY_NETID	For DFHZC2411
(30)	CHARACTER	8	TCTE_DUMMY_REAL_NETNAME	For DFHZC2411
(38)	FULLWORD	4	TCTE_DUMMY_TNADDR_LENGTH	For DFHZC2411
(3C)	CHARACTER	*	TCTE_DUMMY_TNADDR	For DFHZC2411 (256 max)

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	*	
			TCTSKSIF	System Entry is inflight
			TCTSKAIP	Aids in progress
			TCTSKNDL	Don't delete me
			TCTSKSHI	Definition shipped in
			TCTSKSAN	TCTSKSYS holds a name
			TCTSKINF	Skeleton is inflight
			TCTSKPSH	Definition is shippable
			TCTSKSHO	Definition shipped out
(6)	CHARACTER	1	*	
			TCTSKDDP	Delete started
			TCTSK_VIRTUAL_TERMINAL	
			TCTSK_VT_BITMAP_USED	CICS Client skel
			TCTSK_RT_BITMAP_USED	CICS assigned name
			TCTSKNDF	CICS assigned RT name
			TCTSK_VT_SO_CAPABLE	TCTSKNET was defaulted
			*	signon support for this virtual terminal
			*	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	

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
(38)	CHARACTER	8	TCTSK_TOR_GRNAME	NETNAME of terminal 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	TCTRSLN	Length of restart data
(C)	ADDRESS	4	TCTRSTUA	Address of TCTUA copy
(10)	ADDRESS	4	TCTRSFMH	Address of FMH5 copy
(14)	ADDRESS	4	TCTRSTIO	Address of TIOA copy
(18)	CHARACTER	0	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	
(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)	BIT(8)	1	TCSE_ENVIRON	
	1111 11..		*	
	.... ..1.		TCSE_EBCDIC	
	.... ...1		TCSE_BIGENDIAN	
(36)	BIT(16)	2	TCSE_CLIENT_CAPABILITIES	
(36)	BIT(8)	1	*	
	1...		TCSE_EXIT_PROCESSING	

TCTTE

Offset Hex	Type	Len	Name (Dim)	Description
.1..			TCSE_TRANSLATE_	
.1.			CAPABLE	
...1			TCSE_DELETE_	
.... 1111			ENTRIES	
			TCSE_TCTUA_	
			COMMAREA	
			*	
(37)	BIT(8)	1	*	
(38)	CHARACTER	10	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	

=====
 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	19	TCTE_CTINDATA	
(0)	CHARACTER	8	TCTE_CODEPAGE_ TOKEN	
(8)	CHARACTER	10	TCTE_CODEPAGE	
(12)	BIT(8)	1	TCTE_VT_ INDICATOR	
.1..			TCTE_VT_ UNINSTALL	VT being uninstalled
.111 1111			*	reserved

Constants

Len	Type	Value	Name	Description
TERMINAL TYPE CODES				
TCTTETT FIELD				
1	HEX	01	TCTTET77	7770
1	HEX	02	TCTTES7	System 7
1	HEX	08	TCTTECON	Console
1	HEX	12	TCTTETSD	SEQUENTIAL DISK
1	HEX	14	TCTTETMT	MAGNETIC TAPE
1	HEX	18	TCTTETCR	CARD READER/LINE printer
1	HEX	19	TCTTETSY	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	TCTTETV0	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

TCTTE

Len	Type	Value	Name	Description
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	80	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	TCTTEMGP	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 tesing 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
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_NOHING	
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	

TCTTE

Len	Type	Value	Name	Description
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_WIN_ALLOCATED	
1	DECIMAL	6	TCTE_BOUND_	
			CON_WIN_RTR_SENT	
1	DECIMAL	7	TCTE_BOUND_	
			CON_WIN_RTR_PEND	
1	DECIMAL	8	TCTE_BOUND_CON_LOSE	
1	DECIMAL	9	TCTE_BOUND_	
			CON_LOSE_ALLOCATED	
1	DECIMAL	10	TCTE_BOUND_	
			CON_LOSE_BIDDING	
1	DECIMAL	11	TCTE_BOUND_	
			CON_LOSE_BB_CROSSING	
1	DECIMAL	12	TCTE_BOUND_	
			CON_LOSE_RTR_PEND	
1	DECIMAL	13	TCTE_BOUND_	
			CON_LOSE_REBID_PEND	
1	DECIMAL	14	TCTE_BOUND_	
			CON_LOSE_AWAITING_	
			ACTIVITY	
1	DECIMAL	15	TCTE_BOUND_	
			CON_WIN_BID_ACCEPTED	
?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	

TCTTE

Len	Type	Value	Name	Description
Persistent Sessions State Constants for TCTE_PRSS				
1	HEX	00	TCTE_NO_PRSS_	
1	HEX	01	RECOVERY	
1	HEX	02	TCTE_NIB_MATCHED	
1	HEX	20	TCTE_OPNDST_	
1	HEX	21	RESTORE_COMPLETED	
1	HEX	30	TCTE_ZXRC_CLEANUP	
1	HEX	31	TCTE_ZXRC_	
1	HEX	32	ISSUE_RECOVERY_MSG	
1	HEX	33	TCTE_ZXPS_CLEANUP	
1	HEX	34	TCTE_ZXPS_	
1	HEX	41	DEALLOCATE_ABEND	
1	HEX	42	TCTE_ZXPS_	
1	HEX	43	SEND_IN_PROGRESS	
1	HEX	44	TCTE_ZXPS_	
1	HEX	45	ISSUE_RECOVERY_MSG	
1	HEX	FF	TCTE_ZXPS_	
1	HEX	FF	RECEIVE_IN_PROGRESS	
1	HEX	FF	TCTE_ZGDA_FMH7_SEND	
1	HEX	FF	TCTE_ZGDA_FMH7_COMP	
1	HEX	FF	TCTE_ZGDA_FMH7_REC	
1	HEX	FF	TCTE_ZGDA_	
1	HEX	FF	FMH7_REC_EOC	
1	HEX	FF	TCTE_ZGDA_RESP	
1	HEX	FF	TCTE_PRSS_	
1	HEX	FF	CLSDST_SCHEDULED	
1	HEX	FF	TCTE_CLSDST_	
1	HEX	FF	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
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	TCSEDS32	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_	
1	HEX	02	POSITIVE_RESPONSE	
1	HEX	03	TCTE_SEND_	
1	HEX	04	NEGATIVE_RESPONSE	
1	HEX	05	TCTE_SEND_RTR	
1	HEX	06	TCTE_SENT_RTR	
1	HEX	06	TCTE_SEND_LUSTAT_EB	
1	HEX	07	TCTE_AWAITING_	
1	HEX	07	BB_RESPONSE	
1	HEX	08	TCTE_SENT_	
1	HEX	08	POSITIVE_RESPONSE	
1	HEX	09	TCTE_0814_RECEIVED	
1	HEX	09	TCTE_0813_RECEIVED	

TCTWA

Len	Type	Value	Name	Description
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		TCTESPL0	--- NONE
1	DECIMAL	0	TCTESPL1	--- COMMIT
1	DECIMAL	1	TCTESPL2	--- all
1	DECIMAL	2	TCTEUNMP	"UNMAPPED"
1	HEX	00	TCTECV0	CONV. type not set
1	HEX	FF		
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
@BANNER_START 02
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5697-E93
@BANNER_END
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)	STRUCTURE	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	TCTXLPA	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
			TWATEPI	"X'40" Timer posted flag
			TWALSEI	"X'20" Local line scan indicator
(3D)	BITSTRING	1	TWACFLAG	Compatibility control flags
			TWACDSCI	"X'01" DAT scan complete indicator
			TWACWSI	"X'02" Wrapped screen indicator
			TWACSLI	"X'04" Shortline indicator
			TWACSSF1	"X'08" SMI character found indicator
			TWACWSIT	"X'10" Wrap screen pseudo ind tab
(3E)	HALFWORD	2	TWAC2260	Number of chars/line for 2260
(40)	HALFWORD	2	TWAC3270	Number of chars/line for 3270

TCTWA

Offset Hex	Type	Len	Name (Dim)	Description
(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 of bytes for erase
	.... 11..		TWACAL	**-TWAC2260" Compatible area length
(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..		MSGE0001	***
	1..1 1..		MSGNTNME	***
(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
(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)	0		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

@BANNER_START 02

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@BANNER_END

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 Autoinstall 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

.... continued

TCTWE

... continuation

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 @P2A
(8)	UNSIGNED	1	TCTWETYP	- Data type ID
(9)	UNSIGNED	3	TCTWELEN	- Length of this block
(C)	ADDRESS	4	TCTWETEA	- TCTTE ptr if PWE.
(10)	CHARACTER	8	TCTWE_TEMPLATE_	
			NETNAME	
(18)	CHARACTER	8	TCTWE_NETNAME	- NETNAME of GR template @L1A
(20)	CHARACTER	8	TCTWE_NETID	- NETNAME for CICS use. Possible alias @D3A
(28)	CHARACTER	8	TCTWE_REAL_	- Network ID @L1A
(30)	CHARACTER	4	TCTWECID	- NETNAME from NRINPLU
(34)	UNSIGNED	2	TCTWE_RPLSEQNO	- VTAM CID
(36)	UNSIGNED	1	*	- for opnsec
			TCTWE_BIND_ CLONING	- flag byte 1
			1... ..	
			TCTWE_GR	- On if APPC bind input
			..1.	- On if both sides are GR registered @L1A
			TCTWE_GRNAME_ CONN	- On if this GR conn is known by its GR name. @L1A - Off if this is a GR @L1A conn known
			...1	by its @L1A member name. @L1A
			TCTWE_USE_	
			OUR_MEMBER_NAME	
			.... 1...	- On if partner knows us @L1A by our member name @L1A (NRINNAMS) @L1A - Off if
			TCTWE_DIFF_ NETWORK	partner knows @L1A us by our GR name @L1A ~(NRINNAMS)
			.... .1..	
			TCTWE_INSTALL_ UDSS04	- Exit found alias from @D3A different network
(37)	UNSIGNED	1	*	- inst Netname from udss04 in bind
(38)	HALFWORD	2	TCTWE_TNADDR_ LENGTH	- flag byte 1
(3A)	HALFWORD	2	TCTWECLN	- length of tnaddr in AWE@D4A
(3A)	HALFWORD	2	TCTWE_BIND_ LENGTH	- length of CINIT_RU or
(3C)	CHARACTER	*	TCTWECRU	- length of APPC BIND
(3C)	CHARACTER	*	TCTWE_BIND	- CINIT_RU or
				- APPC BIND

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	TCTWE_TNADDR_S	TNADDR string after CINIT@D4A
(0)	CHARACTER	1	*	@D4A
(1)	CHARACTER	*	TCTWE_TNADDR	IP addr, port, hostname

=====

Autoinstall Work Element - Console Overlay

=====

Offset Hex	Type	Len	Name (Dim)	Description
(30)	STRUCTURE	*	TCTCWE	Console work element @01A
(30)	HALFWORD	2	TCTCWE_DATAL	- Length of input @01A
(32)	UNSIGNED	1	TCTCWE_FLG	- Flag byte @01A
			1... ..	
			TCTCWE_EXT	- Ext cons support @01A

Offset Hex	Type	Len	Name (Dim)	Description
.1.			TCTCWE_SEC	- Userid present @01A
.1.			TCTCWE_SGN	- Sign-Off/Sign-On @01A
. . .1 1111			*	Reserved @01A
(33)	CHARACTER	1	*	Reserved @01A
(34)	CHARACTER	8	TCTCWE_CART	- Saved CIBXCART @01A
(3C)	CHARACTER	4	TCTCWE_CNID	- CIBXCNID/CIBXOCID @01A
(40)	CHARACTER	8	TCTCWE_CNNM	- Saved CIBXCNNM @01A
(40)	CHARACTER	1	TCTCWE_CONID	- Saved CIBCONID @01A
(41)	CHARACTER	7	*	Reserved @01A
(48)	CHARACTER	10	TCTCWE_USERID	- Userid signed on @01A
(52)	HALFWORD	2	TCTCWE_USERID_LEN	- length of userid @01A
(54)	CHARACTER	4	TCTCWE_TERMID	- Termid for signon @01A
(58)	ADDRESS	4	TCTCWE_CHAIN	- Active WE chain
(5C)	CHARACTER	*	TCTCWE_DATA	- Input from console @01A

TCV29 XRF mapping session state vector '29'

```

CONTROL BLOCK NAME = DFHTCV29
DESCRIPTIVE NAME = CICS (XRF) Mapping Session State Vector
'29'
  @BANNER_START 02
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  "Restricted Materials of IBM"
  5697-E93
  @BANNER_END
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
  .... continued

```

TCV29

... continuation

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)	STRUCTURE	0	DFHTCV29	
(0)	BITSTRING	1	TC29IKEY	
	..1. 1..1		TC29KEY	"X'29" Vector key
(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

Offset Hex	Type	Len	Name (Dim)	Description
	...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		
(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	TC29XPNU	Sequence number
(29)	BITSTRING	2	TC29XPNU	First 2 bytes of Request Header
(2B)	BITSTRING	5	TC29XPNU	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	TC29SXPNU	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				

TDCI

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)	STRUCTURE	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
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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)	STRUCTURE	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.

TDIA

Offset Hex	Type	Len	Name (Dim)	Description
(C)		4	TDDATED	DATE INFO FROM CSAJYDP
(10)	FULLWORD	4	TDRESRV (3)	RESERVED
	.... ....		TDCHREC	***
(0)	CHARACTER	4	TDCHDI	CHAIN RECORD DESTID
(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	TDLENREC	LENGTH OF RECORD
	.... ..11		TDRDFLN	***TDRDF* LENGTH OF RDF
(13)	CHARACTER	4	TDICDF (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
@BANNER_START 02
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@BANNER_END
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 =
  TDIAs are allocated to hold data passed from
  Transient Data for
  EXEC CICS READQ TD QUEUE(...) SET(...)
  TDIAs (if allocated) are freed, at latest, at
  task termination.
  No more than one TDIA is allocated to a task.
STORAGE CLASS =
  TDIAs 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

TDOA Transient data output area

MODULE NAME = DFHTDOPS
DESCRIPTIVE NAME = **CICS/MVS AP Domain**
 Transient Data Output Area
@BANNER_START 02
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@BANNER_END
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	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	*	DFHTDOA	Transient Data Output Area
(0)	CHARACTER	8	TDOAPFX1	- storage accounting prefix
(0)	BIT(8)	1	TDOASCI	- class
(1)	BIT(8)	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 AP Domain
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@BANNER_END
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_CXRF_P	- A(DCTE for CXRF)
(78)	ADDRESS	4	*	- reserved
(7C)	ADDRESS	4	*	- reserved
(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

TDST

Offset Hex	Type	Len	Name (Dim)	Description
	...1		TDSTEMER	- emergency
	...1		TDSTINOP	- DFHINTRA opened
	.... 1...		TDST_CLOSED_ FOR_REC	
	.... .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	
	.... ...1		TD0247MSG	- TD0247 issued ?
(87)	CHARACTER	1	TDSTFLG3	- reserved
(87)	BIT(8)	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)	BIT(22) POS(3)	3	*	
(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	0	*	

TDUE Transient data EXEC Parameter List

CONTROL BLOCK NAME = DFHTDUEC
 DESCRIPTIVE NAME = CICS EXEC argument list for Transient
 Data user exits.

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@BANNER_END

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 UEPCLPS.

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.

.... continued

TDUE

... continuation

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 UEPCLPS.
 (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)	BIT(8)	1	TD_BITS1	

TDUE

Offset Hex	Type	Len	Name (Dim)	Description
1.. ..			TD_EXIST1	
1.. ..			TD_QUEUE_V	
1.. ..			TD_WRITEQ_QUEUE_V	
1.. ..			TD_READQ_QUEUE_V	
1.. ..			TD_DELETEQ_QUEUE_V	
.1.. ..			TD_EXIST2	
.1.. ..			TD_WRITEQ_FROM_V	
.1.. ..			TD_READQ_SET_INTO_V	
.1.. ..			TD_EXIST3	
.1.. ..			TD_LENGTH_V	
.1.. ..			TD_WRITEQ_LENGTH_V	
.1.. ..			TD_READQ_LENGTH_V	
...1 11..			*	Reserved
.... ..1.			TD_EXIST7	
.... ..1.			TD_SYSID_V	
.... ..1.			TD_WRITEQ_SYSID_V	
.... ..1.			TD_READQ_SYSID_V	
.... ..1.			TD_DELETEQ_SYSID_V	
.... ...1			*	Reserved
(3)	BIT(16)	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)	BIT(8)	1	TD_EIDOPT5	Reserved
	1111 111.		*	
	.... ...1		TD_READQ_SET_X	SET specified.
(6)	BIT(8)	1	TD_EIDOPT6	Reserved
(6)	BIT(8)	1	*	Reserved
(7)	BIT(8)	1	TD_EIDOPT7	Reserved
	11..		*	
	..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_INTO	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	

TEPCA TEP commarea mapper and descriptor

```

MACRO NAME = DFHTEPCA
DESCRIPTIVE NAME = CICS TEP commarea mapper and descriptor
  @BANNER_START 02
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  @BANNER_END
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)	STRUCTURE	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... ..		RELTIOA	"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

TIE Task interface element

CONTROL BLOCK NAME = DFHTIEPS
 DESCRIPTIVE NAME = CICS Task Interface Element
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 @BANNER_END
 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 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	TIESECBK	Addr user security block
(20)	BIT(8)	1	TIESECFLG	Security flags
	1... ..		TIENOSEC	Security inactive
	.1.		*	Reserved
	..1.		TIESEC	Security active for system
	...1 1111		*	Reserved
(21)	BIT(8)	1	TIEEISFG	EIS settings for the TRUE
	1... ..		TIEVALID	TIEEISFG settings are valid
	.1.		TIEDAT31	True has DATALOCATION(ANY)
	..1.		TIECEDFY	True has CEDF(YES)
	...1		TIECICS	True has tdatakey(CICS)
	.... 1111		*	Reserved
(22)	BIT(8)	1	TIETRACE	Trace flags for TRUE
	1... ..		TIETRLV1	RMI level 1 trace active
	.1.		TIETRLV2	RMI level 2 trace active
	..11 1111		*	Reserved
(23)	BIT(8)	1	*	Reserved
(24)	UNSIGNED	4	TIEPBOK	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
------	-----------	----	----------	-------------------------

Offset Hex	Type	Len	Name (Dim)	Description
(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
(64)	BIT(32)	4	TIELTOK	Link token returned by RM
(68)	ADDRESS	4	TIEEPBA	Addr of EPB for this TRUE
(6C)	BIT(8)	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..		TIESETLJ	SET_LINK LINK_ID issued
	.... ..1.		TIETRABD	True has abended
	.... ...1		TIENOLNK	Add_link too late
(6D)	BIT(8)	1	TIESYNCP	TRUE's syncpoint parms
	1...		TIESUPDR	TRUE understands single.. updater protocol
	.1.		TIEREADO	TRUE understands read-only protocol
	..11 1111		*	Reserved
(6E)	BIT(16)	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)	BIT(32)	4	TIEFLAGS	TRUE interest profile
(70)	BIT(8)	1	TIEFLAG0	Byte 0
(71)	BIT(8)	1	TIEFLAG1	Byte 1
(72)	BIT(8)	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)	BIT(8)	1	TIEFLAG3	Byte 3
	111.		*	
	...1		TIEMSYNC	Interest in Syncpoint
	.... 1...		TIEMRORM	Avoid unshunting (r/o RMC)
	.... .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
------	---------	---	---------	----------------

End of the task Interface Element

(80)	CHARACTER	0	TIEENDA	End of TIE
------	-----------	---	---------	------------

Start of TRUE's Task Local Work Area (if one exists)

(80)	CHARACTER	0	TIELWA	Start of TRUE's work area - must be doubleword aligned.
------	-----------	---	--------	---

Constants

Len	Type	Value	Name	Description
RMI Trace points				
DFHERMSP				
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_	
			RMRO_FUNCTION	
				Invalid rmro function
2	HEX	2504	ERMSP_INV_	
			RMLK_FUNCTION	
				Invalid 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_FAIL	
				INQ UOW from ERMSP has failed
2	HEX	2508	ERMSP_XMAT_	
			ATTACH_FAIL	
				attach from ERMSP has failed
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

TIE

Len	Type	Value	Name	Description
DFHERM				
2	HEX	2520	ERM_ENTRY	entry trace
2	HEX	2521	ERM_EXIT	exit trace
2	HEX	2522	ERM_ABOUT_ TO_CALL_TRUE	Passing control to the true Receiving control back from the TRUE
2	HEX	2523	ERM_RETURN_FROM_TRUE	TRUE disabled
2	HEX	2524	ERM_RM_NOT_AVAILABLE	ADD LINK from ERM has failed
2	HEX	2525	ERM_ADD_LINK_FAIL	SET LINK from ERM has failed
2	HEX	2526	ERM_SET_LINK_FAIL	SET WORK_TOKEN from ERM has failed
2	HEX	2527	ERM_RMWTI_SET_FAIL	INQ UOW ID from ERM has failed
2	HEX	2528	ERM_RMUWI_INQ_FAIL	SET UOW from from ERM has failed
2	HEX	2529	ERM_SET_UOW_FAIL	PGEX error before calling TRUE
2	HEX	2530	ERM_PGEX_ ERROR_BEFORE	PGEX error after calling TRUE
2	HEX	2531	ERM_PGEX_ERROR_AFTER	PGEX error during recovery processing
2	HEX	2532	ERM_PGEX_ ERROR_RECOV	ERM's recovery routine invoked
2	HEX	2533	ERM_RECOVERY_ENTERED	XPCHAIR exit in DFHERM modified handle address
2	HEX	2534	ERM_CHAIR_MODIFIED	
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 RMSY is about to call the RMI
2	HEX	2548	RMSY_RMI_BEFORE	Control has returned to RMSY from the RMI
2	HEX	2549	RMSY_RMI_AFTER	
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
    @BANNER_START 02
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5697-E93
    @BANNER_END
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 TIOACLRCR
    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)	BIT(8)	1	TIOAWCI	WRITE CONTROL INDICATOR
(B)	CHARACTER	1	TIOACLRCR	WCC OR CCC CHARACTER
(B)	BIT(8)	1	TIOALAC	LINE ADDRESS CONTROL
(C)	CHARACTER	0	TIOADBA	TERMINAL DATA BEGIN ADDRESS

TMDEL

TMDEL Table Manager Directory Element

CONTROL BLOCK NAME = DFHTMDEL
 DESCRIPTIVE NAME = CICS Table Manager Directory Element
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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)	BIT(8)	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)	BIT(8)	1	DIRTYPE	Type of entry
	1...		DIRBPRIM	Primary entry
	.1..		DIRBALI	Alias entry
	..1.		DIRBINDX	Index entry
	...1 1111		*	Reserved
(1B)	BIT(8)	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.
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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

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)	STRUCTURE	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
 @BANNER_START 04
 OCO Source Materials DFHTMRQ
 5697-E93
 The source code for the program is not published
 or otherwise divested of its trade secrets,
 irrespective of what has been deposited with the
 @BANNER_END
 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)	BIT(8)	1	TMRQRM	Request modifier
	1... ..		TMRQRMCM	Commit immediately
	.1.		TMRQRMLL	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	TMRQLDA	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)

TMRQ

Constants

Len	Type	Value	Name	Description
Table Type Code Values				
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	@NM0002	Reserved
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
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.
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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)	BIT(8)	1	*	Reserved
(1)	BIT(16)	2	*	Reserved
(3)	UNSIGNED	1	*	Reserved
(4)	FULLWORD	4	*	Reserved

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

(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)	BIT(16)	2	TMBITS	Miscellaneous flags
	1...		TMREHASH	Re-hash of table required
(1C)	BIT(15) POS(2)	2	*	Reserved
(1E)	BIT(16)	2	*	Reserved
(20)	ADDRESS	4	TMABORD	Alphabetical ordering position
(24)	FULLWORD	4	TMRNGPOS	Range index
(308)	ADDRESS	4	TMENQHL	TCA address of enqueuer
(30C)	ADDRESS	4	TMQEQHD	Quiesce enqueue chain ptr.
(310)	ADDRESS	4	*	Reserved
(314)	ADDRESS	4	TMCLHD	Change list head of chain
(318)	ADDRESS	4	TMCLLAST	Change list latest element

TMSKT

Offset Hex	Type	Len	Name (Dim)	Description
Global lock block				
(31C)	CHARACTER	132	TMGRLESEG	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
Last rehash time for each table				
(3A0)	BIT(64)	8	TMRHTIME (24)	
(460)	ADDRESS	4	TMLOCK_TOKEN	Lock token for TM
(464)	CHARACTER	0	TMSTATLN	Define end of block

TMSKT Table Manager Scatter Table

CONTROL BLOCK NAME = DFHTMSKT				
DESCRIPTIVE NAME = CICS Table Manager Scatter Table.				
@BANNER_START 02				
Licensed Materials - Property of IBM				
"Restricted Materials of IBM"				
5697-E93				
@BANNER_END				
FUNCTION =				
The table management scatter table holds pointers to directory elements for use by the Table Manager Program.				
TMASKTx 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 TMASKTx 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)	BIT(8)	1	SKTFLAG1	Flag byte 1
	1... ..		SKTNUEA	Non-unique entries allowed
	.111 1111		*	Reserved
(15)	BIT(8)	1	SKTFLAG2	Flag byte 2
(15)	BIT(8)	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

TPE

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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
    @BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
    @BANNER_END
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	0	TPESTART	START OF DEFINITION
(0)	HALFWORD	2	TPELL	LENGTH OF EXTENSION SET BY DFHTCT MACRO
(2)	BIT(8)	1	TPEFLG1	FLAG BYTE - SET BY DFHTCT. DEFAULT IS OFF FOR ALL FLAGS
	1... ..		*	
	.1.. ..		*	
	..1.		*	
	...1		*	Reserved
	.... 1...		TPEVCHAR	CHARACTER CELL SIZE ON A PARTITION BASIS
(3)	CHARACTER	17	TPEPSETS	NAME FOR TERMINAL SHARING CODE TO SHIP PSET NAMES
(3)	CHARACTER	8	TPECPSET	UNSUFFIXED NAME OF THE CURRENT (OR APPLICATION) PARTITION SET
(3)	CHARACTER	6	TPECPST6	APPL PSET NAME FOR DFHEEI
(9)	CHARACTER	2	*	RESERVED
(B)	CHARACTER	9	TPETPSET	TERMINAL PARTITION SET
(B)	CHARACTER	8	TPELPSET	UNSUFFIXED NAME OF THE LOADED (OR TERMINAL) PARTITION SET ZERO IF TERMINAL IN BASE STATE. BLANK IF TERMINAL STATE IS IN DOUBT

TQG

Offset Hex	Type	Len	Name (Dim)	Description
(13)	BIT(8)	1	TPEFLG2	DYNAMIC FLAG BYTE
	1... ..		TPELPER	TERMINAL PSET HAS AN ERROR MESSAGE PARTITION

TQG Transient data global statistics

CONTROL BLOCK NAME = DFHTQGDS
 DESCRIPTIVE NAME = CICS Global statistics for Transient data.
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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
 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 = DFHMBCDS MBCANBFA
 DFHMBCDS MBCACNIU
 DFHMBCDS MBCAMXIU
 DFHMBCDS MBCATNAL
 DFHMBCDS MBCACNAL
 DFHMBCDS MBCAMXAL
 DFHMBCDS MBCATNWT
 DFHMBCDS MBCACNWT
 DFHMBCDS 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)	STRUCTURE	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

Offset Hex	Type	Len	Name (Dim)	Description
(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	TQGSXMAL	Peak concurrent accesses
(4C)	FULLWORD	4	TQGSTNWT	Times string wait occurred
(50)	FULLWORD	4	TQGSXMWT	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..		TQGCLEN	**-TQGCLEN" Length of DSECT

TQR Transient data statistics

```

CONTROL BLOCK NAME = DFHTQRDS
DESCRIPTIVE NAME = CICS Transient Data Queue Statistics
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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)	STRUCTURE	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		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

TQR

Offset Hex	Type	Len	Name (Dim)	Description
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	TQRFNAME	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	TQRCCIOUS	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
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.		TQRRTLG	"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
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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)	BIT(32)	4	TRA_STATUS_FLAGS	
	1.. ..		TRA_MASTER	Internal copy of master flag
	.1.		TRA_INT_STATUS	Internal trace status
	.1.		TRA_GTF_STATUS	GTF trace status
	...1		TRA_LOCK_TABLE	Force use of table lock
	.... 1..		TRA_TRAP_ACTIVE	DFHTRAP active
	.... .1.		TRA_AUX_FIF	Next block first-in-file
	.... .1.		TRA_AUX_EOF	Next block last-in-file
	.... ...1		TRA_AVAILABLE	Trace put available
(59)	1..		TRA_TERMINATING	Trace domain terminating
	.1.		TRA_AUX_IO_PENDING	Output to aux pending
	..1.		TRA_AUX_DCB_DECB_OK	Acquired DCB/DECB initialised
	...1		TRA_TRAO_RLSE_REQD	RELEASE DFHTRAO required
	.... 1..		TRA_PA_IN_CONTROL	Parameter Mgr in control
	.... .1.		TRA_TRAP_UNUSABLE	DFHTRAP has prog checked
	.... .1.		TRA_TRAP_DISABLED	Requested disabled
	.... ...1		TRA_TRAP_INIT_STAT	DFHTRAP initial status
(5A)	1..		TRA_INITIALISING	Trace domain initialising
	.1.		TRA_AUX_STARTING	Aux trace starting
	.1.		TRA_RETAIN_AUX_DCB	Retain DCB for future use
	...1		TRA_FT_ERR_BEFORE	Prevent recurring FT errs
(5A)	BIT(12) POS(5)	2	*	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	

TRA

Offset Hex	Type	Len	Name (Dim)	Description
	1... ..		TRA_AUX_ TERM_ECB_WAIT	Aux tracing terminate ECB
	.1.. ..		TRA_AUX_ TERM_ECB_POST	WAIT BIT
	..11 1111		*	POST BIT
(C5)	CHARACTER	3	*	Reserved
(C8)	ADDRESS	4	TRA_ATS_TCB	Reserved
(CC)	ADDRESS	4	TRA_SM_ ISOLATION_TOKEN	Aux subtask TCB address
				Isolation token

Constants

Len	Type	Value	Name	Description
Values for TRA_TRAO_REQ				
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
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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>TRAFGLSA - Address of return actions flag word Return actions flag settings are in the byte addressed from field TRAFGLSA in the parameter list to DFHTRAP. The individual flag settings are as follows :</p> <p>TRAPFTRE EQU X'80' .. Make further trace entry on behalf of trap exit</p> <p>TRAPDUMP EQU X'40' .. Take a system dump</p> <p>TRAPCABD EQU X'10' .. Abend CICS (with a dump)</p> <p>TRAPDISA EQU X'08' .. Disable trap so that it cannot be used until reactivated</p> <p>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	TRAFGLSA	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>				

TRBL

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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	0	TRAEND	Ending address

TRBL Trace domain - common structures

CONTROL BLOCK NAME = DFHTRBL
 DESCRIPTIVE NAME = CICS Trace Domain - Common structures
 and constants
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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)	BIT(30) POS(3)	4	*	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
Various constants				
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
  @BANNER_START 02
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5697-E93
  @BANNER_END
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)	BIT(24)	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

TREN

Constants

Len	Type	Value	Name	Description
=====				
Tren type constants.				
The Top Bits of TREN_TYPE will be used for the release.				
		X'8?' equals R640		
		X'7?' equals R630		
		X'6?' equals R620		
		X'5?' equals R610		
		X'4?' equals R530		
		X'3?' equals R520		
		X'2?' equals R510		
		X'1?' equals R410		
		X'0?' equals R330 and below		
The Bottom Bits of TREN_TYPE will be used for the trace type.				
The types below will need to be updated for release.				
For example, the release after 5.1.0 will have the top bits				
set like this '2?'X.				
A new release field will also be added to the bottom.				
If a new TREN_TYPE is added, be sure to change GTF_TYPE_NUM				
in DFHTRFCA.				
=====				
1	HEX	80	TREN_TYPE_NORMAL	
1	HEX	8E	TREN_TYPE_LE_PIP_EXIT	
1	HEX	8D	TREN_TYPE_RRS_CALL	*
1	HEX	8C	TREN_TYPE_RRMS_EXIT	*
1	HEX	8B	TREN_TYPE_DB2_SUBTASK	
1	HEX	8A	TREN_TYPE_	
			DBCTL_RESUME_EXIT	
				*
1	HEX	89	TREN_TYPE_	
			RLS_QUIESCE_EXIT	
				*
1	HEX	88	TREN_TYPE_EXCI	
1	HEX	87	TREN_TYPE_	
			LERADSYNAD_HPO	
				*
1	HEX	86	TREN_TYPE_	
			VTAM_EXIT_HPO	
1	HEX	85	TREN_TYPE_TP_END	
1	HEX	84	TREN_TYPE_LERAD_SYNAD	
1	HEX	83	TREN_TYPE_VTAM_EXIT	
1	HEX	82	TREN_TYPE_MONITORING	
1	HEX	81	TREN_TYPE_SDUMP_EXIT	*
1	HEX	80	TREN_TYPE_R640	
1	HEX	70	TREN_TYPE_R630	
1	HEX	60	TREN_TYPE_R620	*
1	HEX	50	TREN_TYPE_R610	*
1	HEX	40	TREN_TYPE_R530	
1	HEX	30	TREN_TYPE_R520	
1	HEX	20	TREN_TYPE_R510	
1	HEX	10	TREN_TYPE_R410	
1	HEX	00	TREN_TYPE_R330	

TRFCA Trace Formatting Control Area

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	2588	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
	...1 ..		TRFCA_NOT_SELECTED	Trace not selected
(1C)	BIT(28) POS(5)	4	*	Reserved
(20)	ADDRESS	4	TRFCA_TERMLIST_PTR	Encoded TERMLIST list
(24)	ADDRESS	4	TRFCA_TERMTASK_PTR	Tasks at selected TERMIDs
(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	DFHTT510 not found
	.1.. ..		TRFCA_TT520_LOAD_FAILED	DFHTT520 not found
	..1. ..		TRFCA_TT530_LOAD_FAILED	DFHTT530 not found
	...1 ..		TRFCA_TT610_LOAD_FAILED	DFHTT610 not found
	.... 1..		TRFCA_TT620_LOAD_FAILED	DFHTT620 not found
	.... .1..		TRFCA_TT630_LOAD_FAILED	DFHTT630 not found
	.... ..1.		TRFCA_TT640_LOAD_FAILED	DFHTT640 not found
	.... ...1		*	Reserved
(63)	CHARACTER	1	*	unused
(64)	ADDRESS	4	*	PTR to CDURUN
(68)	ADDRESS	4	TRFCA_TT640_PTR	PTR to CDURUN 6.4
#Unused# area				
(6C)	CHARACTER	56	*	Available
(A4)	ADDRESS	4	TRFCA_TCBIDLST_PTR	Encoded TCBID list
(A8)	ADDRESS	4	TRFCA_TCBADLST_PTR	Encoded TCBADDR list
Storage used by TRFPRL - the print line routine				
(AC)	CHARACTER	4	*	Flag word
	1... ..		TRFCA_SPACE	Space after print
(AC)	BIT(31) POS(2)	4	*	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

TRFCA

Offset Hex	Type	Len	Name (Dim)	Description
(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
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
Warning the offset of the DFHTRIP must not change compatibility 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)	BIT(8)	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)	BIT(8)	1	TRFTW_FLAGS	
	1...			
	.1..		TRFTW_INTERPRETATION	
	..1.		TRFTW_LOAD_ FAILED	
	...1		TRFTW_NO_ NAME	
	.... 1..		TRFTW_FEATURE_ ABEND	
	.... .111		TRFTW_INT_ OVERFLOW	
(5BE)	UNSIGNED	2	TRFTW_LEN_ LEFT	
(5C0)	ADDRESS	4	TRFTW_NAB	
(5C4)	ADDRESS	4	TRFTW_DFHTRIB_ ADDRESS	
(5C8)	ADDRESS	4	TRFTW_CDPFTAB_ ADDRESS	
(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	
	.... ...1		TRFCA_EXCEPTION	Output in uppercase
(6D1)	1...		TRFCA_PDX_ TRACE	Only print exception 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

TRFCA

Offset Hex	Type	Len	Name (Dim)	Description
	.... .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)	BIT(15) POS(2)	2	*	Available
(6D4)	ADDRESS	4	TRFCA_JOB_LINE_PTR	Ptr to jobname line buff
(6D8)	ADDRESS	4	TRFCA_INTERVAL_PTR	Time interval parameter.
<p>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</p>				
(6DC)	CHARACTER	36	*	
(6DC)	ADDRESS	4	TRFCA_FORMATTER_R640	Version 6 release 4
(6E0)	ADDRESS	4	TRFCA_FORMATTER_R630	Version 6 release 3
(6E4)	ADDRESS	4	TRFCA_FORMATTER_R620	Version 6 release 2
(6E8)	ADDRESS	4	TRFCA_FORMATTER_R610	Version 6 release 1
(6EC)	ADDRESS	4	TRFCA_FORMATTER_R530	Version 5 release 3
(6F0)	ADDRESS	4	TRFCA_FORMATTER_R520	Version 5 release 2
(6F4)	ADDRESS	4	TRFCA_FORMATTER_R510	Version 5 release 1
(6F8)	ADDRESS	4	TRFCA_FORMATTER_R410	Version 4 release 1
(6FC)	ADDRESS	4	TRFCA_FORMATTER_R330	Version 3 release 3
(700)	UNSIGNED	1	TRFCA_FREE_BUFFER (15)	Subscript value of first free buffer for each type
(70F)	CHARACTER	4	*	Reserved
(714)	ADDRESS	4	TRFCA_RECORD_BUFFER (15,5)	Pointers to segmented entry reconstruction areas - one per type AND region/ system
(840)	ADDRESS	4	TRFCA_NEXT_BYTE (15,5)	Ptrs to next free byte in reconstruction area
(96C)	UNSIGNED	2	TRFCA_LEN_REM (15,5)	Length still to come continuation records
(A02)	CHARACTER	8	TRFCA_DATE	Date
(A0A)	CHARACTER	8	TRFCA_APPLID	Applid
(A12)	CHARACTER	1	*	
	1...		TRFCA_R620_LOAD_FAIL	DFHTR620 not found
	.1..		TRFCA_R610_LOAD_FAIL	DFHTR610 not found
	.1.		TRFCA_R530_LOAD_FAIL	DFHTR530 not found
	...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
	.... ...1		TRFCA_R630_LOAD_FAIL	DFHTR630 not found
<p>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.</p>				
(A13)	CHARACTER	9	*	Used area
(A1C)	CHARACTER	0	*	End of FCA

Structure of the core block containing record selection data

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	*	TRFPPWA	

TRFCA

Offset Hex	Type	Len	Name (Dim)	Description
(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)	BIT(8)	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 defns below
(87)	UNSIGNED	1	TRIP_PLIST_TYPE	For data type CDPLIST only See constant defns 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)	BIT(8)	1	TRFTW_FLAGS	
			1...	
			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

TRFCA

CONTROL BLOCK NAME = DFHTRFTC
 DESCRIPTIVE NAME = CICS/ESA (TR) Feature Trace Entry Header
 @BANNER_START 02
 Licensed Materials - Property of IBM
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 5697-E93
 @BANNER_END
 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)	BIT(8)	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)	BIT(8)	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	NO FORMAT
	.... .111		*	SPARE

TRFCA

Offset Hex	Type	Len	Name (Dim)	Description
(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
Various constants used in the formatting				
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	15	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
 @BANNER_START 02
 Licensed Materials - Property of IBM
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 5697-E93
 @BANNER_END
 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)	BIT(8)	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)	BIT(8)	1	TRFTW_FLAGS	
	1... ..		TRFTW_INTERPRETATION	FOREIGN CODE
	.1.. ..		TRFTW_LOAD_FAILED	MVS LOAD
	..1.		TRFTW_NO_NAME	NO FORMAT

TRGTW

Offset Hex	Type	Len	Name (Dim)	Description
	...1		TRFTW_FEATURE_ ABEND	
	.... 1...		TRFTW_INT_OVERFLOW	NO FORMAT
	.... .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	
@BANNER_START 02	
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@BANNER_END	
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)	BIT(32)	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)	BIT(27) POS(6)	4	*	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.
  @BANNER_START 02
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    "Restricted Materials of IBM"
    5697-E93
  @BANNER_END
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)	STRUCTURE	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	TSGBWTH	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	TSGVVTN	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	TSGLAR	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

TST

TSIOA Temporary Storage input/output area

CONTROL BLOCK NAME = DFHTSIOA
 DESCRIPTIVE NAME = CICS Temporary Storage Input/Output Area.
 @BANNER_START 02
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 @BANNER_END
 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	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	0	DFHTSIOA	DUMMY SECTION - TEMPORARY STORAGE I/O AREA USING
(0)	HALFWORD	2		STORAGE ACCOUNTING (CLASS=TEMPORARY STORAGE)
(2)	HALFWORD	2	TSIOASAL	STORAGE ACCOUNTING - AREA LENGTH
(4)	ADDRESS	4	TSIOASCA	TRANSACTION STORAGE CHAIN ADDRESS
(8)	HALFWORD	2	TSIOAVRL	VARIABLE RECORD LENGTH
(A)	HALFWORD	2		RESERVED
	.... 11..		TSIOACAD	***DFHTSIOA* CONTROL AREA DISPLACEMENT
	.... 11..		TSIOADBA	*** DATA BEGINNING ADDRESS

TST Temporary Storage table

CONTROL BLOCK NAME = DFHTSTDS
 DESCRIPTIVE NAME = CICS Temporary Storage Table
 @BANNER_START 02
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 @BANNER_END
 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	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	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

TSUE

Offset Hex	Type	Len	Name (Dim)	Description
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	"X80" RECOVERABLE
	.1... ..		TSTRMTBM	"X40" REMOTE
	..1.		TSTRNMBM	"X20" REMOTE PREFIX GIVEN
	...1		TSTRSLBM	"X10" RESOURCE SECURITY LEVEL CHK
	.... 1...		TSTSHRBM	"X08" SHARED POOL ENTRY
	.... .1..		TSTMIGBM	"X04" MIGRATE FLAG (1 IF MIGRATE=YES)
	.... ..1.		TSTHDXBM	"X02" HEADER EXTENSION ENTRY
	.... ...1		TSTLSTBM	"X01" =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

TSUE

CONTROL BLOCK NAME = DFHTSUEC
DESCRIPTIVE NAME = **CICS EXEC parameter list for Temporary**
Storage user exits.

@BANNER_START 02

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@BANNER_END

Although provided in a general library, DFHTSUEC 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.

.... continued

... continuation

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...
(0)	ADDRESS	4	TS_ADDR0	the EID
(4)	ADDRESS	4	TS_ADDR1	QUEUE/QNAME
(8)	ADDRESS	4	TS_ADDR2	FROM data area (WRITEQ)
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)	BIT(8)	1	TS_BITS1	
	1...		TS_EXIST1	QUEUE/QNAME -
	1...		TS_QUEUE_V	ALWAYS SET
	1...		TS_WRITEQ_QUEUE_V	
	1...		TS_READQ_QUEUE_V	

TSUE

Offset Hex	Type	Len	Name (Dim)	Description
1...			TS_DELETEQ_	
			QUEUE_V	
.1..			TS_EXIST2	
.1..			TS_WRITEQ_FROM_V	
.1..			TS_READQ_	
			SET_INTO_V	
..1.			TS_EXIST3	
..1.			TS_LENGTH_V	
..1.			TS_WRITEQ_	
			LENGTH_V	
..1.			TS_READQ_	
			LENGTH_V	
...1			TS_EXIST4	
...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)	BIT(16)	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)	BIT(8)	1	TS_EIDOPT5	
			TS_QNAME_X	QNAME, otherwise QUEUE@L3C
			*	Reserved
			TS_READQ_SET_X	SET, otherwise INTO
(6)	BIT(8)	1	TS_EIDOPT6	
(6)	BIT(8)	1	*	Reserved
(7)	BIT(8)	1	TS_EIDOPT7	
			*	Reserved
			TS_WRITEQ_	
			NOSUSPEND_X	
				NOSUSPEND
			*	
			TS_WRITEQ_MAIN_X	MAIN, otherwise AUXILIARY
			TS_READQ_ITEM_X	ITEM
			*	
			TS_WRITEQ_	
			REWRITE_X	
				REWRITE
			TS_READQ_	
			NUMITEMS_X	
				NUMITEMS
			*	
(8)	BIT(8)	1	TS_EIDOPT8	
			*	
			TS_WRITEQ_ITEM_X	ITEM, otherwise NUMITEMS
			*	

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	

TSUE

Offset Hex	Type	Len	Name (Dim)	Description
(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
Equate for TS_GROUP.				
All Temporary Storage requests have group code '0A'				
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	

Offset Hex	Type	Len	Name (Dim)	Description
(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	TTPEAVAF (0)	VALID DEST ATTRIBUTES
(3C)	BITSTRING	1	TTPEAVAL	VALID ATTRS FOR DEST--BYTE1
(3D)	BITSTRING	1	TTPEAVA2	VALID ATTRS FOR DEST--BYTE2
(3E)	BITSTRING	1	TTPEAVA3	RESERVED
(3F)	CHARACTER	2	TTPEAUSF (0)	DATASTREAM ATTRIBUTES
(3F)	BITSTRING	1	TTPEAUSE	ATTRS USED IN DATASTREAM--BYTE1
(40)	BITSTRING	1	TTPEAUS2	ATTRS USED IN DATASTREAM--BYTE2
(41)	BITSTRING	1	TTPEAUS3	RESERVED
EQUATES FOR TTPEAVAL AND TTPEAUSE				
	1... ..		TTPEXTDS	"X'80" IN TTPEAVAL: EXTENDED DATASTREAM SUPPORTED BY DESTINATION IN TTPEAUSE: EXTENDED ATTRS PRESENT FOR SOME MAP IN CURRENT PAGE
	.1.. ..		TTPEACOL	"X'40" COLOUR ATTR SUPPORTED/USED
	.1.		TTPEAPSS	"X'20" PSS ATTR SUPPORTED/USED
	...1		TTPEAHLT	"X'10" HILIGHT ATTR SUPPORTED/USED
	... 1..		TTPEAVLD	"X'08" VALIDATION ATTRIBUTES SUPPORT / USED
	.... .1..		TTPEAPRT	"X'04" PARTITIONS SUPPORTED
	.... .1.		TTPEAMSR	"X'02" MSR SUPPORTED/USED
	.... ...1		TTPEAAPR	"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	TTPASUFX	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	TTPXPTR	TEXTBLD TIOA POINTER, SAVE AREA
(52)	HALFWORD	2	TTPDATO	OFFSET FROM PBDDADR TO DATA
(54)	HALFWORD	2	TTPCURSR	CURSOR POSITION
(58)	ADDRESS	4	TTP32SFP	ADDRESS OF 3270E OUTBOUND STRUCTURED FIELD
(5C)	BITSTRING	2	TTPDPSZS (0)	MOST RESTRICTIVE DISPLAY SIZE
(5C)	BITSTRING	1	TTPLINES	MOST RESTRICTIVE DISPLAY LENGTH
(5D)	BITSTRING	1	TTPCOLS	MOST RESTRICTIVE DISPLAY WIDTH
(5E)	BITSTRING	1	TTPPPTS	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		TTPXTB	"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.		TTPLDCCDF	"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.. ..		TTPDIRCT	"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	TTPFPCNT	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

TTP

Offset Hex	Type	Len	Name (Dim)	Description
(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	TTPFA	3270 ATTRIBUTE
(6F)	CHARACTER	12	TTPXATTR (0)	EXTENDED ATTRIBUTE WORK AREA
(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	TTPTHHL	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)	STRUCTURE	0	DFHTTPRE	DUMMY SECTION PART 2 - TTP
(0)	CHARACTER	8	TTPRCBID	TTP SELF IDENTIFICATION. SET TO 'DFHTTPDS' WHEN TTPRE CREATED
(8)	ADDRESS	4	TTPRLCHA	ADDRESS OF NEXT ROUTE LIST SEGMENT
	.... 11..		TTPRL	"" START OF ROUTE LIST
	.... 1...		RLENTRY	"8" NUMBER OF TCTTE ADDRESSES IN 1 SEGMENT OF ROUTE LIST
	.... 11..		TTPRLES	"" 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	"TCTTEPGP" PAGING STATUS

REMAINING BIT VALUES IN 'TTPSF' UNAVAILABLE

(18)	CHARACTER	8	TTPDSN	DESTINATION NAME
	..1.		TTPRLEE	"" ROUTE LIST ENTRY END
	...1 .1..		TTPRLEL	"TTPRLEE-TTPRLES" ROUTE LIST ENTRY LENGTH
(20)	BITSTRING	4	TTPSEEND	SINGLE ENTRY STOPPER
(C)	CHARACTER	0	(0)	ROUTE LIST
(AC)	BITSTRING	4	TTPRELEND	ROUTE LIST STOPPER
	11.. 11..		TTPLENSE	"(TTPCMEND-TTPSTRT)+(TTPRLEE-DFHTTPRE)+L'TTPSEEND' LENGTH OF SINGLE ENTRY TTP
(AC)		0	TTPLEN	"(TTPCMEND-TTPSTRT)+(-DFHTTPRE)" LENGTH OF TTP

DEVICE DEPENDENCE SUFFIX (DDS)/MAP SET SUFFIX (MSS) EQUATES

Offset Hex	Type	Len	Name (Dim)	Description
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
11..	.11.		DS2740	"C'F" 2740 W/BUFFRECV-DEVICE DEPEND SUFFIX
11..	.11.		MS2740	"C'F" 2740 W/BUFFRECV-MAP SET SUFFIX
11..	1...		DS2740BR	"C'H" 2740 W/BUFFRECV-DEVICE DEPEND SUFFIX
11..	.11.		MS2740BR	"C'H" MAP SET SUFFIX
11..	.111		DS2741	"C'G" 2741 - DEVICE DEPEND SUFFIX
11..	.111		MS2741	"C'G" MAP SET SUFFIX
11..	1..1		DS2770	"C'I" 2770 - DEVICE DEPEND SUFFIX
11..	1..1		MS2770	"C'I" MAP SET SUFFIX
11.1	...1		DS2780	"C'J" 2780 - DEVICE DEPEND SUFFIX
11.1	...1		MS2780	"C'J" MAP SET SUFFIX
11.1	1...		DS2980M4	"C'Q" 2980 MOD 4 - DEVICE DEPEND SUFFIX
11.1	1..1		MS2980M4	"C'R" MAP SET SUFFIX
11.1	1...		DS2980	"C'Q" 2980 - DEVICE DEPEND SUFFIX
11.1	1...		MS2980	"C'Q" MAP SET SUFFIX
11.1	.1.1		DS327PM1	"C'N" 3270-1 PRINTER - DEVICE DEPEND SUFFIX
11.1	.1.1		MS327PM1	"C'N" DEVICE DEPEND SUFFIX
11.1	.11.		DS327PM2	"C'O" 3270-2 PRINTER - DEVICE DEPEND SUFFIX
11.1	.11.		MS327PM2	"C'O" MAP SET SUFFIX
11.1	..11		DS3270M1	"C'L' 3270 MOD 1 - DEV DEP SUFFIX "
11.1	..11		MS3270M1	"C'L' MAP SET SUFFIX "
11.1	.1..		DS3270M2	"C'M" 3270 MOD 2 - DEV DEP SUFFIX
11.1	.1..		MS3270M2	"C'M" MAP SET SUFFIX
111.	.1..		DS3601	"C'U" 3601 - DEVICE DEPEND SUFFIX
111.	.1..		MS3601	"C'U" MAP SET SUFFIX
111.	1..1		DS327PHC	"C'Z" 3650/3275HC PRINTER - DEVICE DEPEND SUFFIX
111.	1..1		MS327PHC	"C'Z" MAP SET SUFFIX
111.	.111		DS3270HC	"C'X" 3650/3270HC - DEVICE DEPEND SUFFIX
111.	.111		MS3270HC	"C'X" MAP SET SUFFIX
111.	.11.		DS3650UP	"C'W" 3650UP - DEVICE DEPEND SUFFIX
111.	.11.		MS3650UP	"C'W" MAP SET SUFFIX
111.	.1.1		DS3653	"C'V" 3653 - DEVICE DEPEND SUFFIX
111.	.1.1		MS3653	"C'V" MAP SET SUFFIX
11.1	..1.		DS3780	"C'K" 3780 - DEVICE DEPEND SUFFIX
11.1	..1.		MS3780	"C'K" MAP SET SUFFIX
11.1	.111		DSINTLU	"C'P" INT LU DEVICE DEPEND SUFFIX
11.1	.111		MSINTLU	"C'P" MAP SET SUFFIX
111.	1...		DSBCHLU	"C'Y" BCH LU DEVICE DEPEND SUFFIX
111.	1...		MSBCHLU	"C'Y" MAP SET SUFFIX

UEFD

UEFD User exit file and dataset information

CONTROL BLOCK NAME = DFHUEFDS
DESCRIPTIVE NAME = CICS User Exit File and Dataset
Information
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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 UEFFINFO 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)	STRUCTURE	0	DFHUEFDS	
(0)	CHARACTER	8	UEFLNAME	File Name
(8)	CHARACTER	44	UEDSNNAME	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..		UEFSDI	"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 Journalling and Logging Options				
(35)	BITSTRING	1	UEFDSJL	Journalling 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 Journalling Option (VSAM only)				
(36)	BITSTRING	1	UEFDSVJL	VSAM Journalling Indicator
	.1.		UEFJWAC	"X'40" Write Add Complete
Journal to be used for Automatic Journalling				
(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

UEFD

Offset Hex	Type	Len	Name (Dim)	Description
...1			UEFBCLOG	"X'10" Logging
.... 1...			UEFBCVAL	"X'08" Valid Flag for Recovery Attrs
<p>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 :</p> <p>(1) Forward Recovery not specified (2) The VSAM Catalog has been used to specify the log name</p>				
(3A)	BITSTRING	1	UEFFRLOG	Forward Recovery Log Id
(3B)	BITSTRING	1		Reserved
<p>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 :</p> <p>(1) Forward Recovery not specified (2) The VSAM Catalog hasn't been used to specify the log name</p>				
(3C)	CHARACTER	26	UEFFRCLG	FR Log from VSAM Catalog
(56)	CHARACTER	2		Reserved
<p>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</p>				
(58)	FULLWORD	4	UEFCDATE	Date of Last Closure(yyyddd)
(5C)	FULLWORD	4	UEFCTIME	Time of Last Closure(hhmssts)
Availability Status				
(60)	ADDRESS	1	UEFBCAS	Availability State
	..1.		UEFBCUNA	"X'20" Data set marked unavailable
(61)	CHARACTER	3		Reserved
<p>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.</p>				
(64)	ADDRESS	4	UEFACBCP	Address of copy of ACB

UEPAR

UEPAR Task related user exit plist

```

MODULE NAME = DFHUEXIT
DESCRIPTIVE NAME = CICS USER EXIT MACRO
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
    
```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	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				
	1..	....	UERTPREP	"X80" PREPARE
	.1..	....	UERTCOMM	"X40" COMMIT UNCONDITIONALLY
	.1.	....	UERTBACK	"X20" BACKOUT
	...1	....	UERTDGCS	"X10" LOST TO CICS INITIAL START
	....	1..	UERTDGNK	"X08" RM SHOULD NOT BE IN-DOUBT
	....	.1..	UERTWAIT	"X04" RM WILL HAVE TO WAIT FOR OUTCOME
	....	.1.	UERTRSYN	"X02" RESYNC
	....	...1	UERTLAST	"X01" LAST COMMIT/ABORT IN THREAD
	1..	....	UERTONLY	"X80" RM IS ONLY UPDATER - TRUE CAN PERFORM SINGLE PHASE COMMIT
	.1..	....	UERTELUW	"X40" 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	"X80" END OF THREAD
	.1..	....	UERTSOTR	"X40" START OF TASK
	1..	..1.	UERTRTTR	"X82" no longer used
	.1..	..1.	UERTRTST	"X42" no longer used
	....	.1..	UERFEOTR	"4" CALL UNDERSTOOD
	1..	....	UERTCONN	"X80" EXTERNAL RESOURCE MANAGER IS
	.1..	....	UERTNCON	"X40" EXTERNAL RESOURCE MANAGER IS NOT
	1..	....	UERTCORD	"X80" CICS Orderly Termination
	.1..	....	UERTCMM	"X40" CICS Immediate Termination
	.1.	....	UERTCABY	"X20" CICS ABEND (Retry possible - TCBs Dispatchable)
	...1	....	UERTCABN	"X10" CICS ABEND (Retry NOT possible - TCBs Dispatchable)
	....	...1	UERTOPCA	"X01" 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	"X80" SECURITY INACTIVE FOR THIS SYSTEM
	.1.	....	UEPSEC	"X20" 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	"X80" INDICATES ORIGINAL CALLER WAS AMODE 31
(4C)	ADDRESS	4	UEPSYNCA	ADDRESS OF PARMS PASSED TO SYNC PT.
	1..	....	UEPSUPDR	"X80" RM UNDERSTANDS SINGLE UPDATER PROTOCOL
	.1..	....	UEPREADO	"X40" RM IS READ ONLY FOR THIS LUW
(50)	ADDRESS	4	UEPTIND	ADDRESS OF CALLER'S TASK INDICATORS
	1..	....	UEPTANY	"X80" DATA LOCATION ANY
	.1..	....	UEPTCICS	"X40" 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	"X20" UNEXPECTED TCB
(50)	CHARACTER	0	UEPTQR	"C'QR',2" QUASI-REENTRANT (QR) TCB
(50)	CHARACTER	0	UEPTCO	"C'CO',2" CONCURRENT (CO) TCB
(50)	CHARACTER	0	UEPTRO	"C'RO',2" RESOURCE_OWNING (RO) TCB
(50)	CHARACTER	0	UEPTFO	"C'FO',2" FILE_OWNING (FO) TCB
(50)	CHARACTER	0	UEPTSZ	"C'SZ',2" FEPI (SZ) TCB
(50)	CHARACTER	0	UEPTRP	"C'RP',2" RP MODE TCB

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
(50)	CHARACTER	0	UEPTL8	"CL8',2" AN OPEN TCB, CICS KEY
(50)	CHARACTER	0	UEPTL9	"CL9',2" AN OPEN TCB, USER KEY
(50)	CHARACTER	0	UEPTSO	"C'SO',2" SOCKETS TCB
(50)	CHARACTER	0	UEPTSL	"C'SL',2" SOCKETS LISTENER TCB
(50)	CHARACTER	0	UEPTSP	"C'SP',2" SSL PTHREAD OWNING TCB
(50)	CHARACTER	0	UEPTS8	"C'S8',2" SSL TCB
(50)	CHARACTER	0	UEPTJ8	"C'J8',2" A JAVA TCB
(50)	CHARACTER	0	UEPTJ9	"C'J9',2" A JAVA TCB, USER KEY
(50)	CHARACTER	0	UEPTJM	"C'JM',2" A MASTER JVM TCB
(50)	CHARACTER	0	UEPTD2	"C'D2',2" CICS-DB2 HOUSEKEEPING TCB
(50)	CHARACTER	0	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			UEFDSYNC	"UEF3OFFS" BYTE-DISPL = 3
.... ..11			UEFPSYNC	"3" BIT-POSITN = 3
.... ..1 ..			UEFMSYNC	"X'10" BIT-MASK

DUMMY SECTION FOR ROUTING FLAGS

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHUEFLG	
(0)	BITSTRING	4		

DUMMY SECTION FOR ROUTING ARGUMENT

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHUERTR	
(0)	BITSTRING	1	UERTFGP	FUNCTION GROUP
(1)	BITSTRING	1	UERTFID	ORIGIN-IDENTIFIER
	.... ..1.		UERTAPPL	"31-(UEFDAPPL*8+UEFPAPPL)" FROM API
	.... ..1.		UERTFAPI	"UERTAPPL" FROM API
	.... ..1.		UERTAPI	"UERTAPPL" FROM API
	.... ..1.		UERTSPI	"31-(UEFDSP1*8+UEFPSP1)" FROM SPI
	.... ..1..		UERTSYNC	"31-(UEFDSYNC*8+UEFPSYNC)" FROM SP-MGR
	.... 1..		UERTTASK	"31-(UEFDTASK*8+UEFPTASK)" 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

.... ...1			XTCIN	"1"
.... ..1.			XTCOUT	"2"
.... ..11			XTCATT	"3"

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
....	.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"
....	11..		XMEOUT	"12"
....	11.1		XFCREQ	"13"
....	111.		XFCREQC	"14"
....	1111		XTSPTOU	"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..		XDLIPRE	"44"
..1.	11.1		XDLIPOST	"45"
..1.	111.		XFCSREQ	"46"
..1.	1111		XEIIIN	"47"
..11	....		XEIOU	"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...		XRMIIIN	"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		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"

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
.1.1 11..			XBADEACT	"92"
.1.1 11.1			XLDLOAD	"93"
.1.1 111.			XLDELETE	"94"
.1.1 1111			XSNEK	"95"
.11.			XFCFRIN	"96"
.11. ...1			XFCFROUT	"97"
.11. ..1.			XICERES	"98"
.11. ..11			XPCERES	"99"
.11. .1..			XWBOPEN	"100"
.11. .1.1			XWBSNDO	"101"
.11. .11.			XINDT1	"102"
.11. .111			XINDT2	"103"
.11. 1...			XLGWBC	"104"

UEPAR Global user exit plist

```

MODULE NAME = DFHUEXIT
DESCRIPTIVE NAME = CICS USER EXIT MACRO
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END

```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	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
(20)	ADDRESS	4	UEPGIND	ADDRESS OF CALLER'S TASK INDICATORS
	1...		UEPGANY	"X'80" DATA LOCATION ANY
	.1.		UEPGCICS	"X'40" TASKDATAKEY = CICS
(20)	CHARACTER	0	UEPTQR	"C'QR',2" QUASI-REENTRANT (QR) TCB
(20)	CHARACTER	0	UEPTCO	"C'CO',2" CONCURRENT (CO) TCB
(20)	CHARACTER	0	UEPTRO	"C'RO',2" RESOURCE_OWNING (RO) TCB
(20)	CHARACTER	0	UEPTFO	"C'FO',2" FILE_OWNING (FO) TCB
(20)	CHARACTER	0	UEPTSZ	"C'SZ',2" FEPI (SZ) TCB
(20)	CHARACTER	0	UEPTRP	"C'RP',2" RP MODE TCB
(20)	CHARACTER	0	UEPTL8	"C'L8',2" AN OPEN TCB, CICS KEY
(20)	CHARACTER	0	UEPTL9	"C'L9',2" An OPEN TCB, USER KEY
(20)	CHARACTER	0	UEPTSO	"C'SO',2" SOCKETS TCB
(20)	CHARACTER	0	UEPTSL	"C'SL',2" SOCKETS LISTENER TCB
(20)	CHARACTER	0	UEPTSP	"C'SP',2" SSL PTHREAD OWNING TCB
(20)	CHARACTER	0	UEPTS8	"C'S8',2" SSL TCB
(20)	CHARACTER	0	UEPTX8	"C'X8',2" XPLINK TCB, CICS KEY
(20)	CHARACTER	0	UEPTX9	"C'X9',2" XPLINK TCB, USER KEY
(20)	CHARACTER	0	UEPTJ8	"C'J8',2" A JAVA TCB, CICS KEY
(20)	CHARACTER	0	UEPTJ9	"C'J9',2" A JAVA TCB, USER KEY
(20)	CHARACTER	0	UEPTJM	"C'JM',2" A MASTER JVM TCB
(20)	CHARACTER	0	UEPTD2	"C'D2',2" CICS-DB2 HOUSEKEEPING TCB
(20)	CHARACTER	0	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	"X'80" TRACE FLAG ON
	.... ....		UERCNORM	"X'00" CONTINUE NORMAL PROCESSING
(30)	HALFWORD	2	UEPPARMS (0)	START OF PARAMETERS UNIQUE TO EACH EXIT ID

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
XFCNREC PARAMETERS				
Exit specific parameters are:				
UEFILE - Address of 8 byte field containing the file name				
UEDSETN - Address pointing to a 44 character DSNNAME				
UEPFRCV - Address of file status flag byte				
UEPFFAIL - ADDRESS OF THE FAILURE REASON CODE				
Valid values for UEPFRCV are:				
UEPFLOG EQU X'01' file log attribute				
VALID VALUES FOR UEPFAIL ARE:				
UEPATTF EQU X'01' ATTRIBUTE MISMATCH				
UEPBWOF EQU X'02' BWO MISMATCH				
Valid return codes for XFCNREC are:				
UERCNORM EQU X'00' normal(default) - reject mismatch				
- open will fail as normal				
UERCBYE 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 DSDAME
(38)	ADDRESS	4	UEPFRCV	address of file status flag byte
valid values for UEPFRCV are:				
(3C)	ADDRESS	4	UEPFLOG UEPFFAIL	"X'01" file log attribute ADDRESS OF THE FAILURE REASON CODE
VALID VALUES FOR UEPFAIL ARE:				
(40)	ADDRESS	4	UEPATTF UEPBWOF UEPOPEN	"X'01" FILE LOG ATTRIBUTE MISMATCH "X'02" BWO ATTRIBUTE MISMATCH ADDRESS OF ACTION FLAG
XFCAREQ PARAMETERS				
VALID RETURN CODES FOR XFCAREQ ARE:				
UERCNORM EQU X'00' NORMAL(DEFAULT)				
UERCBYE EQU X'04' BYPASS REQUEST				
UERCPURG 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	UEPRES	ADDRESS OF COPY OF EIBRESP
(40)	ADDRESS	4	UEPRES2	ADDRESS OF COPY OF EIBRESP2
(44)	ADDRESS	4	UEPTSTOK	ADDRESS OF TASK TOKEN
(48)	ADDRESS	4	UEPRECUR	ADDRESS OF HALWORD DEPTH COUNTER
XFCAREQC PARAMETERS				
VALID RETURN CODES FOR XFCAREQC ARE:				
UERCNORM EQU X'00' NORMAL(DEFAULT)				
UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPFATOK - 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
XFCREQ PARAMETERS				
VALID RETURN CODES FOR XFCREQ ARE:				
UERCNORM EQU X'00' NORMAL(DEFAULT)				
UERCBYE 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 - 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	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 - 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

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
XFCREQ 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				
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				
UEPFSOP EQU X'01' Close Pending				
UEPFSKLM 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 XFCREQ 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	UEPFSKAN	"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	UEPFSOP	"X'01'" Close Pending
	....	..1.	UEPFSKLM	"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

UEPAR

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				
UEPFSOP 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	UEPRSTRT	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 UEPRSTRT				
	....	....	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
XICREQ PARAMETERS				
VALID RETURN CODES FOR XICREQ ARE:				
UERCNORM EQU X'00' NORMAL(DEFAULT)				
UERCPURG EQU X'20' PURGED				

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
(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	UEPICE	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
(50)	ADDRESS	4	UEPDATE	ADDRESS OF COPY OF EIBDATE
(54)	ADDRESS	4	UEPTIME	ADDRESS OF COPY OF EIBTIME
(58)	ADDRESS	4		RESERVED
(5C)	ADDRESS	4		RESERVED
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
(50)	ADDRESS	4		UEPDATE - AS DEFINED ABOVE
(54)	ADDRESS	4		UEPTIME - AS DEFINED ABOVE
(58)	ADDRESS	4	UEP_IC_REMOTE_SYSTEM	ADDRESS OF COPY OF REMOTE SYSTEM
(5C)	ADDRESS	4	UEP_IC_REMOTE_NAME	ADDRESS OF COPY OF REMOTE NAME
XICERES PARAMETERS THIS PARAMETER LIST IS IDENTICAL TO THAT USED FOR XICEREQ EXCEPT THAT R/CODE UERCBYP HAS BEEN REPLACED BY UERCRESU VALID RETURN CODES FOR XICERES ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCRESU EQU X'04' RESOURCE UNAVAILABLE 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
(50)	ADDRESS	4		UEPDATE - AS DEFINED ABOVE
(54)	ADDRESS	4		UEPTIME - AS DEFINED ABOVE
(58)	ADDRESS	4		RESERVED
(5C)	ADDRESS	4		RESERVED
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	0	UEPICES	"C'S" "C'S" = START COMMAND WITHOUT DATA
(30)	CHARACTER	0	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	UEPICTRN	ADDRESS OF 4 BYTE FIELD CONTAINING TRANSACTION ID ON REQUEST
(40)	ADDRESS	4	UEPICRTR	ADDRESS OF 4 BYTE FIELD CONTAINING TERMINAL ID ON REQUEST

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
(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

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	0	UEPALETD	"C'QD" C'QD= TRANSIENT DATA TRIGGER LEVEL
(30)	CHARACTER	0	UEPALES	"C'S " C'S ' = START COMMAND WITHOUT DATA
(30)	CHARACTER	0	UEPALESD	"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	UEPALSXI	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	UEPALSXI	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	UEPALTSD	A four-byte field containing the symbolic identifier of the transaction which was to be started by this request.
(34)	ADDRESS	4	UEPALTRM	A four-byte field containing the identifier of the terminal or connection to which this request was directed.
(38)	ADDRESS	4	UEPALDAT	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	UEPALLEN	A fullword binary value containing the length of the FROM data; or zero if the FROM option was not specified.
(40)	ADDRESS	4	UEPALRQD	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	UEPALQUE	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	UEPALRTE	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	UEPALRTA	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	UEPALFMH	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	UEPALSTC	A two-byte field containing the start code. This will be C'SZ' for FEPI starts; otherwise C'SD'.
(58)	ADDRESS	4	UEPALCHN	A sixteen byte field containing the channel name (if any). If there is no channel associated with the AID, the name is set to blanks.

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

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
(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) 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
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 UERCPURG 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) UERCPURG 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		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
(50)	ADDRESS	4		RESERVED
(54)	ADDRESS	4		RESERVED

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
XPCREQC PARAMETERS				
VALID RETURN CODES FOR XPCREQ ARE:				
UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING)				
UERCPURG 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
(50)	ADDRESS	4	UEP_PC_ REMOTE_SYSTEM	
(54)	ADDRESS	4	UEP_PC_REMOTE_NAME	ADDRESS OF COPY OF REMOTE SYSTEM ADDRESS OF COPY OF REMOTE NAME
XPCERES PARAMETERS				
THIS PARAMATER LIST IS IDENTICAL TO THAT USED FOR XPCREQ				
EXCEPT THAT R/CODE UERCBYP HAS BEEN REPLACED BY UERCRESU				
VALID RETURN CODES FOR XPCERES ARE:				
UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING)				
UERCRESU EQU X'04' RESOURCE UNAVAILABLE				
UERCPURG 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
(50)	ADDRESS	4		RESERVED
(54)	ADDRESS	4		RESERVED
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				
UERCMEA EQU X'04' ENTRY POINT HAS BEEN MODIFIED				
UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPPCDS - AS DEFINED ABOVE
XFCFRIN PARAMETERS				
VALID RETURN CODES FOR XFCFRIN ARE:				
UERCNORM EQU X'00' NORMAL(DEFAULT)				
UERCBYP EQU X'04' BYPASS REQUEST				
UERCBYPL EQU X'08' BYPASS REQUEST AND KEEP MIRROR				
UERCPURG EQU X'20' PURGED				
MODIFICATIONS TO THE ARGS UEPTRANID THRU UEPPROG 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 (0)	END OF COMMON DOMAIN PARAMETERS
(40)	ADDRESS	4	UEP_FC_FUNCTION	address of a 1-byte function
	....	...1	UEP_FC_FUN_READ_INT0	
				"X'01"
	....	..1.	UEP_FC_FUN_READ_SET	
				"X'02"
	....	..11	UEP_FC_FUN_READ_UPDATE_INT0	
				"X'03"
	....	.1..	UEP_FC_FUN_READ_UPDATE_SET	
				"X'04"
	....	.1.1	UEP_FC_FUN_WRITE	"X'05"
	....	.11.	UEP_FC_FUN_REWRITE	"X'06"
	....	1...	UEP_FC_FUN_REWRITE_DELETE	
				"X'08"
	....	1.1.	UEP_FC_FUN_DELETE	"X'0A"
	....	1.11	UEP_FC_FUN_UNLOCK	"X'0B"
	....	11..	UEP_FC_FUN_START_BROWSE	
				"X'0C"
	....	11.1	UEP_FC_FUN_READ_NEXT_INT0	
				"X'0D"

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
.... 111.			UEP_FC_FUN_READ_NEXT_SET	"X'0E"
.... 1111			UEP_FC_FUN_READ_PREVIOUS_INT0	"X'0F"
...1			UEP_FC_FUN_READ_PREVIOUS_SET	"X'10"
...1 ...1			UEP_FC_FUN_READ_NEXT_UPDATE_INT0	"X'11"
...1 ..1.			UEP_FC_FUN_READ_NEXT_UPDATE_SET	"X'12"
...1 ..11			UEP_FC_FUN_READ_PREVIOUS_UPDATE_INT0	"X'13"
...1 ..1..			UEP_FC_FUN_READ_PREVIOUS_UPDATE_SET	"X'14"
...1 ..1.1			UEP_FC_FUN_RESET_BROWSE	"X'15"
...1 ..11.			UEP_FC_FUN_END_BROWSE	"X'16"
(44)	ADDRESS	4	UEP_FC_FILE_NAME	address of 8-character file name
(48)	ADDRESS	4	UEP_FC_BUFFER_P	address of fullword buffer address
(4C)	ADDRESS	4	UEP_FC_BUFFER_L	address of fullword buffer length
(50)	ADDRESS	4	UEP_FC_RECORD_P	address of fullword record address
(54)	ADDRESS	4	UEP_FC_RECORD_L	address of fullword record length
(58)	ADDRESS	4	UEP_FC_MAX_RECORD_L	address of fullword max record leng
(60)	ADDRESS	4	UEP_FC_RECORD_ID_P	address of fullword record id addr
(64)	ADDRESS	4	UEP_FC_RECORD_ID_L	address of halfword record id len
(68)	ADDRESS	4	UEP_FC_FULL_RECORD_ID_L	addr of halfword full rec id len
(6C)	ADDRESS	4	UEP_FC_RECORD_ID_TYPE	address of 1-byte RIDFLD type
.... ...1			UEP_FC_KEY	"X'01" VSAM KSDS or AIX PATH access
.... ..1.			UEP_FC_RBA	"X'02" VSAM ESDS or KSDS via RBA access
.... ..11			UEP_FC_RRN	"X'03" VSAM RRDS access
.... ..1..			UEP_FC_DEBKEY	"X'04" BDAM deblocking by key
.... ..1.1			UEP_FC_DEBREC	"X'05" BDAM deblocking by relative record
(70)	ADDRESS	4	UEP_FC_REQID	address of halfword value of REQID
(74)	ADDRESS	4	UEP_FC_NUMREC	address of fullword value of NUMREC
(78)	ADDRESS	4	UEP_FC_KEY_COMPARISON	address of 1-byte KEY COMP value
.... ...1			UEP_FC_GTEQ	"X'01" Key greater than equal comparison
.... ..1.			UEP_FC_EQUAL	"X'02" Key equal comparison
(7C)	ADDRESS	4	UEP_FC_GENERIC	address of 1-byte GENERIC value
.... ...1			UEP_FC_GENERIC_KEY	"X'01" Generic key
.... ..1.			UEP_FC_FULL_KEY	"X'02" Full key
(80)	ADDRESS	4	UEP_FC_MASS_INSERT	address of 1-byte MASS INSERT value
.... ...1			UEP_FC_SEQUENTIAL_WRITE	"X'01" VSAM sequential mode
.... ..1.			UEP_FC_DIRECT_WRITE	"X'02" VSAM direct mode
(84)	ADDRESS	4	UEP_FC_READ_INTEGRITY	address of 1-byte READ INTEGRITY
.... ...1			UEP_FC_CR	"X'01" VSAM consistent read integrity
.... ..1.			UEP_FC_FCT_VALUE	"X'02" VSAM read integrity as per FCTE
.... ..11			UEP_FC_NRI	"X'03" VSAM no read integrity
.... ..1..			UEP_FC_RR	"X'04" VSAM repeatable read integrity
(88)	ADDRESS	4	UEP_FC_TOKEN	address of fullword value of TOKEN
(8C)	ADDRESS	4	UEP_FC_SYSID	address of four byte area for SYSID
(90)	ADDRESS	4	UEP_FC_LENGTH_ERROR_CODE	address of 1-byte length error c
.... ...1			UEP_FC_LENGTH_OK	"X'01"
.... ..1.			UEP_FC_BUFFER_LEN_TOO_SMALL	"X'02"
.... ..11			UEP_FC_RECORD_LEN_TOO_LARGE	"X'03"
.... ..1..			UEP_FC_BUFFER_LEN_NOT_FILE_LEN	"X'04"
.... ..1.1			UEP_FC_RECORD_LEN_NOT_FILE_LEN	"X'05"

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
(94)	ADDRESS	4	UEP_FC_DUPLICATE_KEY_CODE	address of 1-byte dup key code
.... .1			UEP_FC_DUPLICATE_KEY	"X'01"
.... .1.			UEP_FC_NOT_DUPLICATE_KEY	"X'02"
(98)	ADDRESS	4	UEP_FC_ACCMETH_RETURN_CODE	address of 4-byte accmeth ret c
(9C)	ADDRESS	4	UEP_FC_RESPONSE	address of 1-byte response
.... .1			UEP_FC_RESPONSE_OK	"X'01" ok response
.... .1.			UEP_FC_RESPONSE_EXCEPTION	"X'02" exception response
.... .11			UEP_FC_RESPONSE_DISASTER	"X'03" disaster response
.... .1..			UEP_FC_RESPONSE_INVALID	"X'04" invalid response
.... .11.			UEP_FC_RESPONSE_PURGED	"X'06" purged response
(A0)	ADDRESS	4	UEP_FC_REASON	address of 1-byte reason
...1 .111			UEP_FC_REASON_DELETE_AFTER_READ_UPDATE	"X'17"
...1 1...			UEP_FC_REASON_DELETE_BEFORE_READ_UPDATE	"X'18"
...1 1.1.			UEP_FC_REASON_DUPLICATE_READ_UPDATE	"X'1A"
...1 1.11			UEP_FC_REASON_DUPLICATE_RECORD	"X'1B"
...1 11..			UEP_FC_REASON_DUPLICATE_REQID	"X'1C"
...1 11.1			UEP_FC_REASON_END_OF_FILE	"X'1D"
...1 1111			UEP_FC_REASON_FILE_DISABLED	"X'1F"
..1.			UEP_FC_REASON_FILE_NOT_OPEN	"X'20"
..1. .1.			UEP_FC_REASON_FILENOTFOUND	"X'22"
..1. .11			UEP_FC_REASON_FULL_KEY_WRONG_LENGTH	"X'23"
..1. .1..			UEP_FC_REASON_GENERIC_DELETE_NOT_KSDS	"X'24"
..1. .1.1			UEP_FC_REASON_GENERIC_KEY_TOO_LONG	"X'25"
..1. .11.			UEP_FC_REASON_ILLEGAL_KEY_TYPE_CHANGE	"X'26"
..1. .111			UEP_FC_REASON_INSUFFICIENT_SPACE	"X'27"
..1. 1.1.			UEP_FC_REASON_INVALID_UPDATE_TOKEN	"X'2A"
..1. 1.11			UEP_FC_REASON_IO_ERROR	"X'2B"
..1. 111.			UEP_FC_REASON_KEY_LENGTH_NEGATIVE	"X'2E"
..11 .1.1			UEP_FC_REASON_NO_VARIABLE_LENGTH	"X'35"
..11 .111			UEP_FC_REASON_NOTAUTH	"X'37"
..11 11..			UEP_FC_REASON_READPREV_IN_GENERIC_BROWSE	"X'3C"
..11 1111			UEP_FC_REASON_RECORD_NOT_FOUND	

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
	.1.. ..11		UEP_FC_REASON_ REWRITE_BEFORE_READ_UPDATE	"X'3F"
	.1.. .1..		UEP_FC_REASON_ RIDFLD_KEY_NOT_RECORD_KEY	"X'43"
	.1.1 .1..		UEP_FC_REASON_ UNKNOWN_REQID_ENDBR	"X'44"
	.1.1 .1.1		UEP_FC_REASON_ UNKNOWN_REQID_READNEXT	"X'54"
	.1.1 .11.		UEP_FC_REASON_ UNKNOWN_REQID_READPREV	"X'55"
	.1.1 .111		UEP_FC_REASON_ UNKNOWN_REQID_RESETBR	"X'56"
	.1.1 1..1		UEP_FC_REASON_ ACCMETH_REQUEST_ERROR	"X'57"
(A4)	ADDRESS	4		"X'59"
(A8)	ADDRESS	4	UEP_FC_M_RECORD_L	address of fullword modified key length
(AC)	ADDRESS	4	UEP_FC_M_RECORD_ID_L	address of halfword modified key length
<hr/> XFCFROUT PARAMETERS VALID RETURN CODES FOR XFCFROUT 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		
(60)	ADDRESS	4		
(64)	ADDRESS	4		
(68)	ADDRESS	4		
(6C)	ADDRESS	4		
(70)	ADDRESS	4		
(74)	ADDRESS	4		
(78)	ADDRESS	4		
(7C)	ADDRESS	4		
(80)	ADDRESS	4		
(84)	ADDRESS	4		
(88)	ADDRESS	4		
(8C)	ADDRESS	4		
(90)	ADDRESS	4		
(94)	ADDRESS	4		
(98)	ADDRESS	4		
(9C)	ADDRESS	4		
(A0)	ADDRESS	4		
	.... ..1		UEP_FC_REASON_ABEND	"X'01"
	.... .1.		UEP_FC_REASON_ BDAM_DELETE	"X'02"
	.... ..11		UEP_FC_REASON_ BDAM_LENGTH_CHANGE	"X'03"
	.... .1..		UEP_FC_REASON_ BDAM_KEY_CONVERSION	"X'04"
	.... .1.1		UEP_FC_REASON_ BDAM_READ_PREVIOUS	"X'05"
	.... .11.		UEP_FC_REASON_ BDAM_WRITE_MASS_INSERT	"X'06"
	.... .111		UEP_FC_REASON_ BROWSE_UPD_NOT_RLS	"X'07"
	.... 1...		UEP_FC_REASON_ CACHE_FAILURE	"X'08"
	.... 1..1		UEP_FC_REASON_ CFDT_CONNECT_ERROR	"X'09"
	.... 1.1.		UEP_FC_REASON_ CFDT_DISCONNECT_ERROR	"X'0A"
	.... 1.11		UEP_FC_REASON_ CFDT_INVALID_CONTINUATION	

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
	.... 11..		UEP_FC_REASON_ CFDT_POOL_FULL	"X0B"
	.... 11.1		UEP_FC_REASON_ CFDT_REOPEN_ERROR	"X0C"
	.... 111.		UEP_FC_REASON_ CFDT_SERVER_NOT_AVAILABLE	"X0D"
	.... 1111		UEP_FC_REASON_ CFDT_SERVER_NOT_FOUND	"X0E"
	...1		UEP_FC_REASON_ CFDT_SYSDERR	"X0F"
	...1 ...1		UEP_FC_REASON_ CFDT_TABLE_GONE	"X10"
	...1 ..1.		UEP_FC_ REASON_CHANGED	"X11"
	...1 .1..		UEP_FC_ REASON_CR_NOT_RLS	"X12"
	...1 .1.1		UEP_FC_REASON_ DATASET_BEING_COPIED	"X14"
	...1 .11.		UEP_FC_REASON_ DEADLOCK_DETECTED	"X15"
	...1 1..1		UEP_FC_REASON_ DISASTER_PERCOLATION	"X16"
	...1 111.		UEP_FC_REASON_ ESDS_DELETE	"X19"
	..1. ...1		UEP_FC_REASON_ FILE_NOT_RECOVERABLE	"X1E"
	..1. 11..		UEP_FC_ REASON_ISCINVREQ	"X21"
	..1. 11.1		UEP_FC_REASON_ ISC_NOT_SUPPORTED	"X2C"
	..1. 1111		UEP_FC_ REASON_KEY_STOLEN	"X2D"
	..11		UEP_FC_ REASON_LOADING	"X2F"
	..11 ...1		UEP_FC_ REASON_LOCKED	"X30"
	..11 ..1.		UEP_FC_ REASON_LOST_LOCKS	"X31"
	..11 ..11		UEP_FC_REASON_ LOCK_STRUCTURE_FULL	"X32"
	..11 .1..		UEP_FC_REASON_ NOT_IN_SUBSET	"X33"
	..11 .11.		UEP_FC_REASON_ NOSUSPEND_NOT_RLS	"X34"
	..11 1..1		UEP_FC_REASON_ PREVIOUS_RLS_FAILURE	"X36"
	..11 1.1.		UEP_FC_REASON_ RBA_ACCESS_TO_RLS_KSDS	"X39"
	..11 1.11		UEP_FC_REASON_ READ_NOT_AUTHORISED	"X3A"
	..11 11.1		UEP_FC_REASON_ RECLEN_EXCEEDS_LOGGER_BFSZ	"X3B"
	..11 111.		UEP_FC_REASON_ RECORD_BUSY	"X3D"
	..1.		UEP_FC_REASON_ REMOTE_INVREQ	"X3E"
	..1. ...1		UEP_FC_REASON_ RESTART_FAILED	"X40"
				"X41"

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
.1.. .1.1			UEP_FC_REASON_RLS_DEADLOCK_DETECTED	"X'45"
.1.. .11.			UEP_FC_REASON_RLS_DISABLED	"X'46"
.1.. .111			UEP_FC_REASON_RLS_FAILURE	"X'47"
.1.. 1...			UEP_FC_REASON_RR_NOT_RLS	"X'48"
.1.. 1..1			UEP_FC_REASON_SECURITY_FAILURE	"X'49"
.1.. 1.1.			UEP_FC_REASON_SELF_DEADLOCK_DETECTED	"X'4A"
.1.. 1.11			UEP_FC_REASON_SERVREQ_VIOLATION	"X'4B"
.1.. 11..			UEP_FC_REASON_SHIP	"X'4C"
.1.. 11.1			UEP_FC_REASON_STORE_FAIL	"X'4D"
.1.. 111.			UEP_FC_REASON_SUPPRESSED	"X'4E"
.1.. 1111			UEP_FC_REASON_SYSDERR	"X'4F"
.1.1			UEP_FC_REASON_TABLE_FULL	"X'50"
.1.1 ...1			UEP_FC_REASON_TABLE_TOKEN_INVALID	"X'51"
.1.1 ..1.			UEP_FC_REASON_TIMEOUT	"X'52"
.1.1 ..11			UEP_FC_REASON_TOO_MANY_CFDTS_IN_UOW	"X'53"
.1.1 1...			UEP_FC_REASON_UPDATE_NOT_AUTHORISED	"X'58"
.1.1 1.1.			UEP_FC_REASON_SHIPPED_SECURITY_FAILURE	"X'5A"
(A4)	ADDRESS	4		
(A8)	ADDRESS	4		
XTSQRIN PARAMETERS				
VALID RETURN CODES FOR XTSQRIN ARE:				
UERCNORM EQU X'00' NORMAL(DEFAULT)				
UERCPURG EQU X'20' PURGED				
(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_INT0	"X'03" read_into function
	.... .1..		UEP_TS_FUN_READ_SET	"X'04" read_set function
	.... ..1.1		UEP_TS_FUN_READ_NEXT_INT0	"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

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
(58)	ADDRESS	4		
(5C)	ADDRESS	4		
XTSQROUT PARAMETERS VALID RETURN CODES FOR XTSQROUT 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	
				"X'06" purged response
XTSPTIN PARAMETERS VALID RETURN CODES FOR XTSPTIN 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	
				"X'02" rewrite function
	.... ..11		UEP_TS_FUN_GET	"X'03" read_into function
	.... .1..		UEP_TS_FUN_GET_SET	"X'04" read_set function
	.... .1.1		UEP_TS_FUN_GET_RELEASE	
				"X'05" read_next_into function
	.... .11.		UEP_TS_FUN_GET_RELEASE_SET	
				"X'06" read_next_into function
	.... .111		UEP_TS_FUN_RELEASE	"X'07" delete function
(44)	ADDRESS	4		
(48)	ADDRESS	4		
(4C)	ADDRESS	4		
(50)	ADDRESS	4		
(54)	ADDRESS	4		
(58)	ADDRESS	4		
(5C)	ADDRESS	4		
XTSPTOUT PARAMETERS VALID RETURN CODES FOR XTSPTOUT 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		
XTSREQ PARAMETERS VALID RETURN CODES FOR XTSREQ 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	UEPTQOK	ADDRESS OF TOKEN TO PASS TO XTSREQC
(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
(50)	ADDRESS	4		RESERVED
XTSREQC PARAMETERS VALID RETURN CODES FOR XTSREQC ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCPURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
(34)	ADDRESS	4		UEPTQTOK - 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
(50)	ADDRESS	4	UEP_TS_ REMOTE_SYSTEM	ADDRESS OF COPY OF REMOTE SYSTEM
<hr/>				
XTDREQ PARAMETERS				
VALID RETURN CODES FOR XTDREQ 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
<hr/>				
equates for TD request byte				
....	...1		UEPTDPUT	"1" PUT request
....	..1.		UEPTDGET	"2" GET request
....	..11		UEPTDPUR	"3" PURGE request
<hr/>				
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)
<hr/>				
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
<hr/>				
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		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
(50)	ADDRESS	4		RESERVED
(54)	ADDRESS	4		RESERVED
<hr/>				
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		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
(50)	ADDRESS	4	UEP_TD_ REMOTE_SYSTEM	ADDRESS OF COPY OF REMOTE SYSTEM
(54)	ADDRESS	4	UEP_TD_REMOTE_NAME	ADDRESS OF COPY OF REMOTE NAME

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
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)				
XNQEREQ PARAMETERS VALID RETURN CODES FOR XNQEREQ ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCBYE EQU X'04' BYPASS(IGNORE THIS REQUEST) UERCSCPE EQU X'08' SCOPE provided UERCPCUR EQU X'20' PURGED				
(30)	ADDRESS	4		UEPCLPS - AS DEFINED ABOVE
(34)	ADDRESS	4	UEPNQTOK	ADDRESS OF TOKEN TO PASS TO XNQEREQC
(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
XNQEREQC PARAMETERS VALID RETURN CODES FOR XNQEREQC ARE: UERCNORM EQU X'00' NORMAL(CONTINUE PROCESSING) UERCPCUR 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		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
XXRSTAT PARAMETERS VALID RETURN CODES FOR XXRSTAT ARE: UERCNORM EQU X'00' NORMAL(TAKE SYSTEM ACTION) UERCBOIG EQU X'04' IGNORE UERCABNO EQU X'08' ABEND CICS WITHOUT DUMP UERCABDU EQU X'0C' ABEND CICS WITH DUMP UERCPCUR 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 UERCWCH 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 UERCWCH 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
XXDTO PARAMETERS VALID RETURN CODES FOR XXDTO ARE: UERCNOAC EQU X'00' NO ACTION UERCWCH 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 UERCSTRJ EQU X'04' Reject record UERCSTOP EQU X'08' Optimise data table add (SDT only) UERCSTEX EQU X'0C' Extension for data tables (SDT only)				
(30)	ADDRESS	4	UEPDTP	ADDRESS OF DATA TABLE parameter list

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
XDTAD PARAMETERS VALID RETURN CODES FOR XDTAD 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
XDTLC PARAMETERS VALID RETURN CODES FOR XDTLC 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
XISLCLQ PARAMETERS VALID RETURN CODES FOR XISLCLQ ARE: UERCSYS EQU X'00' TAKE SYSTEM ACTION UERQCQUE 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	UEPMRLEN	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	0	UEPSINT	"C'INT" INTERVAL STATISTICS
(48)	CHARACTER	0	UEPSREQ	"C'REQ" REQUESTED STATISTICS
(48)	CHARACTER	0	UEPSEOD	"C'EOD" END OF DAY STATISTICS
(48)	CHARACTER	0	UEPSUSS	"C'USS" UNSOLICITED STATISTICS
(48)	CHARACTER	0	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

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
	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	UEPXDXTN	Address of DUDT_TRANSACTION_DUMP
	.... .1		UEPXDYES	"X'1" DUDT_YES
	.... .1.		UEPXDNO	"X'2" DUDT_NO
(54)	ADDRESS	4	UEPXDYSYS	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
<p>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.</p>				
(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
<p>XDUCLSE PARAMETERS VALID RETURN CODES FOR XDUCLSE ARE: UERCNORM EQU X'00' NORMAL UERCSWCH EQU X'04' DON'T SWITCH AUTOSWITCH OFF. UERCPURG EQU X'20' PURGED</p>				
(40)	ADDRESS	4	UEPDMPDD	ADDRESS OF DUMP DATASET DDNAME
(44)	ADDRESS	4	UEPDMPDSN	ADDRESS OF DUMP DATASET DSNAME
<p>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</p>				
(40)	ADDRESS	4	UEPDMPFC	ADDRESS OF XDUOUT FUNCTION CODE
<p>EQUATES FOR XDUOUT FUNCTION CODE</p>				
	.... .1.		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
<p>UEPDMPBF AND UEPDMPLEN ARE ZERO WHEN UEPDMPFC IS UEPDMPRE OR UEPDMPAB</p>				
(44)	ADDRESS	4	UEPDMPBF	ADDRESS OF DUMP BUFFER
(48)	ADDRESS	4	UEPDMPLEN	ADDRESS OF DUMP BUFFER LENGTH
<p>XDUREQC PARAMETERS ONLY VALID RETURN CODE FOR XDUREQ IS: UERCNORM EQU X'00' NORMAL check parm list hasn't already been generated by XDUREQ</p>				
(70)	ADDRESS	4	UEPDRESP	Address of DUDU_RESPONSE
<p>Equates for dump response code</p>				
	.... .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
<p>Equates for dump reason code</p>				
	.... .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
<p>XDSBWT PARAMETERS VALID RETURN CODES FOR XDSBWT ARE: UERCNORM EQU X'00' NORMAL UERCSSWAP 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</p>				
(30)	ADDRESS	4		RESERVED

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
(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
	.... ..111		UEIDCONN	"7" Connection
	.... 1...		UEIDMODE	"8" Modename
	.... 1..1		UEIDSESS	"9" Session
	.... 1.1.		UEIDFILE	"10" File
	.... 1.11		UEIDPART	"11" Partner
	.... 11..		UEIDTCLS	"12" TCLASS
	.... 11.1		UEIDAITM	"13" Autoinstall terminal model
	.... 111.		UEIDFECO	"14" FEPI Connection
	.... 1111		UEIDFENO	"15" FEPI Node
	.... 1... ..		UEIDFEPO	"16" FEPI Pool
	.... 1..1 ..		UEIDFEPS	"17" FEPI Propertyset
	.... 1..1 ..		UEIDFETA	"18" FEPI Target
	.... 1..11		UEIDTDQU	"19" TD queue
	.... 1..1.		UEIDJNMD	"20" Journalmodel
	.... 1..1.		UEIDJNNM	"21" Journalname
	.... 1..11.		UEIDSTRM	"22" Log Stream name
	.... 1..111		UEIDDB2C	"23" DB2 Connection (DB2CONN)
	.... 1... ..		UEIDDB2E	"24" DB2 Entry (DB2ENTRY)
	.... 1..1 ..		UEIDDB2T	"25" DB2 Transaction (DB2TRAN)
	.... 1..11		UEIDTSMO	"27" Tsmodel
	.... 1..11.		UEIDPRTY	"28" Processtype
	.... 1..1.		UEIDNQRN	"26" NQR name
	.... 1..11		UEIDRQMD	"29" Request model (IIOF)
	.... 1..11.		UEIDTCPS	"30" Tcpiptype
	.... 1..111		UEIDDOCT	"31" Doctemplate
	.... 1..1 ..		UEIDCSRV	"32" EJ CorbaServer
	.... 1..1 ..		UEIDDJAR	"33" EJ DJar
	.... 1..1 ..		UEIDBEAN	"34" EJ Bean
	.... 1..11		UEIDURIM	"35" URIMAP
	.... 1..1 ..		UEIDWEBS	"36" WebService
(54)	ADDRESS	4	UEPIDREC	Recoverability This indicates that:
	.... ..1		UEIDKEEP	"1" the resource will be recovered
	.... ..1.		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		UEATFND	"1" Transaction was found
	.... ..1.		UEATNFND	"2" Transaction was not found
(54)	ADDRESS	4	UEPATST	Address of trandef state (byte) Possible values of the trandef state:
	.... ..1		UEATENAB	"1" Transaction is enabled
	.... ..1.		UEATDISA	"2" Transaction is disabled
(58)	ADDRESS	4	UEPATTK	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		UEPFAIN	"1" Initialise request
	.... ..1.		UEPFATU	"2" Tidy Up request
(34)	ADDRESS	4	UEPFATUT	Address of Tidy Up type byte Possible values of the type byte:
	.... ..1		UEPFANTU	"1" Normal tidy up
	.... ..1.		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		UEPFABR	"1" 3270 Bridge facility
(40)	ADDRESS	4	UEPFAUAA	Address of Facility User Area
(44)	ADDRESS	4	UEPFAUAL	Address of User Area length byte
(48)	ADDRESS	4	UEPFATK	Address of Facility Token

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
(4C)	ADDRESS	4	UEPFAMCH	Address of Start Mechanism byte Possible values of UEPFAMCH
	.... ..1		UEPFASTA	"1" Started using START BREXIT
	.... ..1.		UEPFALNK	"2" Started using LINK
(50)	ADDRESS	4	UEPFAREG	Address of Region Type Byte Possible values of UEPFAREG
	.... ..1		UEPFAROU	"1" Router for Bridge Facility
	.... ..1.		UEPFAAOR	"2" AOR for Bridge Facility
XDLPRE PARAMETERS VALID RETURN CODES FOR XDLPRE 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
EQUATES FOR TYPE OF REQUEST BYTE				
	11.. ..1.1		UEPCEXEC	"C'E" EXEC REQUEST
	11.. ..11		UEPCCALL	"C'C" CALL REQUEST
	11.. ..11.		UEPCSHP	"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		UEPIOA1	"X'01" IO AREA EXISTS
(40)	ADDRESS	4	UEPIOA	ADDRESS OF IO AREA
(44)	ADDRESS	4	UEPPSBNX	ADDRESS OF PSB EXISTENCE FLAG
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	UEPCTYPE - AS DEFINED ABOVE
(34)	ADDRESS	4	UEPAPLIST	UEPAPLIST - AS DEFINED ABOVE
(38)	ADDRESS	4	UEPLANG	UEPLANG - AS DEFINED ABOVE
(3C)	ADDRESS	4	UEPIOAX	UEPIOAX - AS DEFINED ABOVE
(40)	ADDRESS	4	UEPIOA	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	UEPINSN	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 UERCCANC 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

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
(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	TERMIN 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	0	UEPSZNOA	"X'820E" AP NOOP
(44)	BITSTRING	0	UEPSZOAL	"X'8210" ALLOCATE
(44)	BITSTRING	0	UEPSZOCF	"X'8212" CONVERSE FORMATTED
(44)	BITSTRING	0	UEPSZOCD	"X'8214" CONVERSE DATASTREAM
(44)	BITSTRING	0	UEPSZOXC	"X'8216" EXTRACT CONV
(44)	BITSTRING	0	UEPSZOXF	"X'8218" EXTRACT FIELD
(44)	BITSTRING	0	UEPSZOXS	"X'821A" EXTRACT STSN
(44)	BITSTRING	0	UEPSZOFR	"X'821C" FREE
(44)	BITSTRING	0	UEPSZOSU	"X'821E" ISSUE
(44)	BITSTRING	0	UEPSZORF	"X'8220" RECEIVE FORMATTED
(44)	BITSTRING	0	UEPSZORD	"X'8222" RECEIVE DATASTREAM
(44)	BITSTRING	0	UEPSZOSF	"X'8224" SEND FORMATTED
(44)	BITSTRING	0	UEPSZOSD	"X'8226" SEND DATASTREAM
(44)	BITSTRING	0	UEPSZOST	"X'8228" START
(44)	BITSTRING	0	UEPSZSDN	"X'8402" Normal Shutdown
(44)	BITSTRING	0	UEPSZSDI	"X'8404" Immediate Shutdown
(44)	BITSTRING	0	UEPSZSDF	"X'8406" Forced Shutdown
(44)	BITSTRING	0	UEPSZEOT	"X'8408" CICS End of Task
(44)	BITSTRING	0	UEPSZSDF	"X'840E" SP NOOP
(44)	BITSTRING	0	UEPSZOQY	"X'8422" INQUIRE PROPERTYSET
(44)	BITSTRING	0	UEPSZOIY	"X'8428" INSTALL PROPERTYSET
(44)	BITSTRING	0	UEPSZODY	"X'8430" DISCARD PROPERTYSET
(44)	BITSTRING	0	UEPSZOQN	"X'8442" INQUIRE NODE
(44)	BITSTRING	0	UEPSZOTN	"X'8444" SET NODE
(44)	BITSTRING	0	UEPSZOIN	"X'8448" INSTALL NODE
(44)	BITSTRING	0	UEPSZOAD	"X'844A" ADD POOL
(44)	BITSTRING	0	UEPSZODE	"X'844C" DELETE POOL
(44)	BITSTRING	0	UEPSZODN	"X'8450" DISCARD NODE
(44)	BITSTRING	0	UEPSZOQP	"X'8462" INQUIRE POOL
(44)	BITSTRING	0	UEPSZOTP	"X'8464" SET POOL
(44)	BITSTRING	0	UEPSZOIP	"X'8468" INSTALL POOL
(44)	BITSTRING	0	UEPSZODP	"X'8470" DISCARD POOL
(44)	BITSTRING	0	UEPSZOQT	"X'8482" INQUIRE TARGET
(44)	BITSTRING	0	UEPSZOTT	"X'8484" SET TARGET
(44)	BITSTRING	0	UEPSZOIT	"X'8488" INSTALL TARGET
(44)	BITSTRING	0	UEPSZODT	"X'8490" DISCARD TARGET
(44)	BITSTRING	0	UEPSZOQC	"X'84A2" INQUIRE CONNECTION
(44)	BITSTRING	0	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				
UERCPCURG 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				
UERCPCURG EQU X'20' PURGED				
(30)	ADDRESS	4		UEPPCDS - AS DEFINED ABOVE
(34)	ADDRESS	4		UEPTACB - AS DEFINED ABOVE
XEIIN PARAMETERS				
VALID RETURN CODES FOR XEIIIN ARE:				
UERCNORM EQU X'00' NORMAL(DEFAULT)				
UERCPCURG 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

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
(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
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
XSSEX PARAMETERS VALID RETURN CODES FOR XSSEX ARE: UERCPREV EQU X'04' PREVIOUS SIGNON BEHAVIOR				
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
....	..1.		UEPSNPSS	"2" PS signon successful
....	..11		UEPSNPSF	"3" PS signon failed
equates for Signon/off flag byte2				
....	....		UEPSNNML	"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

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
(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
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 UENBWBK 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				
(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
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				
(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
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				
(30)	ADDRESS	4	UEPOLOGR	ADDRESS OF OVERRIDEN LOG RECORD
(34)	ADDRESS	4	UEPODSN	ADDRESS OF OVERRIDEN DATA SET
XFCBOUT PARAMETERS THE ONLY VALID RETURN CODE FOR XFCBOUT IS: UERCNORM EQU X'00' CONTINUE PROCESSING				
(30)	ADDRESS	4	UEPFLOGR	ADDRESS OF FC LOG RECORD
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				
(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

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
XLGWBC PARAMETERS VALID RETURN CODES FOR XLGWBC ARE: UERCNORM EQU X'00' NORMAL				
(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	
....	.11.		UEP_LG_FUN_TERM_	"X'05" terminate function, called when the log is disconnected normally but there is a possibility that a gap exists
			LOG_OK_NO_GAP	
....	.111		UEP_LG_FUN_GET_	"X'06" terminate function, called when the log is disconnected normally and there is no gap
			DELETE_POINT	
				"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)

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
(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
....	.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	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	UEPBMTCT - AS DEFINED ABOVE
(34)	ADDRESS	4	UEPEXECB	UEPEXECB - AS DEFINED ABOVE
(38)	ADDRESS	4	UEPBMCNT	UEPBMCNT - AS DEFINED ABOVE
(3C)	ADDRESS	4	UEPBMTAB	UEPBMTAB - AS DEFINED ABOVE
XWBOPEN PARAMETERS VALID RETURN CODES FOR XWBOPEN ARE: UERCNORM EQU X'00' INITIALISATION SUCCESSFUL UECBARR EQU X'04' REMOTE HOST NAME IS BARRED UECPROX EQU X'08' PROXY INFORMATION PROVIDED UERCERR EQU X'0C' ERROR OCCURRED IN EXIT PROCESSING check parm list hasn't already been generated by XWBOPEN				
(40)	ADDRESS	4	UEPHOST	ADDRESS OF NAME OF HOST
(44)	ADDRESS	4	UEPHOSTL	ADDRESS OF HALFWORD LENGTH OF HOST
(48)	ADDRESS	4	UEPPROXY	ADDRESS OF ADDRESS OF PROXY
(4C)	ADDRESS	4	UEPPROXYL	ADDRESS OF HALFWORD LENGTH OF PROXY
XWBSNDO PARAMETERS VALID RETURN CODES FOR XWBSNDO ARE: UERCNORM EQU X'00' PATH PERMITTED UECBARR EQU X'04' PATH NOT PERMITTED check parm list hasn't already been generated by XWBSNDO				
UEPHOST DS A ADDRESS OF NAME OF HOST UEPHOSTL DS A ADDRESS OF HALFWORD LENGTH OF HOST UEPHOST AND UEPHOSTL PREVIOUSLY DEFINED				
(48)	ADDRESS	4	UEPPATH	ADDRESS OF PATH SPECIFIED ON SEND
(4C)	ADDRESS	4	UEPPATHL	ADDRESS OF HALFWORD LENGTH OF PATH
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
(4C)	FULLWORD	4	UEPEPEND (0)	END OF TYPE = EP DSECT

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
	1.1. 11..		UEPEPLEN	"UEPEPEND-UEPEXN"
RETURN CODE EQUATES				
All RC Equates except UERCNORM which is above				
	.... ....		UERCSTYS	"X'00" TAKE SYSTEM ACTION
	.... ....		UERCSTAC	"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..		UERCSTOK	"X'04" Quit TD processing - return "normal" to caller
	.... .1..		UERCSTWCH	"X'04" SWITCH TO ALTERNATE OR DON'T SWITCH AUTOSWITCH OFF.
	.... .1..		UERCSTBY	"X'04" BYPASS (NO ACTION)
	.... 1...		UERCSTBYPL	"X'08" BYPASS AND KEEP MIRROR
	.... .1..		UERCSTRESU	"X'04" Resource unavailable for request
	.... .1..		UERCSTCOIG	"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...		UERCSTCIGN	"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
	.... ....		UERCSTCAQUE	"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
	.... 1...		UERCSTSCPE	"X'08" Scope returned
	.... .1..		UERCSTPREV	"X'04" Pre-2.1 SIGNON behavior
	.... ....		UERCSTNOCA	"X'00" Abend task ASRB, don't cancel exits
	.... .1..		UERCSTCCANC	"X'04" Abend task ASRB, cancel exits
	.... 1...		UERCSTCCICS	"X'08" Abend CICS
	.... .1..		UERCSTBARR	"X'04" Remote host name is barred
	.... 1...		UERCSTPROX	"X'08" Proxy information provided
	.... 11..		UERCSTERR	"X'0C" Error occurred in exit processing
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.		UERTLUW	"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

UEPAR

Offset Hex	Type	Len	Name (Dim)	Description
....	.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..	....		UERTCMM	"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)
<hr/>				
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"
....	.111		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"
....	.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..		XTSQROUT	"33"
....	.1..		XTSPTIN	"34"
....	.1..		XZCIN	"35"
....	.1..		XZCOUT	"36"
....	.1..		XZCATT	"37"
....	.1..		XZCOUT1	"38"
....	.1..		XXRSTAT	"39"
....	.1..		XXDFA	"40"
....	.1..		XXDFB	"41"
....	.1..		XXDTO	"42"
....	.1..		XSTOUT	"43"
....	.1..		XDLIPRE	"44"
....	.1..		XDLIPOST	"45"
....	.1..		XFCSREQ	"46"
....	.1..		XEIIIN	"47"
....	.11		XEIOUT	"48"
....	.11		XALTENF	"49"
....	.11		XICTENF	"50"
....	.11		XDTAD	"51"
....	.11		XDTRD	"52"
....	.11		XDTLC	"53"
....	.11		XSTERM	"54"
....	.11		XSRAB	"55"
....	.11		XFCSREQC	"56"
....	.11		XSZBRQ	"57"
....	.11		XSZARQ	"58"
....	.11		XISCONA	"59"
....	.11		XRSINDI	"60"
....	.11		XXMATT	"61"
....	.11		XZIQUE	"62"
....	.11		XTSEREQ	"63"
....	.1..		XTSEREQC	"64"
....	.1..		XTDEREQ	"65"
....	.1..		XTDEREQC	"66"
....	.1..		XICEREQ	"67"
....	.1..		XICEREQC	"68"
....	.1..		XALCAID	"69"
....	.1..		XSNON	"70"

UEPB

Offset Hex	Type	Len	Name (Dim)	Description
.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			XFCLEDEL	"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			XSNEX	"95"
.11.			XFCFRIN	"96"
.11. ...1			XFCFROUT	"97"
.11. ..1.			XICERES	"98"
.11. ..11			XPCERES	"99"
.11. 1..			XWBOPEN	"100"
.11. .1..1			XWBSNDO	"101"
.11. .11..			XINDT1	"102"
.11. .111			XINDT2	"103"
.11. 1...			XLGWBC	"104"

UEPB User Exit Program Block

CONTROL BLOCK NAME = DFHUEPBC
 (progeny of DFHUEPBC)
 DESCRIPTIVE NAME = CICS (UE) User Exit Program Block DSECT
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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	112	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	

UEPB

Offset Hex	Type	Len	Name (Dim)	Description
(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)	BIT(8)	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)	BIT(8)	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
	.... .1..		UEIDWAIT	X'04' indoubtwait specified
	.... ..1.		UEPURGE	X'02' purgeable specified
	.... ...1		*	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	EPBPGPMM	GLUE's program_mode
(68)	UNSIGNED	4	EPBTPGMT	TRUE's program_modetoken
(6C)	FULLWORD	4	EPBPUCNT	Exit program use count
(70)	CHARACTER	0	EPBEND	End

Constants

Len	Type	Value	Name	Description
Length of the EPB control block				
2	DECIMAL	112	EPBLEN	EPB length

UEPL

UEPL User Exit Program Link

CONTROL BLOCK NAME = DFHUEPLC
(progeny of DFHUEPLC)
DESCRIPTIVE NAME = CICS (UE) User Exit Program Link DSECT
@BANNER_START 02
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@BANNER_END
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	EPLENTIM	TIME EPL BUILT
(10)	ADDRESS	4	EPLPBA	ADDRESS OF EPB
(14)	FULLWORD	4	EPLINST	INSTANCE NUMBER
(18)	CHARACTER	0	EPLEND	END

UETE User Exit Table Entry

CONTROL BLOCK NAME = DFHUETEC (progeny of DFHUETEC)
DESCRIPTIVE NAME = CICS (UE) User Exit Table Entry DSECT
@BANNER_START 02
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@BANNER_END
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)	BIT(8)	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	0	UETEEND	

Constants

Len	Type	Value	Name	Description
Possible values of UETEFLG1				
1	DECIMAL	0	UETEAP	EXIT IN AP DOMAIN
1	DECIMAL	255	UETEALL	EXIT IN ALL DOMAINS (POSSIBLY)

UETH

UETH User Exit Table Header

CONTROL BLOCK NAME = DFHUETHC
(progeny of DFHUETHC)
DESCRIPTIVE NAME = CICS (UE) User Exit Table Header DSECT
@BANNER_START 02
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@BANNER_END
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	Type	Len	Name (Dim)	Description
Hex				
(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)	UNSIGNED	4	UETHFLAG	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	0	UETHEND	

URL User supplied route list entry

```

@BANNER_START 02
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@BANNER_END
MODULE NAME = DFHURLDS
DESCRIPTIVE NAME = CICS USER-SUPPLIED ROUTE LIST ENTRY
COPYBOOK DFHURLDS.
All programs which issue DFHBS 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)	STRUCTURE	0	DFHURLDS	DUMMY SECTION - USER'S ROUTE LIST
(0)	CHARACTER	4	URLTRMID	TERMINAL IDENTIFICATION
(4)	CHARACTER	2	URLLDCMN	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	0	URLEND	"X'FFFF" END OF URL
(0)	BITSTRING	0	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

VSWA

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)	STRUCTURE	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 = DFHVSWAS
DESCRIPTIVE NAME = CICS/ESA (FC) VSAM WORK AREA
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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	*	DFHVSWA	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

VSWA

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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.	Direct search access
			..1.	Sequential access
			...1	Reserved
			.... 1...	VSWAASY
			.... .1.	Reserved
			.... ..1	VSWAECBS
(31)	UNSIGNED	1	VSWAOPT2	Option code byte 2
			1111 11..	Reserved
			.... ..1	VSWAUPD
			.... ..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)	BIT(16)	2	VSWASTLR	STARTBR request codes
			1... ..	VSWABGEN
			.1.	VSWABRBA
			..1.	VSWABIP
			...1	VSWA_SEQUENTIAL
			.... 1...	Reserved
			.... .1.	VSWA_DT_WAIT
			.... ..1	VSWA_0890_WAIT
			.... ..1	VSWA_INFLIGHT
(6D)	BIT(8)	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
			.1.	VSWABRZI
			..1.	VSWAMASS
			...1	VSWAFRST

VSWA

Offset Hex	Type	Len	Name (Dim)	Description
	.... 1...		VSWASTRG	VSAM string acquired
	.... .1..		*	Reserved
	.... ..1.		VSWALSRP	Path browse request to LSR file.
	.... ...1		VSWARLO	Record lock only update
(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)	BIT(8)	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)	BIT(8)	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

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This copybook defines the parameter lists which are passed to the 2 functions (DECODE and ENCODE) of the user replaceable converter program.

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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	

WBCDC

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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)  
A pointer to the HTTP request sent by the client.  
  
< 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.  
  
.... continued
```

... continuation

< decode_ http_resource_ptr > (input)
 Pointer to the CICS resource requested by the client. In HTTP protocol 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.

< 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 > (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)
 This parameter shows how many times the decode and encode converter functions have been executed in the current CWI execution. It is useful when looping back from encode.

Offset Hex	Type	Len	Name (Dim)	Description
(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	

WBCDC

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	

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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

< 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)
This parameter shows how many times the decode and encode converter functions have been executed in the current CWI execution. It is useful when looping back from encode.

Offset Hex	Type	Len	Name (Dim)	Description
(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_	
(1C)	CHARACTER	8	INPUT_DATA_LEN	
			ENCODE_USER_TOKEN	

WBCLC

Offset Hex	Type	Len	Name (Dim)	Description
(24)	FULLWORD	4	ENCODE_ENTRY_COUNT	

WBCLC Web client parameter list

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	160	DFHWBCLI_ARG	
(0)	UNSIGNED	1	WBCLI_VERSION_NO	Parameter list version
(1)	UNSIGNED	1	WBCLI_FUNCTION	Function requested
(2)	UNSIGNED	1	WBCLI_METHOD	HTTP method requested
(3)	BIT(8)	1	WBCLI_FLAGS	Miscellaneous flags
	1...		WBCLI_OFFSET_MODE	Pointers are commarea offsets
	.1..		WBCLI_DOCUMENT	Request body is CICS document
	..1.		WBCLI_USE_PROXY	Request is via a proxy
	...1		WBCLI_SET_RESP_BUFFER	
	.... 11..		*	CICS will get response buffer
	.... ..1.		WBCLI_NATIVE_REQUEST_BODY	Reserved
				Don't translate request
	.... ..1		WBCLI_NATIVE_RESPONSE_BODY	
				Don't translate response
(4)	HALFWORD	2	WBCLI_RESPONSE	Function response code
(6)	HALFWORD	2	WBCLI_REASON	Function reason code
(8)	CHARACTER	8	WBCLI_SESSION_TOKEN	Session token
(10)	ADDRESS	4	WBCLI_URL_PTR	Address of requested URL
(14)	FULLWORD	4	WBCLI_URL_LEN	Length of requested URL
(18)	ADDRESS	4	WBCLI_PROXY_URL_PTR	Address of proxy URL
(1C)	FULLWORD	4	WBCLI_PROXY_URL_LEN	Length of proxy URL
(20)	ADDRESS	4	WBCLI_HEADER_PTR	Address of request headers
(24)	FULLWORD	4	WBCLI_HEADER_LEN	Length of request headers
(28)	CHARACTER	16	WBCLI_REQUEST_DOCTOKEN	Request body document token
(28)	CHARACTER	8	WBCLI_REQUEST_BODY	Request body buffer structure
(28)	ADDRESS	4	WBCLI_REQUEST_BODY_PTR	Address of request body
(2C)	FULLWORD	4	WBCLI_REQUEST_BODY_LEN	Length of request body
(38)	CHARACTER	8	WBCLI_RESPONSE_BODY	Response buffer structure
(38)	ADDRESS	4	WBCLI_RESPONSE_BODY_PTR	Address of response buffer
(3C)	FULLWORD	4	WBCLI_RESPONSE_BODY_LEN	Length of response buffer
(40)	CHARACTER	40	WBCLI_MEDIATYPE	IANA media type of body
(68)	CHARACTER	40	WBCLI_CHARSET	IANA charset of body
(90)	CHARACTER	10	WBCLI_HOST_CODEPAGE	EBCDIC codepage of CICS host
(9A)	CHARACTER	3	*	Reserved
(9D)	CHARACTER	3	WBCLI_HTTP_STATUS_CODE	HTTP status code
(A0)	CHARACTER	0	*	

WBCLC

Constants

Len	Type	Value	Name	Description
1	DECIMAL	1	WBCLI_VERSION_CURRENT	
1	DECIMAL	0	WBCLI_FUNCTION_CONVERSE	
1	DECIMAL	1	WBCLI_FUNCTION_SEND	
1	DECIMAL	2	WBCLI_FUNCTION_RECEIVE	
1	DECIMAL	3	WBCLI_FUNCTION_INQUIRE_PROXY	
1	DECIMAL	4	WBCLI_FUNCTION_CLOSE	
1	DECIMAL	1	WBCLI_METHOD_GET	
1	DECIMAL	2	WBCLI_METHOD_POST	
1	DECIMAL	3	WBCLI_METHOD_HEAD	
1	DECIMAL	4	WBCLI_METHOD_PUT	
1	DECIMAL	5	WBCLI_METHOD_DELETE	
1	DECIMAL	6	WBCLI_METHOD_LINK	
1	DECIMAL	7	WBCLI_METHOD_UNLINK	
1	DECIMAL	8	WBCLI_METHOD_REQUEUE	
1	DECIMAL	9	WBCLI_METHOD_OPTIONS	
1	DECIMAL	10	WBCLI_METHOD_TRACE	
2	DECIMAL	0	WBCLI_RESPONSE_OK	
2	DECIMAL	4	WBCLI_RESPONSE_EXCEPTION	
2	DECIMAL	8	WBCLI_RESPONSE_DISASTER	
2	DECIMAL	1	WBCLI_REASON_INVALID_URL	
2	DECIMAL	2	WBCLI_REASON_INVALID_HEADER	
2	DECIMAL	3	WBCLI_REASON_INVALID_DOCUMENT	
2	DECIMAL	4	WBCLI_REASON_GETMAIN_ERROR	
2	DECIMAL	5	WBCLI_REASON_PROXY_ERROR	
2	DECIMAL	6	WBCLI_REASON_SOCKET_ERROR	
2	DECIMAL	7	WBCLI_REASON_HTTP_ERROR	
2	DECIMAL	8	WBCLI_REASON_TRANSLATE_ERROR	
2	DECIMAL	9	WBCLI_REASON_TRUNCATED	

WBEP

WBEP Web Error Program parms

-

These declarations define the commarea which is passed to the user replaceable Web Error program by the CICS WEB Interface via a Program Manager Domain EXEC_LINK call.

Variable
Meaning

< wbep_length > (input)
Length of DFHWPB copybook

< wbep_eyecatcher >
A character field to contain an eyecatcher to help with diagnostics.
The caller sets this to '>wbepca ' before calling the Web Error Program

< wbep_version >
Version of DFHWPB copybook being passed by CICS

< wbep_error_code > (input)
The two byte signed binary number indicating the cause of the original error. Constants which this field may contain can be found in copybook DFHWPB.

< wbep_abend_code > (input)
The four character abend code associated with this exception.

< wbep_message_number > (input)
Message number associated with this exception

< wbep_message_ptr > (input)
A pointer to the CICS message text associated with this exception

< wbep_response_len > (input)
The full word length of the HTTP error response to be returned to the HTTP client. On entry to DFHWPB this contains the default CICS HTTP error response for the reported error.

< wbep_response_ptr > (input)
A pointer to the 32K buffer containing the HTTP error response to be returned to the HTTP client. On entry to DFHWPB this contains the default HTTP error response returned by CICS for the reported error.

< wbep_response_len > (input)
The full word length of the response message text associated with this exception.

< wbep_client_address_len > (input)
One byte field containing the length of the address contained in wbep_client_address

< wbep_client_address > (input)
The 15 character TCPIP address of the client.

.... continued

WBEP

... continuation

< wbep_server_address_len > (input)

One byte field containing the length of the address contained in
wbep_server_address

< wbep_server_address > (input)

The 15 character TCPIP address of the TCP/IP stack on which this
request was received

< wbep_tcpiptservice_name > (input)

Name of the TCPIP SERVICE associated with the failing request

< wbep_converter_program > (input)

The 8 character name of the converter program associated with
this
request

< wbep_target_program > (input)

The target program associated with the web request.

< wbep_failing_program > (input)

The program which CICS was invoking when the failure occurred

< wbep_http_response_code > (input)

HTTP error response code CICS is returning for this error.
This can be overridden by changing the content of the buffer
containing the HTTP response

< wbep_analyzer_response > (input)

Response code returned by analyzer program

< wbep_analyzer_reason > (input)

Reason code returned by analyzer program

< wbep_converter_response > (input)

Response code returned by converter program

< wbep_converter_reason > (input)

Reason code returned by converter program

Offset	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	204	DFHWBEP	
(0)	CHARACTER	12	WBEP_PREFIX	
(0)	HALFWORD	2	WBEP_LENGTH	
(2)	CHARACTER	8	WBEP_EYECATCHER	
(A)	HALFWORD	2	WBEP_VERSION	
(C)	CHARACTER	112	WBEP_DATA	
(C)	HALFWORD	2	WBEP_ERROR_CODE	
(E)	BIT(8)	1	WBEP_FLAGS	indicator flags
	1...		WBEP_SUPPRESS_ ABEND	
	.111 1111		*	suppress if set DO NOT USE
(F)	UNSIGNED	1	WBEP_ACTIVITY	
(10)	CHARACTER	4	WBEP_ABEND_CODE	
(14)	FULLWORD	4	WBEP_MESSAGE_ NUMBER	
(18)	ADDRESS	4	WBEP_MESSAGE_PTR	
(1C)	FULLWORD	4	WBEP_MESSAGE_LEN	
(20)	ADDRESS	4	WBEP_RESPONSE_PTR	
(24)	FULLWORD	4	WBEP_RESPONSE_LEN	
(28)	UNSIGNED	1	WBEP_CLIENT_ ADDRESS_LEN	
(29)	CHARACTER	15	WBEP_CLIENT_ADDRESS	
(38)	UNSIGNED	1	WBEP_SERVER_ ADDRESS_LEN	
(39)	CHARACTER	15	WBEP_SERVER_ ADDRESS	
(48)	CHARACTER	8	WBEP_TCPIP SERVICE_ NAME	
(50)	CHARACTER	8	WBEP_CONVERTER_ PROGRAM	
(58)	CHARACTER	8	WBEP_TARGET_ PROGRAM	
(60)	CHARACTER	8	WBEP_FAILING_ PROGRAM	
(68)	FULLWORD	4	WBEP_HTTP_ RESPONSE_CODE	
(6C)	FULLWORD	4	WBEP_ANALYZER_ RESPONSE	
(70)	FULLWORD	4	WBEP_ANALYZER_ REASON	

WBGDS

#	Offset	Type	Len	Name (Dim)	Description
#	Hex				
	(74)	FULLWORD	4	WBEP_CONVERTER_RESPONSE	
	(78)	FULLWORD	4	WBEP_CONVERTER_REASON	
#	(7C)	CHARACTER	1	WBEP_CLOSE_CONN	
#	(7D)	CHARACTER	79	*	

Constants

Len	Type	Value	Name	Description
4	DECIMAL	0	WBEP_ACTIVITY_SERVER	Acting as server
4	DECIMAL	1	WBEP_ACTIVITY_CLIENT	Acting as client
4	DECIMAL	2	WBEP_ACTIVITY_PIPELINE	Acting as pipeline

WBGDS Web Domain (URIMAP) Global Statistics

```

CONTROL BLOCK NAME = DFHWBGDS
DESCRIPTIVE NAME = CICS Web Domain (Urimap) Global Statistics
  @BANNER_START 02
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5697-E93
  @BANNER_END
FUNCTION =
  This data area contains the web urimap global statistics
  provided by the Web 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 Web Domain to store
  statistics to be passed to the user in response to a
  for urimap global 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 DFHWBGDS IS
NOT TO BE USED AS A GENERAL PROGRAMMING INTERFACE. REFER TO
PRODUCT DOCUMENTATION TO DETERMINE INTENDED USAGE.

```

Offset	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	0	DFHWBGDS	Web Urimap Global stats record
(0)	HALFWORD	2	WBGDS_LEN	Web Urimap stats record length
(2)	ADDRESS	2	WBGDS_ID	Web Urimap stats id
(4)	CHARACTER	1	WBGDS_VERS	Web Urimap stats version
(5)	CHARACTER	3		Reserved
(8)	FULLWORD	4	WBG_URIMAP_REFERENCE_COUNT	Urimap reference count
(C)	FULLWORD	4	WBG_URIMAP_MATCH_DISABLED	Urimap host/path match disabled
(10)	FULLWORD	4	WBG_URIMAP_NO_MATCH_COUNT	Urimap host/path no match
(14)	FULLWORD	4	WBG_URIMAP_MATCH_COUNT	Urimap host/path match
(18)	FULLWORD	4	WBG_URIMAP_MATCH_REDIRECT	Urimap host/path match redirect

WBRDS

Offset Hex	Type	Len	Name (Dim)	Description
(1C)	FULLWORD	4	WBG_URIMAP_MATCH_ANALYZER	Urimap host/path match analyzer
(20)	FULLWORD	4	WBG_URIMAP_STATIC_CONTENT	Urimap static content
(24)	FULLWORD	4	WBG_URIMAP_DYNAMIC_CONTENT	Urimap dynamic content
(28)	FULLWORD	4	WBG_URIMAP_PIPELINE_REQS	Urimap pipeline requests
(2C)	FULLWORD	4	WBG_URIMAP_SCHEME_HTTP	Urimap scheme(http) requests
(30)	FULLWORD	4	WBG_URIMAP_SCHEME_HTTPS	Urimap scheme(https) requests
(34)	FULLWORD	4		Reserved
(38)	FULLWORD	4	WBG_HOST_DISABLED_COUNT	Host disabled count
(3C)	FULLWORD	4		Reserved
(40)	BITSTRING	16		Reserved
(50)	BITSTRING	16		Reserved
	.11.		WBGDS_END	***
	.11.		WBGDS_LENGTH	**-WBGDS_LEN" Web Urimap Global record length
Constants that denote a WB urimap global stats record				
	.11. .1.1		WBGIDE	"101" Web Urimap global stats id
	.... ...1		WBG_VERS	"X'01" Record version number

WBRDS Web Domain (URIMAP) Statistics

```

CONTROL BLOCK NAME = DFHWBRDS
DESCRIPTIVE NAME = CICS Web Domain (Urimap) Statistics
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
FUNCTION =
  This data area contains the web urimap statistics
  provided by the Web 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 Web Domain to store
  statistics to be passed to the user in response to a
  for urimap 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 DFHWBRDS 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)	STRUCTURE	0	DFHWBRDS	Web Urimap Resid stats record
(0)	HALFWORD	2	WBRDS_LEN	Web Urimap stats record length
(2)	ADDRESS	2	WBRDS_ID	Web Urimap stats id
(4)	CHARACTER	1	WBRDS_VERS	Web Urimap stats version
(5)	CHARACTER	3		Reserved
(8)	CHARACTER	8	WBR_URIMAP_NAME	Urimap name
(10)	BITSTRING	1	WBR_URIMAP_USAGE	Urimap usage
(11)	BITSTRING	1	WBR_URIMAP_SCHEME	Urimap scheme

WBRDS

Offset Hex	Type	Len	Name (Dim)	Description
(12)	BITSTRING	1	WBR_URIMAP_ANALYZER_USE	Urimap analyzer program use
(13)	BITSTRING	1	WBR_URIMAP_REDIRECT_TYPE	Urimap redirection type
(14)	BITSTRING	4		Reserved
(18)	BITSTRING	116	WBR_URIMAP_HOSTNAME	Urimap hostname
(8C)	BITSTRING	4		Reserved
(90)	BITSTRING	255	WBR_URIMAP_PATH	Urimap path
(18F)	BITSTRING	1		Reserved
(190)	BITSTRING	48	WBR_URIMAP_TEMPLATENAME	Urimap templatename
(1C0)	BITSTRING	255	WBR_URIMAP_HFSFILE	Urimap hfsfile
(2BF)	BITSTRING	1		Reserved
(2C0)	BITSTRING	255	WBR_URIMAP_LOCATION	Urimap location
(3BF)	BITSTRING	1		Reserved
(3C0)	BITSTRING	4		Reserved
(3C4)	CHARACTER	4	WBR_URIMAP_TRANS_ID	Urimap transaction id
(3C8)	CHARACTER	8	WBR_URIMAP_TCIPSERVICE	Urimap tcpip service name
(3D0)	CHARACTER	8	WBR_URIMAP_CONVERTER	Urimap converter name
(3D8)	CHARACTER	8	WBR_URIMAP_PROGRAM_NAME	Urimap program name
(3E0)	CHARACTER	32	WBR_URIMAP_WEBSERVICE	Urimap webservice name
(400)	CHARACTER	8	WBR_URIMAP_PIPELINE	Urimap pipeline name
(408)	BITSTRING	8		Reserved
(410)	FULLWORD	4	WBR_URIMAP_REFERENCE_COUNT	Urimap reference count
(414)	FULLWORD	4	WBR_URIMAP_MATCH_DISABLED	Urimap host/path match disabled
(418)	FULLWORD	4	WBR_URIMAP_MATCH_REDIRECT	Urimap host/path match redirect
(41C)	BITSTRING	4		Reserved
(420)	BITSTRING	16		Reserved
(430)	BITSTRING	16		Reserved
(430)		0	WBRDS_END	""
(430)		0	WBRDS_LENGTH	""-WBRDS_LEN" Web Urimap record length

Constants that denote a WB urimap stats record

.11.	1...	WBRIDR	"104" Web Urimap resid stats id
....	...1	WBR_VERS	"X'01" Record version number
....	...1	WBR_USAGE_SERVER	"X'01" Urimap usage - Server
....	..1.	WBR_USAGE_CLIENT	"X'02" Urimap usage - Client
....	..11	WBR_USAGE_PIPELINE	"X'03" Urimap usage - Pipeline
....	...1	WBR_SCHEME_HTTP	"X'01" Urimap scheme - HTTP
....	..1.	WBR_SCHEME_HTTPS	"X'02" Urimap scheme - HTTPS
....	...1	WBR_ANALYZER_NO	"X'01" Urimap Analyzer use - No
....	..1.	WBR_ANALYZER_YES	"X'02" Urimap Analyzer use - Yes
....	...1	WBR_REDIRECTION_NONE	"X'01" Urimap Redirection type - None
....	..1.	WBR_REDIRECTION_TEMP	"X'02" Urimap Redirection type - Temporary
....	..11	WBR_REDIRECTION_PERM	"X'03" Urimap Redirection type - Permanent

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 > (input output)
@PQC
The CICS program to be used for this HTTP request.

< wbra_converter_program > (input output)
@PQC
The converter to be used for this HTTP request.

< wbra_userid > (input output)
@PQC
The userid which is to be used on the EXEC CICS START for the alias transaction for this HTTP request.

< wbra_alias_tranid > (input output)
@PQC
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

.... continued

WBTDC

... continuation

< 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_old_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

.... continued

```

... continuation

< wbra_urimap > (input)
@LBA
The URIMAP associated with the request.

< wbra_commarea > (output)
@LCA
A flag indicating that the server application is commarea style
@LCA
and we should therefore process as for HTTP/1.0
@LCA
Not setting this bit causes the default setting to apply - the
@LCA
application will be assumed to be WEB API style.
@LCA

< wbra_characterset > (output)
@POC
The IANA character set to be used during data conversion.

< wbra_hostcodepage > (output)
@POC
The host IBM codepage to be used during data conversion.

< wbra_hostname_ptr > (input)
Pointer to the hostname on the HTTP request sent by the
client. This will have been taken from the URI if it is
absolute or from the host header if not.

< wbra_querystring_ptr > (input)
Pointer to the querystring (if any) on the HTTP request
sent by the client.

< wbra_hostname_length > (input)
Length of the hostname.

< wbra_querystring_length > (input)
Length of the querystring.

< wbra_request_type > (input)
A value indicating whether the request to be analyzed is HTTP
or non-HTTP.

-

The top level definition for dfhcommarea.

```

Offset	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	*	DFHCOMMAREA	
(0)	CHARACTER	*	COMM_PARMLIST	

--

Offset	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	188	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	In|Output
(1C)	CHARACTER	8	WBRA_CONVERTER_ PROGRAM	In|Output
(24)	CHARACTER	8	WBRA_USERID	In|Output
(2C)	CHARACTER	4	WBRA_ALIAS_ TRANID	In|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

WBTDC

Offset Hex	Type	Len	Name (Dim)	Description
(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_OLD_REQUEST_ TYPE	In|Output
(6F)	CHARACTER	1	WBRA_UNESCAPE	Input
(70)	UNSIGNED	4	WBRA_CONTENT_LENGTH	Input
(74)	CHARACTER	8	WBRA_URIMAP	Input
(7C)	BIT(8)	1	WBRA_APPLICATION_ STYLE	Output
	1...		WBRA_COMMAREA	Output
	.111 1111		*	Reserved
(7D)	CHARACTER	40	WBRA_CHARACTERSET	Output
(A5)	CHARACTER	10	WBRA_HOSTCODEPAGE	Input
(B0)	ADDRESS	4	WBRA_HOSTNAME_PTR	Input
(B4)	ADDRESS	4	WBRA_QUERYSTRING_ PTR	Input
(B8)	HALFWORD	2	WBRA_HOSTNAME_ LENGTH	Input
(BA)	HALFWORD	2	WBRA_QUERYSTRING_ LENGTH	Input
(BC)	UNSIGNED	1	WBRA_REQUEST_TYPE	Input

WBTLCL Web Interface Template Manager

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	56	DFHWBTL_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	0	*	

Constants

Len	Type	Value	Name	Description
-				
<p>This is the parameter list for the CICS Web Interface Template Manager, DFHWBTL.</p>				
-				
<p>The Template Manager supports the following functions:</p>				
<p>BUILD_HTML_PAGE This function builds a whole HTML page from a specified template, using optional symbol substitution. This function is a composite of all the other HTML building functions of this module.</p>				
<p>START_HTML_PAGE This function initializes an environment for the ADD_HTML_TEMPLATE function, and optionally builds an symbol table from the list supplied in the parameter SYMBOL_LIST. It returns a token in CONNECT_TOKEN that represents the created environment.</p>				
<p>ADD_HTML_SYMBOLS This function adds further symbols to the symbol table created by START_HTML_PAGE. The names of the symbols are case-sensitive. If a symbol is added with the same name as one that is already defined, the new symbol definition replaces the old one.</p>				
<p>READ_HTML_TEMPLATE This function reads a named HTML template into main storage. If the template named in WBTL_TEMPLATE_NAME exists as a member of the partitioned dataset allocated to the DFHHTML data definition statement, it is read into main storage. The address and length of the storage containing the buffer are returned in WBTL_TEMPLATE_BUFFER_PTR and WBTL_TEMPLATE_BUFFER_LEN, and the template name is cleared to binary zeroes.</p>				
<p>ADD_HTML_TEMPLATE This function interprets an HTML template by substituting into it the current values of the symbols.</p>				
<p>END_HTML_PAGE This function destroys the environment created by the START_HTML_PAGE function, and releases any storage acquired by earlier functions in the sequence.</p>				
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	

WBTLCL

Len	Type	Value	Name	Description
-----	------	-------	------	-------------

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	

The following are the possible responses from the DFHWBTL program.

2	DECIMAL	0	WBTL_OK	
2	DECIMAL	4	WBTL_EXCEPTION	
2	DECIMAL	8	WBTL_INVALID	
2	DECIMAL	12	WBTL_DISASTER	

The following are the possible responses from the DFHWBTL 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
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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 CSAXRFT 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	0	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	DFHWS20
(14)	ADDRESS	4	WCGETRP	DFHWTRP
(18)	ADDRESS	4	WCGEDISP	DFHWDISP
(1C)	ADDRESS	4	WCGECCS	DFHWCCS

WCG

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	DFHWCIIPS	XRF Common Services parameter block
(0)	FULLWORD	4	WCIPID	Request Identifier
(4)	ADDRESS	4	WCIPSA	Storage area address
(4)	ADDRESS	4	WCIEPCBA	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	WCIPSA	Address of Save area
(8)	FULLWORD	4	WCIPABCD	ABEND code
(8)	BIT(8)	1	WCIPDOPT	Dump options
(9)	BIT(12)	2	WCIPSABC	System ABEND code
(A)	BIT(12) POS(5)	2	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
Request IDs (values for WCIPID)				
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
  @BANNER_START 02
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5697-E93
  @BANNER_END
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 (DFHWCGRS) 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)	STRUCTURE	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	WCSTXTCBP	Pointer to CAVM TCB
(10)	ADDRESS	4	WCSETECB	End of task ECB for CAVM TCB
(14)	BITSTRING	1	WCSSMRST	State Management record status
	.... ....		WCSSSOFFN	"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	WCSTKVPP	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	WCSACSVV	Pointer to CSVC's SVC instruction in the CICS CSA
	..11 .1..		WCSL	"*-DFHWCSDS"

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	WCSENTAB	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

WDG XRF Process block

CONTROL BLOCK NAME = DFHWDGPS
 DESCRIPTIVE NAME = CICS (XRF) Process Block
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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 DFHWCGPS.
 INNER CONTROL BLOCKS =
 WDCP
 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	DFHWDGPS	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	WDGDXPB	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)	BIT(32)	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)	BIT(32)	4	WDGLKACC	Lock table work area used by DFHWDINA.
(40)	BIT(32)	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	0	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	WDGSRPA	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
Request IDs (values for WDGPID).				
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.
    @BANNER_START 02
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5697-E93
    @BANNER_END
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	0	WDIEND	

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)	BIT(32)	4	WDSWEVM	Awaited broadcast events
(10)	BIT(32)	4	WDSPEVM	Events to be broadcast

WDL

Offset Hex	Type	Len	Name (Dim)	Description
(14)	BIT(32)	4	WDSREVM	Broadcast events to reset for this process.
(18)	BIT(32)	4	WDSFLKM	Locks to be freed
(1C)	BIT(32)	4	WDSGLKM	Locks to be acquired
(20)	CHARACTER	0	WSEND	

Constants

Len	Type	Value	Name	Description
Broadcast event numbers				
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	WDSBBPSA	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
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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 =
  WLGSA 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	0	WLGEND	

Standard OS Save Area

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	72	WLGSA	Standard Save Area
(0)	ADDRESS	4	*	
(4)	ADDRESS	4	WLGSABCN	backward chain
(8)	ADDRESS	4	WLGS AFCN	forward chain
(C)	CHARACTER	60	WLGSAREG	Registers 14-12
(C)	ADDRESS	4	WLGSAR14	R14
(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
  @BANNER_START 02
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5697-E93
  @BANNER_END
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)	STRUCTURE	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	WFGASRBA	RBA of ACTIVE's status CI in either file
(24)	ADDRESS	4	WFGRSVPP	Pointer to RESERVE parameter list
	..1. 1...		WFGL	"*-DFHWFGDS"

WMG

WMG XRF Message manager global area

CONTROL BLOCK NAME = DFHWMGPS
 DESCRIPTIVE NAME = CICS (XRF) Message manager global area
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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 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	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	40	DFHWMGPS	Addressed from WS Global
(0)	CHARACTER	40	WMGCOMM	Common data
(0)	ADDRESS	4	WMGCFKB	Free 1K block chain
(4)	ADDRESS	4	WMGCFMQE	Free message queue element chain
(8)	BIT(8)	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	0	*	

PUTMSG area

Offset	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	40	WMGPUT	PUTMSG data

WMG

Offset Hex	Type	Len	Name (Dim)	Description
(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
(28)	CHARACTER	0	WMGPEND	End of fixed part

Offset Hex	Type	Len	Name (Dim)	Description
(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)	BIT(8)	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	0	WMGREND	
(50)	CHARACTER	4	WMGRQA (*)	Channel status array

Offset Hex	Type	Len	Name (Dim)	Description
(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

WMI

Request Queue Anchor Block

Offset	Type	Len	Name (Dim)	Description
Hex				
(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**
 @BANNER_START 02
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 5697-E93
 @BANNER_END
 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 yy 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	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	12	DFHWMIPS	XRF Message manager parameter block
(0)	FULLWORD	4	WMIPID	Request Identifier
(0)	CHARACTER	2	*	

WMI

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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	WMIPIDA	Initial data of process
(8)	ADDRESS	4	WMIPNSW	New PSW for ESPIE return

Constants

Len	Type	Value	Name	Description
Request IDs for DFHWMG1				
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

WMM XRF Message queue anchor block

CONTROL BLOCK NAME = DFHWMMP5
DESCRIPTIVE NAME = CICS (XRF) Message queue anchor block
@BANNER_START 02
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@BANNER_END
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 WMMHASH as chain field and WMMGHT (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	DFHWMMP5	
(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	WMMHASH	Hash table index
(12)	BIT(16)	2	*	
	1... ..		WMMAEOD	Flag set by reader process if EOD/SIGNOFF or an error occurs.
(12)	BIT(15) POS(2)	2	*	Reserved
(14)	ADDRESS	4	WMMAECB	ECB posted at 'End-of-data or whenever this queue becomes non-empty.
	1... ..		*	
	.1.. ..		WMMAPOST	POST bit in ECB
(14)	BIT(30) POS(3)	4	*	
(18)	CHARACTER	0	WMMAEND	

Message Queue Element

WMQ

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	WMMENEWWR	Next newer element
(8)	CHARACTER	0	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.				
@BANNER_START 02				
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5697-E93				
@BANNER_END				
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	
(0)	CHARACTER	24	WMQECTL	Control part of element
(0)	ADDRESS	4	WMQEOLDR	Next older element
(4)	ADDRESS	4	WMQENEWR	Next newer element
(8)	ADDRESS	4	*	Reserved
(C)	ADDRESS	4	WMQEQAA	Queue anchor address
(10)	ADDRESS	4	WMQEECB	ECB on which requesting CICS Xaction will wait.
	1... ..		*	
	.1.. ..		WMQEPOST	POST bit in ECB
(10)	BIT(30) POS(3)	4	*	
(14)	BIT(32)	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	0	WMQEEND	

Overlay for word containing 'cancelled' and 'about to post'
flags (WMQECSWD).

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	6	WMQECS	
(0)	BIT(16)	2	WMQEFLGS	This field is subject of a CS instruction.
	1... ..		WMQEFATP	About-to-post
	.1.. ..		WMQEFKAN	Request cancelled

WMR

Offset Hex	Type	Len	Name (Dim)	Description
(2)	BIT(14)	2	*	Reserved
(3)	BIT(16) POS(7)	3	*	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
 @BANNER_START 02
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 5697-E93
 @BANNER_END
 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)	BIT(8)	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	0	WMREND	Start of message data

WMR

Message Control Record

Offset	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	8	WMRCR	
(0)	BIT(8)	1	*	Record type - WMRTCNO
(1)	CHARACTER	3	*	Reserved
(4)	FULLWORD	4	WMRCRCNO	Message cycle number
(8)	CHARACTER	0	WMRCREND	

VSAM CIDF Format

Offset	Type	Len	Name (Dim)	Description
Hex				
(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	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	3	WMRRDF	Cancel data passed to KCP at WAIT.
(0)	BIT(8)	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
Message Dataset Record Types (WMRTYPE)				
1	DECIMAL	0	WMRTDATA	Message record
1	DECIMAL	1	WMRTCNO	Control record

WMS

WMS XRF Message manager request

CONTROL BLOCK NAME = DFHWMSPS
 DESCRIPTIVE NAME = CICS (XRF) Message manager request
 interface block.
 @BANNER_START 02
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 5697-E93
 @BANNER_END
 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)	BIT(8)	1	WMSRQFL1	Request flag byte 1
	1...		WMSCRUCL	CRUCIAL Message (PUTMSG)
	.111 1111		*	Reserved
(5)	BIT(8)	1	WMSRQFL2	Request flag byte 2
	1...		WMSFORCE	Harden message before returning (PUTMSG)
	.111 1111		*	Reserved
(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	0	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
Request Identifier (WMSREQID) definitions				
4	DECIMAL	1	WMSPMMSG	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

WMT XRF message manager message

CONTROL BLOCK NAME = DFHWMTPS
 DESCRIPTIVE NAME = **CICS (XRF) Message manager message**
 transmission control.

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 @BANNER_END

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 Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	168	DFHWMTPS	
(0)	ADDRESS	4	*	Reserved for chain ptr
(4)	BIT(8)	1	WMT CFLGS	Flags
	1... ..		WMT CFCBG	CI has been changed
	.1. . . .		WMT CFSAF	CI can be written without impacting any backup.
	.1. . . .		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 CECB	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	0	WMT CRPL	End of fixed part. Start of associated RPL.

PUTMSG Transmission control data

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	24	WMT P	
(0)	CHARACTER	8	WMT PAWC	Active write cursor of end of latest complete message

WNF

Offset Hex	Type	Len	Name (Dim)	Description
(0)	FULLWORD	4	WMPWCNO	Active write cycle number
(4)	UNSIGNED	4	WMPWRBA	Active write RBA
(8)	FULLWORD	4	WMPSEQN	Message sequence number
(C)	ADDRESS	4	WMPCCCA	Current CI control area
(10)	FULLWORD	4	WMPCCNO	Current write cycle number
(14)	BIT(16)	2	WMPFLGS	
	1... ..		WMPFMV	Moving user data
	.1... ..		WMPFMDS	'Multiple discard' - the previous non-crucial msg was also discarded.
(14)	BIT(14) POS(3)	2	*	Reserved
(16)	HALFWORD	2	WMPMAXL	Maximum record length
(18)	CHARACTER	0	WMPEND	

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)	BIT(16)	2	WMTGFLGS	
	1... ..		WMTGFMV	Moving user data
	.1... ..		WMTGFFMR	First message received
(18)	BIT(14) POS(3)	2	*	Reserved
(1A)	HALFWORD	2	*	Reserved
(1C)	CHARACTER	0	WMTGEND	

WNF XRF CAVM notify exit

```

CONTROL BLOCK NAME = DFHWNFPS
DESCRIPTIVE NAME = CICS (XRF) - CAVM NOTIFY Exit
                    Parameter Block

@BANNER_START 02
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@BANNER_END
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

WNF

Offset Hex	Type	Len	Name (Dim)	Description
(5)	BIT(8)	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)	BIT(8)	1	WNFXBITS	Existence bits for other fields
	1... ..		WNFIX	Index exists
	.1.. ..		WNFD1X	DATA1 exists
	..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	0	WNFEND	

Constants

Len	Type	Value	Name	Description
Event codes for WNFEVENT				
1	DECIMAL	1	WNFESON	Signon
1	DECIMAL	2	WNFESOFN	Signoff normal
1	DECIMAL	3	WNFESOFFA	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	WNFEHBRS	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

@BANNER_START 02
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 @BANNER_END

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)	STRUCTURE	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

WSA

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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)	STRUCTURE	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	WSADIDL	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)	STRUCTURE	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)		0	WSASL	**WSAS"

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	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)	STRUCTURE	0	WSARIV	Invalidation Message from ACTIVE
(0)	FULLWORD	4	WSARIVI#	Instance number of BACKUP which is now invalid
(4)	CHARACTER	12	WSARIVRC	Invalidation reason code
	...1		WSARIVL	**WSARIV"

WSA

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	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)	STRUCTURE	0	WSARQR	Message Management PUTREQ & PUTRSP messages
	1..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)	STRUCTURE	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.		WSV1INCPC	"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	WSV1MYSI	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)		0	WSV1L	"*-WSASV1"

WSC

WSC XRF CAVM Time-of-day clock difference

CONTROL BLOCK NAME = DFHWSCDS
DESCRIPTIVE NAME = CICS (XRF) - CAVM TOD Clock Difference
Control Area

@BANNER_START 02
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5697-E93
@BANNER_END

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 (DFHWCGRS) 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)	STRUCTURE	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 = DFHWSMDS
 DESCRIPTIVE NAME = CICS (XRF) - CAVM State Management
 Record Description

@BANNER_START 02
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 5697-E93
 @BANNER_END

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)	STRUCTURE	0	SMDESCR	State Management Record Global Data
(0)	FULLWORD	4	SMDSECCT	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)	STRUCTURE	0	WSJDESC	State Management Record Job Description
(0)	CHARACTER	8	WSJSAPPL	Specific APPLID

WSM

Offset Hex	Type	Len	Name (Dim)	Description
(8)	CHARACTER	8	WSJOBNAM	Job Name
(10)	CHARACTER	8	WSJOBID	JES Job Identifier
	...1 1...		WSJS1END	***
(8)	CHARACTER	16	WSJOBID	
(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
	..11 .1..		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
	..11 111.		WSJS3END	***
(8)	CHARACTER	54	WSJOBSTI	
(3E)	CHARACTER	1	WSJSIND	System Indicator
	1...		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
	.... ..1		WSJRSJOB	"X'01" Restart as JOB
	.... ..1.		WSJRSSTC	"X'02" Restart as Started Task
(4C)	FULLWORD	4		Spare
(50)	DBL WORD	8	(0)	Force length to double word multiple
	.1.1		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
	.11. 1...		WSJS4END	***
(50)	CHARACTER	24	WSJXCFD	XCF Details
(58)	CHARACTER	16	WSJSDET	MVS System details
	.11. 1...		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)	STRUCTURE	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
	..1. 11..		CTLRECL	**CTLREC"

WSR

WSR XRF CAVM surveillance

CONTROL BLOCK NAME = DFHWSRDS
 DESCRIPTIVE NAME = **CICS (XRF) - CAVM Surveillance**
 Communications Area

@BANNER_START 02
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 5697-E93
 @BANNER_END

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)	STRUCTURE	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)	STRUCTURE	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

@BANNER_START 02
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 5697-E93
 @BANNER_END

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)	STRUCTURE	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)	STRUCTURE	0	WSSSONDS	Unique parameters for SIGNON
(0)	CHARACTER	8	WSSGAPPL	Generic APPLID
(8)	CHARACTER	8	WSSAPPL	Specific APPLID
(10)	ADDRESS	4	WSSNFEP	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)	STRUCTURE	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	WSSSFMM	Address of my response msg buffer
(C)	HALFWORD	2	WSSSFMBL	Length of my response msg buffer
(E)	HALFWORD	2	WSSSFML	Length of msg received from partner
	...1		WSSSOFND	*** End of section unique to SIGNOFF
	...1		WSSSOFLN	**WSSSOFDS" Length of section unique to SIGNOFF

WST

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	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				
@BANNER_START 02				
Licensed Materials - Property of IBM				
"Restricted Materials of IBM"				
5697-E93				
@BANNER_END				
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)	STRUCTURE	0	TKVPA	TAKEOVER parameter area
(0)	HALFWORD	2	TKVFUNCM	Copy of TAKEOVER modifier from State Management parameter list
(2)	HALFWORD	2		Reserved - must be zero

Offset Hex	Type	Len	Name (Dim)	Description
(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)
(C)	FULLWORD	4	TKVJMTL	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	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

    @BANNER_START 02
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5697-E93
    @BANNER_END

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 (DFHWCGDS)
    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)	STRUCTURE	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	WSXIHEPA	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 DFHWSSN2 parameter list

CONTROL BLOCK NAME = DFHWS2DS
 DESCRIPTIVE NAME = CICS (XRF) - Parameter list for DFHWSSN2
 @BANNER_START 02
 Licensed Materials - Property of IBM
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 5697-E93
 @BANNER_END
 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)	STRUCTURE	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	4	SN2ESSOF ...1 1...	Entry point address of DFHWSSOF "-SN2PLIST"

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	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 DFHWSSN3 parameter list

```

CONTROL BLOCK NAME = DFHWS3DS
DESCRIPTIVE NAME = CICS (XRF) - Parameter list for DFHWSSN3
  @BANNER_START 02
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5697-E93
  @BANNER_END
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)	STRUCTURE	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)	STRUCTURE	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

WTA XRF takeover initiation argument block

```

CONTROL BLOCK NAME = DFHWTADS
DESCRIPTIVE NAME = CICS XRF Takeover Initiation
    Argument Block
    @BANNER_START 02
    Licensed Materials - Property of IBM
    "Restricted Materials of IBM"
    5697-E93
    @BANNER_END
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	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	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
	CHARACTER		WTAICIND	CEC indicators Treat old active job as..
	CHARACTER		WTAICISA	"X'80" ..same MVS instance
	CHARACTER		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
	CHARACTER		WTAISPRT	"X'80" ..In Sysplex Partitioning
	CHARACTER		WTAILOCL	"X'40" ..In XCFLOCAL mode
(2D)	CHARACTER	1	(3)	Reserved
	CHARACTER		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 identifier
(3E)	HALFWORD	2		Reserved OLD CICS ACTIVE WAIT FOR TERMINATION DATA:
(40)	FULLWORD	4	WTAIJESI	JES delay interval
	CHARACTER		WTATILEN	**WTAARGS" Length of arguments for ..Takeover Initiation
	CHARACTER		WTAVCLEN	**WTAARGS" Length of arguments for ..Verify CLT
(44)	CHARACTER	4	WTAISSID	External subsystem id.
	CHARACTER		WTASCLEN	**WTAARGS" Length of arguments for ..Issue subsystem command
	CHARACTER		WTATELEN	**WTAARGS" Length of arguments for ..Terminate External subsystem

Offset Hex	Type	Len	Name (Dim)	Description
	.1.. .1..		WTAVALEN	**WTAARGS" Length of arguments for ..Verify AXI
Modify Uservar Overseer Operator Command Disable XRF services				
	.... ....		WTADXLLEN	**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	"X80" ...In Sysplex Partitioning
	.1..		WTAGLOCL	"X40" ...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	"X01" Takeover Initiation
	.... .1.		WTAFJS	"X02" Inquire Job Status
	.... .1.1		WTAFVC	"X03" Verify CLT
	.... .1..		WTAFOC	"X04" Overseer Operator Command
	.... .1.1		WTAFMU	"X05" Issue 'F USERVAR'
	.... .11.		WTAFLCL	"X06" Process CLT only
	.... .1.1.1		WTAFTVE	"X07" Terminate External Subsystem
	.... 1..		WTAFTA	"X08" Verify AXI
	.... 1.1		WTAFTSC	"X09" Issue subsystem command
	.... 1.1.		WTAFTDX	"X0A" Disable XRF services
	.... 1.1.1		WTAFTIS	"X0B" Inquire MVS system details
Request Modifiers				
Takeover initiation				
	.... ...1		WTATICM	"X01" Do not terminate active job
	.... .1.		WTATIPC	"X02" Do not process CLT
	.... .1..		WTATICS	"X04" 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	"X01" Do not check cancel name in AXI
	.... .1.		WTAVANSS	"X02" Do not check subsystem id.
Command Codes (WTAISCMD)				
Issue Subsystem Command				
	.... ...1		WTASCERE	"1" /ERE
	.... .1.		WTASCSTW	"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...		WTARIIA	"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
Failures				

WTA

Offset Hex	Type	Len	Name (Dim)	Description
..1 .11			WTARJXF	"X'0023" IXCQUERY failure
..1 .1..			WTARJNU	"X'0024" JES not up
..1 .1.1			WTARJSSG	"X'0025" subtask 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
Verify CLT				
Failures:				
..1 1..			WTARVAF	"WTARIAF" Authorization check failed
..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
Overseer Operator Command				
Failures:				
..11 11..			WTARONA	"X'003C" Not authorised
Process CLT				
Failures:				
..1 1..			WTARPAF	"WTARIAF" Authorization check failed
..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
Issue Subsystem Command				
Failures:				
..1 1..			WTARCSF	"X'0050" SSI failure
..1 1..			WTARCCF	"X'0054" Command failure
Inquire System Details command				
Successful:				
..11			WTARSOK	"X'0060" Inquire system details OK
..11 ...1			WTARSNFN	"X'0061" Named system not in sysplex
Failures:				
..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)	STRUCTURE	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		WTARSJNJ	"X'01" SSOBRETN byte 3 from IEFSSREQ ..STATUS in WTARSJSE
	.... .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
	.... ....		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		WTARSVNJ	"X'01" SSOBRETN byte 3 from IEFSSREQ ..in WTARSVSE
	.... .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
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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)	BIT(16)	2	WTGFLAGS	
	1...		WTGFWRAP	Table has wrapped
(1C)	BIT(15) POS(2)	2	*	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
Size of trace area to be allocated				
4	DECIMAL	65536	WTGASIZE	Allocate 64K
Heading text				
16	CHARACTER	*** XRF TRACE **	WTGATEXT	

WTR

WTR XRF trace interface

CONTROL BLOCK NAME = DFHWTRPS
DESCRIPTIVE NAME = CICS (XRF) XRF Trace Interface
@BANNER_START 02
Licensed Materials - Property of IBM
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5697-E93
@BANNER_END
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	0	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

WTR

Dispatcher
 Usage is: WTRSTATT - WTRX021 = WDSIEPA (ATTACH argument)
 22 = WDSIIDA
 23 = WDESEPIE
 24 = WDESESTAE
 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 Hex	Type	Len	Name (Dim)	Description
(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 Hex	Type	Len	Name (Dim)	Description
(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 Hex	Type	Len	Name (Dim)	Description
(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
(14)	ADDRESS	4	WTRX046	Field 6

WTR

Offset Hex	Type	Len	Name (Dim)	Description
(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	WTRXFEOM	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	0	WTRXFF	Reserved
(0)	CHARACTER	0	*	Reserved

Constants

Len	Type	Value	Name	Description
Trace types codes - Values for WTRPRITP and WTRSUBTP.				
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	WTRSTVRP	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
@BANNER_START 02
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5697-E93
@BANNER_END
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)	BIT(16)	2	WXBPFLGS	Flags
			1...	WXBFWAIT
			.1..	WXBFXRF
(12)	BIT(14) POS(3)	2	*	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)	BIT(32)	4	WXBWEVM	Broadcast events waited
(24)	BIT(32)	4	WXBPEVM	Broadcast events posted
(28)	BIT(32)	4	WXBRLKM	Freed locks mask
(2C)	BIT(32)	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

WXB

Offset Hex	Type	Len	Name (Dim)	Description
(64)	ADDRESS	4	WXBDSV13	Register 13 save slot
(68)	ADDRESS	4	WXBDSV14	Register 14 save slot
(6C)	ADDRESS	4	WXBDSV15	Register 15 save slot
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	0	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
Special process number values (WXBXPBNO).				
2	DECIMAL	-1	WXBPN DSP	Dispatcher pseudo-process
2	DECIMAL	-2	WXBPN SRP	Error pseudo-process

WXL XRF LIFO stack area

CONTROL BLOCK NAME = DFHWXLPS
 DESCRIPTIVE NAME = CICS (XRF) XRF LIFO Stack Areas
 @BANNER_START 02
 Licensed Materials - Property of IBM
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 5697-E93
 @BANNER_END
 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 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	Type	Len	Name (Dim)	Description
Hex				
(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	WXLEOS	End of this block
(C)	ADDRESS	4	WXLNAB	Next available byte in the block.
(10)	CHARACTER	0	WXLEND	

Allocation header

Offset	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	16	WXLHDR	XRF LIFO Allocation header
(0)	CHARACTER	8	WXLHID	Module identifier
(8)	ADDRESS	4	WXLHPLA	Previous LIFO allocation
(C)	FULLWORD	4	WXLHALN	Length of allocation (not including this header).
(10)	CHARACTER	0	WXLHEND	

XCTRC

XCTRC DFHXCTRA parameter list definition

CONTROL BLOCK NAME = DFHXCTRC
 DESCRIPTIVE NAME = CICS External CICS Interface, DFHXCTRA
 Parameter list definition.

@BANNER_START 02
 Licensed Materials - Property of IBM
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 5697-E93
 @BANNER_END

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)	BIT(8)	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
	.... .1..		TRAP_IN_CONTROL	Control passed to DFHXCTRA.
	.... .1.		OVERLENGTH_ENTRY	overlength entry detected
	.... ...1		*	Reserved
(6D)	BIT(8)	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)	BIT(8)	1	XCDMP_FOOTPRINTS	footprints for XCDMP
	1... ..		STIMERM_FAILED	remember STIMERM failed
	.1.. ..		BUSY_MSG_ISSUED	Only issue busy msg once

XCTRC

Offset Hex	Type	Len	Name (Dim)	Description
...	....		SYSTEM_DUMP_TKN	sdump has been taken
...	1111		*	Reserved
(B5)	BIT(8)	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	
(1F4)	ADDRESS	4	GTF_PTR	Space for extra WTO parms 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	
<p>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.</p>				
(0)	ADDRESS	4	XCTRA_FLGSA	A(Return actions flag word)
<p>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.</p>				
(4)	ADDRESS	4	XCTRA_CURTA	A(Current entry)
<p>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.</p>				
(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)

XCTRC

Offset Hex	Type	Len	Name (Dim)	Description
				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.
(28)	ADDRESS	4	XCTRA_XCUSERA	A(XCUSER bloc)
				XCTRA_XCPIPEA - Address of the XCPIPE block representing the particular pipe being used for this request for this user. Address may be 0 if block not set up yet.
(2C)	ADDRESS	4	XCTRA_XCPIPEA	A(XCPIPE)
				XCTRA_XCPRH_WAA - Address of the working storage of the program request handler. Address may be 0 if block not set up yet.
(30)	ADDRESS	4	XCTRA_XCPRH_WAA	A(DFHXCPRH's working storage)
				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.
(34)	ADDRESS	4	XCTRA_XCEIP_WAA	A(DFHXCEIP's working storage)
				XCTRA_RSAA - Address of the register save area to be used by DFHXCTRA.
(38)	ADDRESS	4	XCTRA_RSAA	RSA address
(3C)	ADDRESS	4	*	Reserved
(40)	CHARACTER	0	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)	BIT(8)	1	TRAP_FLAGS	Trap return action flags
	1... ..		TRAP_TRACE	Further trace entry required
	.1... ..		TRAP_DUMP	system dump required
	..1.		TRAP_SKIP_GTF	Skip outputting entry to GTF
	...1		TRAP_DISABLE	Disable the trap
	.... 1111		*	Reserved
(89)	BIT(24)	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
Constants for use with XCTRA_FLGSA				
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_XFRASGT1_	FM_ERR

XCTRC

Len	Type	Value	Name	Description
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	0426	XCPRH_INVALID_ TRANSID2	
2	HEX	0427	XCPRH_INVALID_ CCSID	
2	HEX	0428	XCPRH_INVALID_ ENDIAN	
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	
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	

XCTRC

Len	Type	Value	Name	Description
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	
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
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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)	STRUCTURE	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	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	XRQTDDLN	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
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 XRQTSDA +XRQTSDLN (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	TERMID
(2E)	CHARACTER	4	XRQICRTR	RTRANSID
(32)	CHARACTER	4	XRQICRTE	RTERMID
(36)	CHARACTER	4	XRQICIOT	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 ADDR(XRQICFDA)+XRQICFLN + (address of FROM data + length of FROM data)				
(0)	CHARACTER	8	XRQICUID	USERID
(8)	CHARACTER	8	XRQICSYN	Applid of System

XFIOA

Offset Hex	Type	Len	Name (Dim)	Description
(10)	CHARACTER	8	XRQICTRN	Terminal netname
<p>CHANNEL data has been added. Since this may overflow into second and further TIOAs, the beginning of the channel data must be the very last thing in the first TIOA.</p> <p>Field XRQICCTO gives the offset to the start of the CHANNEL data from the beginning of XRQICCTO.</p> <p>CHANNEL data is addressed by ADDR(XRQICCTO) + XRQICCTO</p> <p>Any new fields added in subsequent releases must be added AFTER XRQICCTO and before XRQCHAND. DFHXFX assumes that any fields added between XRQICCTO and XRQCHAND will always be present even if they are not used.</p>				
(18)	BITSTRING	2	XRQICCTO	Offset to CHANNEL data
(1A)	CHARACTER	1	XRQCHAND (0)	Channel data
<p>THIS PART OF THE DSECT DESCRIBES THE FORMAT OF THE TIOA USED TO SEND REPLIES. IT IS USED BY TRANSFORMERS 3 AND 4 ONLY.</p>				
(0)	FULLWORD	4	XRQICCTO (3) XRQSTART	*** 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	XRPFUDL	UNTRUNCATED DATA LENGTH
(1A)	HALFWORD	2	XRPFMRL	MAX REC LEN FOR V FORMAT
(1C)	HALFWORD	2	XRPFCKOF	OFFSET OF KEY IN TIOA
(1E)	BITSTRING	1	XRPFCKOF53 XRPF_REPLY_FLAG1 XRPF_TERMINATE_ STRING	***-XRPDS' VALUE OF XRPFCKOF IN CICS 5.3 AND EARLIER
(1F)	BITSTRING	1	XRPF_REPLY_FLAG2	"X'80"
(20)	FULLWORD	4	XRPF_VERSION XRPF_VERSION_1	"1"
(24)	BITSTRING	1	XRPF_RESPONSE	
(25)	BITSTRING	1	XRPF_REASON	
(26)	BITSTRING	1	XRPF_LENGTH_ ERR_CODE	
(27)	BITSTRING	1	XRPF_DUPLICATE_KEY	
(26)	CHARACTER	4	XRPF_ACCMETH_RC XRPFCKOF61	***-XRPDS" VALUE OF XRPFCKOF IN CICS 6.1
(2A)	CHARACTER	1	XRPFCKDA (0) XRPFLEN	KEY FOLLOWED BY DATA ***-XRPSTART" LEN OF FIXED PART
TRANSIENT DATA REPLY PARAMETERS				
(14)	HALFWORD	2	XRPTDDLN	DATA LENGTH
(16)	HALFWORD	2	XRPTDUDL	UNTRUNCATED DATA LENGTH
(18)	CHARACTER	1	XRPTDDA (0) XRPTDLEN	DATA AREA FOR READS ***-XRPSTART" 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	XRPTSDA (0) XRPTSLEN	READ DATA ***-XRPSTART" LEN OF FIXED PART
INTERVAL CONTROL REPLY PARAMETERS				
(14)	CHARACTER	8	XRPICRQD XRPICLN	REQID ASSGND BY MIR SYS ***-XRPSTART" LEN OF FIXED PART

XFR Function shipping request control 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.

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	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				
NOTE: There is a copy of this storage up to XFRFLAGA in DFHEIIC and DFHEPC. These programs must also be changed if the offset of XFRFLAGA changes, the field name in these programs is TFRFLAGA.				
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
	.... .1..		XFRRTDST	"X'04" Dynamically routed START request
	.... ..1.		XFRRESUN	"X'02" RESUNAVAIL condition supported
	.... ...1		XFRCHAN	"X'01" CHANNEL request
(22)	HALFWORD	2	XFRRTLNL	Length of router commarea or 0
(24)	ADDRESS	4	XFRRTRAD	A(DFHDSRP) or 0
(28)	BITSTRING	4	XFRCHTOK	Channel Token
(2C)	BITSTRING	1	XRFFLAGB	
	1... ..		XFRRSTRT	"X'80" Dynamic and routable start reserved
(2D)	BITSTRING	1	(6)	reserved
(34)	FULLWORD	4	XFRFSPEC (0)	Origin for function specific storage
DL/I RELATED FIELDS				
(34)	ADDRESS	4	XFRAUIB	A(UIB)
(38)	FULLWORD	4	XFRDLILN	Maximum length os SETS I/O area so far
FILE CONTROL RELATED FIELDS				
(3C)	FULLWORD	4	FCBUFLEN	Shipped buffer length
(40)	HALFWORD	2	FCKEYLEN	Shipped record identifier length
(42)	BITSTRING	1	FCEID (9)	ARG 0 OF EIP PARAMETER LIST (EID)
(4B)	BITSTRING	1	(17)	RESERVED
(5C)	FULLWORD	4	(0)	MAKE LENGTH MULTIPLE OF 4
This DSECT describes the entries required for remote program link				
(5C)	FULLWORD	4	DFHPCENT (0)	PC LINK entries begin here
(5C)	CHARACTER	4	XFR_PC_ATT_TRAN	Transaction code - for mirror attach FMH
(60)	CHARACTER	4	XFR_PC_EIB_TRAN	Transaction code - for mirror EIBTRNID
(64)	FULLWORD	4	XFR_PC_CCSID	Character data conversion 0 => no conversion -1 => conversion required use client code page defined via DFHCNV n => conversion requird use n as override to code page defined via DFHCNV
(68)	FULLWORD	4	XFR_PC_NDIAN	Binary data conversion 0 => no conversion X'01020304' => data held in big endian format X'04030201' => data held in little endian format
(6C)	CHARACTER	8	XFRPNAME	name of program
(74)	HALFWORD	2	XFRCOMML	length of commarea
(76)	HALFWORD	2	XFRDATAL	length of data to be sent
(78)	CHARACTER	4	XFRABCD	Abend code returned from mirror
(7C)	BITSTRING	1	XFRFLAG4	Flag byte
	1... ..		XFRHTRAN	"X'80" hex tranid present
	.1..		XFRDATAV	"X'40" valid DATALENGTH supplied
	1111		ESCARGN	"240" Special id for escape sequence
Fields used for passing terminal error information between MIRS/ISP and the transformer				
(7D)	BITSTRING	4	XFRTCERR	Terminal error
(81)	CHARACTER	4	XFRTCABE	Terminal control abend code
(85)	BITSTRING	4	XFRTCSNS	Terminal control sense data
(90)	DBL WORD	8	CONTAINER_LIST (0)	
(90)	ADDRESS	4	CONTAINER_LIST_P	Address of container list
(94)	FULLWORD	4	CONTAINER_LIST_N	Length of container list

XFR

Offset Hex	Type	Len	Name (Dim)	Description
(98)	FULLWORD	4	XFRCHOUT	# outbound channel bytes
(9C)	FULLWORD	4	XFRCHIN	# inbound channel bytes
FIELDS IN THE XF CONTROL BLOCK THAT ARE UNIQUE TO A BATCH ENVIRONMENT				
(8)	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
(C)	ADDRESS	4	XFRSTG4	ADDRESS OF THE FLATTENED REPLY IN THE BUFFERS OF BATCH DL/I.
(10)	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				
(A0)	ADDRESS	4	XFRPLIST	ADDRESS OF PLIST PASSED TO TRANSFORMER OR ADDRESS OF PLIST CREATED BY TRANSFR
(A4)	ADDRESS	4	XFRATABN	A(1ST TABLE ENTRY) OR 0 - E.G. RPDIR OR DCTTE
(A8)	ADDRESS	4	XFRATAB2	A(2ND TABLE ENTRY) - E.G. PDIR OR 0
(AC)	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
(AD)	CHARACTER	2	XFRARCHD	USED TO SHOW CICS OR SNA ARCHITECTURE WHEN A CHOICE IS AVAILABLE
(AF)	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
(B0)	CHARACTER	1	XFRFUNCT	THE FUNCTION IDENTIFIER FOR THE CURRENT REQUEST
(B1)	CHARACTER	1	XFRFLAGS	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
	1..		XFREILST	"X'80" THE ARGUMENT LIST COMES FROM OR GOES TO EIP
	..		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
(B2)	CHARACTER	1	XFRFLAG1	PARAMETER LIST FLAGS - WITH VALUES SET AS FOLLOWS
	1..		XFRCLQ	"X'80" THE REQUEST MAY BE QUEUED BEFORE SHIPPING
	..1.		XFRFCTK	"X'40" FC Token can be shipped
	..1		XFRFCRQ	"X'20" Shipped FC request
	.... .1		XFRTMERR	"X'10" Terminal error in xformer layer
	.... .1.		XFRSCAP	"X'02" Escape sequence preceding 4-byte legths may be found
	.... .1		XFRCHANL	"X'01" This is a CHANNEL request
(B3)	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
	..1		XFRCHNSP	"X'20" Other end of MRO link supports channels
(B4)	CHARACTER	1	XFRFLAG3	PARAMETER LIST FLAGS - WITH ALL VALUES RESERVED
(B5)	CHARACTER	2	XFRCODES (0)	FLAGS INDICATING WHERE CONTROL IS TO BE PASSED UPON RETURN FROM THE TRANSFORMER
(B5)	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
	11.1 1.11		XFRLNKUN	"219" RESUNAVAIL condition raised in remote region
	.... 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..		XFRLNKPF	"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.
	.... .1.1		XFRDWNLV	"21" The remote system does not support a keyword on this request
	.... .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
	.... 1.1		XFRLNKCP	"9" Special for CPSM only equ of XFRLNKSH.
	.... 1..		XFRLNKSH	"8" ALLOCATE IN ISP HAS FAILED BECAUSE THE LINK, THOUGH EXISTING, IS OUT OF SERVICE
	.... .11.		XFRLNKNS	"6" Type of request (either LINK or START CHANNEL) is not supported over LU6.1 connections
	.... .1.		XFRLNKSY	"4" ALLOCATE IN ISP HAS FAILED BECAUSE NAME IS NOT THAT OF TCTSE
(B6)	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

XLT

Offset Hex	Type	Len	Name (Dim)	Description
	.... 1...		XFRNEGR	"8" TRANSFORMER 2 HAS FOUND AN ERROR - A NEGATIVE RESPONSE IS TO BE SENT
(B7)	CHARACTER	1	XFRABCDE	ABEND CODE INDICATOR PASSED BACK FROM THE TRANSFORMER TO THE BATCH CONTROLLER PROGRAM
(B8)	ADDRESS	4	XFRRESR9	resumption base for DL/I function shipping
(BC)	ADDRESS	4	XFRRESRE	resumption address for DL/I function shipping
(C0)	ADDRESS	4	XFRBEGOP	address of Arg0 options bytes
(C4)	FULLWORD	4	XFRARGS (0)	ORIGIN FOR ARGUMENTS
	1.11 11..		XFRLNGTH	"*-XFRSTART"
STORAGE USED BY TRANSFORMER 2 TO CONSTRUCT A PARAMETER LIST FOR EXEC OR DL/I REQUESTS. THIS STORAGE IS APPENDED TO THE XF CONTROL BLOCK ADDRESSED FROM TCAXFS23 (IT IS ONLY NEEDED IN A MIRROR ENVIRONMENT)				
(C4)	FULLWORD	4	(96)	see comment above
(C4)		0	XFRLNG2	"*-XFRSTART"

XLT Transaction list table

```

MODULE NAME = DFHXLTD5
DESCRIPTIVE NAME = CICS Transaction List Table.
@BANNER_START 02
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5697-E93
@BANNER_END
TRANSACTION LIST TABLE

```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	0	DFHXLTD5	DUMMY SECTION - TRANSACTION LIST TABLE *
(0)	CHARACTER	4	XLTXID	TRANSACTION IDENTIFICATION
	.... .1..		XLTEL	"(*-XLTXID)" TRANSACTION LIST TABLE ENTRY LENGTH *

XMCDs

XMCDs Transaction Manager Tclass Stats

```

CONTROL BLOCK NAME = DFHXMCDs
DESCRIPTIVE NAME = CICS Tclass Statistics
  @BANNER_START 02
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5697-E93
  @BANNER_END
  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)	STRUCTURE	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	XMCTD	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
(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	**-XMCLen" Length of Tclass Stats

XMGDS Transaction Manager Global Stats

CONTROL BLOCK NAME = DFHXMGDS
 DESCRIPTIVE NAME = CICS Transaction Manager Statistics
 @BANNER_START 02
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 5697-E93
 @BANNER_END
 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)	STRUCTURE	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	XMGMXT	Current MAXTASK value
(10)	FULLWORD	4	XMGCAT	Current active user transactions
(14)	FULLWORD	4	XMGCQT	Current queued user transactions
(18)	FULLWORD	4	XMGAMXT	Times at MAXTASK
(1C)	FULLWORD	4	XMGPAT	Peak active user transactions
(20)	FULLWORD	4	XMGPQT	Peak queued user transactions
(24)	FULLWORD	4	XMGAT	Total active user transactions
(28)	FULLWORD	4	XMGDT	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	XMGQTME	Total time spent waiting by transactions that had to queue for MXT but not including transactions currently queued.
(34)	CHARACTER	8	XMGCQTME	Total time spent by transactions currently queued for MXT
(3C)	FULLWORD	4		Reserved
(40)	DBL WORD	8	XMGNUM	Total number of transactions at the time of the last reset
	.1.. 1...		XMGEND	**"

XMRDS

XMRDS Transaction Manager Transaction Stats

```

CONTROL BLOCK NAME = DFHXMRDS
DESCRIPTIVE NAME = CICS Transaction Statistics
  @BANNER_START 02
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5697-E93
  @BANNER_END
  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)	STRUCTURE	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
	111. 1...		XMRDYNY	"C'Y" ...Dynamic = yes
	11.1 .1.1		XMRDYNN	"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
	111. 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

XMRSC

Offset Hex	Type	Len	Name (Dim)	Description
(60)	FULLWORD	4	XMRFACOT	Forced action due to other
(64)	FULLWORD	4	XMRAMISM	Number of Action mismatches
	.11. 1...		XMREND	**"
	.11. 1...		XMRCLEN	**"XMRCLEN" Length of Transaction Stats

XMRSC 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_	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	

XOPUS

XOPUS commarea

```

=====
@BANNER_START 02
Licensed Materials - Property of IBM
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5697-E93
@BANNER_END
This copy book includes the following areas.
sXOPUS - security URM commarea
=====

sXOPUS -
This block is created by DFHIIRH and used as input (in the C
version) to DFHXOPUS or the customer IIOPI security URM.
The C version is contained in DFHIURH which must be kept in
step with this version.
=====

sXOPUS - Request Receive Security URM - default DFHXOPUS
This block contains the COMMAREA obtained by DFHIIRR,
completed by DFHIIRH and used as input the security URM called
by DFHIIRH. It is deleted by DFHIIRR before the transaction
instance terminates.
The block is obtained from the IIGENRAL subpool.
Lengths of data contained in the message buffer such as IIOPI and
LRequestBody are the lengths available in the IIOPI buffer.
It is possibly, but very unlikely, that the fields are partially
or wholly in the buffer extension IIOPI_data_extension.
If a field does not exist its pointer and length will be 0.
=====

```

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	84	SXOPUS	
(0)	CHARACTER	4	STANDARD_HEADER	
(0)	CHARACTER	1	FUNCTION	
(1)	CHARACTER	2	DOMAIN	II
(3)	CHARACTER	1	*	Reserved
(4)	ADDRESS	4	PIIOPDATA	IIOPI buffer unconverted
(8)	UNSIGNED	4	LIIOPI	Length of IIOPI data within this block.
(C)	ADDRESS	4	PREQUESTBODY	Addr of request body
(10)	UNSIGNED	4	LREQUESTBODY	Length of request body within this block .
(14)	CHARACTER	4	CORBASERVER	Name of Corba Server Both
(18)	ADDRESS	4	PBEANNAME	Addr Bean Name in EBCDIC EJB
(1C)	UNSIGNED	4	LBEANNAME	
(20)	UNSIGNED	4	BEANINTERFACETYPE	Enumerated value EJB
(24)	ADDRESS	4	PMODULE	Addr Module in EBCDIC CORBA
(28)	UNSIGNED	4	LMODULE	
(2C)	ADDRESS	4	PINTERFACE	Addr Interface in EBCDIC CORBA
(30)	UNSIGNED	4	LINTERFACE	
(34)	ADDRESS	4	POPERATION	Addr Operation in EBCDIC Both
(38)	UNSIGNED	4	LOPERATION	
(3C)	CHARACTER	8	USERID	IN/OUT
(44)	CHARACTER	4	TRANSID	Input only
(48)	CHARACTER	4	FLAG_BYTES	Indicating byte-order etc.
(48)	UNSIGNED	1	LITTLEENDIAN	1-TRUE, 0-FALSE
(49)	UNSIGNED	1	SSLCLIENTUSERID	0 - USERID set from CICS DFLTUSER 1 - USERID set from ssl certificate
(4A)	UNSIGNED	2	RESERVED	reserved
(4C)	FULLWORD	4	RETURN_CODE	Return code
(50)	FULLWORD	4	REASON_CODE	Reason code

Constants

Len	Type	Value	Name	Description
Constant values for sslClientUserId showing derivation of userid.				
1	DECIMAL	0	FROM_DEFAULT_USERID	
1	DECIMAL	1	FROM_SSL	
Constant values for return_code				
1	DECIMAL	0	NO_PERMISSION	
1	DECIMAL	0	RETCOD0	Name to match DFHXOPUS
1	DECIMAL	1	RCUSRID	name to match DFHXOPUS

XQS1D Shared TS Queue Server CF statistics

CONTROL BLOCK NAME = DFHXQS1D
 DESCRIPTIVE NAME = CICS (XQ) Statistics for list structure.
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	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	"X01" 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	S1ELEM LN	Data element size as a fullword
(40)	ADDRESS	4	S1ELEM PW	Data element size as power of 2
(44)	ADDRESS	4	S1ELEM PE	Max elements per entry (for 32K)
(48)	FULLWORD	4	S1ELEM RT	Element size of entry:element ratio
(4C)	FULLWORD	4	S1ENTR RT	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	S1ENTR CT	Current number of entries in use
(54)	FULLWORD	4	S1ENTR HI	Highest number of entries in use
(58)	FULLWORD	4	S1ENTR LO	Lowest number of free entries
(5C)	FULLWORD	4	S1ENTR MX	Max entries returned by IXLCONN
(60)	FULLWORD	4	S1ELEM CT	Current number of elements in use
(64)	FULLWORD	4	S1ELEM HI	Highest number of elements in use
(68)	FULLWORD	4	S1ELEM LO	Lowest number of free elements
(6C)	FULLWORD	4	S1ELEM MX	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	S1USEVEC (0)	Usage vector, three pairs of words
(70)	FULLWORD	4	S1USEDCT	Number of entries on used list

XQS1D

Offset Hex	Type	Len	Name (Dim)	Description
(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	S1CRLLCT	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
(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
(E0)	FULLWORD	4	S1RSP9CT	Structure temporarily unavailable, for example during rebuild
	111. .1..		S1END	***
	111. .1..		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.
  @BANNER_START 02
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5697-E93
  @BANNER_END
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	Type	Len	Name (Dim)	Description
Hex				
(0)	STRUCTURE	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 use, 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	S2BFACTS	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	S2BFGLRS	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
(54)	FULLWORD	4	S2BFPNOS	PURGE errors, buffer not owned
	.1.1 1...		S2END	**"
	.1.1 1...		S2CLN	**S2LEN" Length of this DSECT

XQS3D

XQS3D Shared TS Queue Server storage statistics

```

CONTROL BLOCK NAME = DFHXQS3D
DESCRIPTIVE NAME = CICS (XQ) Statistics for server storage.
  @BANNER_START 02
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5697-E93
  @BANNER_END
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)	STRUCTURE	0	DFHXQS3D	. XQ main storage statistics record
(0)	FULLWORD	4	S3 (0)	Start of record
(0)	ADDRESS	2	S3LEN	Length of data area
	.111 1.11		S3IDE	"0123" XQ main storage stats mask
(2)	ADDRESS	2	S3ID	XQ main storage stats id
	... ..1		S3VERS	"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	Storage FREE requests
(30)	FULLWORD	4	S3ANYRQS	GETs which failed to get storage
(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	Storage FREE requests
(60)	FULLWORD	4	S3LOWRQS	GETs which failed to get storage
(64)	FULLWORD	4	S3LOWRQC	Compress (defragmentation) attempts
	.11. 1...		S3END	""
	.11. 1...		S3CLEN	""-S3LEN" Length of this DSECT

XRH Extended recovery facility

```

CONTROL BLOCK NAME = DFHXRHPS
DESCRIPTIVE NAME = CICS - Extended Recovery Facility
                    XRP - Health Data Definition
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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	XRHDPEFX	- 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	XRHDTAK	- 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	0	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

XRH

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

Health work element

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	84	XRHW	
(0)	ADDRESS	4	XRHWNEXT	Chain (when free)
(0)	BIT(16)	2	XRHWFLG	Flags (when in use)
	1...		XRHWFSET	Data already passed to CAVM surveillance.
(2)	BIT(16)	2	*	Not used
(4)	CHARACTER	72	XRHWE	Error data
(4C)	CHARACTER	8	XRHWX	Extension data
(54)	CHARACTER	0	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)	BIT(16)	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
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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 DFHXRFB 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 DFHXR
  CTYPE=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	XRSEXRF	- function
(9)	CHARACTER	1	XRSEXRSNS	- signon
(A)	CHARACTER	2	*	Reserved
... pointers ...				
(C)	CHARACTER	16	XRSAX	Pointers
(C)	ADDRESS	4	XRSAXRS0	- A(status data - act)
(10)	ADDRESS	4	XRSAXRS1	- A(status data - alt 1)
(14)	ADDRESS	4	XRSAXRS2	- A(status data - alt 2)
(18)	ADDRESS	4	XRSAXRHD	- A(health data)
... DFHXRFB / DFHXRSP communication area ...				
(1C)	CHARACTER	4	XRSW	DFHXRFB / DFHXRSP comm area

XRS

Offset Hex	Type	Len	Name (Dim)	Description
(1C)	ADDRESS	4	XRSWECHN	- work element queue
... Event Control Blocks ...				
(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)	BIT(22) POS(3)	3	*	Reserved
(27)	BIT(8)	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)	BIT(22) POS(3)	3	*	Reserved
(37)	BIT(8)	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)	BIT(22) POS(3)	3	*	Reserved
(47)	BIT(8)	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)	BIT(22) POS(3)	3	*	Reserved
(57)	BIT(8)	1	XRSRARC	- return code
(58)	CHARACTER	8	XRSRATOD	- time RA ECB posted
(60)	CHARACTER	16	XRSSS	Synchronized wrt Signoff
(60)	CHARACTER	4	XRSSPFIX	- eye catcher
(64)	CHARACTER	4	XRSSSECB	- SS ECB (CICS posted)
	.1..		*	Reserved
	.1..		XRSSSWT	- wait/post bit
(64)	BIT(22) POS(3)	3	*	Reserved
(67)	BIT(8)	1	XRSSSRC	- return code
(68)	CHARACTER	8	XRSSSTOD	- time SS ECB posted
(70)	CHARACTER	16	XRSSST	Synchronized wrt Termination
(70)	CHARACTER	4	XRSSPFIX	- eye catcher
(74)	CHARACTER	4	XRSSTECB	- ST ECB (CICS posted)
	.1..		*	Reserved
	.1..		XRSSWT	- wait/post bit
(74)	BIT(22) POS(3)	3	*	Reserved
(77)	BIT(8)	1	XRSSTRC	- return code
(78)	CHARACTER	8	XRSSTTOD	- time ST ECB posted
(80)	CHARACTER	16	XRSQS	Quiesce Surveillance
(80)	CHARACTER	4	XRSQSPFX	- eye catcher
(84)	CHARACTER	4	XRSQSECB	- QS ECB (CICS posted)
	.1..		*	Reserved
	.1..		XRSQSWT	- wait/post bit
(84)	BIT(22) POS(3)	3	*	Reserved
(87)	BIT(8)	1	XRSQSRC	- return code
(88)	CHARACTER	8	XRSQSTOD	- 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)	BIT(22) POS(3)	3	*	Reserved
(97)	BIT(8)	1	XRSSDRC	- return code
(98)	CHARACTER	8	XRSSDTOD	- time SD ECB posted
... system health data ...				
(A0)	CHARACTER	16	XRSRSH	
(A0)	CHARACTER	8	XRSRSHGAPL	Generic applid
(A8)	CHARACTER	8	XRSRSHSAPL	Specific applid
(B0)	CHARACTER	0	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

XRS

Offset Hex	Type	Len	Name (Dim)	Description
(8)	FULLWORD	4	XRSALN	Total area length
(C)	ADDRESS	4	* (4)	QQQQ space for XRSAXRS0..
(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	XRSASID	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)	BIT(8)	1	XRSASIND	MVS System status
			XRSAXCFA	...XCF services avail
			*	Reserved
(51)	CHARACTER	3	*	Reserved
(54)	CHARACTER	0	*	force word allignment

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
			XRS#SON1	- signed on
			XRS#HBO1	- heartbeat overdue
(14)	BIT(30) POS(3)	4	*	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
			XRS#SON2	- signed on
(28)	BIT(31) POS(2)	4	*	Reserved
(2C)	FULLWORD	4	XRS#NSON	- sign on count
(30)	CHARACTER	8	*	- Write to Operator
(30)	CHARACTER	4	XRS#ECB	- WTOR ECB (OS posted)
			XRS#WAIT	- wait bit
			XRS#POST	- post bit
(30)	BIT(30) POS(3)	4	*	Reserved
(34)	FULLWORD	4	XRS#MID	- identification number
(38)	CHARACTER	3	XRS#AFL	- action flags
			XRS#HBRS	- heartbeat resumed
			XRS#HBOD	- heartbeat overdue
			XRS#RQTP	- request takeover - process WTOR request
			XRS#RQTG	- request takeover - preocess WTOR reply
			XRS#INTK	- initiate takeover
			XRS#PSN	- sign on
			XRS#PSFN	- sign off normal
			XRS#PSFA	- sign off abnormal
(39)			XRS#ATCX	- attach CXCU
(39)	BIT(15) POS(2)	2	*	Reserved
(3B)	CHARACTER	1	XRS#MFL	- action modifier flags
			XRS#SONP	- sign on - pending
			XRS#SOFI	- sign off - implicit
			XRS#ATER	- attach CXCU failed
			XRS#6X16	- heartbeat overdue
			XRS#6416	- message DFH6416
			XRS#6516	- message DFH6516
			XRS#6X18	- request takeover
			XRS#6418	- message DFH6418
			XRS#6518	- message DFH6518
			XRS#DUMP	- request dump
			*	Reserved
(3C)	CHARACTER	16	*	- TOD clock difference
(3C)	CHARACTER	8	*	- wrt CAVM TCB
(3C)	FULLWORD	4	XRS#LBD1	- lower bound
(40)	FULLWORD	4	XRS#UBD1	- upper bound
(44)	CHARACTER	8	*	- wrt CICS TCB
(44)	FULLWORD	4	XRS#LBD2	- lower bound
(48)	FULLWORD	4	XRS#UBD2	- upper bound

XRW

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

```

CONTROL BLOCK NAME = DFHXRWPS
DESCRIPTIVE NAME = CICS (XRF) Work Element Definition
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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.
LIFETIME =
  XRF work elements are created by DFHXRFB and are
  destroyed by DFHXRSP.
STORAGE CLASS =
  XRF work elements are allocated from OS storage.
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.
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 =
  None.
DATA AREAS =
  None.
CONTROL BLOCKS =
  None.
GLOBAL VARIABLES (Macro pass) =
  None.

```

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)	BIT(8)	1	XRWERQM	- request modifier
	1... ..		XRWERQIM	- implicit request
	.1.		XRWERQDU	- DUMP=YES specified
	.1.		XRWERQMD	- MVS system gone
	...1 1111		*	Reserved
(2)	BIT(16)	2	*	Reserved
(4)	ADDRESS	4	XRWECHN	- A(next work element)
(8)	ADDRESS	4	XRWEASD	- A(system status data)

ZCCPS

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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.
@BANNER_START 04
OCO Source Materials DFHZCCPS
5697-E93
The source code for the program is not published
or otherwise divested of its trade secrets,
irrespective of what has been deposited with the
@BANNER_END
NOTES :
DEPENDENCIES = S/390
=====
Data for CICS client CCIN transaction input
=====

```

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	

ZCCPS

Offset Hex	Type	Len	Name (Dim)	Description
(5)	CHARACTER	*	CCIN_CODEPAGE	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	8	CCIN_CAPABILITIES_PARM	
(0)	FULLWORD	4	CCIN_CAPABILITIES_LENGTH	
(4)	UNSIGNED	1	CCIN_CAPABILITIES_PARM_TYPE	
(5)	BIT(8)	1	CCIN_ENVIRON_TYPE	
			*	
			CCIN_EBCDIC	
			CCIN_BIGENDIAN	
(6)	BIT(16)	2	CCIN_CLIENT_CAPABILITIES	
(6)	BIT(8)	1	*	
			CCIN_EXIT_PROCESSING	
			CCIN_TRANSLATE_CAPABLE	
			CCIN_DELETE_ENTRIES	
			CCIN_TCTUA_COMMAREA	
			*	
(7)	BIT(8)	1	*	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	10	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_CTINATTACH_REQS	

Offset Hex	Type	Len	Name (Dim)	Description
(0)	STRUCTURE	6	CCIN_TIMEOUT_PARM	
(0)	FULLWORD	4	CCIN_TIMEOUT_LENGTH	
(4)	UNSIGNED	1	CCIN_TIMEOUT_PARM_TYPE	
(5)	BIT(8)	1	*	
			CCIN_CONV_TIMEOUT_SUPPORTED	
			*	

=====
 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
 =====

ZCCPS

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	
(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	signon capability 1 - required 0 - not required
(0)	FULLWORD	4	CTIN_TERMSOC_LENGTH	
(4)	UNSIGNED	1	CTIN_TERMSOC_PARM_TYPE	
(5)	UNSIGNED	1	CTIN_TERMSOC	
	1... ..		CTIN_TERMSOC_IND	

```

=====
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	

ZCCPS

Offset Hex	Type	Len	Name (Dim)	Description
(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
(0)	STRUCTURE	6	CTIN_TERMSOCS_PARM	like ctin_termsoc_parm
(0)	FULLWORD	4	*	
(4)	UNSIGNED	1	*	
(5)	UNSIGNED	1	*	Signon capability
	1... ..		*	1 - capable 0 - incapable

Constants

Len	Type	Value	Name	Description
=====				
Declare the CCIN header block and response and reason codes				
=====				
Constants for ccin_group				
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	
1	DECIMAL	12	CCIN_TIMEOUT_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	

Len	Type	Value	Name	Description
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	
2	DECIMAL	9	CTIN_CCIN_INACTIVE	
2	DECIMAL	10	CTIN_INVALID_TERMID	
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.**
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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)	BIT(8)	1	*	
	1...		BPS_NOREPLACE	Don't replace existing version
	.1.		BPS_SHIPPED_X	Definition was shipped.
	..11 1..		BPS_TYPE_BITS	
	..1.		BPS_CONN	Connection definition

ZCQ

Offset Hex	Type	Len	Name (Dim)	Description
	...1		BPS_SESS	Session definition
	.... 1...		BPS_POOL	Pipeline definition
	.... .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)	BIT(8)	1	*	
	1...		BPS_TRACE_YES_X	Trace this BPS
(A)	CHARACTER	0	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)	BIT(8)	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	25	ZC_EXIST_BITS	Terminal Existence Bits overlay
			ZC_RESERVED_1_X	Reserved
			ZC_NETNAME_X	Netname Var exists
			ZC_CONSLID_X	Console ID var exists
			ZC_RMTNAME_X	Remote Name var exists
			ZC_SYSDNT_X	Remote system name var exists
			ZC_POOLPTR_X	Pipeline pool pointer exists
			ZC_PRINTTO_X	Printer var exists
			ZC_ALTPRINT_X	Alt printer var exists
(1)			ZC_SPOOLTO_X	DOS Spooler var exists
			ZC_POOLID_X	POOLID var exists
			*	Reserved
			ZC_OPERPRI_X	Operator Priority var exists
			*	Reserved
			*	Reserved
			ZC_OPERID_X	Operator ID var exists
			ZC_OPCLASS_X	Operator class exists
(2)			ZC_NEPCLASS_X	NEP class var exists
			ZC_TRANSACTION_X	Tran ID var exists
			ZC_TRMPRTY_X	Terminal Priority var exists
			*	Reserved
			ZC_LDC_X	LDC var exists
			ZC_LOGMODE_X	LOGMODE var exists
			ZC_PGFSIZE_1_X	Page size var exists
			ZC_PGFSIZE_2_X	Page size var exists
(3)			ZC_ALTPGE_1_X	Alt Page size var exists
			ZC_ALTPGE_2_X	Alt Page size var exists

ZCQ

Offset Hex	Type	Len	Name (Dim)	Description
	.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_HIGHLIGHT_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_SELECTPEN_YE_X	Select Pen
	.1.		ZC_VALIDATE_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
(6)	1..		ZC_AUTOPAGE_YE_X	Autopage
	.1.		ZC_ERRLASTL_YE_X	Error last line
	.1.		ZC_ERRINTEN_YE_X	Error intensify
	.1.		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 highlight blue
	.1.		ZC_ERRHILIG_RE_X	Error highlight red
	.... 1..		ZC_ERRHILIG_UN_X	Error highlight underline
	.... .1.		ZC_ATI_YES_X	ATI allowed
	.... .1.		ZC_TTI_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
	.1.		ZC_DISCONN_YE_X	Disconnect
	.... 1..		ZC_ROUTE_NOTAL_X	Route DMS SP
	.... .1.		ZC_ROUTE_NEVER_X	Route DMS NO
	.... .1.		ZC_GMMMSG_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
	.1.		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
	.1.		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
	.1.		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
	.1.		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.		ZC_SOLMESS_YES_X	Solicit messages
	.... ...1		*	Reserved
(D)	1..		*	Reserved
	.1.		ZC_CONNAUTO_AL_X	Auto connect all
	.1.		ZC_SESSNAME_X	Session name
	.1.		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

Offset Hex	Type	Len	Name (Dim)	Description
	...1		*	Reserved
	...1		ZC_TRANSIENT_X	Autoinstalled terminal
	.... 1...		ZC_TASKLIMIT_X	Pipe line task limit
	.... .1..		ZC_BACKTRAN_YE_X	Background transparency
	.... .1..		ZC_SOSL_YES_X	Ebcdic 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
	...1		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_RSTSIGNO_FO_X	XRF/PS signoff = force =>1
	.1..		ZC_3270COMP_X	3270 compatibility bits
	...1		ZC_LUTYPE2_X	Indicate DEVICE=LUTYPE2
	.... 1...		ZC_UCTRAN_TRAN_X	UC translate tranid
(10)	BIT(6) POS(6)	2	ZC_RESERVED_311	Reserved
(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_MI_X	Attach security Mixed
	...1 1...		ZC_RESERVED_320	Reserved
(12)	BIT(4) POS(6)	2	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
(13)	BIT(5) POS(6)	2	*	Reserved
(14)	...1		ZC_USE_MRO_BITMAP_X	Session for MRO BITMAP
	...1		ZC_TITOKEN_YES_X	token present
(14)	BIT(5) POS(5)	2	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
	.... 1...		ZC_BRACKET_NO_X	Bracket(No)
(15)	BIT(5) POS(6)	2	ZC_RESERVED_510	Reserved for rel 510
(16)	BIT(8) POS(3)	2	ZC_RESERVED_130	Reserved for rel 1.3
(17)	BIT(8) POS(3)	2	ZC_RESERVED_200	Reserved for rel 2.0

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)	BIT(24)	3	*	Reserved
(30)	BIT(64)	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

ZCQ

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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	11	ZX_EXIST_BITS	Connection Existence bits overlay
			*	Reserved
			ZX_NETNAME_X	Connection netname var exists
			ZX_XSNAME_X	Security name var exists
			ZX_USEDFLTU_YE_X	Use default user
			ZX_CONNAUTO_YE_X	Auto connect
			ZX_ATTACHSE_LO_X	Attach security local
			ZX_ATTACHSE_VE_X	Attach security verify
			ZX_DATASTR_USE_X	Data stream user
(1)			ZX_DATASTR_327_X	Data stream 3270
			ZX_DATASTR_SCS_X	Data stream SCS
			ZX_DATASTR_STR_X	Data stream STR field
			ZX_DATASTR_LMS_X	Data stream LMS
			ZX_RECFM_U_X	RECFM Undefined
			ZX_RECFM_VB_X	RECFM Variable blocked
			ZX_CONNAUTO_AL_X	Autoconnect all
			ZX_OUTSERVI_YE_X	Out of service
(2)			ZX_TRANSACTION_X	Transaction ID var exists
			ZX_INTLOG_YES_X	Intlog
			ZX_ACCMETH_XM_X	Cross Memory access method
			ZX_ATTACHSE_ID_X	Attach security ID
			*	Reserved
			ZX_TRANSIENT_X	Autoinstalled connection
			ZX_RMTNAME_X	Remote name
			ZX_RMTSYSN_X	Remote system
(3)			ZX_BINDSECU_YE_X	Bind security on
			ZX_BINDSECU_NO_X	Bind security off
			ZX_ATTACHSE_PE_X	Attach security Persistent
			ZX_ATTACHSE_ML_X	Attach security Mixed
(3)	BIT(8) POS(5)	2	ZX_RESERVED_3XX	Reserved for rel 3.
(4)			ZX_PROTOCOL_EX_X	PROTOCOL=EXCI
			ZX_QUEUELIMIT_X	Allocate queue limit
			ZX_PSRECOVE_SY_X	PSRECOVERY = Sysdefault
			ZX_PSRECOVE_NO_X	PSRECOVERY = None
(5)			ZX_SENDCOUNT_X	Session SENDCOUNT supplied
			ZX_RECEIVECOUN_X	Session RECEIVECOUNT
			ZX_CLONE_X	APPC clone
			ZX_MAXQTIME_X	Allocate queue time
(5)	BIT(5) POS(5)	2	*	Reserved
(6)			ZX_RMTSYSNET_X	Netname of TOR
			ZX_TITOKEN_YES_X	token present
			ZX_RESERVED_410	Reserved for rel 410
(7)			ZX_GR_X	Both sides GR registered
			ZX_GRNAME_CONN_X	On = GR name connection

Offset Hex	Type	Len	Name (Dim)	Description
Off = member name conn.				
...	...		ZX_USE_OUR_MEM_X	Partner used our membername
...	...		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)	BIT(8)	1	ZX_RESERVED_510	Reserved for rel 510
(9)	BIT(8)	1	ZX_RESERVED_130	Reserved for rel 1.3
(A)	BIT(8)	1	ZX_RESERVED_200	Reserved for rel 2.0

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	25		
4	DECIMAL	11		
4	DECIMAL	257		
4	DECIMAL	86		
4	DECIMAL	576	BPS_C_MAXSIZE	
4	DECIMAL	135	BPS_X_MAXSIZE	

ZEPD

ZEPD TCP modules address list

CONTROL BLOCK NAME = DFHZEPD
 DESCRIPTIVE NAME = CICS TCP Modules Address List.
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END

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

ZEPD

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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)		0	ZEPDLEN	"*-DFHZEPD" Total length
(1A0)		0	ZEPDLENV	"ZEPDLEN-ZEPDLENC" VTAM length

ZGDC

ZGDC Domain subroutine equates

```

=====
CONTROL BLOCK NAME = DFHZGDCC
DESCRIPTIVE NAME = CICS ZC domain subroutine constants
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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

```

Constants

Len	Type	Value	Name	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_	
			ZCN2_UNINSTALL_ERROR	
				@LDA
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_	
			INVALID_VERSION	
				@LDA
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_	
			NO_CAPABILITIES	
				@LDA
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_	
			COND_ENQ_FAILED	
				@LDA
2	HEX	3016	TID_ZCN2_	
			RECOVERY_ENTERED	
2	HEX	3017	TID_ZCN2_	
			ACQ_PROG_FAILED	
				@LDA

ZGDC

Len	Type	Value	Name	Description
2	HEX	305E	TID_CCNV3_ TOKEN_CLX_BAD	@LIC
2	HEX	305F	TID_CCNV3_ TOKEN_SRX_BAD	@LIC
2	HEX	3060	TID_CCNV3_ SBCSTOK_CHAR_BAD	@LIC
2	HEX	3061	TID_CCNV3_3270_SBA_BAD	@LIC
2	HEX	3062	TID_CCNV3_3270_SF_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
2	HEX	3070	TID_CCNV3_ DBCS_MAP_BEFORE	@LIA
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	@LIA
<hr/>				
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	@D1A
2	HEX	FA04	TID_ZGAI_ RECOVERY_ENTERED	@D1A
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_ TEMPLATENOT_FOUND	@D1A

ZGDC

Len	Type	Value	Name	Description
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	@L6A
<hr/>				
DFHZGXA				
2	HEX	FA30	TID_ZGXA_ENTRY	@L5A
2	HEX	FA31	TID_ZGXA_EXIT	@L5A
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

ZGDC

Len	Type	Value	Name	Description
2	HEX	FA3A	TID_ZGXA_ FF80_MECH_ID_ERR	@L5A
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	@L5A
2	HEX	FA42	TID_ZGXA_ INVALID_SUBFIELD	@L5A
2	HEX	FA43	TID_ZGXA_ TICKET_NO_AUTH	@L5A
2	HEX	FA44	TID_ZGXA_ AUTH_REQD_BY_USER	@L5A
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	@L5A
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	@L5A
<hr/>				
DFHZGCH				
2	HEX	FA50	TID_ZGCH_ENTRY	@LBA
2	HEX	FA51	TID_ZGCH_EXIT	@LBA
2	HEX	FA52	TID_ZGCH_ BEFORE_CHANGE_MACRO	@LBA
2	HEX	FA53	TID_ZGCH_ AFTER_CHANGE_MACRO	@LBA
2	HEX	FA54	TID_ZGCH_ CHANGE_MACRO_FAILED	@LBA
2	HEX	FA55	TID_ZGCH_ RECOVERY_ENTERED	@LBA
2	HEX	FA56	TID_ZGCH_ ENDAFFIN_REJECTED	@LBA
2	HEX	FA57	TID_ZGCH_ INVALID_FORMAT	@LBA
2	HEX	FA58	TID_ZGCH_ INVALID_FUNCTION	@LBA
2	HEX	FA59	TID_ZGCH_ZGTA_FAILED	@LCA
<hr/>				
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	@L7A
2	HEX	FA64	TID_ZGTI_ RECOVERY_ENTERED	@L7A
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

ZGDC

Len	Type	Value	Name	Description
2	HEX	FA6B	TID_ZGTI_	@L7A
2	HEX	FA6C	INVALID_VTAM_ONLY	
2	HEX	FA6D	TID_ZGTI_UNIQUE_INVALID	@L7A
2	HEX	FA6E	TID_ZGTI_GETMAIN_FAILED	@L7A
2	HEX	FA6E	TID_ZGTI_FREEMAIN_FAILED	@L7A
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	@L7A
<hr/>				
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	@L9A
2	HEX	FA84	TID_ZGTA_RECOVERY_ENTERED	@L9A
2	HEX	FA85	TID_ZGTA_TERMID_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	@L9A
2	HEX	FA97	TID_ZGTA_NO_RRAB	@L9A
2	HEX	FA98	TID_ZGTA_ZGTI_ERROR	@L9A
2	HEX	FA99	TID_ZGTA_MBRNAME_INVALID	@L9A
2	HEX	FA9A	TID_ZGTA_MBRNAME_ERROR	@L9A
<hr/>				
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	@D4A
2	HEX	FAB4	TID_ZGIN_INQUIRE_NQN_FAILED	@D4A
2	HEX	FAB5	TID_ZGIN_INQUIRE_SESSNAME_FAILED	@D4A
2	HEX	FAB6	TID_ZGIN_RECOVERY_ENTERED	@D4A
2	HEX	FAB7	TID_ZGIN_NQN_REJECTED	@D4A
2	HEX	FAB8	TID_ZGIN_SESSNAME_REJECTED	@D4A

ZGDC

Len	Type	Value	Name	Description
2	HEX	FAB9	TID_ZGIN_INVALID_FORMAT	@D4A
2	HEX	FABA	TID_ZGIN_INVALID_FUNCTION	
<hr/>				
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	
<hr/>				
DFHTCRP				
2	HEX	FB07	TID_TCRP_NO_BITMAP_STG	
2	HEX	FB08	TID_TCRP_ENTRY	@LFC
2	HEX	FB09	TID_TCRP_EXIT	@PCA
2	HEX	FB0A	TID_TCRP_RECOVERY_ENTERED	@PCA
<hr/>				
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	
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	

ZGDC

Len	Type	Value	Name	Description
2	HEX	FB35	TID_ZGRP_ MBRNAME_ERROR	
<hr/>				
DFHZCGRP				
2	HEX	FB38	TID_ZCGRP_ENTRY	
2	HEX	FB39	TID_ZCGRP_EXIT	
<hr/>				
DFHZRTP				
2	HEX	FB3A	TID_ZRTP_ENTRY	@D5A
2	HEX	FB3B	TID_ZRTP_EXIT	@D5A
2	HEX	FB3C	TID_ZRTP_ CATALOG_ERROR	@D5A
2	HEX	FB3D	TID_ZRTP_INVALID_START_ TYPE	
<hr/>				
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_TERMSSESS	
2	HEX	FB4C	TID_ZGUB_ AFTER_TERMSSESS	
2	HEX	FB4D	TID_ZGUB_ BEFORE_UNBIND_EXECPRL	
2	HEX	FB4E	TID_ZGUB_ AFTER_UNBIND_EXECPRL	
<hr/>				
DFHZGSL				
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	
<hr/>				
DFHZGCC				
2	HEX	FB60	TID_ZGCC_ENTRY	@L1A
2	HEX	FB61	TID_ZGCC_EXIT	@L1A
2	HEX	FB62	TID_ZGCC_ INVALID_FORMAT	@L1A
2	HEX	FB63	TID_ZGCC_ INVALID_FUNCTION	
2	HEX	FB64	TID_ZGCC_ RECOVERY_ENTERED	
<hr/>				
DFHZGPC				
2	HEX	FB65	TID_ZGPC_ENTRY	@L1A
2	HEX	FB66	TID_ZGPC_EXIT	@L1A
2	HEX	FB67	TID_ZGPC_ INVALID_FORMAT	@L1A
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_ NO_SESSION_AVAILABLE	@L1A

ZGDC

Len	Type	Value	Name	Description
DFHZXRC				
2	HEX	FB70	TID_ZXRC_V29_DATA	@L3A
DFHZGDA				
2	HEX	FB71	TID_ZGDA_ENTRY	@L3A
2	HEX	FB72	TID_ZGDA_EXIT	@L3A
2	HEX	FB73	TID_ZGDA_	
2	HEX	FB74	INVALID_FUNCTION TID_ZGDA_ INVALID_FORMAT	@L3A
2	HEX	FB75	TID_ZGDA_	
2	HEX	FB76	SENSE_088B_RECEIVED TID_ZGDA_	
2	HEX	FB77	INVALID_PRSS_STATUS TID_ZGDA_ RECEIVE_FAILED	@L3A
2	HEX	FB78	TID_ZGDA_	
2	HEX	FB79	UNEXPECTED_RESPONSE TID_ZGDA_ BAD_BRACKET_STATE_ SEND	@L3A
2	HEX	FB7A	TID_ZGDA_ BAD_BRACKET_STATE_REC	@L3A
2	HEX	FB7B	TID_ZGDA_ NO_STORAGE_FMH7	@L3A
2	HEX	FB7C	TID_ZGDA_RECOVERY	@L3A
2	HEX	FB7D	TID_ZGDA_	
2	HEX	FB7E	UNEXPECTED_BR_STATE TID_ZGDA_	
2	HEX	FB7F	INVALID_TCTTE_PTR TID_ZGDA_	
2	HEX	FB80	RECOVERY_ENTERED TID_ZGDA_ UNEXPECTED_CH_STATE	
DFHZPCT				
2	HEX	FB81	TID_ZPCT_ENTRY	@D5A
2	HEX	FB82	TID_ZPCT_EXIT	@D5A
2	HEX	FB83	TID_ZPCT_INVALID_START_ TYPE	
2	HEX	FB84	TID_ZPCT_ CATALOG_ERROR	@D5A
DFHZGSL Generic resource				
2	HEX	FB87	TID_ZGSL_ BEFORE_NIB_INIT	@D2A
2	HEX	FB88	TID_ZGSL_ AFTER_NIB_INIT	@D2A
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
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	

ZGDC

Len	Type	Value	Name	Description
2	HEX	FB9E	TID_ZLS1_ SHUTDOWN_AND_ACB_ CLOSED	@PEA
<hr/>				
DFHZSGN				
2	HEX	FB98	TID_ZSGN_ENTRY	@D5A
2	HEX	FB99	TID_ZSGN_EXIT	@D5A
2	HEX	FB9A	TID_ZSGN_INVALID_START_ TYPE	
2	HEX	FB9B	TID_ZSGN_SIGNON_FAILED	@D5A
2	HEX	FB9C	TID_ZSGN_ CATALOG_ERROR	@D5A
2	HEX	FB9D	TID_ZSGN_ SIGNOFF_FAILED	@PDA
<hr/>				
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_MODENAME	
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	
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
2	HEX	FBB9	TID_ZGCM_ MODEGROUP_CHANGED	@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

ZGDC

Len	Type	Value	Name	Description
2	HEX	FBC5	TID_ZGCA_TC_MATRIX	@L2A
2	HEX	FBC6	TID_ZGCA_	
2	HEX	FBC7	RECOVERY_ENTERED	
2	HEX	FBC8	TID_ZGCA_	@L2A
2	HEX	FBC9	INVALID_FUNCTION	
2	HEX	FBC9	TID_ZGCA_	
2	HEX	FBC9	CHANGE_INCOMPLETE	
<hr/>				
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_	
2	HEX	FBD4	CV29_DATA_MISSING	
2	HEX	FBD5	TID_ZXPS_	
2	HEX	FBD5	INVALID_BIS_DATA	
2	HEX	FBD7	TID_ZXPS_	
2	HEX	FBD7	INVALID_BID_DATA	
2	HEX	FBD7	TID_ZXPS_	
2	HEX	FBD8	MISSING_BID_FLOW	
2	HEX	FBD8	TID_ZXPS_INVALID_RUCAT	@L3A
2	HEX	FBD9	TID_ZXPS_	
2	HEX	FBD9	INCONSISTENT_DATA_	
2	HEX	FBD9	FLOW	@L3A
2	HEX	FBD9	TID_ZXPS_	
2	HEX	FBD9	UNIDENTIFIED_RESPONSE	@L3A
2	HEX	FBD9	TID_ZXPS_	
2	HEX	FBD9	UNKNOWN_COMMAND	@L3A
2	HEX	FBD9	TID_ZXPS_	
2	HEX	FBD9	UNEXPECTED_BIS_RESP	@L3A
2	HEX	FBD9	TID_ZXPS_	
2	HEX	FBD9	UNKNOWN_CMD_RESPONSE	@L3A
2	HEX	FBD9	TID_ZXPS_	
2	HEX	FBD9	INVALID_BID_STATUS	
2	HEX	FBD9	TID_ZXPS_	
2	HEX	FBD9	INVALID_ZGDA_MODE	
2	HEX	FBD9	TID_ZXPS_	
2	HEX	FBD9	INVALID_ZGDA_PARM	
2	HEX	FBD9	TID_ZXPS_	
2	HEX	FBD9	UNKNOWN_STATE_	
2	HEX	FBD9	AFTER_SIG	@P6A
2	HEX	FBD9	TID_ZXPS_	
2	HEX	FBD9	RECOVERY_ABANDONED	
2	HEX	FBD9	TID_ZXPS_	
2	HEX	FBD9	RESETSR_FAILED	@L3A
2	HEX	FBD9	TID_ZXPS_	
2	HEX	FBD9	TRACKING_DATA_MISSING	@L3A
2	HEX	FBD9	TID_ZXPS_	
2	HEX	FBD9	DOMAIN_CALL_FAILED	
2	HEX	FBD9	TID_ZXPS_CV29_TRACE	@P3C
2	HEX	FBD9	TID_ZXPS_	
2	HEX	FBD9	NO_BIS_RECOVERY	@P7A
<hr/>				
DFHZGPR				
2	HEX	FBF0	TID_ZGPR_ENTRY	@L4A
2	HEX	FBF1	TID_ZGPR_EXIT	@L4A
2	HEX	FBF2	TID_ZGPR_	
2	HEX	FBF2	INVALID_FORMAT	@L4A
2	HEX	FBF3	TID_ZGPR_	
2	HEX	FBF3	INVALID_FUNCTION	
2	HEX	FBF4	TID_ZGPR_	
2	HEX	FBF4	INVALID_TCSE_PTR	
2	HEX	FBF5	TID_ZGPR_	
2	HEX	FBF5	INCR_CCCC_ERROR	@L4A
2	HEX	FBF6	TID_ZGPR_	
2	HEX	FBF6	DECR_CCCC_ERROR	@L4A
2	HEX	FBF7	TID_ZGPR_	
2	HEX	FBF7	INQ_CCCC_ERROR	@L4A
2	HEX	FBF8	TID_ZGPR_	
2	HEX	FBF8	RESET_CCCC_ERROR	
2	HEX	FBF9	TID_ZGPR_	
2	HEX	FBF9	RECOVERY_ENTERED	

ZGRP

Len	Type	Value	Name	Description
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
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

ZGRP

```

=====
CONTROL BLOCK NAME = DFHZGRPC
DESCRIPTIVE NAME = CICS PRSS initialisaton blocks
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
The following control blocks are all created by DFHZGRP.
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.

ZGRP

Offset Hex	Type	Len	Name (Dim)	Description
(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
(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
			NIBNNAMS	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	
			NIBLAST	Off if last nib @P7C
			NIBCON	On if OPNDST restore OK
(29)	UNSIGNED	1	NIBFLG2	
			*	
			NIBPSPLU	On if primary
			NIBPSDFS	On if Continue specific
			NIBPSDFA	On if Continue any
			NIBPSRSP	On if RESP data mode
(2A)	CHARACTER	2	*	
(2C)	ADDRESS	4	NIBEXLST	@L2A
(30)	CHARACTER	8	NIBGENN	Generic resource name @L5A
(30)	CHARACTER	8	NIBLMODE	@L5A
(38)	CHARACTER	4	*	@L5C
(3C)	ADDRESS	4	NIBRPARM	Pointer to restore plist

ZGRP

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	BINFMT	FM profile
(2)	UNSIGNED	1	BINTS	TS profile
(3)	CHARACTER	3	*	
(6)	BIT(8)	1	BINCMNP2	7 Send/Receive mode
			*	
			BINBKFS	Bit X'10' Primary is brackets
			*	
(7)	BIT(8)	1	BINAPACE	8 SLU send pacing
(8)	BIT(8)	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)	BIT(8)	1	BINSPACE	12 PLU send pacing
(C)	BIT(8)	1	BINBPACE	13 PLU receive pacing
(D)	UNSIGNED	1	BINLUP	14 LU type
(E)	CHARACTER	11	BINPSCHR	Bytes 15-25
(E)	BIT(8)	1	BINLULEV	15 LU Type
(F)	BIT(8)	1	BINARCH1	16 Arch info 1
(10)	CHARACTER	5	*	17-21
(15)	BIT(8)	1	BINFLG0	22 Flag byte
			BINES	Bit X'80' Ext Sec Supp
			*	
(16)	BIT(8)	1	BINFLG1	23 Flag byte
			*	
			BINCLSS	Bit X'01' Acc sec supp
			*	
			BINAVFS	Bit X'02' Already verif
			BINPV	Bit X'01' Persist verif
(17)	BIT(8)	1	BINFLG2	24 Flag byte
			*	
			BINCSBK	Bit X'40' Sync level 2

ZGRP

Offset Hex	Type	Len	Name (Dim)	Description
	..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
(18)	.... ..1 BIT(8)	1	BINGDSVF BINFLG3	Bit X'01' CNOS supported 25 Flag byte
	1...		*	
	.1..		BINLTDRC	Bit X'40' LR bit
(19)	..11 1111 BIT(8)	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 'II02'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 'II03'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

ZGRP

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
NIB_DATA_LENGTH Length of one NIB, PLIST and data returned by INQUIRE PERSESS Note - after VTAM APAR OY65251 LU62 NIB data will also contain key 04 from the bind user data - with a maximum length of 19 VTAM may add extra subfields in later releases - in which case this length must be increased.				
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.
  @BANNER_START 02
  Licensed Materials - Property of IBM
  "Restricted Materials of IBM"
  5697-E93
  @BANNER_END
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)	BIT(8)	1	LUITA_FLAGS	
	1...		LUITA_TIME_ OUT_IN_PROGRESS	
	.111 1111		*	Reserved
(9)	CHARACTER	3	*	Reserved

ZLUIT

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
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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 RPLLEN (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 Hex	Type	Len	Name (Dim)	Description
(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)	BIT(8)	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
	.... ...1		ZRPLNRE	Caller handles No-TCT errs
(21)	BIT(8)	1	*	
	1... ..		ZRPLERR	ZHPCH must call exit (ZSYX/ZLEX)
(22)	CHARACTER	2	*	Reserved
(24)	CHARACTER	0	*	Alignment

ZXQOD

ZXQOD XRF tracking queue organiser

CONTROL BLOCK NAME = DFHZXQOD
DESCRIPTIVE NAME = **CICS XRF tracking queue organiser**
(DFHZXQO) interface declaration.
@BANNER_START 02
Licensed Materials - Property of IBM
"Restricted Materials of IBM"
5697-E93
@BANNER_END
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)	BIT(32)	4	XQOJECTE	ECB posted when ZXQO is drained

Constants

Len	Type	Value	Name	Description
XQO_REQCODE values :-				
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_SCHEDULED	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.
 @BANNER_START 02
 Licensed Materials - Property of IBM
 "Restricted Materials of IBM"
 5697-E93
 @BANNER_END
 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)	BIT(8)	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)	BIT(8)	1	*	
	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.

ZXTR

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)	BIT(8)	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

ZXTR

ZXTR

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Special Characters

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@NM00002 (CONSTANT) TMRQ 494

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XRF mapping session state vector '29', TCV29 473

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TCADIQTT (CONSTANT) TCA	415
TCADIQUA (CONSTANT) TCA	415
TCADIQUF (CONSTANT) TCA	415
TCADIQUI (CONSTANT) TCA	415
TCADIQXD (CONSTANT) TCA	414
TCADIQXM (CONSTANT) TCA	414
TCADIRC (58) TCA	409
TCADIRC1 (58) TCA	409
TCADIRC2 (59) TCA	409
TCADIRLE (CONSTANT) TCA	415
TCADIRNA (60) TCA	410
TCADISEL (5F) TCA	410
TCADIVNA (68) TCA	410
TCADLBSY (CONSTANT) TCA	414
TCADLCSP (CONSTANT) TCA	414
TCADLDBC (CONSTANT) TCA	414
TCADLDNF (CONSTANT) TCA	414
TCADLFCA (CONSTANT) TCA	414
TCADLFCL (CONSTANT) TCA	414
TCADLFDA (CONSTANT) TCA	414
TCADLFPX (CONSTANT) TCA	413
TCADLFUF (CONSTANT) TCA	413
TCADLFUN (68) TCA	407
TCADLIAC (CONSTANT) TCA	414
TCADLIBA (1A8) TCADY	418
TCADLIBA (2A8) TCA	400
TCADLIDB (CONSTANT) TCA	413
TCADLIGL (CONSTANT) TCA	414
TCADLII (163) TCA	398
TCADLII (63) TCADY	416
TCADLINA (CONSTANT) TCA	413
TCADLINT (CONSTANT) TCA	414
TCADLINV (CONSTANT) TCA	413
TCADLIO (70) TCA	407
TCADLIRA (CONSTANT) TCA	414
TCADLISC (CONSTANT) TCA	414
TCADLISI (BIT) TCA	398
TCADLISI (BIT) TCADY	416
TCADLIST (1C8) TCA	399
TCADLIST (C8) TCADY	417
TCADLLAN (78) TCA	407
TCADLLNR (CONSTANT) TCA	414
TCADLNA (CONSTANT) TCA	414
TCADLNGL (CONSTANT) TCA	413
TCADLNOI (CONSTANT) TCA	414
TCADLNOP (CONSTANT) TCA	413
TCADLNPI (CONSTANT) TCA	413
TCADLNR (CONSTANT) TCA	413
TCADLPAR (5C) TCA	407
TCADLPCB (6C) TCA	407
TCADLPIF (CONSTANT) TCA	413
TCADLPIN (CONSTANT) TCA	413
TCADLPNF (CONSTANT) TCA	413
TCADLPSB (60) TCA	407
TCADLRC (58) TCA	407
TCADLRE2 (CONSTANT) TCA	413

TCAKCREP (CONSTANT) TCA	410
TCAKCSRB (59) TCA	401
TCAKCSR1 (CONSTANT) TCA	411
TCAKCSRK (CONSTANT) TCA	411
TCAKCSRQ (CONSTANT) TCA	410
TCAKCSRR (CONSTANT) TCA	411
TCAKCSRW (CONSTANT) TCA	411
TCAKCSSF (5C) TCA	401
TCAKCSYS (6C) TCA	401
TCAKCTA (78) TCA	401
TCAKCTI (70) TCA	401
TCAKCTNF (CONSTANT) TCA	411
TCAKCTRM (BIT) TCA	401
TCAKCTTA (11) TCADY	415
TCAKCTTA (111) TCA	397
TCAKCTTI (1B0) TCA	399
TCAKCTTI (B0) TCADY	417
TCAKCUID (5D) TCA	401
TCAKCUIL (5C) TCA	401
TCAKCWRN (CONSTANT) TCA	411
TCAKEDAD (1F8) TCADY	418
TCAKEDAD (2F8) TCA	400
TCALCDSA (10) TCA	395
TCAL EDT (148) TCA	398
TCAL EDT (48) TCADY	416
TCALFR1 (E4) TCA	397
TCALFR14 (E8) TCA	397
TCALO CA (CONSTANT) TCA	410
TCALOC R (CONSTANT) TCA	410
TCALTFRE (130) TCADY	418
TCALTFRE (230) TCA	399
TCALTGET (1A4) TCA	399
TCALTGET (A4) TCADY	417
TCAMAPNM (7D) TCA	406
TCAMCPY (94) TCA	406
TCAMFLAG (FB) TCA	397
TCAMSAPR (BIT) TCA	405
TCAMSCBM (BIT) TCA	404
TCAMSDSS (BIT) TCA	404
TCAMSEIC (BIT) TCA	405
TCAMSEO (BIT) TCA	405
TCAMSEOC (BIT) TCA	405
TCAMSEOD (BIT) TCA	405
TCAMSEPO (BIT) TCA	405
TCAMSETI (BIT) TCA	405
TCAMSFMP (80) TCA	406
TCAMSFSC (64) TCA	406
TCAMSHDR (68) TCA	406
TCAMSJET (BIT) TCA	404
TCAMSIFH (BIT) TCA	405
TCAMSIGR (BIT) TCA	405
TCAMSIMN (BIT) TCA	404
TCAMSIOA (60) TCA	406
TCAMSIOT (BIT) TCA	405
TCAMSIPF (BIT) TCA	404
TCAMSIPN (BIT) TCA	404
TCAMSIPR (BIT) TCA	405
TCAMSIPS (BIT) TCA	404
TCAMSIR (BIT) TCA	404
TCAMSJ (65) TCA	406
TCAMSJF (CONSTANT) TCA	413
TCAMSJL (CONSTANT) TCA	413
TCAMSLDC (7A) TCA	406
TCAMSLDM (78) TCA	406
TCAMSLPS (BIT) TCA	405
TCAMSLST (BIT) TCA	405
TCAMSMGC (BIT) TCA	406
TCAMSMGM (BIT) TCA	405
TCAMSMSA (70) TCA	406
TCAMSM SN (70) TCA	406
TCAMSM SR (88) TCA	406
TCAMSM TL (BIT) TCA	404
TCAMSNR1 (CONSTANT) TCA	413
TCAMSOC (75) TCA	406
TCAMSOCN (5E) TCA	405
TCAMSOI (BIT) TCA	405
TCAMSOPR (BIT) TCA	405
TCAMSOPT (BIT) TCA	405
TCAMSPGN (5C) TCA	405
TCAMSPGS (BIT) TCA	405
TCAMSPOF (5C) TCA	405
TCAMSPRI (BIT) TCA	404
TCAMSPSN (68) TCA	406
TCAMSR A (BIT) TCA	405
TCAMSRC1 (58) TCA	404
TCAMSRC2 (59) TCA	404
TCAMSRC3 (5A) TCA	404
TCAMSRCD (BIT) TCA	404
TCAMSRDA (BIT) TCA	405
TCAMSRF (BIT) TCA	404
TCAMSRI (BIT) TCA	405
TCAMSRI1 (5B) TCA	405
TCAMSRID (7B) TCA	406
TCAMSRIN (BIT) TCA	405
TCAMSR LA (68) TCA	406
TCAMSR OC (BIT) TCA	405
TCAMSR PL (66) TCA	406
TCAMSRPT (BIT) TCA	405
TCAMSRQI (BIT) TCA	405
TCAMSRQS (8C) TCA	406
TCAMSR S (B0) TCA	406
TCAMSRSA (BIT) TCA	405
TCAMSRT (BIT) TCA	405
TCAMSR TI (6C) TCA	406
TCAMSR TL (BIT) TCA	405
TCAMSRW (BIT) TCA	404
TCAMSSIG (BIT) TCA	405
TCAMSTA (60) TCA	406
TCAMSTC (BIT) TCA	405
TCAMSTCA (BIT) TCA	405
TCAMSTCK (BIT) TCA	405
TCAMSTCP (BIT) TCA	405
TCAMSTCR (BIT) TCA	405
TCAMSTCW (BIT) TCA	405
TCAMSTDN (BIT) TCA	405
TCAMSTDY (CONSTANT) TCA	413
TCAMSTEU (BIT) TCA	405
TCAMSTFF (BIT) TCA	405
TCAMSTFP (BIT) TCA	405
TCAMSTH (BIT) TCA	405
TCAMSTI (70) TCA	406
TCAMSTJ (BIT) TCA	405
TCAMSTLD (BIT) TCA	405
TCAMSTMA (BIT) TCA	405
TCAMSTMN (BIT) TCA	405
TCAMSTOF (BIT) TCA	405
TCAMSTR1 (58) TCA	405
TCAMSTR2 (59) TCA	405
TCAMSTR3 (5A) TCA	405
TCAMSTR4 (5B) TCA	405
TCAMSTR5 (5C) TCA	405
TCAMSTR6 (5D) TCA	405
TCAMSTR7 (5E) TCA	405
TCAMSTR8 (5F) TCA	405
TCAMSTRB (BIT) TCA	405
TCAMSTRE (BIT) TCA	405
TCAMSTRF (BIT) TCA	405
TCAMSTRG (BIT) TCA	405
TCAMSTRI (BIT) TCA	405
TCAMSTRL (6C) TCA	406
TCAMSTRLOC (BIT) TCA	405
TCAMSTRM (BIT) TCA	405
TCAMSTRN (BIT) TCA	405
TCAMSTRO (BIT) TCA	405
TCAMSTRP (BIT) TCA	405
TCAMSTRR (BIT) TCA	405
TCAMSTRS (BIT) TCA	405
TCAMSTRT (BIT) TCA	405
TCAMSTRU (BIT) TCA	405
TCAMSTRW (BIT) TCA	405
TCAMSTRX (BIT) TCA	405
TCAMSTSA (BIT) TCA	405
TCAMSTSE (BIT) TCA	404
TCAMSTSN (BIT) TCA	405
TCAMSTT (BIT) TCA	405
TCAMSUXI (BIT) TCA	404
TCAMSWBA (BIT) TCA	405
TCAMSWBC (BIT) TCA	405
TCAMSWCC (64) TCA	406
TCAMSWRB (BIT) TCA	405
TCANOHIT (CONSTANT) TCA	410
TCANOTRC (BIT) TCA	398
TCANOTRC (BIT) TCADY	417
TCAORABC (17C) TCA	398
TCAORABC (7C) TCADY	416
TCAOSPWA (158) TCA	398
TCAOSPWA (58) TCADY	416
TCAPCAAC (CONSTANT) TCA	410
TCAPCABA (CONSTANT) TCA	413
TCAPCABC (1D4) TCA	399

TCAPCABC (D4) TCADY 417	TCAPSS (190) TCADY 418
TCAPCABD (CONSTANT) TCA 413	TCAPSS (290) TCA 400
TCAPCABN (CONSTANT) TCA 413	TCAPSTBA (190) TCADY 418
TCAPCABR (1B) TCA 395	TCAPSTBA (290) TCA 400
TCAPCAC (64) TCA 404	TCAPURGI (1C) TCA 396
TCAPCACA (CONSTANT) TCA 413	TCARDSA (CONSTANT) TCA 410
TCAPCACB (1DC) TCA 399	TCAREGPT (19C) TCA 399
TCAPCACB (DC) TCADY 417	TCAREGPT (9C) TCADY 417
TCAPCADC (CONSTANT) TCA 413	TCAREMOT (BIT) TCA 399
TCAPCAGO (CONSTANT) TCA 410	TCAREMOT (BIT) TCADY 417
TCAPCANC (CONSTANT) TCA 410	TCARLB (184) TCA 399
TCAPCARO (FA) TCA 397	TCARLB (84) TCADY 417
TCAPCCA (144) TCA 398	TCARMSYS (204) TCADY 419
TCAPCCA (44) TCADY 416	TCARMSYS (304) TCA 400
TCAPCCIK (CONSTANT) TCA 411	TCARMTRA (200) TCADY 419
TCAPCDMP (1B) TCA 395	TCARMTRA (300) TCA 400
TCAPCDSA (144) TCA 398	TCAROLLB (BIT) TCA 396
TCAPCDSA (44) TCADY 416	TCAROUTE (BIT) TCA 399
TCAPCEA (64) TCA 404	TCAROUTE (BIT) TCADY 417
TCAPCEPI (74) TCA 404	TCARSBA (1C0) TCA 399
TCAPCERA (5C) TCA 404	TCARSBA (C0) TCADY 417
TCAPCEXR (CONSTANT) TCA 413	TCARSREQ (BIT) TCA 399
TCAPCEXT (CONSTANT) TCA 413	TCARSREQ (BIT) TCADY 417
TCAPCFFA (CONSTANT) TCA 413	TCARSTSK (128) TCA 397
TCAPCHS (140) TCA 397	TCARSTSK (28) TCADY 415
TCAPCHS (40) TCADY 416	TCARTNSV (2C) TCA 396
TCAPCINV (CONSTANT) TCA 413	TCARTST (BIT) TCA 400
TCAPCIPN (14C) TCA 398	TCARTST (BIT) TCADY 418
TCAPCIPN (4C) TCADY 416	TCASAVE1 (28) TCA 396
TCAPCLA (68) TCA 404	TCASCFRE (BIT) TCA 396
TCAPCLNK (CONSTANT) TCA 413	TCASCGET (BIT) TCA 396
TCAPCMEA (F4) TCA 397	TCASCIB (35) TCA 396
TCAPCNOD (CONSTANT) TCA 413	TCASCNB (36) TCA 396
TCAPCNON (CONSTANT) TCA 413	TCASCREL (BIT) TCA 396
TCAPCPA (144) TCA 398	TCASCRS (38) TCA 396
TCAPCPA (44) TCADY 416	TCASCS (182) TCA 398
TCAPCPI (5C) TCA 404	TCASCS (82) TCADY 417
TCAPCPNR (CONSTANT) TCA 413	TCASCSA (30) TCA 396
TCAPCREX (CONSTANT) TCA 413	TCASCSA (BIT) TCA 399
TCAPCRFL (F8) TCA 397	TCASCSA (BIT) TCADY 417
TCAPCROK (CONSTANT) TCA 413	TCASCTR (34) TCA 396
TCAPCRS (88) TCA 404	TCASCUSR (BIT) TCA 396
TCAPCSA (138) TCA 397	TCASENSE (1E0) TCA 399
TCAPCSA (38) TCADY 416	TCASENSE (E0) TCADY 417
TCAPCSR (59) TCA 404	TCASNPRG (CONSTANT) TCA 410
TCAPCSTG (F9) TCA 397	TCASPEXP (BIT) TCA 406
TCAPCSYS (CONSTANT) TCA 413	TCASPOOL (114) TCA 397
TCAPCTR (58) TCA 404	TCASPOOL (14) TCADY 415
TCAPCTWA (13C) TCA 397	TCASPRAB (BIT) TCA 406
TCAPCTWA (3C) TCADY 416	TCASPRC (6A) TCA 406
TCAPCUSK (CONSTANT) TCA 411	TCASPRC0 (CONSTANT) TCA 413
TCAPCWAM (CONSTANT) TCA 413	TCASPRC1 (CONSTANT) TCA 413
TCAPCXA (1FC) TCA 399	TCASPRC8 (CONSTANT) TCA 413
TCAPCXA (FC) TCADY 417	TCASPREP (BIT) TCA 406
TCAPGENT (6C) TCA 404	TCASPROL (BIT) TCA 406
TCAPGTKN (70) TCA 404	TCASPSDA (5C) TCA 406
TCAPH (58) TCA 404	TCASPTR (58) TCA 406
TCAPHERR (CONSTANT) TCA 413	TCASPURG (BIT) TCA 396
TCAPHIPS (CONSTANT) TCA 413	TCASPUSR (BIT) TCA 406
TCAPHNP (CONSTANT) TCA 413	TCASRAP (BIT) TCA 400
TCAPHNPS (CONSTANT) TCA 413	TCASRAP (BIT) TCADY 418
TCAPHPID (64) TCA 404	TCASRDAT (1E8) TCADY 418
TCAPHPIN (CONSTANT) TCA 413	TCASRDAT (2E8) TCA 400
TCAPHPN (60) TCA 404	TCASRDMP (BIT) TCA 400
TCAPHPSC (CONSTANT) TCA 413	TCASRDMP (BIT) TCADY 418
TCAPHPSI (CONSTANT) TCA 413	TCASREXC (1FE) TCADY 419
TCAPHPSN (5C) TCA 404	TCASREXC (2FE) TCA 400
TCAPHPXE (CONSTANT) TCA 413	TCASRFLG (1FC) TCADY 418
TCAPHRC (58) TCA 404	TCASRFLG (2FC) TCA 400
TCAPHRCV (6D) TCA 404	TCASRLOC (1FD) TCADY 418
TCAPHROK (CONSTANT) TCA 413	TCASRLOC (2FD) TCA 400
TCAPHTIO (68) TCA 404	TCASROFF (1F8) TCADY 418
TCAPHTR (6C) TCA 404	TCASROFF (2F8) TCA 400
TCAPLAN (1B0) TCADY 418	TCASRPCD (1F0) TCADY 418
TCAPLAN (2B0) TCA 400	TCASRPCD (2F0) TCA 400
TCAPRIP (BIT) TCA 400	TCASRPGM (1E8) TCADY 418
TCAPRIP (BIT) TCADY 418	TCASRPGM (2E8) TCA 400
TCAPROB (CONSTANT) TCA 410	TCASRPLI (BIT) TCA 400
TCAPROBU (CONSTANT) TCA 410	TCASRPLI (BIT) TCADY 418
TCAPROFL (CONSTANT) TCA 410	TCASS1 (1E0) TCA 399
TCAPRTCM (BIT) TCA 399	TCASS1 (E0) TCADY 417
TCAPRTCM (BIT) TCADY 417	TCASUTOK (1C8) TCADY 418
TCAPRUWA (FC) TCA 397	TCASUTOK (2C8) TCA 400
TCAPSDBA (190) TCADY 418	TCASVEFT (BIT) TCA 396
TCAPSDBA (290) TCA 400	TCASVTRN (24) TCA 396

TCASYAA	(0)	TCA	395
TCASYABD	(1F0)	TCADY	418
TCASYABD	(2F0)	TCA	400
TCASYABI	(1F)	TCA	396
TCASYNCP	(BIT)	TCA	396
TCASYSNE	(1D0)	TCADY	418
TCASYSNE	(2D0)	TCA	400
TCASYSNP	(BIT)	TCA	400
TCASYSNP	(BIT)	TCADY	418
TCASZUSE	(BIT)	TCA	398
TCASZUSE	(BIT)	TCADY	417
TCATALGI	(BIT)	TCA	402
TCATCABT	(BIT)	TCA	399
TCATCABT	(BIT)	TCADY	417
TCATCCFG	(1C)	TCA	396
TCATCDC	(18)	TCA	395
TCATCEA	(14)	TCA	395
TCATCEI	(18)	TCA	395
TCATCMPN	(BIT)	TCA	403
TCATCOK	(CONSTANT)	TCA	410
TCATCONQ	(CONSTANT)	TCA	410
TCATCPC	(11C)	TCA	397
TCATCPC	(1C)	TCADY	415
TCATCQA	(14)	TCA	395
TCATCAA4	(14)	TCA	395
TCATCQL4	(5)	TCA	395
TCATCQLN	(5)	TCA	395
TCATCTFA	(14)	TCA	395
TCATCTR	(19)	TCA	395
TCATCUCN	(1B4)	TCA	399
TCATCUCN	(B4)	TCADY	417
TCATDAA	(60)	TCA	408
TCATDBRW	(CONSTANT)	TCA	414
TCATDCGT	(CONSTANT)	TCA	414
TCATDCLO	(CONSTANT)	TCA	414
TCATDCPR	(CONSTANT)	TCA	414
TCATDCPT	(CONSTANT)	TCA	414
TCATDDA	(60)	TCA	408
TCATDDI	(5C)	TCA	408
TCATDFLG	(18C)	TCADY	418
TCATDFLG	(28C)	TCA	400
TCATDINI	(CONSTANT)	TCA	414
TCATDITD	(CONSTANT)	TCA	414
TCATDLM	(CONSTANT)	TCA	410
TCATDM	(CONSTANT)	TCA	410
TCATDOCP	(64)	TCA	408
TCATDPUT	(BIT)	TCA	408
TCATDROA	(60)	TCA	408
TCATDRS	(88)	TCA	408
TCATDRST	(CONSTANT)	TCA	414
TCATDTR	(64)	TCA	408
TCATDTLO	(CONSTANT)	TCA	414
TCATDTR	(58)	TCA	408
TCATDWTI	(CONSTANT)	TCA	414
TCATEM	(CONSTANT)	TCA	410
TCATIEBA	(1E4)	TCA	399
TCATIEBA	(E4)	TCADY	417
TCATMRLP	(124)	TCADY	418
TCATMRLP	(224)	TCA	399
TCATNATI	(CONSTANT)	TCA	412
TCATNLGI	(BIT)	TCA	402
TCATNTTI	(CONSTANT)	TCA	412
TCATNVTA	(BIT)	TCA	402
TCATOATI	(CONSTANT)	TCA	412
TCATOM	(BIT)	TCA	395
TCATOMCN	(BIT)	TCA	401
TCATOMEF	(BIT)	TCA	401
TCATOMOP	(5B)	TCA	401
TCATOMST	(BIT)	TCA	401
TCATOMX	(CONSTANT)	TCA	410
TCATOPNW	(BIT)	TCA	403
TCATOTTI	(CONSTANT)	TCA	412
TCATP_TRACE	(58)	TCA	402
TCATP120	(CONSTANT)	TCA	412
TCATPABN	(CONSTANT)	TCA	412
TCATPABT	(CONSTANT)	TCA	412
TCATPACQ	(BIT)	TCA	403
TCATPADR	(CONSTANT)	TCA	412
TCATPAID	(68)	TCA	403
TCATPALL	(CONSTANT)	TCA	412
TCATPAPL	(70)	TCA	403
TCATPAPR	(58)	TCA	402
TCATPASS	(CONSTANT)	TCA	412
TCATPATI	(CONSTANT)	TCA	412
TCATPAU	(BIT)	TCA	402
TCATPBQ	(BIT)	TCA	402
TCATPBSY	(CONSTANT)	TCA	411
TCATPCBR	(CONSTANT)	TCA	412
TCATPCEU	(BIT)	TCA	402
TCATPCMM	(CONSTANT)	TCA	412
TCATPCND	(BIT)	TCA	403
TCATPCNT	(BIT)	TCA	403
TCATPCOM	(CONSTANT)	TCA	412
TCATPCON	(62)	TCA	403
TCATPCPB	(BIT)	TCA	403
TCATPCPT	(BIT)	TCA	403
TCATPCPY	(BIT)	TCA	402
TCATPCRB	(BIT)	TCA	402
TCATPCRL	(BIT)	TCA	402
TCATPCS1	(5C)	TCA	402
TCATPCS2	(5D)	TCA	402
TCATPCVS	(BIT)	TCA	402
TCATPCWL	(BIT)	TCA	402
TCATPDET	(CONSTANT)	TCA	412
TCATPDFR	(CONSTANT)	TCA	411
TCATPDRR	(CONSTANT)	TCA	412
TCATPDWR	(BIT)	TCA	403
TCATPEB	(BIT)	TCA	402
TCATPEOD	(CONSTANT)	TCA	412
TCATPERR	(CONSTANT)	TCA	412
TCATPFM7	(CONSTANT)	TCA	412
TCATPFOR	(CONSTANT)	TCA	412
TCATPFPD	(BIT)	TCA	403
TCATPFRC	(BIT)	TCA	403
TCATPFRD	(CONSTANT)	TCA	412
TCATPFRE	(CONSTANT)	TCA	412
TCATPFRR	(CONSTANT)	TCA	412
TCATPFS	(74)	TCA	403
TCATPFST	(CONSTANT)	TCA	412
TCATPFSY	(BIT)	TCA	402
TCATPGBL	(CONSTANT)	TCA	412
TCATPGRP	(CONSTANT)	TCA	412
TCATPIDT	(BIT)	TCA	402
TCATPINP	(BIT)	TCA	402
TCATPINS	(BIT)	TCA	402
TCATPINV	(BIT)	TCA	403
TCATPIOR	(CONSTANT)	TCA	412
TCATPIRC	(CONSTANT)	TCA	412
TCATPISG	(CONSTANT)	TCA	412
TCATPKIL	(CONSTANT)	TCA	411
TCATPLCL	(CONSTANT)	TCA	412
TCATPLDA	(68)	TCA	403
TCATPLDC	(5B)	TCA	402
TCATPLDM	(60)	TCA	403
TCATPLDR	(CONSTANT)	TCA	412
TCATPLIA	(CONSTANT)	TCA	411
TCATPLII	(CONSTANT)	TCA	411
TCATPLIL	(CONSTANT)	TCA	411
TCATPLIR	(CONSTANT)	TCA	411
TCATPLLE	(CONSTANT)	TCA	411
TCATPLMP	(BIT)	TCA	403
TCATPLNL	(CONSTANT)	TCA	411
TCATPLNR	(CONSTANT)	TCA	411
TCATPLOC	(CONSTANT)	TCA	412
TCATPLRC	(58)	TCA	402
TCATPLUA	(CONSTANT)	TCA	412
TCATPLUC	(CONSTANT)	TCA	412
TCATPLUF	(CONSTANT)	TCA	412
TCATPLWT	(BIT)	TCA	403
TCATPMOD	(CONSTANT)	TCA	412
TCATPNAB	(BIT)	TCA	402
TCATPNAT	(CONSTANT)	TCA	411
TCATPNCM	(BIT)	TCA	403
TCATPNEC	(BIT)	TCA	403
TCATPNET	(CONSTANT)	TCA	412
TCATPNIB	(CONSTANT)	TCA	412
TCATPNNI	(BIT)	TCA	402
TCATPNOP	(BIT)	TCA	402
TCATPNVL	(CONSTANT)	TCA	411
TCATPNXT	(CONSTANT)	TCA	412
TCATPOAO	(BIT)	TCA	403
TCATPOC1	(5E)	TCA	403
TCATPOC2	(5F)	TCA	403
TCATPOC3	(63)	TCA	403
TCATPODR	(BIT)	TCA	402
TCATPOER	(BIT)	TCA	402
TCATPOFR	(CONSTANT)	TCA	412
TCATPOLA	(BIT)	TCA	402
TCATPOOL	(CONSTANT)	TCA	412
TCATPOOS	(BIT)	TCA	402

TCATPORR (BIT) TCA 402	TCATRPRI (2A3) TCA 400
TCATPOS1 (5A) TCA 402	TCATRRC (1EC) TCA 399
TCATPOS2 (5B) TCA 402	TCATRRC (EC) TCADY 417
TCATPOSO (BIT) TCA 403	TCATRRSN (100) TCADY 417
TCATPOSR (BIT) TCA 402	TCATRRSN (200) TCA 399
TCATPOSS (BIT) TCA 402	TCATRSI (BIT) TCA 397
TCATPOWR (BIT) TCA 402	TCATRSM (BIT) TCA 397
TCATPOWS (BIT) TCA 403	TCATRST (BIT) TCA 397
TCATPPBK (CONSTANT) TCA 412	TCATRSYS (BIT) TCA 397
TCATPPFL (6C) TCA 403	TCATRTO (180) TCA 398
TCATPPG (BIT) TCA 402	TCATRTO (80) TCADY 416
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TCATPPNM (64) TCA 403	TCATRU24 (1DC) TCADY 418
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TCTEBSAM	(CONSTANT) TCTTE	466	TCTECTA	(BIT) TCTTE	444
TCTEBSC	(BIT) TCTTE	446	TCTECTI	(BIT) TCTTE	444
TCTEBSS	(BIT) TCTTE	444	TCTECTS	(BIT) TCTTE	444
TCTEBTAM	(CONSTANT) TCTTE	466	TCTECUSR	(56) TCTTE	460
TCTEBTB	(BIT) TCTTE	446	TCTECV0	(CONSTANT) TCTTE	469
TCTEBUF	(BIT) TCTTE	460	TCTECVD	(BIT) TCTTE	444
TCTEBWD	(BIT) TCTTE	444	TCTECVI	(BIT) TCTTE	444
TCTEBYP	(BIT) TCTTE	443	TCTECVR	(BIT) TCTTE	444
TCTEBYPQ	(BIT) TCTTE	438	TCTECVT	(11) TCTTE	460
TCTECACT	(20E) TCTTE	449	TCTECWT	(BIT) TCTTE	444
TCTECAP	(BIT) TCTTE	445	TCTECXA	(BIT) TCTTE	444
TCTECAR	(BIT) TCTTE	446	TCTEDAB	(BIT) TCTTE	436
TCTECAT	(BIT) TCTTE	443	TCTEDATL	(4C) TCTTE	460
TCTECBD	(BIT) TCTTE	444	TCTEDCA	(BIT) TCTTE	444
TCTECC	(14) TCTTE	460	TCTEDEF	(BIT) TCTTE	446
TCTECCDR	(BIT) TCTTE	460	TCTEDEL	(BIT) TCTTE	444
TCTECCDS	(BIT) TCTTE	460	TCTEDELQ	(BIT) TCTTE	436
TCTECCD	(13) TCTTE	460	TCTEDELQ	(BIT) TCTTE	436
TCTECCNT	(B8) TCTTE	436	TCTEDEX	(BIT) TCTTE	460
TCTECCT	(BIT) TCTTE	444	TCTEDIBA	(58) TCTTE	435
TCTECCV	(BIT) TCTTE	445	TCTEDIBS	(BIT) TCTTE	437
TCTECDH	(BIT) TCTTE	444	TCTEDIP	(BIT) TCTTE	445
TCTECDR1	(BIT) TCTTE	460	TCTEDL1M	(BIT) TCTTE	442
TCTECDR2	(BIT) TCTTE	460	TCTEDLAB	(1E9) TCTTE	453
TCTECDS	(BIT) TCTTE	446	TCTEDLG	(BIT) TCTTE	449
TCTECDSV	(1B4) TCTTE	443	TCTEDMAI	(BIT) TCTTE	462
TCTECDSY	(BIT) TCTTE	438	TCTEDMAX	(BIT) TCTTE	462
TCTECDT	(BIT) TCTTE	444	TCTEDMBD	(1C) TCTTE	463
TCTECDV	(BIT) TCTTE	446	TCTEDMBL	(20) TCTTE	463
TCTECDX	(BIT) TCTTE	449	TCTEDMCH	(0) TCTTE	462
TCTECEA	(BIT) TCTTE	444	TCTEDMCL	(BIT) TCTTE	462
TCTECEBR	(BIT) TCTTE	460	TCTEDMDT	(E) TCTTE	462
TCTECEBS	(BIT) TCTTE	460	TCTEDME2	(5) TCTTE	462
TCTECELP	(E8) TCTTE	438	TCTEDMER	(4) TCTTE	462
TCTECERT	(BIT) TCTTE	434	TCTEDMGC	(3A) TCTTE	433
TCTECEFA	(BIT) TCTTE	444	TCTEDMGF	(BIT) TCTTE	462
TCTECFR	(BIT) TCTTE	443	TCTEDMID	(17) TCTTE	462
TCTECFSS	(BIT) TCTTE	444	TCTEDMIT	(BIT) TCTTE	462
TCTECGR	(BIT) TCTTE	443	TCTEDMLG	(BIT) TCTTE	462
TCTECHAN	(BIT) TCTTE	435	TCTEDMMI	(1B) TCTTE	462
TCTECHLE	(BIT) TCTTE	394	TCTEDMMN	(35) TCTTE	433
TCTECHMX	(1A2) TCTTE	443	TCTEDMNN	(6) TCTTE	462
TCTECHS	(BIT) TCTTE	444	TCTEDMPD	(BIT) TCTTE	462
TCTECHSS	(1ED) TCTTE	447	TCTEDMQN	(6) TCTTE	462
TCTECID	(18C) TCTTE	443	TCTEDMRA	(BIT) TCTTE	462
TCTECIP	(BIT) TCTTE	445	TCTEDMRY	(BIT) TCTTE	462
TCTECKR	(BIT) TCTTE	444	TCTEDMS1	(24) TCTTE	463
TCTECLE	(BIT) TCTTE	448	TCTEDMS2	(25) TCTTE	463
TCTECLG	(BIT) TCTTE	436	TCTEDMSL	(BIT) TCTTE	462
TCTECLIM	(20F) TCTTE	449	TCTEDMSM	(BIT) TCTTE	462
TCTECLR	(BIT) TCTTE	444	TCTEDMSN	(24) TCTTE	463
TCTECLRQ	(BIT) TCTTE	437	TCTEDMSQ	(F) TCTTE	462
TCTECLST	(1E8) TCTTE	447	TCTEDMU1	(26) TCTTE	463
TCTECMT	(BIT) TCTTE	446	TCTEDMU2	(27) TCTTE	463
TCTECNCL	(BIT) TCTTE	444	TCTEDMUL	(BIT) TCTTE	462
TCTECND	(BIT) TCTTE	438	TCTEDMWE	(0) TCTTE	462
TCTECNO	(BIT) TCTTE	447	TCTEDMYE	(34) TCTTE	433
TCTECNTS	(1EC) TCTTE	447	TCTEDR2	(BIT) TCTTE	444
TCTECON	(BIT) TCTTE	449	TCTEDRD	(BIT) TCTTE	438
TCTECOR	(BIT) TCTTE	444	TCTEDRI	(BIT) TCTTE	446
TCTECORR	(218) TCTTE	449	TCTEDRQ	(BIT) TCTTE	445
TCTECPA	(BIT) TCTTE	449	TCTEDRR	(BIT) TCTTE	437
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TCTECPG	(BIT) TCTTE	447	TCTEDSCL	(4A) TCTTE	434
TCTECPIC	(BIT) TCTTE	460	TCTEDSCZ	(48) TCTTE	434
TCTECPMI	(BIT) TCTTE	448	TCTEDTR	(BIT) TCTTE	438
TCTECPY	(BIT) TCTTE	449	TCTEDVSC	(C4) TCTTE	436
TCTECRAS	(BIT) TCTTE	444	TCTEDWP	(BIT) TCTTE	438
TCTECRC	(BIT) TCTTE	443	TCTEDYN	(BIT) TCTTE	442
TCTECRP	(BIT) TCTTE	444	TCTEDZIP	(BIT) TCTTE	436
TCTECRQ	(BIT) TCTTE	442	TCTEEBM	(BIT) TCTTE	446
TCTECRR	(BIT) TCTTE	443	TCTEEBR	(BIT) TCTTE	446
TCTECRS	(BIT) TCTTE	443	TCTEEBS	(BIT) TCTTE	446
TCTECRTF	(BIT) TCTTE	434	TCTEEBX	(BIT) TCTTE	449
TCTECRY	(BIT) TCTTE	444	TCTEECN	(BIT) TCTTE	447
TCTECSA	(BIT) TCTTE	443	TCTEEEB	(BIT) TCTTE	446
TCTECSC	(BIT) TCTTE	443	TCTEEID0	(1B0) TCTTE	443
TCTECSG1	(60) TCTTE	435	TCTEEID1	(1B1) TCTTE	443
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TCTECSM	(BIT) TCTTE	446	TCTEEIDA	(1B0) TCTTE	443

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TCTEGET4 (1C1) TCTTE	453
TCTEGET5 (1EE) TCTTE	453
TCTEGET6 (10C) TCTTE	439
TCTEGET7 (23C) TCTTE	452
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TCTEGET9 (234) TCTTE	452
TCTEGLC (BIT) TCTTE	444
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TCTEKCA (BIT) TCTTE	447
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TCTELIC (BIT) TCTTE	460
TCTELIRI (BIT) TCTTE	448
TCTELLC (3C) TCTTE	460
TCTELLCT (54) TCTTE	460
TCTELLDC (1AC) TCTTE	443
TCTELLK (BIT) TCTTE	460
TCTELMP (BIT) TCTTE	437
TCTELOS (BIT) TCTTE	446
TCTELRC (BIT) TCTTE	445
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TCTELROF (1A6) TCTTE	443
TCTELRP (BIT) TCTTE	445
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TCTELS28 (BIT) TCTTE	449
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TCTELS30 (BIT) TCTTE	449
TCTELS31 (BIT) TCTTE	449

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TCTELSB (20D) TCTTE	449	TCTENSP1 (134) TCTTE	442
TCTELSE (BIT) TCTTE	442	TCTENSP2 (135) TCTTE	442
TCTELSED (3E) TCTTE	460	TCTENSS1 (108) TCTTE	441
TCTELST (BIT) TCTTE	437	TCTENSS2 (109) TCTTE	441
TCTELTEC (1DB) TCTTE	445	TCTENTA (BIT) TCTTE	435
TCTELU4 (CONSTANT) TCTTE	466	TCTENUS1 (10A) TCTTE	441
TCTELU6 (CONSTANT) TCTTE	466	TCTENUS2 (10B) TCTTE	441
TCTELUC (BIT) TCTTE	433	TCTENUSA (8) TCTTE	461
TCTELUC1 (1) TCTTE	460	TCTEOAL (1A0) TCTTE	443
TCTELUC2 (2) TCTTE	460	TCTEOC3 (D6) TCTTE	438
TCTELUC3 (3) TCTTE	460	TCTEOC4 (D7) TCTTE	438
TCTELUCX (230) TCTTE	449	TCTEOCB (D4) TCTTE	437
TCTELUN (BIT) TCTTE	460	TCTEOCC (BIT) TCTTE	442
TCTELUS (BIT) TCTTE	444	TCTEOEXM (BIT) TCTTE	446
TCTELUSM (BIT) TCTTE	436	TCTEOFME (BIT) TCTTE	446
TCTELXS (BIT) TCTTE	438	TCTEOFP (BIT) TCTTE	433
TCTEMAPD (BIT) TCTTE	460	TCTEOLD (BIT) TCTTE	446
TCTEMAXL (48) TCTTE	460	TCTEOMJ (BIT) TCTTE	442
TCTEMCNT (BA) TCTTE	436	TCTEOPCM (BIT) TCTTE	442
TCTEMDID (1B3) TCTTE	443	TCTEOPD (BIT) TCTTE	446
TCTEMDL (BIT) TCTTE	438	TCTEOPQ (BIT) TCTTE	445
TCTEMI (BIT) TCTTE	442	TCTEOPSE (BIT) TCTTE	438
TCTEMID5 (1B9) TCTTE	443	TCTEOPT2 (138) TCTTE	442
TCTEMID6 (1BB) TCTTE	443	TCTEORAS (BIT) TCTTE	437
TCTEMID7 (1BD) TCTTE	443	TCTEORRN (BIT) TCTTE	446
TCTEMID8 (1BF) TCTTE	443	TCTEORSP (BIT) TCTTE	444
TCTEMID9 (1C1) TCTTE	443	TCTEORSY (BIT) TCTTE	437
TCTEMIDA (1C3) TCTTE	443	TCTEOS (30) TCTTE	434
TCTEMII (11C) TCTTE	441	TCTEOWCI (BIT) TCTTE	448
TCTEMINL (B0) TCTTE	461	TCTEOWO (BIT) TCTTE	442
TCTEMOPU (BIT) TCTTE	432	TCTEPABP (BIT) TCTTE	437
TCTEMROP (BIT) TCTTE	435	TCTEPAR (BIT) TCTTE	447
TCTEMROS (BIT) TCTTE	435	TCTEPAS (BIT) TCTTE	444
TCTEMRST (A1) TCTTE	435	TCTEPCLK (A8) TCTTE	461
TCTEMRSV (A2) TCTTE	436	TCTEPENC (A0) TCTTE	461
TCTEMRSX (BIT) TCTTE	436	TCTEPH1 (BIT) TCTTE	438
TCTEMTO (BIT) TCTTE	447	TCTEPH2 (BIT) TCTTE	438
TCTENASI (BIT) TCTTE	448	TCTEPIPE (230) TCTTE	449
TCTENBD (BIT) TCTTE	442	TCTEPLCH (230) TCTTE	452
TCTENBDL (24) TCTTE	461	TCTEPLFI (238) TCTTE	452
TCTENBDR (1E) TCTTE	461	TCTEPLID (234) TCTTE	452
TCTENBDS (20) TCTTE	461	TCTEPLL (BIT) TCTTE	460
TCTENBK (BIT) TCTTE	449	TCTEPLLC (12) TCTTE	460
TCTENBLE (BIT) TCTTE	461	TCTEPLLP (234) TCTTE	452
TCTENBLR (BIT) TCTTE	461	TCTEPNET (240) TCTTE	450
TCTENCD (BIT) TCTTE	448	TCTEPRA (BIT) TCTTE	446
TCTENCK (BIT) TCTTE	448	TCTEPRC (BIT) TCTTE	447
TCTENCPC (BIT) TCTTE	460	TCTEPREV (234) TCTTE	452
TCTENDEL (BIT) TCTTE	436	TCTEPROP (BIT) TCTTE	438
TCTENDT (BIT) TCTTE	448	TCTEPRP (BIT) TCTTE	449
TCTENDVP (1F) TCTTE	461	TCTEPRQ (BIT) TCTTE	448
TCTENEC (BIT) TCTTE	438	TCTEPRT (BIT) TCTTE	444
TCTENEPD (13A) TCTTE	442	TCTEPRUS (196) TCTTE	443
TCTENEPS (123) TCTTE	442	TCTEPSA (BIT) TCTTE	446
TCTENET (140) TCTTE	442	TCTEPSES (BIT) TCTTE	461
TCTENEXT (10C) TCTTE	441	TCTEPSN (BIT) TCTTE	436
TCTENFRI (BIT) TCTTE	448	TCTEPSQ (1) TCTTE	462
TCTENFSI (BIT) TCTTE	448	TCTEPSQL (0) TCTTE	462
TCTENIB (0) TCTTE	461	TCTEPSQR (0) TCTTE	462
TCTENIBA (6C) TCTTE	435	TCTEPSQS (44) TCTTE	462
TCTENIBE (70) TCTTE	462	TCTEPSS (BIT) TCTTE	449
TCTENIBN (1D) TCTTE	461	TCTEPTBI (BIT) TCTTE	448
TCTENIP (BIT) TCTTE	445	TCTEPTI (BIT) TCTTE	448
TCTENIS (BIT) TCTTE	446	TCTEPTO (234) TCTTE	449
TCTENIT (BIT) TCTTE	447	TCTEPUR (BIT) TCTTE	445
TCTENLEX (3) TCTTE	461	TCTEQCM (BIT) TCTTE	444
TCTENLLC (3E) TCTTE	460	TCTEQE2 (BIT) TCTTE	445
TCTENLOG (14) TCTTE	461	TCTEQEOC (BIT) TCTTE	445
TCTENLS (E7) TCTTE	438	TCTEQM (BIT) TCTTE	441
TCTENMA (CONSTANT) TCTTE	466	TCTEQRI (BIT) TCTTE	446
TCTENNAM (C) TCTTE	461	TCTEQRQ (BIT) TCTTE	445
TCTENNCH (54) TCTTE	462	TCTEQRS (BIT) TCTTE	448
TCTENND (BIT) TCTTE	445	TCTERAD (BIT) TCTTE	445
TCTENNQI (BIT) TCTTE	436	TCTERAE (BIT) TCTTE	446
TCTENOA (BIT) TCTTE	438	TCTERAN (BIT) TCTTE	446
TCTENOB (BIT) TCTTE	447	TCTERAP (BIT) TCTTE	445
TCTENOCI (BIT) TCTTE	448	TCTERAQ (BIT) TCTTE	445
TCTENPTR (4) TCTTE	461	TCTERASY (CONSTANT) TCTTE	468
TCTENQCI (BIT) TCTTE	448	TCTERAT (BIT) TCTTE	444
TCTENQS (BIT) TCTTE	446	TCTERBA (2C) TCTTE	460
TCTENRBD (38) TCTTE	461	TCTERBDL (38) TCTTE	460
TCTENRI (BIT) TCTTE	460	TCTERBL (30) TCTTE	460
TCTENRQ (BIT) TCTTE	445	TCTERBLA (CC) TCTTE	461
TCTENSD (BIT) TCTTE	446	TCTERBLL (D0) TCTTE	461

TCTERBP	(BIT)	TCTTE	445	TCTERVR	(BIT)	TCTTE	445
TCTERCA	(CONSTANT)	TCTTE	468	TCTERYCF	(BIT)	TCTTE	448
TCTERCDI	(BIT)	TCTTE	434	TCTERZJS	(BIT)	TCTTE	439
TCTERCL	(BIT)	TCTTE	460	TCTERZS	(BIT)	TCTTE	439
TCTERCM	(BIT)	TCTTE	446	TCTES2EB	(BIT)	TCTTE	448
TCTERCMO	(BIT)	TCTTE	444	TCTES7TX	(BIT)	TCTTE	435
TCTERCR	(BIT)	TCTTE	460	TCTESAB	(BIT)	TCTTE	444
TCTERCS	(BIT)	TCTTE	443	TCTESABC	(BIT)	TCTTE	441
TCTERCSA	(58)	TCTTE	460	TCTESABP	(BIT)	TCTTE	441
TCTERCSM	(CONSTANT)	TCTTE	468	TCTESABR	(BIT)	TCTTE	441
TCTERCSV	(1B4)	TCTTE	443	TCTESABS	(BIT)	TCTTE	441
TCTERDA	(34)	TCTTE	460	TCTESARB	(118)	TCTTE	441
TCTERDR	(BIT)	TCTTE	444	TCTESARR	(BIT)	TCTTE	441
TCTERDS	(BIT)	TCTTE	444	TCTESBA	(1C)	TCTTE	460
TCTERDT	(BIT)	TCTTE	446	TCTESBB	(BIT)	TCTTE	447
TCTERED	(BIT)	TCTTE	449	TCTESBBI	(BIT)	TCTTE	452
TCTERELR	(BIT)	TCTTE	446	TCTESBBR	(CONSTANT)	TCTTE	468
TCTERENC	(48)	TCTTE	460	TCTESBBS	(CONSTANT)	TCTTE	468
TCTEREO	(BIT)	TCTTE	446	TCTESBDA	(24)	TCTTE	460
TCTERERA	(C8)	TCTTE	461	TCTESBDI	(BIT)	TCTTE	448
TCTERES	(BIT)	TCTTE	460	TCTESBDL	(28)	TCTTE	460
TCTERFB	(BIT)	TCTTE	444	TCTESBIF	(BIT)	TCTTE	448
TCTERIB	(BIT)	TCTTE	449	TCTESBIR	(BIT)	TCTTE	447
TCTERIN	(BIT)	TCTTE	449	TCTESBIS	(BIT)	TCTTE	447
TCTERIND	(1CC)	TCTTE	444	TCTESBL	(20)	TCTTE	460
TCTERIP	(BIT)	TCTTE	461	TCTESBRS	(18A)	TCTTE	452
TCTERIR	(BIT)	TCTTE	449	TCTESCCB	(198)	TCTTE	452
TCTERIS	(BIT)	TCTTE	449	TCTESCDI	(BIT)	TCTTE	452
TCTERLM	(BIT)	TCTTE	448	TCTESCFI	(64)	TCTTE	435
TCTERLR	(BIT)	TCTTE	444	TCTESCFM	(BIT)	TCTTE	435
TCTERLS	(BIT)	TCTTE	444	TCTESCHM	(BIT)	TCTTE	441
TCTERLSQ	(BIT)	TCTTE	445	TCTESCLG	(BIT)	TCTTE	435
TCTERLT	(BIT)	TCTTE	438	TCTESCM	(BIT)	TCTTE	444
TCTERLX	(BIT)	TCTTE	438	TCTESCNT	(B6)	TCTTE	436
TCTERMC	(BIT)	TCTTE	447	TCTESCSB	(BIT)	TCTTE	433
TCTERMD	(BIT)	TCTTE	447	TCTESCST	(BIT)	TCTTE	435
TCTERMDL	(BIT)	TCTTE	435	TCTESCTO	(BIT)	TCTTE	435
TCTERMOD	(BIT)	TCTTE	445	TCTESCUR	(60)	TCTTE	435
TCTERNU	(BIT)	TCTTE	446	TCTESD2	(208)	TCTTE	448
TCTERNW	(BIT)	TCTTE	445	TCTESD3	(209)	TCTTE	448
TCTEROCS	(BIT)	TCTTE	437	TCTESD4	(20A)	TCTTE	448
TCTERORN	(BIT)	TCTTE	437	TCTESD5	(20B)	TCTTE	449
TCTERORT	(BIT)	TCTTE	437	TCTESDA	(BIT)	TCTTE	448
TCTEROS	(BIT)	TCTTE	437	TCTESDBP	(BIT)	TCTTE	448
TCTERPBS	(B5)	TCTTE	461	TCTESDED	(BIT)	TCTTE	448
TCTERPIV	(CONSTANT)	TCTTE	469	TCTESDEM	(BIT)	TCTTE	448
TCTERPL	(BIT)	TCTTE	444	TCTESDFC	(BIT)	TCTTE	452
TCTERPLA	(70)	TCTTE	435	TCTESDIS	(BIT)	TCTTE	448
TCTERPLB	(AC)	TCTTE	461	TCTESDL	(BIT)	TCTTE	444
TCTERPM	(CONSTANT)	TCTTE	466	TCTESDLC	(CONSTANT)	TCTTE	466
TCTERPR	(BIT)	TCTTE	446	TCTESDLI	(BIT)	TCTTE	448
TCTERPRC	(BIT)	TCTTE	441	TCTESDN	(BIT)	TCTTE	449
TCTERPRL	(BIT)	TCTTE	441	TCTESDR	(BIT)	TCTTE	460
TCTERPRR	(CONSTANT)	TCTTE	469	TCTESDR1	(BIT)	TCTTE	452
TCTERPTN	(CONSTANT)	TCTTE	469	TCTESDR2	(BIT)	TCTTE	452
TCTERPTP	(CONSTANT)	TCTTE	469	TCTESDT	(BIT)	TCTTE	444
TCTERQD1	(BIT)	TCTTE	460	TCTESEB	(BIT)	TCTTE	448
TCTERQD2	(BIT)	TCTTE	460	TCTESEBI	(BIT)	TCTTE	452
TCTERQE	(BIT)	TCTTE	460	TCTESEBR	(CONSTANT)	TCTTE	468
TCTERRI	(BIT)	TCTTE	449	TCTESEBS	(CONSTANT)	TCTTE	468
TCTERRS	(BIT)	TCTTE	446	TCTESECA	(69)	TCTTE	461
TCTERRSP	(CONSTANT)	TCTTE	468	TCTESEED	(B8)	TCTTE	461
TCTERRSS	(BIT)	TCTTE	453	TCTESEM	(BIT)	TCTTE	445
TCTERRT	(BIT)	TCTTE	449	TCTESEIO	(BIT)	TCTTE	446
TCTERRU	(BIT)	TCTTE	445	TCTESER	(BIT)	TCTTE	441
TCTERS1	(BIT)	TCTTE	447	TCTESERI	(BIT)	TCTTE	452
TCTERSD	(BIT)	TCTTE	445	TCTESERV	(B4)	TCTTE	436
TCTERSED	(C0)	TCTTE	461	TCTESESS	(234)	TCTTE	449
TCTERSFR	(D8)	TCTTE	461	TCTESEST	(2F)	TCTTE	433
TCTERSH	(BIT)	TCTTE	445	TCTESFFB	(206)	TCTTE	448
TCTERSI	(BIT)	TCTTE	445	TCTESFI	(BIT)	TCTTE	452
TCTERSP	(BIT)	TCTTE	444	TCTESFR	(BIT)	TCTTE	438
TCTERSRR	(1D5)	TCTTE	444	TCTESFU	(BIT)	TCTTE	438
TCTERSYN	(CONSTANT)	TCTTE	468	TCTESH	(BIT)	TCTTE	446
TCTERTBC	(BIT)	TCTTE	438	TCTESIB	(CONSTANT)	TCTTE	468
TCTERTE	(BIT)	TCTTE	438	TCTESIDI	(3C)	TCTTE	434
TCTERTEC	(BIT)	TCTTE	438	TCTESIDO	(40)	TCTTE	434
TCTERTNT	(BIT)	TCTTE	438	TCTESIG	(BIT)	TCTTE	434
TCTERTP	(BIT)	TCTTE	446	TCTESII	(61)	TCTTE	460
TCTERTR	(BIT)	TCTTE	444	TCTESIL	(60)	TCTTE	460
TCTERUB	(BIT)	TCTTE	444	TCTESIO	(BIT)	TCTTE	442
TCTERUSZ	(1A4)	TCTTE	443	TCTESKI	(BIT)	TCTTE	446
TCTERV	(BIT)	TCTTE	445	TCTESKSH	(BIT)	TCTTE	435
TCTERVL	(BIT)	TCTTE	444	TCTESL00	(1C4)	TCTTE	453
TCTERV	(BIT)	TCTTE	445	TCTESLGI	(BIT)	TCTTE	433

TCTESLGT	(BIT) TCTTE	433	TCTESSNS	(79) TCTTE	461
TCTESLNK	(10C) TCTTE	441	TCTESSPL	(1EF) TCTTE	447
TCTESLPL	(BIT) TCTTE	446	TCTESSQ	(1) TCTTE	462
TCTESLWD	(1C6) TCTTE	453	TCTESSQL	(0) TCTTE	462
TCTESLWN	(1C2) TCTTE	453	TCTESSQR	(0) TCTTE	462
TCTESMA	(BIT) TCTTE	447	TCTESTAC	(2D) TCTTE	461
TCTESMD	(BIT) TCTTE	447	TCTESTAR	(BIT) TCTTE	435
TCTESMP	(BIT) TCTTE	447	TCTESTAT	(1) TCTTE	460
TCTESNEX	(5C) TCTTE	435	TCTESTIB	(2E) TCTTE	461
TCTESNQ	(BIT) TCTTE	445	TCTESTL	(BIT) TCTTE	449
TCTESNR	(BIT) TCTTE	445	TCTESTNR	(2C) TCTTE	461
TCTESNS	(BIT) TCTTE	448	TCTESTOP	(30) TCTTE	461
TCTESNU	(BIT) TCTTE	444	TCTESTR	(BIT) TCTTE	449
TCTESOAL	(100) TCTTE	441	TCTESTRI	(2C) TCTTE	461
TCTESOB	(CONSTANT) TCTTE	468	TCTESTRP	(2D) TCTTE	461
TCTESONC	(78) TCTTE	461	TCTESTSN	(BIT) TCTTE	444
TCTESONS	(AE) TCTTE	436	TCTESUP1	(132) TCTTE	442
TCTESOPR	(BIT) TCTTE	433	TCTESUP2	(133) TCTTE	442
TCTESP1	(BIT) TCTTE	447	TCTESUR	(BIT) TCTTE	438
TCTESP2	(BIT) TCTTE	447	TCTESUS	(BIT) TCTTE	447
TCTESPAB	(BIT) TCTTE	441	TCTESWT	(BIT) TCTTE	444
TCTESPER	(BIT) TCTTE	441	TCTESXC	(BIT) TCTTE	444
TCTESPID	(BIT) TCTTE	441	TCTESXD	(BIT) TCTTE	444
TCTESPL	(10) TCTTE	460	TCTESYID	(DC) TCTTE	438
TCTESPL0	(CONSTANT) TCTTE	469	TCTESYM	(CONSTANT) TCTTE	466
TCTESPL1	(CONSTANT) TCTTE	469	TCTESYSM	(BIT) TCTTE	441
TCTESPL2	(CONSTANT) TCTTE	469	TCTETABP	(BIT) TCTTE	437
TCTESPLI	(BIT) TCTTE	448	TCTETBIS	(BIT) TCTTE	444
TCTESPPA	(210) TCTTE	449	TCTETBLU	(CONSTANT) TCTTE	466
TCTESPPR	(BIT) TCTTE	441	TCTETBR	(BIT) TCTTE	446
TCTESPRB	(BIT) TCTTE	441	TCTETCAM	(CONSTANT) TCTTE	466
TCTESPRC	(BIT) TCTTE	441	TCTETCLU	(CONSTANT) TCTTE	466
TCTESPRL	(BIT) TCTTE	441	TCTETCM1	(100) TCTTE	439
TCTESPRP	(BIT) TCTTE	441	TCTETCM2	(103) TCTTE	439
TCTESPRR	(BIT) TCTTE	438	TCTETCNT	(B4) TCTTE	436
TCTESPS	(115) TCTTE	441	TCTETCSN	(CONSTANT) TCTTE	466
TCTESPSA	(116) TCTTE	441	TCTETDST	(2E) TCTTE	433
TCTESPSH	(BIT) TCTTE	441	TCTETECH	(BIT) TCTTE	438
TCTESPSR	(BIT) TCTTE	441	TCTETHID	(194) TCTTE	452
TCTESPSS	(BIT) TCTTE	441	TCTETHNO	(190) TCTTE	452
TCTESPST	(117) TCTTE	441	TCTETIA	(BIT) TCTTE	449
TCTESPUN	(BIT) TCTTE	441	TCTETILU	(CONSTANT) TCTTE	466
TCTESQA	(BIT) TCTTE	446	TCTETLD	(7D) TCTTE	461
TCTESQAT	(BIT) TCTTE	452	TCTETLDD	(BIT) TCTTE	461
TCTESQCI	(32) TCTTE	461	TCTETLX	(30) TCTTE	434
TCTESQCM	(36) TCTTE	461	TCTETMD	(BIT) TCTTE	439
TCTESQCO	(34) TCTTE	461	TCTETME	(BIT) TCTTE	439
TCTESQER	(19E) TCTTE	443	TCTETMSN	(CONSTANT) TCTTE	466
TCTESQI	(BIT) TCTTE	449	TCTETNNB	(BIT) TCTTE	461
TCTESQIL	(128) TCTTE	442	TCTETOFB	(BIT) TCTTE	435
TCTESQIP	(124) TCTTE	442	TCTETPPA	(210) TCTTE	449
TCTESQNS	(124) TCTTE	442	TCTETPSI	(BIT) TCTTE	448
TCTESQOL	(12A) TCTTE	442	TCTETPWA	(70) TCTTE	461
TCTESQOP	(126) TCTTE	442	TCTETRA	(BIT) TCTTE	444
TCTESQOS	(198) TCTTE	443	TCTETRAN	(BIT) TCTTE	436
TCTESQP	(42) TCTTE	462	TCTETRC	(BIT) TCTTE	448
TCTESQPL	(42) TCTTE	462	TCTETRC1	(130) TCTTE	442
TCTESQR1	(12C) TCTTE	442	TCTETRC2	(131) TCTTE	442
TCTESQR2	(12E) TCTTE	442	TCTETRND	(110) TCTTE	441
TCTESQRD	(BIT) TCTTE	452	TCTETRS	(BIT) TCTTE	438
TCTESQRP	(19A) TCTTE	443	TCTETRT	(BIT) TCTTE	438
TCTESQSC	(19C) TCTTE	443	TCTETRTO	(B2) TCTTE	436
TCTESQSG	(BIT) TCTTE	452	TCTETRX	(BIT) TCTTE	438
TCTESQSY	(BIT) TCTTE	452	TCTETSBI	(BIT) TCTTE	445
TCTESQWP	(BIT) TCTTE	452	TCTETSPI	(204) TCTTE	448
TCTESQWR	(BIT) TCTTE	452	TCTETSU	(D8) TCTTE	438
TCTESRAQ	(BIT) TCTTE	442	TCTETSU2	(E0) TCTTE	438
TCTESRBR	(BIT) TCTTE	435	TCTETSU3	(E1) TCTTE	438
TCTESRHI	(180) TCTTE	452	TCTETTSI	(BIT) TCTTE	433
TCTESRHO	(183) TCTTE	452	TCTETUCT	(BIT) TCTTE	442
TCTESRI1	(180) TCTTE	452	TCTETXBK	(BIT) TCTTE	453
TCTESRI2	(181) TCTTE	452	TCTETXKB	(BIT) TCTTE	434
TCTESRI3	(182) TCTTE	452	TCTETXPR	(BIT) TCTTE	434
TCTESRO1	(183) TCTTE	452	TCTETXT6	(BIT) TCTTE	434
TCTESRO2	(184) TCTTE	452	TCTETXT7	(BIT) TCTTE	434
TCTESRO3	(185) TCTTE	452	TCTETXT8	(BIT) TCTTE	434
TCTESRPI	(BIT) TCTTE	448	TCTETXTF	(46) TCTTE	434
TCTESRQ	(188) TCTTE	452	TCTEUBR	(BIT) TCTTE	449
TCTESRSP	(BIT) TCTTE	452	TCTEUCFM	(BIT) TCTTE	435
TCTESRTI	(BIT) TCTTE	452	TCTEUCOM	(BIT) TCTTE	434
TCTESRUS	(197) TCTTE	443	TCTEUCTB	(6B) TCTTE	435
TCTESRV	(BIT) TCTTE	444	TCTEUCTR	(BIT) TCTTE	438
TCTESS1	(104) TCTTE	441	TCTEUERR	(BIT) TCTTE	435
TCTESS2	(105) TCTTE	441	TCTEUFRT	(BIT) TCTTE	434
TCTESSDI	(BIT) TCTTE	452	TCTEUNMP	(CONSTANT) TCTTE	469

TCTEUNUL (BIT) TCTTE	435	TCTEXSW (BIT) TCTTE	448
TCTEURAD (1BC) TCTTE	453	TCTEXTOK (A6) TCTTE	436
TCTEURCV (BIT) TCTTE	435	TCTEXTOP (137) TCTTE	442
TCTEUS1 (106) TCTTE	441	TCTEXUB (BIT) TCTTE	445
TCTEUS2 (107) TCTTE	441	TCTFX	421
TCTEUSE1 (44) TCTTE	434	TCTIQLS (BIT) TCTTE	446
TCTEUSE2 (53) TCTTE	435	TCTLE	430
TCTEUSMD (BIT) TCTTE	435	TCTLEAGA (BIT) TCTLE	431
TCTEUSNS (7B) TCTTE	461	TCTLEAL (32) TCTLE	431
TCTEUSRB (BIT) TCTTE	435	TCTLEALP (20) TCTLE	430
TCTEUSRS (1EA) TCTTE	447	TCTLEASA (BIT) TCTLE	431
TCTEUSRV (1F1) TCTTE	447	TCTLEATA (BIT) TCTLE	431
TCTEVBPS (1E4) TCTTE	446	TCTLEBAA (5C) TCTLE	431
TCTEVIP2 (1E3) TCTTE	446	TCTLEBC (3C) TCTLE	431
TCTEVIP3 (1E2) TCTTE	446	TCTLEBEI (67) TCTLE	431
TCTEVIR1 (1CF) TCTTE	444	TCTLEBRA (64) TCTLE	431
TCTEVIR2 (1D0) TCTTE	444	TCTLEBTO (66) TCTLE	431
TCTEVIR3 (1D1) TCTTE	444	TCTLECBS (BIT) TCTLE	431
TCTEVIR4 (1D2) TCTTE	444	TCTLECC (14) TCTLE	430
TCTEVIR5 (1D3) TCTTE	444	TCTLECL (49) TCTLE	431
TCTEVIR6 (1D4) TCTTE	444	TCTLECSW (1E) TCTLE	430
TCTEVISC (1E1) TCTTE	446	TCTLEDCB (8) TCTLE	430
TCTEVLDC (2D) TCTTE	433	TCTLEDGC (1C) TCTLE	430
TCTEVNSS (108) TCTTE	441	TCTLEDP1 (BIT) TCTLE	431
TCTEVOP2 (1DE) TCTTE	445	TCTLEDP2 (BIT) TCTLE	431
TCTEVOP3 (B4) TCTTE	461	TCTLEDTF (8) TCTLE	430
TCTEVPAC (1CD) TCTTE	444	TCTLEEA (54) TCTLE	431
TCTEVRC5 (1B8) TCTTE	443	TCTLEECA (4C) TCTLE	431
TCTEVRC6 (1BA) TCTTE	443	TCTLEECB (0) TCTLE	430
TCTEVRC7 (1BC) TCTTE	443	TCTLEEGC (10) TCTLE	430
TCTEVRC8 (1BE) TCTTE	443	TCTLEES (1D) TCTLE	430
TCTEVRC9 (1C0) TCTTE	443	TCTLEETE (58) TCTLE	431
TCTEVRCA (1C2) TCTTE	443	TCTLEFAA (BIT) TCTLE	431
TCTEVSDA (104) TCTTE	441	TCTLEFAC (BIT) TCTLE	431
TCTEVSSC (190) TCTTE	443	TCTLEFAP (BIT) TCTLE	431
TCTEVSSS (104) TCTTE	441	TCTLEFBR (BIT) TCTLE	431
TCTEVTAM (CONSTANT) TCTTE	466	TCTLEFCK (BIT) TCTLE	431
TCTEVTC (2C) TCTTE	433	TCTLEFL (18) TCTLE	430
TCTEVTCT (BIT) TCTTE	433	TCTLEFL1 (BIT) TCTLE	430
TCTEVTMP (BIT) TCTTE	462	TCTLEFL3 (BIT) TCTLE	430
TCTEVTMQ (BIT) TCTTE	462	TCTLEFL4 (BIT) TCTLE	430
TCTEVTP (1E7) TCTTE	446	TCTLEFL5 (BIT) TCTLE	430
TCTEVTPS (1DD) TCTTE	445	TCTLEFLO (BIT) TCTLE	431
TCTEVTS2 (1E0) TCTTE	446	TCTLEFSC (BIT) TCTLE	431
TCTEVTS3 (1E0) TCTTE	446	TCTLEFWL (BIT) TCTLE	431
TCTEVTS4 (100) TCTTE	441	TCTLEGLR (1D) TCTLE	430
TCTEVTS5 (BIT) TCTTE	448	TCTLEGRC (12) TCTLE	430
TCTEVTS6 (1DF) TCTTE	446	TCTLEIBS (69) TCTLE	431
TCTEWA (BIT) TCTTE	434	TCTLEIOA (C) TCTLE	430
TCTEWDA (BIT) TCTTE	444	TCTLEIOB (10) TCTLE	430
TCTEWGS (BIT) TCTTE	446	TCTLEIOL (6) TCTLE	430
TCTEWIN (BIT) TCTTE	442	TCTLELE (4A) TCTLE	431
TCTEWPD (BIT) TCTTE	449	TCTLELEC (50) TCTLE	431
TCTEWSR (BIT) TCTTE	437	TCTLELF (40) TCTLE	431
TCTEXCA (BIT) TCTTE	446	TCTLELGC (14) TCTLE	430
TCTEXCC (BIT) TCTTE	445	TCTLELPI (BIT) TCTLE	431
TCTEXCL (BIT) TCTTE	445	TCTLELRC (1B) TCTLE	430
TCTEXCM (BIT) TCTTE	446	TCTLELRL (27) TCTLE	430
TCTEXCS (BIT) TCTTE	446	TCTLELS (BIT) TCTLE	431
TCTEXDEL (BIT) TCTTE	436	TCTLEMET (BIT) TCTLE	431
TCTEXEB (BIT) TCTTE	445	TCTLEMFP (BIT) TCTLE	431
TCTEXIP (BIT) TCTTE	449	TCTLEMI (31) TCTLE	431
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TCTEXNG (BIT) TCTTE	448	TCTLEMWL (BIT) TCTLE	431
TCTEXNM (BIT) TCTTE	447	TCTLENP (38) TCTLE	431
TCTEXNN (BIT) TCTTE	447	TCTLEOA (2C) TCTLE	430
TCTEXNO (BIT) TCTTE	445	TCTLEOL (2A) TCTLE	430
TCTEXNR (BIT) TCTTE	445	TCTLEOQ (14) TCTLE	430
TCTEXNT (BIT) TCTTE	448	TCTLEPA (54) TCTLE	431
TCTEXOC (BIT) TCTTE	447	TCTLEPCH (4) TACLE	394
TCTEXOD (BIT) TCTTE	447	TCTLEPF2 (9) TACLE	394
TCTEXON (BIT) TCTTE	447	TCTLEPFL (8) TACLE	394
TCTEXOR (BIT) TCTTE	447	TCTLEPLA (40) TCTLE	431
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TCTEXRO (BIT) TCTTE	448	TCTLERLN (19) TCTLE	430
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TCTTECTT	(11C) TCTTE	440
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TCTTECVS	(BIT) TCTTE	437
TCTTECWE	(CONSTANT) TCTTE	466
TCTTECYI	(BIT) TCTTE	437
TCTTEDA	(C) TCTTE	432
TCTTEDAP	(BIT) TCTTE	436
TCTTEDBI	(BIT) TCTTE	439
TCTTEDDP	(BIT) TCTTE	436
TCTTEDDS	(F) TCTTE	459
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TCTTEDII2 (BIT) TCTTE	436	TCTTEOAT (BIT) TCTTE	437
TCTTEDLM (38) TCTTE	434	TCTTEOBF (BIT) TCTTE	459
TCTTEDMP (10D) TCTTE	440	TCTTEOBO (BIT) TCTTE	459
TCTTEDOC (112) TCTTE	439	TCTTEOC (D3) TCTTE	437
TCTTEDOS (114) TCTTE	439	TCTTEOCL (2) TCTTE	459
TCTTEDWR (BIT) TCTTE	438	TCTTEODR (BIT) TCTTE	437
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TCTTEEDS (BIT) TCTTE	434	TCTTEOER (BIT) TCTTE	437
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TCTTEELN (0) TCTTE	459	TCTTEOFR (BIT) TCTTE	437
TCTTEEN (E4) TCTTE	438	TCTTEOGA (BIT) TCTTE	437
TCTTEEOD (BIT) TCTTE	432	TCTTEOI (25) TCTTE	433
TCTTEEUI (BIT) TCTTE	437	TCTTEOIC (BIT) TCTTE	437
TCTTEEXE (34) TCTTE	459	TCTTEOLA (BIT) TCTTE	437
TCTTEFAA (BIT) TCTTE	433	TCTTEONR (BIT) TCTTE	437
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TCTTEFDK (BIT) TCTTE	433	TCTTEORR (BIT) TCTTE	437
TCTTEFIB (33) TCTTE	433	TCTTEOS (D1) TCTTE	437
TCTTEFLG (10C) TCTTE	439	TCTTEOSR (BIT) TCTTE	437
TCTTEFMB (5) TCTTE	459	TCTTEOSS (BIT) TCTTE	437
TCTTEFMP (BIT) TCTTE	459	TCTTEOT (C6) TCTTE	436
TCTTEFP7 (BIT) TCTTE	433	TCTTEOTI (BIT) TCTTE	437
TCTTEFPA (BIT) TCTTE	433	TCTTEOWL (BIT) TCTTE	437
TCTTEFRL (BIT) TCTTE	435	TCTTEOWR (BIT) TCTTE	437
TCTTEFSP (BIT) TCTTE	433	TCTTEOWS (BIT) TCTTE	438
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TCTTEFX (1F) TCTTE	433	TCTTEPBI (BIT) TCTTE	439
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TCTTEISL (CONSTANT) TCTTE	466	TCTTEPGD (BIT) TCTTE	459
TCTTEIST (9C) TCTTE	435	TCTTEPGG (BIT) TCTTE	459
TCTTELCE (EC) TCTTE	461	TCTTEPGI (BIT) TCTTE	459
TCTTELDL (BIT) TCTTE	459	TCTTEPGL (7) TCTTE	459
TCTTELEA (70) TCTTE	435	TCTTEPGM (20) TCTTE	459
TCTTEPL (B8) TCTTE	436	TCTTEPGO (BIT) TCTTE	459
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TCTTELUC (0) TCTTE	459	TCTTEPIP (BIT) TCTTE	440
TCTTELUL (0) TCTTE	460	TCTTEPL (BIT) TCTTE	434
TCTTELUN (34) TCTTE	433	TCTTEPOS (BIT) TCTTE	437
TCTTELUS (CONSTANT) TCTTE	466	TCTTEPRC (BA) TCTTE	436
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TCTTEMBI (BIT) TCTTE	438	TCTTEPRN (BIT) TCTTE	434
TCTTEMBR (BIT) TCTTE	440	TCTTEPSA (14) TCTTE	459
TCTTEMBW (BIT) TCTTE	440	TCTTEPSE (0) TCTTE	459
TCTTEMC0 (CONSTANT) TCTTE	468	TCTTEPSI (BIT) TCTTE	440
TCTTEMCI (10C) TCTTE	440	TCTTEPSS (BIT) TCTTE	434
TCTTEMEF (BIT) TCTTE	440	TCTTEPUB (CONSTANT) TCTTE	466
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TCTTEMGP (CONSTANT) TCTTE	466	TCTTEQAP (10) TCTTE	459
TCTTEMID (34) TCTTE	434	TCTTEQCL (16) TCTTE	459
TCTTEMIQ (BIT) TCTTE	440	TCTTEQF (C) TCTTE	459
TCTTEMIX (BIT) TCTTE	435	TCTTEQLC (14) TCTTE	459
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TCTTENCO (CONSTANT) TCTTE	468	TCTTERIN (30) TCTTE	434
TCTTENI (BC) TCTTE	436	TCTTERKI (BIT) TCTTE	440
TCTTENLI (28) TCTTE	433	TCTTERLA (6C) TCTTE	435
TCTTENNM (218) TCTTE	449	TCTTERLI (BIT) TCTTE	440
TCTTENNO (C0) TCTTE	436	TCTTERMC (BIT) TCTTE	432
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TCTTETMT (CONSTANT) TCTTE	465
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TCTTETPD (CONSTANT) TCTTE	466
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TID_ZGAI_BINDUD_MODENAME_MISSING (CONSTANT) ZGDC 669
TID_ZGAI_BINDUD_PLUNAME_MISSING (CONSTANT) ZGDC 669
TID_ZGAI_ENTRY (CONSTANT) ZGDC 668
TID_ZGAI_EXIT (CONSTANT) ZGDC 668
TID_ZGAI_INVALID_FORMAT (CONSTANT) ZGDC 668
TID_ZGAI_INVALID_FUNCTION (CONSTANT) ZGDC 668
TID_ZGAI_MECHANISM_REQUIRED (CONSTANT) ZGDC 669
TID_ZGAI_MECHANISM_SHORT (CONSTANT) ZGDC 669
TID_ZGAI_MODENAME_MISMATCH (CONSTANT) ZGDC 669
TID_ZGAI_NO_MECHANISMS (CONSTANT) ZGDC 669
TID_ZGAI_NO_TEMPLATE_SUPPLIED (CONSTANT) ZGDC 668
TID_ZGAI_NONCE_LENGTH (CONSTANT) ZGDC 669
TID_ZGAI_NONCE_REQUIRED (CONSTANT) ZGDC 669
TID_ZGAI_NOT_APPC_TEMPLATE (CONSTANT) ZGDC 669
TID_ZGAI_NOT_NEGOTIABLE (CONSTANT) ZGDC 669
TID_ZGAI_OUT_OF_SERVICE (CONSTANT) ZGDC 669
TID_ZGAI_PLU_EQ_SLU (CONSTANT) ZGDC 669
TID_ZGAI_PLUNAME_MISSING (CONSTANT) ZGDC 669
TID_ZGAI_RECOVERY_ENTERED (CONSTANT) ZGDC 668
TID_ZGAI_SEED_AND_NONCE (CONSTANT) ZGDC 669
TID_ZGAI_SEED_EXPECTED (CONSTANT) ZGDC 669
TID_ZGAI_SEED_LONG (CONSTANT) ZGDC 669
TID_ZGAI_SEED_UNEXPECTED (CONSTANT) ZGDC 669
TID_ZGAI_SESSID_MISSING (CONSTANT) ZGDC 669
TID_ZGAI_SESSION_INQUIRE_FAILED (CONSTANT) ZGDC 669
TID_ZGAI_SYSID_ALREADY_EXISTS (CONSTANT) ZGDC 668
TID_ZGAI_SYSID_INQUIRE_FAILED (CONSTANT) ZGDC 669
TID_ZGAI_SYSID_INVALID (CONSTANT) ZGDC 668
TID_ZGAI_TEMPLATE_NO_MODEGROUP (CONSTANT) ZGDC 669
TID_ZGAI_TEMPLATE_NOT_PS (CONSTANT) ZGDC 669
TID_ZGAI_TEMPLATE_NOT_SS (CONSTANT) ZGDC 669
TID_ZGAI_TEMPLATEN_NOT_FOUND (CONSTANT) ZGDC 668
TID_ZGAI_TEMPLATES_NOT_FOUND (CONSTANT) ZGDC 669
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TID_ZGBM_ENTRY (CONSTANT) ZGDC 672
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TID_ZGBM_INVALID_FUNCTION (CONSTANT) ZGDC 672
TID_ZGBM_RECOVERY_ENTERED (CONSTANT) ZGDC 672
TID_ZGBM_SESSION_NAME_INVALID (CONSTANT) ZGDC 672
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TID_ZGCA_CURRENT_COUNTS (CONSTANT) ZGDC 675
TID_ZGCA_ENTRY (CONSTANT) ZGDC 675
TID_ZGCA_ENTRY_LEVEL2 (CONSTANT) ZGDC 675
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TID_ZGCA_INVALID_FUNCTION (CONSTANT) ZGDC 676
TID_ZGCA_RECOVERY_ENTERED (CONSTANT) ZGDC 676
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TID_ZGCC_EXIT (CONSTANT) ZGDC 673
TID_ZGCC_INVALID_FORMAT (CONSTANT) ZGDC 673
TID_ZGCC_INVALID_FUNCTION (CONSTANT) ZGDC 673
TID_ZGCC_RECOVERY_ENTERED (CONSTANT) ZGDC 673
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TID_ZGCH_BEFORE_CHANGE_MACRO (CONSTANT) ZGDC 670
TID_ZGCH_CHANGE_MACRO_FAILED (CONSTANT) ZGDC 670
TID_ZGCH_ENDAFFIN_REJECTED (CONSTANT) ZGDC 670
TID_ZGCH_ENTRY (CONSTANT) ZGDC 670
TID_ZGCH_EXIT (CONSTANT) ZGDC 670
TID_ZGCH_INVALID_FORMAT (CONSTANT) ZGDC 670
TID_ZGCH_INVALID_FUNCTION (CONSTANT) ZGDC 670

TID_ZGCH_RECOVERY_ENTERED (CONSTANT) ZGDC 670
TID_ZGCH_ZGTA_FAILED (CONSTANT) ZGDC 670
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TID_ZGCN_CNOS_COMMAND_OUT (CONSTANT) ZGDC 675
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TID_ZGCN_EXIT (CONSTANT) ZGDC 675
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TID_ZGCN_IN_SHUTDOWN (CONSTANT) ZGDC 675
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TID_ZGIN_NQN_REJECTED (CONSTANT) ZGDC 671
TID_ZGIN_RECOVERY_ENTERED (CONSTANT) ZGDC 671
TID_ZGIN_SESSNAME_REJECTED (CONSTANT) ZGDC 671
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TID_ZGPC_NO_SESSION_AVAILABLE (CONSTANT) ZGDC 673
TID_ZGPC_RECOVERY_ENTERED (CONSTANT) ZGDC 673
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TID_ZGPR_INVALID_TCSE_PTR (CONSTANT) ZGDC 676
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TID_ZGRP_BIND_INVALID (CONSTANT) ZGDC 672
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TID_ZGSL_AFTER_ADD_GRNAME (CONSTANT) ZGDC 674
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TID_ZGSL_AFTER_NIB_INIT (CONSTANT) ZGDC 674
TID_ZGSL_AFTER_SETLOGON_NP (CONSTANT) ZGDC 673
TID_ZGSL_AFTER_SETLOGON_P (CONSTANT) ZGDC 673
TID_ZGSL_BEFORE_ADD_GRNAME (CONSTANT) ZGDC 674
TID_ZGSL_BEFORE_DELETE_GRNAME (CONSTANT) ZGDC 674
TID_ZGSL_BEFORE_NIB_INIT (CONSTANT) ZGDC 674
TID_ZGSL_BEFORE_SETLOGON_NP (CONSTANT) ZGDC 673
TID_ZGSL_BEFORE_SETLOGON_P (CONSTANT) ZGDC 673
TID_ZGSL_DELETE_GRNAME_FAILED (CONSTANT) ZGDC 674
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TID_ZGSL_EXIT (CONSTANT) ZGDC 673
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TID_ZGSL_INVALID_FUNCTION (CONSTANT) ZGDC 673
TID_ZGSL_INVALID_PSDI_VALUE (CONSTANT) ZGDC 673
TID_ZGSL_NIB_INIT_FAILED (CONSTANT) ZGDC 674
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TID_ZGSL_SETLOGON_FAILED (CONSTANT) ZGDC 673
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TID_ZGTA_EXIT (CONSTANT) ZGDC 671
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TID_ZGTA_INVALID_FORMAT (CONSTANT) ZGDC 671
TID_ZGTA_INVALID_FUNCTION (CONSTANT) ZGDC 671
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TID_ZGTA_INVALID_RDUB (CONSTANT) ZGDC 671
TID_ZGTA_INVALID_RRAB (CONSTANT) ZGDC 671
TID_ZGTA_ISYSID_INVALID (CONSTANT) ZGDC 671
TID_ZGTA_MBRNAME_ERROR (CONSTANT) ZGDC 671
TID_ZGTA_MBRNAME_INVALID (CONSTANT) ZGDC 671
TID_ZGTA_NETNAME_INVALID (CONSTANT) ZGDC 671
TID_ZGTA_NO_RRAB (CONSTANT) ZGDC 671
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TID_ZGTA_RECOVERY_ENTERED (CONSTANT) ZGDC 671
TID_ZGTA_RSYSID_INVALID (CONSTANT) ZGDC 671
TID_ZGTA_SYSID_INVALID (CONSTANT) ZGDC 671
TID_ZGTA_TERMID_INVALID (CONSTANT) ZGDC 671
TID_ZGTA_TMP_ERROR (CONSTANT) ZGDC 671
TID_ZGTA_UNIQUE_INVALID (CONSTANT) ZGDC 671
TID_ZGTA_UNKNOWN_RRAB_RESP (CONSTANT) ZGDC 671
TID_ZGTA_ZGTI_ERROR (CONSTANT) ZGDC 671
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TID_ZGTI_ENTRY (CONSTANT) ZGDC 670
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TID_ZGTI_INVALID_VTAM_ONLY (CONSTANT) ZGDC 671
TID_ZGTI_ISYSID_INVALID (CONSTANT) ZGDC 671
TID_ZGTI_MBRNAME_INVALID (CONSTANT) ZGDC 671

TID_ZGTI_NETNAME_INVALID (CONSTANT) ZGDC 670
TID_ZGTI_PURGED (CONSTANT) ZGDC 671
TID_ZGTI_RECOVERY_ENTERED (CONSTANT) ZGDC 670
TID_ZGTI_RSYSID_INVALID (CONSTANT) ZGDC 671
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TID_ZGUB_RECOVERY_ENTERED (CONSTANT) ZGDC 673
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TID_ZGXA_DUPLICATE_SUBFIELD (CONSTANT) ZGDC 670
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TID_ZPCT_EXIT (CONSTANT) ZGDC 674
TID_ZPCT_INVALID_START_TYPE (CONSTANT) ZGDC 674
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TID_ZRTP_ENTRY (CONSTANT) ZGDC 673
TID_ZRTP_EXIT (CONSTANT) ZGDC 673
TID_ZRTP_INVALID_START_TYPE (CONSTANT) ZGDC 673
TID_ZSGN_CATALOG_ERROR (CONSTANT) ZGDC 675
TID_ZSGN_ENTRY (CONSTANT) ZGDC 675
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TID_ZXPS_DOMAIN_CALL_FAILED (CONSTANT) ZGDC 676
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TID_ZXPS_TRACKING_DATA_MISSING (CONSTANT) ZGDC 676
TID_ZXPS_UNEXPECTED_BIS_RESP (CONSTANT) ZGDC 676
TID_ZXPS_UNIDENTIFIED_RESPONSE (CONSTANT) ZGDC 676
TID_ZXPS_UNKNOWN_CMD_RESPONSE (CONSTANT) ZGDC 676
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TID_ZXPS_UNKNOWN_STATE_AFTER_SIG (CONSTANT) ZGDC 676
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