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Program Product

MVS/370 System Programming Library: Debugging Handbook Volume 3 Data Areas E-M

MVS/System Product
JES3 5740-XYN
MVS/System Product
JES2 5740-XYS

First Edition (July, 1985)

This edition applies to Version 1 Release 3.5 of MVS/System Product - JES2 5740-XYS and of MVS/System Product - JES3 5740-XYN until otherwise indicated in new editions or technical newsletters. See the Summary of Amendments following the Contents for a summary of the enhancements made in this manual. Changes are made periodically to the information herein; before using this publication in connection with the operation of IBM systems, consult the *System/370 Bibliography*, GC20-0001, for the editions that are applicable and current.

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Preface

This handbook provides reference information for use in debugging user or system programs. The user of this publication should have a working knowledge of MVS/370 functions and logic. It is intended for system programmers who are involved with debugging MVS system problems.

The handbook is divided into five volumes:

Volume 1 (LC28-1385)

- **Chapter 1. Problem Categories and Analysis** describes an approach to debugging based on identification and analysis of system status indicators.
- **Chapter 2. Debugging Aids** summarizes major MVS/370 debugging aids.
- **Chapter 3. Dump and Trace Formats** describes the output of debugging aids summarized in Section 2.
- **Chapter 4. Error Indicators** summarizes major system error indicators.
- **Chapter 5. General Reference** provides general reference information useful for debugging purposes.
- **Chapter 6. Control Block Chains** illustrates the logical relationships of major system data areas.

Volume 2 (LC28-1386)

- **Data Areas A-D** Describes the format of the data areas, and includes data areas frequently used in debugging.

Volume 3 (LC28-1387)

- **Data Areas E-M** Describes the format of the data areas, and includes data areas frequently used in debugging.

Volume 4 (LC28-1388)

- **Data Areas N-R** Describes the format of the data areas, and includes data areas frequently used in debugging.

Volume 5 (LC28-1389)

- **Data Areas S-Z** Describes the format of the data areas, and includes data areas frequently used in debugging.

Contents

Summary of Amendments

Summary of Amendments
for LC28-1387-0
as Updated July, 1985
by a major revision.
This edition supports
Version 1 Release 1.3.5 of MVS/System Product

The new or changed data areas included are:

EPAT	JFCB
EDUMPLST	LCCA
EWA	LCT
GVT	LRB
JCTX	MCT

Also, minor technical and editorial changes were made throughout the publication.

ECB

Common Name : Event Control Block
Macro ID : IHAECB
DSECT Name : ECB
Created by : User
Subpool and Key : User subpool and key
Size : 4 bytes
Pointed to by : Resides in the user's area
ASCBQECB field of the ASCB data area (QUIESCE ECB)
CHEBP field of the CSCB data area (STOP/MODIFY ECB)
EVNTENTP field of the EVNT data area (completed ECB)
IOBECBPT field of the IOB data area (associated ECB)
QELECB field of the QEL data area (associated ECB)
SSALCNCL field of the SSOB (allocation) data area (CANCEL ECB)
SSRRSECB field of the SSOB (req/ret) data area (STOP ECB)
TCASXECB field of the TCAST data area (emergency RELEASE ECB)
TCASMECB field of the TCAST data area (STOP/MODIFY ECB)
TCASTECB field of the TCAST data area (terminate TSO ECB)
TCBECB field of the TCBECB data area (associated ECB)
TSBXECB field of the TSBX data area (cross memory reconnect ECB)
TVCSECB field of the TVCS data area (cross memory POST ECB)
TVWAECB field of the TVWA data area (terminal control EC)
TVWATECB field of the TVWA data area (timer ECB)
TVWAECB1 field of the TVWA data area (CANCEL ECB)
TVWAECB2 field of the TVWA data area (reconnect ECB)
TVWAECB3 field of the TVWA data area (timer ECB)
TWAMECB field of the TWAR data area (main task ECB)
TWAVECB field of the TWAR data area (VTAM interface ECB)
TWAUECB field of the TWAR data area (user interface ECB)
TWACECB field of the TWAR data area (console communications ECB)
Serialization : LOCAL lock, CS (compare and swap) instruction
Function : The ECB is the subject of WAIT, POST, and EVENTS macro

instructions. It is used for communications among various components of the control programs as well as between problem programs and the control programs.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	ECB	
0	(0) SIGNED	4	ECBRB	REQUEST BLOCK ADDRESS (WHILE AWAITING COMPLETION OF AN EVENT)
0	(0) ADDRESS	4	ECBEVTB	ADDRESS OF EVENT TABLE
0	(0) ADDRESS	4	ECBEXTB	ADDRESS OF ECB EXTENSION (OS/VS2)
0	(0) CHARACTER	1	ECBCC	COMPLETION CODE BYTE
	1...		ECBWAIT	"X'80'"- WAITING FOR COMPLETION OF THE EVENT
	.1..		ECBPOST	"X'40'"- THE EVENT HAS COMPLETED
	.111 1111		ECBNORM	"X'7F'"- CHANNEL PROGRAM HAS TERMINATED WITHOUT ERROR. (CSW CONTENTS USEFUL.) FOR TCAM, WORK UNIT IN WORK AREA.
	.1.. ...1		ECBPERR	"X'41'"- CHANNEL PROGRAM HAS TERMINATED WITH PERMANENT ERROR. (CSW STATUS BYTES USEFUL. CCW ADDRESS MAY BE USEFUL OR ZEROS.) FOR BTAM, CHANNEL PROGRAM HAS COMPLETED WITH AN I/O ERROR.
	.1.. ..1.		ECBDAEA	"X'42'"- CHANNEL PROGRAM HAS TERMINATED BECAUSE A DIRECT ACCESS EXTENT ADDRESS HAS BEEN VIOLATED. (CSW CONTENTS DO NOT APPLY.) (ACCESS METHODS EXCEPT BTAM AND TCAM)
	.1.. ..11		ECBABEND	"X'43'"- I/O ABEND CONDITION OCCURRED FOR ERROR TRANSIENT LOADING TASK. (CSW CONTENTS DO NOT APPLY.) (ACCESS METHODS EXCEPT BTAM AND TCAM)
	.1.. .1..		ECBINCPT	"X'44'"- CHANNEL PROGRAM HAS BEEN INTERCEPTED BECAUSE OF PERMANENT ERROR ASSOCIATED WITH DEVICE END FOR PREVIOUS REQUEST. YOU MAY REISSUE THE INTERCEPTED REQUEST. (CSW CONTENTS DO NOT APPLY.) (ACCESS METHODS EXCEPT BTAM AND TCAM)
	.1.. 1...		ECBREPRG	"X'48'"- REQUEST ELEMENT FOR CHANNEL PROGRAM HAS BEEN MADE AVAILABLE AFTER IT HAS BEEN PURGED. (CSW CONTENTS DO NOT

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				APPLY.) (ACCESS METHODS OTHER THAN BTAM)
	.1.. 1...		ECBEHALT	"X'48'"- ENABLE COMMAND HALTED, OR I/O OPERATION PURGED. (BTAM)
	.1.. 1.11		ECBERPAB	"X'4B'"- ONE OF THE FOLLOWING ERRORS OCCURRED DURING TAPE ERROR RECOVERY PROCESSING (1) THE CSW COMMAND ADDRESS IN THE IOB WAS ZEROS OR (2) AN UNEXPECTED LOAD POINT WAS ENCOUNTERED. (CSW CONTENTS DO NOT APPLY.) (ACCESS METHODS EXCEPT BTAM AND TCAM)
	.1.. 1111		ECBERPER	"X'4F'"- ERROR RECOVERY ROUTINES HAVE BEEN ENTERED BECAUSE OF DIRECT ACCESS ERROR BUT ARE UNABLE TO READ HOME ADDRESS OR RECORD 0. (CSW CONTENTS DO NOT APPLY.) (ACCESS METHODS EXCEPT BTAM AND TCAM)
	.111		ECBSETEO	"X'70'"- THE SETEOF MACRO WAS ISSUED IN THE MESSAGE COMMAND PROGRAM (NO WORK UNIT IN WORK AREA) (TCAM)
	.1.1 11..		ECBDMQDS	"X'5C'"- CONGESTED DESTINATION MESSAGE QUEUE DATA SET (WRITE ONLY) (TCAM)
	.1.1 1...		ECBSEQER	"X'58'"- SEQUENCE ERROR (TCAM)
	.1.1 .1..		ECBINVMD	"X'54'"- INVALID MESSAGE DESTINATION (TCAM)
	.1.1 ..1.		ECBWKOVR	"X'52'"- WORK AREA OVERFLOW (TCAM)
	.1.1		ECBNOMSG	"X'50'"- MESSAGE WAS NOT FOUND WHEN READ MACRO WAS ISSUED IN CONJUNCTION WITH POINT MACRO TO RETRIEVE A MESSAGE (TCAM)
	.1..		ECBDTRAQ	"X'40'"- DATA IS ON READ-AHEAD QUEUE (TCAM)
	.... ..1.		ECBEOQ	"X'02'"- END-OF-QUEUE CONDITION (NOT END-OF-FILE) (TCAM)
	1		ECBRAQMT	"X'01'"- READ-AHEAD QUEUE EMPTY, BUT DESTINATION QUEUE NOT EMPTY (TCAM)
1	(1) ADDRESS	3	ECBRBA	REQUEST BLOCK ADDRESS (WHILE AWAITING COMPLETION OF AN EVENT)
1	(1) ADDRESS	3	ECBEVTBA	ADDRESS OF EVENT TABLE
1	(1) ADDRESS	3	ECBEXTBA	ADDRESS OF ECB EXTENSION (OS/VS2)
1	(1) CHARACTER	3	ECBCCCNT	ZEROES OR REMAINDER OF COMPLETION CODE (AFTER COMPLETION OF THE EVENT)
1	(1) CHARACTER	2		FIRST TWO BYTES OF ECBEVTBA

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
3	(3) BITSTRING	1	ECBBYTE3	THIRD BYTE OF ECBEVTBA
	11		ECBEXTND	"X'03'"- ECB EXTENSION EXISTS (OS/VS2)
	1		ECBEVNT	"X'01'"- EXTENDED FORMAT ECB

ECT

Common Name : TSO Environment Control Table
Macro ID : IKJECT
DSECT Name : ECT
Created by : IKJEFT01
Subpool and Key : Subpool 1 and key 8
Size : 40 bytes
Pointed to by : CPPLECT field of the CPPL data area
TPLECT field of the TPL data area
Serialization :
Function : Communication medium for TMP, command processors and service routines. Contains current command/subcommand name, return code, pointers to work areas and message chain, and processing control flags.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	ECT	
0	(0) HEX	1	ECTRCDF	HIGH ORDER BIT INDICATES CP ABENDED
1	(1) CHARACTER	3	ECTRTCD	RETURN CODE FROM LAST CP (ABEND CODE IF ECTRCDF IS SET)
4	(4) ADDRESS	4	ECTIOWA	ADDR OF I/O SERVICE ROUTINES WORK AREA
8	(8) HEX	1	ECTMSGF	HIGH ORDER BIT SET MEANS DELETE SECOND LEVEL MESSAGE
9	(9) ADDRESS	3	ECTSMSG	ADDR OF SECOND LEVEL MSG CHAIN
12	(C) CHARACTER	8	ECTPCMD	PRIMARY COMMAND NAME
20	(14) CHARACTER	8	ECTSCMD	SUBCOMMAND NAME
28	(1C) HEX	1	ECTSWS	1 BYTE OF SWITCHES
	1...		ECTNOPD	"X'80'" 0 BIT ON= NO OPERANDS EXIST IN CMD BUFFER

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
EQU X'40'	RESERVED			
..1.			ECTATRM	"X'20'" CP TERMINATED BY TMP DETACH W/ STAE
...1			ECTLOGF	"X'10'" LOGON/OFF REQUESTED TMP TO LOGOFF USER
.... 1...			ECTNMAL	"X'08'" NO USER MSGS TO RECVED AT LOGON
.... .1..			ECTNNOT	"X'04'" NO BRDCST NOTICES TO BE RECVED AT LOGON
.... ..1.			ECTBKGRD	"X'02'" BACKGROUND MODE
....1			ECTATTN	"X'01'" ATTENTION MODE FOR CLIST Z30NQKM
29	(1D) ADDRESS	3	ECTDDNUM	COUNTER FOR GENERATING TEMP DDNAMES
32	(20) ADDRESS	4	ECTUSER	WORD RESERVED FOR INSTALLATION USE
36	(24) ADDRESS	4	ECTBKPB	ADDR OF BACKGROUND PARAMETER BLOCK
40	(28) HEX	1	ECTSWS2	EXTENDED FLAG FIELD
1...			ECTDEFCS	"X'80'" DEFAULT DELETE CHARACTERS USED
.1..			ECTTABND	"X'40'" TEST SUBTASK ABENDED
..1.			ECTPARSE	"X'20'" PARSE ?HELP ALLOWED
...1			ECTPOSIT	"X'10'" ECTHELP=POSITIONAL NUMBER
.... 1...			ECTKEYWD	"X'08'" ECTHELP=PCE ADDRESS OR 0
.... .1..			ECTNOQPR	"X'04'" ? PROMPT HELP IS DISABLED
.... ..1.			ECTPARSA	"X'02'" PARS ACTIVE FOR IKJEGINT
....1			ECTNOPUT	"X'01'" TO PREVENT THE PUTLINE
41	(29) CHARACTER	3		RESERVED
44	(2C) ADDRESS	4	ECTHELP	POSITIONALS: POSITIONAL # IN EBCDIC KEYWORDS: CONTAINS ADDRESS OF PCE FOR KEYWORD OR 0 IF INVALID KEYWORD ENTERED
44	(2C) CHARACTER	4	ECTNUM	SAME AS ECTHELP
48	(30) ADDRESS	4		RESERVED
52	(34) ADDRESS	4		RESERVED

EDUMPLST

Common Name : Vary Storage Physical Dump List
Macro ID : IEEMMSAI
DSECT Name : None
Created by : IEEVSTGP
Subpool and Key : Subpool 253 and key 0
Size : Variable
Pointed to by : None
Serialization : None
Function : Maps Vary Storage Physical storage address list for dumping.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	EDUMPLST	LIST OF AREAS TO DUMP
0	(0) ADDRESS	4	ESTARTP	START POINT OF AREA TO DUMP
4	(4) ADDRESS	4	EENDP	END POINT OF AREA TO DUMP

EED

Common Name : Extended Error Descriptor Block
Macro ID : IHART1W
DSECT Name : EED
Created by : IEAVNIP0 or IEEVCPU
Subpool and Key : 245 and key 0
Size : 92 bytes
Pointed to by : RT1WEED field of the RT1W data area
TCBRTM12 field of the TCB data area
EEDFWRDP field of the EED data area
Serialization : None
Function : Used to pass information between RTM1 and RTM2, or recursively from RTM1 to RTM1. There are five types of EEDs identified by the EEDID field:

1. Registers and PSW
2. Dump options
3. Hardware repair status
4. Error ID
5. Dump storage ranges

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	100	EED	EXTENDED ERROR DESCRIPTOR
0	(0) ADDRESS	4	EEDFWRDP	POINTER TO NEXT EED ON CHAIN OR ZERO
4	(4) CHARACTER	4	EEDDES	DESCRIPTION OF EED CONTENTS
4	(4) CHARACTER	1	EEDID	TYPE OF INFORMATION IN EED
5	(5) CHARACTER	1	EEDFLAGS	FLAGS DESCRIBING INFORMATION IN EEDS
	1...		EEDERFL	ON MEANS ERRORID IN EED THE ERRORID MAY BE IN THE DUMPS OPTIONS EED, THE HARDWARE REPAIR EED, OR MAY RESIDE BY ITSELF IN AN EED
	.1..		EEDNODMP	USED TO COMMUNICATE DUMP SUPPRESSION BY SLIP FROM RTM1 TO RTM2
	..1.		EEDSPI	ON MEANS THIS EED IS PART OF AN SPI CONTROL BLOCK (NOT FROM THE EED POOL)
	...1		EEDSRBTP	ON MEANS THIS EED WAS CREATED FOR

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	 1111			SRB-TO-TASK PERCOLATION PROCESSING RESERVED
6	(6) CHARACTER	2		RESERVED
8	(8) CHARACTER	4	EEDERROR	DESCRIPTION OF THE ERROR WHICH NECESSITATETED EEDS
8	(8) ADDRESS	1	EEDMODE	SYSTEM MODE AT TIME OF ERR
9	(9) CHARACTER	1	EEDERTYP	ENTRY PT USED BY RTM1
10	(A) SIGNED	2	EEDASID	ASID OF ORIGINATING MEMORY IN CROSS MEMORY ABENDS
12	(C) CHARACTER	88	EEDVARBL	VARIABLE PART OF EED, MAPPED SEPERATELY BELOW

CONSTANTS USED WITH THE EEDID AND TCBRTM12 FIELDS
CONSTANT USED TO DEFINE SIZE OF STANDARD EED AREA
REGSPTYP EED--REGISTERS, PSW, AND CROSS MEMORY INFORMATION
AT THE TIME OF ERROR

12	(C) STRUCTURE	88	EEDREGSP	REGISTERS, PSW, AND CROSS MEMORY INFO AT TIME OF ERROR
12	(C) CHARACTER	64	EEDREGS	REGISTERS AT TIME OF ERROR
12	(C) ADDRESS	4	EEDREG0	REGISTER 0 SLOT
16	(10) ADDRESS	4	EEDREG1	REGISTER 1 SLOT
20	(14) ADDRESS	4	EEDREG2	REGISTER 2 SLOT
24	(18) ADDRESS	4	EEDREG3	REGISTER 3 SLOT
28	(1C) ADDRESS	4	EEDREG4	REGISTER 4 SLOT
32	(20) ADDRESS	4	EEDREG5	REGISTER 5 SLOT
36	(24) ADDRESS	4	EEDREG6	REGISTER 6 SLOT

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
40	(28) ADDRESS	4	EEDREG7	REGISTER 7 SLOT
44	(2C) ADDRESS	4	EEDREG8	REGISTER 8 SLOT
48	(30) ADDRESS	4	EEDREG9	REGISTER 9 SLOT
52	(34) ADDRESS	4	EEDREG10	REGISTER 10 SLOT
56	(38) ADDRESS	4	EEDREG11	REGISTER 11 SLOT
60	(3C) ADDRESS	4	EEDREG12	REGISTER 12 SLOT
64	(40) ADDRESS	4	EEDREG13	REGISTER 13 SLOT
68	(44) ADDRESS	4	EEDREG14	REGISTER 14 SLOT
72	(48) ADDRESS	4	EEDREG15	REGISTER 15 SLOT
76	(4C) CHARACTER	16	EEDPSW	EC MODE PSW + ILC INT CODE AND TRANSLATION ADDRESS
76	(4C) CHARACTER	8	EEDPSW1	FIRST HALF OF PSW
76	(4C) SIGNED	4	EEDPSWMK	SYTEM AND PROG MASK
80	(50) ADDRESS	4	EEDPSWIC	INSTRUCTION COUNTER
84	(54) CHARACTER	8	EEDPSW2	SECND HALF OF PSW
84	(54) SIGNED	4	EEDINILC	INTERP CODE AND ILC
84	(54) CHARACTER	1		ALWAYS SET TO ZERO
85	(55) ADDRESS	1	EEDILC	INSTRUCTION LEN COUNTER THE NUMBER OF BYTES TO SUBTRACT FROM THE IC TO GET LAST INSTRUCTION EXECUTED
86	(56) UNSIGNED	2	EEDINTCD	INTERRUPT CODE
88	(58) ADDRESS	4	EEDTRANS	TRANSLATION EXCEPTION ADDR
92	(5C) CHARACTER	8	EEDXM	CROSS MEMORY INFO

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
92 (5C)	CHARACTER	4	EEDXMCR3	CONTROL REGISTER 3
96 (60)	CHARACTER	4	EEDXMCR4	CONTROL REGISTER 4
DUMPOTYP EED--DUMP OPTIONS				
12 (C)	STRUCTURE	64	EEDDUMPO	DUMP OPTIONS LEN OF THIS AREA IS DEPENDENT ON THE FORMAT OF THE SNAP PARM LIST AND THE RTCA STARTING AT LABEL SDWADUMP
12 (C)	CHARACTER	8	EEDSCDMP	DUMP PARAMETERS COMMON TO THE SNAP AND SDWA MAPPINGS
12 (C)	CHARACTER	4	EEDSDUMP	DUMP CHARACTERISTICS
16 (10)	CHARACTER	4	EEDSDDAT	SDATA/PDATA OPTIONS
16 (10)	BITSTRING	2	EEDSSDAT	DUMP SYSTEM DATA
18 (12)	BITSTRING	2	EEDSPDAT	DUMP PROB PROG DATA
20 (14)	CHARACTER	56	EEDSDPSL	DUMP STORAGE LISTS
20 (14)	CHARACTER	56	EEDRGS	MAX OF 7 RANGES
DUMPXTYP EED--DUMP EXTENSION FOR STORAGE LISTS				
12 (C)	STRUCTURE	88	EEDDUMPX	
12 (C)	CHARACTER	88	EEDSDSLX	
12 (C)	CHARACTER	88	EEDXRGS	MAX OF 11 RANGES
HWREPTYP EED--HARDWARE REPAIR STATUS EED				

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
12	(C) STRUCTURE	28	EEDHWREP	HARDWARE REPAIR STATUS INFORMATION
12	(C) ADDRESS	4	EEDHSCKB	STARTING VRT ADR OF STOR CK
16	(10) ADDRESS	4	EEDHSCKE	ENDING VIRT ADDR OF STOR CK
20	(14) ADDRESS	1	EEDHMCHS	RTM1 SOFTWARE STATUS FLAGS
	1...		EEDHSRVL	STORAGE RANGES AND RFSA VALD
	.1..		EEDHRCDF	MCH RCRD NOT RECORDED
	..1.		EEDHTSVL	TIME STAMP IS VALID
	...1		EEDINVP	STORAGE RECONFIGURED PAGE INVALIDATED
	.... 1...		EEDRSRC	STORAGE RECONFIGURATION STATUS IS AVAILABLE
	.... .1..		EEDHRSRF	STORAGE RECONFIGURATION NOT NOT ATTEMPTED
	.... ..1.			RESERVED
	1			RESERVED
21	(15) ADDRESS	1	EEDHMCHD	RTM1 MACHINE CHECK DATA
	1...		EEDHSKYF	STORAGE KEY FAILURE
	.1..		EEDHREGU	REGISTERS UNPREDICTABLE
	..1.		EEDHPSWU	PSW UNPREDICTABLE
	...1		EEDHSCK	STORAGE DATA CHK
	.... 1...		EEDHACR	ACR IN PROGRESS
	.... .1..		EEDHINSF	INSTRUCTION FAILURE
	.... ..1.		EEDHSOFT	SOFT ERROR
	1		EEDHTERR	TIMER ERROR
22	(16) SIGNED	2	EEDHCPID	CPU ADDR OF DEAD CPU ACR
24	(18) ADDRESS	2	EEDHRSRS	STORAGE RECONFIG STATUS BYTES
24	(18) ADDRESS	1	EEDHRSR1	STORAGE RECONFIG STATUS 1
	1111 11..			RESERVED
	.... ..1.		EEDHMSER	STOR ERR ALREDY SET IN FRAME
	1		EEDHCHNG	FRAME HAD CHANG INDICATOR ON
25	(19) ADDRESS	1	EEDHRSR2	STORAGE RECONFIG STATUS 2
	1...		EEDHOFLN	FRAME OFFLIN OR SCHED OFFLIN
	.1..		EEDHINTC	INTERCEPT-FRAME IS SCHEDULED OFFLINE, EITHER STORAGE ERR OR V=R IND ALSO ON
	..1.		EEDHSPER	PERM ERR OCCURS IN FRAME
	...1		EEDHNUCL	FRAME CONTAINS PERMANENT RESIDENT SYSTEM STORAGE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	.... 1...		EEDHFSQA	FRAME IN USE FOR SQA
	.... .1..		EEDHFLSQ	FRAME IN USE FOR LSQA
	.... ..1.		EEDHPGFX	FRAME CONTAINS PGFIXED DATA
	1		EEDHVERQ	FRAME IN USE FOR V=R OR IF EEDHINTC IS ON IS SCHED V=R
26	(1A) ADDRESS	2		RESERVED
28	(1C) ADDRESS	4	EEDHRFSA	REAL FAILING STORAGE ADDR
32	(20) CHARACTER	8	EEDHTIME	TIMESTAMP OF MCH RECORD

ERRIDTYP EED--ERROR ID AND FRR TO ESTAE COMMUNICATION BUFFER
EED

12	(C) STRUCTURE	88	EEDERMAP	ERRORID AND FRR TO ESTAE COMMUNICATION BUFFER INFORMATION IN EED
12	(C) CHARACTER	70		MAPPED BY EEDHWREP OR BY EEDDUMPO OR RESERVED
82	(52) CHARACTER	10	EEDERRID	ERRORID
82	(52) CHARACTER	2	EEDESEQ#	SEQUENCE NUMBER
84	(54) UNSIGNED	2	EEDECPUI	CPU ID
86	(56) CHARACTER	2	EEDEASID	ASID
88	(58) CHARACTER	4	EEDETIME	TIME STAMP
92	(5C) CHARACTER	8	EEDCOMU	FRR TO ESTAE COMMUNICAITON BUFFER (FROM SDWACOMU)

CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
EED	0		EEDHRFSA	1C		EEDREG1	10	
EEDASID	A		EEDHRSRF	14	04	EEDREG10	34	
EEDCOMU	5C		EEDHRSRS	18		EEDREG11	38	
EEDDES	4		EEDHRSR1	18		EEDREG12	3C	
EEDDUMPO	C		EEDHRSR2	19		EEDREG13	40	
EEDDUMPX	C		EEDHSCK	15	10	EEDREG14	44	
EEDEASID	56		EEDHSCKB	C		EEDREG15	48	
EEDECPUI	54		EEDHSCKE	10		EEDREG2	14	
EEDERFL	5	80	EEDHSKYF	15	80	EEDREG3	18	
EEDERMAP	C		EEDHSOFT	15	02	EEDREG4	1C	
EEDERRID	52		EEDHSPER	19	20	EEDREG5	20	
EEDERROR	8		EEDHSRVL	14	80	EEDREG6	24	
EEDERTYP	9		EEDHTERR	15	01	EEDREG7	28	
EEDESEQ#	52		EEDHTIME	20		EEDREG8	2C	
EEDETIME	58		EEDHTSVL	14	20	EEDREG9	30	
EEDFLAGS	5		EEDHVERQ	19	01	EEDRGS	14	
EEDFWRDP	0		EEDHWREP	C		EEDRSRC	14	08
EEDHACR	15	08	EEDID	4		EEDSCDMP	C	
EEDHCHNG	18	01	EEDILC	55		EEDSDDAT	10	
EEDHCPID	16		EEDINILC	54		EEDSDPSL	14	
EEDHFLSQ	19	04	EEDINTCD	56		EEDSDSLX	C	
EEDHFSQA	19	08	EEDINVP	14	10	EEDSDUMP	C	
EEDHINSF	15	04	EEDMODE	8		EEDSPDAT	12	
EEDHINTC	19	40	EEDNODMP	5	40	EEDSPI	5	20
EEDHMCHD	15		EEDPSW	4C		EEDSRBTP	5	10
EEDHMCHS	14		EEDPSWIC	50		EEDSSDAT	10	
EEDHMSER	18	02	EEDPSWMK	4C		EEDTRANS	58	
EEDHNUCL	19	10	EEDPSW1	4C		EEDVARBL	C	
EEDHOFLN	19	80	EEDPSW2	54		EEDXM	5C	
EEDHPGFX	19	02	EEDREGS	C		EEDXMCR3	5C	
EEDHPSWU	15	20	EEDREGSP	C		EEDXMCR4	60	
EEDHRCDF	14	40	EEDREG0	C		EEDXRGS	C	
EEDHREGU	15	40						

ENFCT

Common Name : Event Notification Control Table
Macro ID : IEFENFCT
DSECT Name : ENFCT
Created by : At SYSGEN
Subpool and Key : Nucleus, key 0
Size : 44 bytes
Pointed to by : CVTENFCT field of the CVT data area
Serialization : None
Function : Contains the information required by the event notification facility and addresses of event notification routines.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	44	ENFCT	
0	(0) CHARACTER	4	ENFCTID	ACRONYM: ENFC
4	(4) SIGNED	2	ENFCFLGS	FLAG BYTES
4	(4) BITSTRING	1	ENFCFLG1	FLAG BYTE 1
	1...		ENFCAVAL	ENF INITIALIZED
	.1..		ENFCOFF	ENF NOT AVAILABLE
	..1.		ENFCASYN	ASYNCHRONOUS PROC. NOT AVAILABLE
	...1 1111			RESERVED
5	(5) BITSTRING	1	ENFCFLG2	RESERVED
6	(6) SIGNED	2	ENFCRSV1	RESERVED
8	(8) ADDRESS	4	ENFCPMOD	ADDRESS OF IEFENFNM (USED FOR ENF INTERNAL PROCESSING)
12	(C) ADDRESS	4	ENFCFMOD	ADDRESS OF ENF SERVICE ROUTER (IEFENFFX)
16	(10) ADDRESS	4	ENFCASCB	ADDRESS OF MASTER SCHEDULER ASCB
20	(14) ADDRESS	4	ENFCVT	ADDRESS OF ENF VECTOR TABLE
24	(18) ADDRESS	4	ENFCDS	ADDRESS OF ENF PROCESS TABLE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
28 (1C)	CHARACTER	4	ENFCECB	EVENT NOTIFICATION FACILITY ECB
32 (20)	SIGNED	4	ENFCMAX	MAXIMUM NUMBER OF EVENTS
36 (24)	SIGNED	4	ENFCRSV2	RESERVED
40 (28)	SIGNED	4	ENFCRSV3	RESERVED

ENFDS

Common Name : Event Notification Process Table
Macro ID : IEFENFDS
DSECT Name : ENFDS
Created by : IEAVNP47
Subpool and Key : 239 and key 0
Size : 1604 bytes
Pointed to by : ENFCDS field of the ENFCT data area.
Serialization : Compare and swap on ENFDUPDT to put entry into table.
Function : Contains requests for event notification facility services that are processed asynchronously.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	254	ENFDS	
0	(0) CHARACTER	4	ENFDSID	ENFDS CONTROL BLOCK ID
4	(4) CHARACTER	250	ENFDSENT	ENFDS ENTRY
4	(4) CHARACTER	4	ENFDFLG	FLAG FIELD
4	(4) BITSTRING	1	ENFDATT	USE BYTE
	1...		ENFDUSE	REQUEST PENDING FLAG
	.1..		ENFDUPDT	ENTRY IN USE BY IEFENFFX
	..11 1111			RESERVED
5	(5) CHARACTER	3	ENFDRSV1	RESERVED
8	(8) CHARACTER	1	ENFDEPL	EVENT PARAMETER LIST TO PROCESS

ENFLS

Common Name : Event Notification Listener Element
Macro ID : IEFENFLS
DSECT Name : ENFLS
Created by : IEFENFNM
Subpool and Key : 241 and key 0
Size : 28 bytes
Pointed to by : ENFLPTR field of the ENFLS data area.
ENFVPTR field of the ENFVT data area.
Serialization : Compare and swap pointer to next listener element into ENFLPTR.
Function : Contains information about a listener of an event.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	28	ENFLS	
0	(0) CHARACTER	4	ENFLSID	ENFLS HEADER
4	(4) BITSTRING	1	ENFLFLGS	FLAGS FIELD
	1...		ENFLERR	ENFLS NOT USABLE
	.111 1111			RESERVED
5	(5) CHARACTER	1	ENFLQMSK	QUALIFIER MASK
6	(6) CHARACTER	2	ENFLRSV1	RESERVED
8	(8) CHARACTER	4	ENFLQUAL	QUALIFIER
12	(C) ADDRESS	4	ENFLRTN	ADDRESS OF ROUTINE TO GET CONTROL
16	(10) CHARACTER	4	ENFLRSV2	RESERVED
20	(14) SIGNED	4	ENFLUSE	USE COUNT
	1...		ENFLDEL	ENFLS AVAILABLE FOR REUSE
24	(18) ADDRESS	4	ENFLPTR	ADDRESS OF NEXT ENFLS

ENFVT

Common Name : Event Notification Vector Table
Macro ID : IEFENFVT
DSECT Name : ENFVT
Created by : IEAVNP47
Subpool and Key : 231 and key 0
Size : Variable length depending on the number of event codes (ENFCMAX)
Pointed to by : ENFCVT field of the ENFCT data area.
Serialization : Compare and swap pointer to first listener element into ENFVPTR.
Function : Relates each event to the listeners for that event.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	4	ENFVT	
0	(0) CHARACTER	4	ENFVTID	ENFVT CONTROL BLOCK ID
4	(4) CHARACTER	0	ENFVTENT	ENFVT ENTRY
4	(4) CHARACTER	4	ENFVRSV1	RESERVED
8	(8) ADDRESS	4	ENFVPTR	POINTER TO FIRST ENFLS ON THE QUEUE FOR THE EVENT

EPAL

Common Name : External Parameter Area, SWA Manager, Locate Mode
Macro ID : IEFZB505
DSECT Name : ZB505
Created by : Routines that invoke the SWA manager
Subpool and Key : Any subpool and key
Size : 16 bytes
Pointed to by : The caller's parameter list
Serialization : None
Function : Contains the virtual address of the SWA storage in which a SWA control block resides.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	ZB505	
0	(0) SIGNED	4	SWBLKPTR	POINTER TO BLOCK
4	(4) SIGNED	4	SWVAFW	4 BYTE SWA VIRTUAL ADDRESS
4	(4) CHARACTER	3	SWVA	3 BYTE SWA VIRTUAL ADDRESS
7	(7) CHARACTER	1	SWBLKID	BLOCK ID OR ZERO
8	(8) SIGNED	4	SWLNGTH	LENGTH OF SWA BLOCK (NOT INCLUDING SWA PREFIX)
12	(C) SIGNED	4	SWCHNPTR	CHAIN POINTER OR ZERO

EPAM

Common Name : External Parameter Area, SWA Manager, Move Mode
Macro ID : IEFZB506
DSECT Name : ZB506
Created by : Routines that invoke SWA Manager
Subpool and Key : Any subpool and key
Size : 8 bytes
Pointed to by : QMPCL field of the QMPA data area
Serialization : None
Function : Contains the virtual address of the SWA storage in which a SWA control block resides.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	ZB506	
0	(0) SIGNED	4	SWBUFPTR	FOR READ OR WRITE BUFFER ADDRESS
0	(0) CHARACTER	3	SWASNVA	FOR ASSIGNS (SVA)
3	(3) CHARACTER	1	SWASNZO	4TH BYTE OF SVA0 FOR ASSIGNS REMAINDER NOT USED FOR ASSIGNS
4	(4) CHARACTER	3	SWROWVA	SVA FOR READ OR WRITE
7	(7) CHARACTER	1	SWWRTID	BLOCK ID FOR WRITE

EPAT

Common Name : SRM Algorithm Entry Point Descriptor Table
Macro ID : IRAEPAT
DSECT Name : EPAT
Created by : Assembled into nucleus module, IRARMCNS
Subpool and Key : NUCLEUS and key 0
Size : 560 bytes
Pointed to by : RMCTEPBG field of the RMCT data area
Serialization : SRM lock
Function : The EPAT contains the entry point descriptors of all individually requested or individually scheduled SRM algorithms
acro keys off the EPAT
(routines whose scope of applicability is system-wide). The IRACTLCL macro keys off the EPAT displacements to generate the calling sequences whereby algorithms are requested. The contents of each entry in the table are mapped by the IRARMEP macro.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	576	EPAT	
0	(0) CHARACTER	32	RMEPBMS4	SIG USER THRSHOLD ADJUST RTN
32	(20) CHARACTER	32	RMEPBWM8	XACN RPTING
64	(40) CHARACTER	32	RMEPBCAP	CTL PRT ANLZ RTNE
96	(60) CHARACTER	32	RMEPBCSF	CTL SWAP-IN FAIL ANALYSIS
128	(80) CHARACTER	32	RMEPBMS9	LOGIC SWAP CHECKER
160	(A0) CHARACTER	32	RMEPBRM1	RES MONITORING RTNE
192	(C0) CHARACTER	32	RMEPBRM2	RM ADJUSTMENT RTNE
224	(E0) CHARACTER	32	RMEPBSQA	SQA MSG PRNT RTNE
256	(100) CHARACTER	32	RMEPBMS6	MSO WAIT CHK RTNE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
288 (120)	CHARACTER	16	RMEPBPR5	PRA FORC STL RTNE
304 (130)	CHARACTER	16	RMEPBMS2	MSO ANALYSIS RTNE
320 (140)	CHARACTER	32	RMEPBASM	ASM SHRT MON RTNE
352 (160)	CHARACTER	32	RMEPBIL1	IOL UTIL MON RTNE
384 (180)	CHARACTER	16	RMEPBAP2	ASCBCHAP INTERFACE
400 (190)	CHARACTER	32	RMEPBWM2	WLM ANALYSIS RTNE
432 (1B0)	CHARACTER	32	RMEPBCL1	CPU UTIL MON RTNE
464 (1D0)	CHARACTER	32	RMEPBAP1	APG ANALYSIS RTNE
496 (1F0)	CHARACTER	32	RMEPBEQ1	ENQ STAT MON RTNE
528 (210)	CHARACTER	32	RMEPBPR1	PRA ANALYSIS RTNE
560 (230)	CHARACTER	16	RMEPBMS5	MS5 STOR THRESH RTNE
576 (240)	CHARACTER	0	EPATEND	END OF EPAT TABLE

EPDT

Common Name : SRM Deferred Action Entry Point Descriptor Table
Macro ID : IRAEPDT
DSECT Name : EPDT
Created by : Assembled into nucleus module, IRARMCNS
Subpool and Key : NUCLEUS and key 0
Size : 112 bytes
Pointed to by : Located by fixed offset (X'850') from the beginning of the RMCT data area
Serialization : SRM lock
Function : The EPDT contains the entry point descriptors of all SRM event-initiated action routines which require serialization with other SRM processing. The IRACTLCL macro keys off the EPDT displacements to generate the calling sequences for deferrable actions. The contents of each entry are mapped by the IRARMEP macro.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	112	EPDT	
0	(0) CHARACTER	16	RMEPBPR9	ADR SPACE TRIM
16	(10) CHARACTER	16	RMEPBDEL	OUCB DELETE ROUTINE
32	(20) CHARACTER	16	RMEPBIL4	IMCB DELETE ROUTINE
48	(30) CHARACTER	16	RMEPBUXB	OUXB DELETE ROUTINE
64	(40) CHARACTER	16	RMEPBHIT	USER READY PROCES RTNE
80	(50) CHARACTER	16	RMEPBRPS	USER STATE CHANGE RTNE
96	(60) CHARACTER	16	RMEPBSWI	SWAP IN SYSEVENT ROUTINE (FORMERLY DONE AT RESTORE COMPLETE)
112	(70) CHARACTER	0	EPDTEND	END OF EPDT TABLE

EPST

Common Name : SRM Scanned Action Entry Point Descriptor Table
Macro ID : IRAEPST
DSECT Name : EPST
Created by : Assembled into nucleus module, IRARMCNS
Subpool and Key : NUCLEUS and key 0
Size : 96 bytes
Pointed to by : Located by fixed offset (X'8C0') from the beginning of the RMCT data area
Serialization : SRM lock
Function : The EPST contains the entry point descriptors of all SRM routines to which control may be routed by control algorithm analysis processing. Requests for such routines are generated internally by the control algorithm.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	96	EPST	
0	(0) CHARACTER	16	RMEPBWM3	USER WORKLOD EVAL RTNE
0	(0) ADDRESS	4	EPSTWM3	ROUTINE ADDRESS
16	(10) CHARACTER	16	RMEPBMS3	USER STOR LOD EVAL RTN
16	(10) ADDRESS	4	EPSTMS3	ROUTINE ADDRESS
32	(20) CHARACTER	16	RMEPBIL3	USER I/O LOD EVAL RTNE
32	(20) ADDRESS	4	EPSTIL3	ROUTINE ADDRESS
48	(30) CHARACTER	16	RMEPBCL3	USER CPU LOD EVAL RTNE
48	(30) ADDRESS	4	EPSTCL3	ROUTINE ADDRESS
64	(40) CHARACTER	16	RMEPBCSO	USER SWAPOUT REQST RTN
64	(40) ADDRESS	4	EPSTCSO	ROUTINE ADDRESS

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
80	(50) CHARACTER	16	RMEPBCSI	USER SWAP-IN REQST RTN
80	(50) ADDRESS	4	EPSTCSI	ROUTINE ADDRESS
96	(60) CHARACTER	0	EPSTEND	END OF EPST TABLE

EVNT

Common Name : Event Table
Macro ID : IHAEVNT
DSECT Name : EVNT
Created by : IEAVEVT1
Subpool and Key : 253 and key 0
Size : 40 plus the number of EVENT entries requested by the user
Pointed to by : TCBEVENT field of the TCB data area
TCBEXTZT field of the TCB data area(first EVNT)
EVNTLNK field of the EVNT data area(next EVNT)
Serialization : LOCAL lock
Function : Contains pointers to EVENTS type ECBs that have completed. Also contains information that will be used by POST to take the user out of the wait state.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	EVNT	
0	(0) FLOATING	8	EVNTBEGN	BEGINING OF EVENT TABLE
0	(0) FLOATING	8	EVNTHEDR	EVENT TABLE HEADER
0	(0) ADDRESS	4	EVNTLNK	EVENT TABLE QUEUE LINK PTR
4	(4) ADDRESS	4	EVNTTCBP	TCB POINTER
8	(8) ADDRESS	4	EVNTRBP	WAITING RB POINTER
12	(C) ADDRESS	4	EVNTFST	PTR TO FIRST EVENT ENTRY
16	(10) ADDRESS	4	EVNTLST	PTR TO LAST ENTRY OF TABLE
20	(14) ADDRESS	4	EVNTLSTA	PTR TO LAST ACTIVE EVENT ENTRY IN TABLE
24	(18) ADDRESS	1	EVNTFLG1	EVENT TABLE FLAGS
	1...		EVNTUPR	"X'80'" UPDATE EVENT TABLE INDICATOR
25	(19) ADDRESS	3	EVNTLNTH	LENGTH OF EVENT TABLE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
28	(1C) ADDRESS	4	EVNTRES2	RESERVED
32	(20) ADDRESS	4	EVNTRES3	RESERVED
36	(24) ADDRESS	4	EVNTDUMY	DUMMY EVENT ENTRY
40	(28) ADDRESS	4	EVNTHEND	END OF EVENT TABLE HEADER
40	(28) ADDRESS	4	EVNTENTY	EVENT ENTRY
40	(28) ADDRESS	1	EVNTFLGS	EVENT ENTRY FLAGS
	1...		EVNTENDL	"X'80'" END OF LIST INDICATOR
41	(29) ADDRESS	3	EVNTENTP	PTR TO POSTED ECB

EWA

Common Name : IOS Common ERP Work Area
Macro ID : EWAMAP
DSECT Name : EWA
Created by : IECIOSCN, IECVPST, and IECVRSTI
Subpool and Key : 245 and key 0
Size : 160 bytes
Pointed to by : IOSERP field of the IOSB data area
UCBIOQ field of the UCB data area
Serialization : UCB lock when pointed to by the UCB, otherwise none.
Function : This block represents the common segment of a standard 160-byte ERP work area. The I/O Supervisor (IOS), channel check handler (CCH), and error recovery procedures (ERPs) use it to communicate with each other.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	EWA	
0	(0) SIGNED	4	EWAHDR	
0	(0) ADDRESS	4	EWAEXT	ADDRESS OF WORKAREA EXTENSION
4	(4) HEX	1	EWAFLG1	FLAG BYTE 1
	1...		EWASLIS	"X'80'" W.A. INVOLVED IN RECOVERY SENSE
	.1..		EWAAPR	"X'40'" ALTERNATE PATH RETRY NEEDED
	EQU X'20'		RESERVED	
	...1		EWAXTRCD	"X'10'" ERROR RECORDED BY EXIT ROUTINE. USED TO COMMUNICATE BETWEEN A DEVICE DEPENDENT EXIT ROUTINE WHICH IS RECORDING AN ERROR AND THE ERP, SO THE ERP DOES NOT RECORD THE SAME ERROR. SET TO 0 BY IOS ONLY WHEN THE EWA IS OBTAINED. IT IS THE RESPONSIBILITY OF THE ERP OR EXIT ROUTINE TO RESET THIS FIELD ONCE IT HAS

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				BEEN SET ON.
	.... 11..		EWASCCD	"X'0C'" SIO CONDITION CODE
	.... 11..		EWASCC3	"X'0C'" CONDITION CODE 3
	.... 1...		EWASCC2	"X'08'" CONDITION CODE 2
	.... .1..		EWASCC1	"X'04'" CONDITION CODE 1
	....		EWASCC0	"X'00'" CONDITION CODE 0
	.... ..1.		EWADDMSG	"X'02'" ERP DEPENDENT DATA TO BE INCLUDED IN I/O ERROR MESSAGE
	1		EWABDSNS	"X'01'" SENSE UNSUCCESSFUL
5	(5) HEX	1	EWAFLG2	FLAG BYTE 2
	1...		EWAMDR	"X'80'" IF ON, MDR REQUEST IF OFF, OBR REQUEST
	.1..		EWAWTEMP	"X'40'" ON TEMPORARY WRITE ERROR COUNTER TO BE UPDATED IF DATA CHECK CONDITION OFF TEMPORARY READ ERROR COUNTER TO BE UPDATED
	..1.		EWACOVF	"X'20'" COUNTER OVERFLOW INDICATOR FOR STATISTICS UPDATE
	...1		EWADIR	"X'10'" DIR IN PROGRESS
	.... 1...		EWARCBLT	"X'08'" OBR RECORD BUILT BY CALLER
EQU	X'07'		RESERVED	
6	(6) HEX	1	EWAFLG3	FOR DEVICE DEPENDENT ERP USAGE
	1...		EWAJAM	"X'80'" 3800 PAPER JAM
7	(7) HEX	1	EWASNSCT	LOOP COUNT FOR SENSE FAILURE
	1111 1111		EWASCTMX	"X'FF'" MAX # OF SENSES TRIED
8	(8) HEX	2	EWASSTAT	CSW STATUS ON SENSE OPERATION IF THIS IS A UNIT CHECK
10	(A) HEX	1	EWACNTR1	COUNTERS FOR ERP USE
11	(B) HEX	1	EWACNTR2	
12	(C) HEX	1	EWACNTR3	
13	(D) HEX	1	EWACNTR4	
14	(E) HEX	2	EWASTUP	STATISTICS INFORMATION FOR USE IN STATISTICS UPDATE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
16	(10) HEX	8	EWAERPIB	ERPIB BUILT BY CCH FOR CHANNEL ERRORS TO INDICATE WHETHER RETRY IS TO BE ATTEMPTED
16	(10) HEX	1		RESERVED
17	(11) ADDRESS	3	EWAUCB	UCB ADDRESS
20	(14) HEX	1	EWARGFG1	FLAG BYTE
	1...		EWACSIO	"X'80'" CSW STORED AFTER SIO
	.1..		EWACINT	"X'40'" CSW STORED AFTER I/O INTERRUPT
	..1.		EWACTIO	"X'20'" CSW STORED AFTER TEST I/O
	...1		EWACHIO	"X'10'" CSW STORED AFTER HALT I/O
EQU	X'08'		RESERVED	
	.... .1..		EWACSNS	"X'04'" SENSE DATA WAS STORED
	.... ..1.		EWACCNT	"X'02'" CSW COUNT IS VALID
	1		EWANORTY	"X'01'" NO RETRY INDICATOR
21	(15) HEX	1	EWARGFG2	PROBABLE SOURCE INDICATORS
	1...		EWACCPU	"X'80'" CPU ERROR
	.1..		EWACCHA	"X'40'" CHANNEL ERROR
	..1.		EWACSCU	"X'20'" STORAGE CONTROL UNIT ERROR
	...1		EWACSTG	"X'10'" STORAGE ERROR
	.... 1...		EWACCUE	"X'08'" CONTROL UNIT ERROR
EQU	X'07'		RESERVED	
22	(16) HEX	1	EWAXCSW1	VALIDITY INDICATORS
	1...		EWACITF	"X'80'" INTERFACE ADDR IS VALID
EQU	X'60'		RESERVED	
	...1		EWACSQV	"X'10'" SEQUENCE CODE IS VALID
	.... 1...		EWACUNS	"X'08'" UNIT STATUS IS VALID
	.... .1..		EWACCMD	"X'04'" COMMAND ADDRESS IS VALID

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	.... ..1.		EWACCHV	"X'02'" CHANNEL ADDRESS IS VALID
	1		EWACDAV	"X'01'" DEVICE ADDRESS IS VALID
23	(17) HEX	1	EWAXCSW2	TERMINATION & SEQUENCE CODES
	11..		EWACTEC	"X'C0'" TERMINATION CODE.
	....		EWATER0	"X'00'" INTERFACE DISCONNECT
	.1..		EWATER1	"X'40'" STOP, STACK, OR NORMAL TERM
	1...		EWATER2	"X'80'" SELECTIVE RESET
	11..		EWATER3	"X'C0'" SYSTEM RESET
	..1.		EWAD	"X'20'" DEVICE STATUS CHECK
EQU	X'10'		RESERVED	
	.... 1...		EWACDIN	"X'08'" I/O ERROR ALERT
	.... .111		EWACSEQ	"X'07'" CHANNEL DEPENDENT SEQ. CODES
	....		EWASEQ0	"X'00'"
	1		EWASEQ1	"X'01'"
	.... ..1.		EWASEQ2	"X'02'"
	11		EWASEQ3	"X'03'"
	.... .1..		EWASEQ4	"X'04'"
	.... .1.1		EWASEQ5	"X'05'"
	.... .11.		EWASEQ6	"X'06'"
	.... .111		EWASEQ7	"X'07'"
24	(18) HEX	2	EWACHA	UNIT ADDRESS ON WHICH LAST I/O WAS STARTED
26	(1A) HEX	1	EWAFLGA	FLAGS FOR IOS INTERNAL USE
	1...		EWAINIT	"X'80'" PATH VALID FOR SENSE
	.1..		EWADONE	"X'40'" SENSE COMPLETE
	..1.		EWAVLCHN	"X'20'" EWACHAIN FIELD IS VALID
EQU	X'10'		RESERVED	
	 1111		EWADDE	"X'0F'" BITS RESERVED FOR DEVICE DEPENDENT EXITS
27	(1B) HEX	1	EWACPU	CHANNEL SET ON WHICH I/O ERROR WAS ENCOUNTERED

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
28	(1C) ADDRESS	4	EWADRCW	ADDR OF RECORD CONTROL TABLE (VALID ONLY IF EWARCBLT=1)
28	(1C) HEX	1	EWADCNT	NUMBER OF BYTES OF OBR INFO
29	(1D) HEX	3	EWADDISP	ADDR OF 1ST BYTE OF OBR DEVICE DEPENDENT INFO (EWARCBLT=0)
32	(20) HEX	128	EWAIERP	AREA FOR INDIVIDUAL ERP USE
				IOS USAGE OF ERP DEPENDENT AREA FOR READING SENSE DATA AND FOR A TEMPORARY STORAGE BEFORE THE ERP IS INITIALLY ENTERED
	..1.		EWASNS	"x" SENSE DATA START
32	(20) HEX	64		SENSE INFORMATION
96	(60) CHARACTER	7	EWASCSW	SLOT TO SAVE CSW ON INTERCEPT
103	(67) CHARACTER	1		RESERVED
104	(68) SIGNED	4	EWACHAIN	POINTER TO EWA FOR ALT PATH
	..1.		EWAHL	"32" HEADER LENGTH

CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
EWA	0		EWACTIO	14	20	EWASCC1	4	04
EWAAPR	4	40	EWACUNS	16	08	EWASCC2	4	08
EWABDSNS	4	01	EWAD	17	20	EWASCC3	4	0C
EWACCHA	15	40	EWADCNT	1C		EWASCSW	60	
EWACCHV	16	02	EWADDE	1A	0F	EWASCTMX	7	FF
EWACCMD	16	04	EWADDISP	1D		EWASEQ0	17	00
EWACCNT	14	02	EWADDMSG	4	02	EWASEQ1	17	01
EWACCPU	15	80	EWADIR	5	10	EWASEQ2	17	02
EWACCUE	15	08	EWADONE	1A	40	EWASEQ3	17	03
EWACDAV	16	01	EWADRCW	1C		EWASEQ4	17	04
EWACDIN	17	08	EWAERPIB	10		EWASEQ5	17	05
EWACHA	18		EWAEXT	0		EWASEQ6	17	06
EWACHAIN	68		EWAFLGA	1A		EWASEQ7	17	07
EWACHIO	14	10	EWAFLG1	4		EWASLIS	4	80
EWACINT	14	40	EWAFLG2	5		EWASNS	20	20
EWACITF	16	80	EWAFLG3	6		EWASNSCT	7	
EWACNTR1	A		EWAHDR	0		EWASSTAT	8	
EWACNTR2	B		EWAHL	68	20	EWASTUP	E	
EWACNTR3	C		EWAIERP	20		EWATER0	17	00
EWACNTR4	D		EWAINIT	1A	80	EWATER1	17	40
EWACOVF	5	20	EWAJAM	6	80	EWATER2	17	80
EWACPU	1B		EWAMDR	5	80	EWATER3	17	C0
EWACSCU	15	20	EWANORTY	14	01	EWAUCB	11	
EWACSEQ	17	07	EWARCBLT	5	08	EWAVLCHN	1A	20
EWACSIO	14	80	EWARGFG1	14		EWAWTEMP	5	40
EWACSNS	14	04	EWARGFG2	15		EWAXCSW1	16	
EWACSQV	16	10	EWASCCD	4	0C	EWAXCSW2	17	
EWACSTG	15	10	EWASCC0	4	00	EWAXTRCD	4	10
EWACTEC	17	C0						

FBQE

Common Name : VSM Free Block Queue Element
Macro ID : IHAFBQE
DSECT Name : FBQE
Created by : IEAVNIP0, IEAVNP08, IGVFVRGN, IGVGVRGN, IGVFRRGN, IGVGRRGN, IGVFSFBQ
Subpool and Key : 245, 255 and key 0
Size : 16 bytes
Pointed to by : GDAFBQCF, GDAFBQCL, GDACSADR, GDAEFBCF, GDAEFBCL, LDAFBQAF, LDAFBQAL, LDAFBQSF, LDAFBQSL, LDAFBQRF, LDAFBQRL, LDAEFBAF, LDAEFBAL, LDAEFBSF, LDAEFBSL, LDAEFBRF, LDAEFBRL, RDFBQEF, RDFBQEL
Serialization : VSMFIX, LOCAL lock
Function : Describes 4K multiple blocks of free space in CSA or the Private Area.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	FBQESECT	FREE BLOCK QUEUE ELEMENT
0	(0) ADDRESS	4	FWDPTR	PTR TO NEXT FBQE OR PQE
4	(4) ADDRESS	4	BCKPTR	PTR TO PREVIOUS FBQE OR PQE
8	(8) SIGNED	4	SIZE	SIZE OF THIS FREE BLOCK
12	(C) ADDRESS	4	FBQAREA	LOW ADDRESS OF FREE BLOCK

FOE

Common Name : Fixed Ownership Element
Macro ID : IHAFOE
DSECT Name : FOE
Created by : IEAVFXLD (RSM superviosr)
Subpool and Key : 255 and key 0
Size : 8 bytes
Pointed to by : TCBFOEA field of the TCB data area
RSMFOEQ field of the RSMHD data area
FOELINK field of the FOE data area
Serialization : SALLOC lock
Function : Describes ownership of a fixed page, with a fixed page count.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	FOE	, FOEPTR
0	(0) SIGNED	4	FOEFLNKF	FULLWORD REFERENCE FOR FOEFLINK
0	(0) BITSTRING	1	FOEFLAG	FLAG BYTE
	1...		FOEINT	"X'80'"- WHEN 1, FOE QUIESCED OR PURGED
1	(1) ADDRESS	3	FOEFLINK	FORWARD LINK-POINTER TO NEXT FOE OR 0 IF THIS IS LAST FOE
4	(4) HEX	2	FOEVINDX	VIRTUAL INDEX OF PAGE REPRESENTED BY THIS FOE, 12 BIT VIRTUAL BLOCK NUMBER CONCATENATED TO 4 LOW ORDER 0 BITS
6	(6) SIGNED	2	FOEFXCT	FIX COUNT ASSOCIATED WITH THIS FOE
8	(8) CHARACTER	1	FOEEND	END OF FIX OWNERSHIP ELEMENT
	.... 1...		FOELEN	"FOEEND-FOE"- LENGTH OF FIX OWNERSHIP ELEMENT

FQE

Common Name : VSM Free Queue Element
Macro ID : IHAFQE
DSECT Name : FQE
Created by : IGVGCSA, IGVGPVT, IGVGAPVT, IGVFSDQE
Subpool and Key : 245, 255 and key 0
Size : 20 bytes
Pointed to by : DQEFFQE, DQELFQE, FQENEXT, FQEPREV
Serialization : VSMFIX, LOCAL lock
Function : Describes CSA and Private Areas free within pages allocated to a subpool.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	FQESECT	FREE QUEUE ELEMENT
0	(0) BITSTRING	1	FQTYPE	FLAG BYTE
	1...		FQERGNFL	"X'80'"FQE REGION FLAG
	.1..		FQECPB	"X'40'"FREE AREA CROSSES PAGE BOUNDARY UNSUITABLE FOR L/SQA ALLOCATION
0	(0) ADDRESS	4	FQEPTR	PTR TO NEXT LOWER FREE AREA
4	(4) SIGNED	4	FQELNTH	NUMBER BYTES IN FREE AREA
8	(8) ADDRESS	4	FQAREA	HIGH ADDRESS OF FREE SPACE
12	(C) SIGNED	4	FQERSVD	RESERVED
	.... 1...		FQESLNTH	"8" L/SQA FQE LENGTH
	...1		FQERLNTH	"16" REGION FQE LENGTH

FRRS

Common Name : FRR Stack
Macro ID : IHAFRRS
DSECT Name : FRRS
Created by : IEAVNIP0 or IEFVCPU
Subpool and Key : 245 and key 0
Size : 612 bytes (maximum)
Pointed to by : PSACSTK field of the PSA data area (current FRR stack)
PSANSTK field of the PSA data area (normal FRR stack)
PSAMSTK field of the PSA data area (SVC-I/O-dispatcher FRR stack)
PSAMSAV field of the PSA data area (current FRR stack at the time of machine check)
PSAPSTAK field of the PSA data area (program check FLIH FRR stack)
PSAPSAV field of the PSA data area (current FRR stack at the time of program check)
PSAESTK1 field of the PSA data area (external FLIH1 FRR stack)
PSAESAV1 field of the PSA data area (current FRR stack at the time of the external interruption)
PSAESTK2 field of the PSA data area (external FLIH2 FRR stack)
PSAESAV2 field of the PSA data area (current FRR stack at the time of the first recursive external interruption)
PSAESTK3 field of the PSA data area (external FLIH3 FRR stack)
PSAESAV3 field of the PSA data area (current FRR stack at the time of the second recursive external interruption)
PSARSTK field of the PSA data area (restart FLIH FRR stack)
PSARSAV field of the PSA data area (current FRR stack at the time of the restart interruption)
Serialization : None
Function : Maps the FRR stack contents and is used in conjunction with the SETFRR macro to define functional recovery routines.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	FRRS	FRRSPTR
0	(0) CHARACTER	128	FRRSND	NON-DYNAMIC PART OF FRRS
0	(0) CHARACTER	16	FRRSHEAD	THE HEADER OF THE FRR STACK

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) ADDRESS	4	FRRSEMP	ADDRESS WHICH INDICATES AN EMPTY STACK
4	(4) ADDRESS	4	FRRSLAST	ADDRESS OF LAST ENTRY IN THE STACK
8	(8) SIGNED	4	FRRSELEN	LENGTH OF EACH FRR ENTRY IN THE STACK
12	(C) ADDRESS	4	FRRSCURR	ADDRESS OF CURRENT FRR ENTRY IN THE STACK
16	(10) CHARACTER	24	FRRSRSA	SETFRR REG 14-3 SAVE AREA
40	(28) CHARACTER	88	FRRSRTMW	THE RTM1 WORK AREA PORTION OF THE FRR STACK
128	(80) CHARACTER	128	FRRSXSTK	EXTENSIONS TO THE FRR ENTRIES (ACTUAL SIZE IS 8 TIMES THE MAXIMUM NUMBER OF ENTRIES)
256	(100) CHARACTER	512	FRRSENTS	THE FRR ENTRIES IN THE STACK
0	(0) STRUCTURE	0	FRRSENTR	, FRREPTR THE MAPPING OF A FRR ENTRY
0	(0) ADDRESS	4	FRRSFRRA	THE ADDRESS OF THE FRR
0	(0) CHARACTER	3		HIGH ORDER 3 BYTES OF FRR ADDR
3	(3) CHARACTER	1	FRRSFRA1	LOW ORDER BYTE OF FRR ADDRESS
	1		FRRSXFLG	"X'01'" FLAG INDICATING FRRSFLGS INITIALIZED WHEN SETFRR WAS ISSUED
4	(4) CHARACTER	4	FRRSFLGS	FLAGS USED BY RTM DURING FRR PROCESSING
4	(4) BITSTRING	1	FRRSFLG1	RECURSION FLAGS USED BY RTM
	1...		FRRSRCUR	"X'80'" RECURSION FLAG USED WHEN GIVING CONTROL TO FRR AND WHEN RECEIVING CONTROL BACK FROM FRR
	.1..		FRRSNEST	"X'40'" FLAG INDICATING A NESTED FRR ENTRY
	..1.		FRRSNLCL	"X'20'" FLAG INDICATING THAT NESTED FRR IS A MODE=LOCAL FRR
	...1		FRRSNGLB	"X'10'" FLAG INDICATING THAT NESTED FRR IS A MODE=GLOBAL FRR

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
5	(5) BITSTRING	1	FRRSFLG2	RESERVED
6	(6) BITSTRING	1	FRRSFLG3	RESERVED
7	(7) BITSTRING	1	FRRSFLG4	FLAGS TO INDICATE OPTIONS CHOSEN WHEN THE SETFRR WAS ISSUED
	1...		FRRSEUT	"X'80'" ENABLED UNLOCKED TASK FRR (EUT=YES ON SETFRR)
	.1..		FRRSSBIT	"X'40'" PSW S-BIT (ADDRESS SPACE SELECTION) ON WHEN SETFRR WAS ISSUED
	.... 1...		FRRSFULL	"X'08'" MODE=FULLXM WAS SPEC ON SETFRR
	.... .1..		FRRSPRIM	"X'04'" MODE=PRIMARY SPEC ON SETFRR
	.... ..1.		FRRSLCL	"X'02'" MODE=LOCAL WAS SPEC ON SETFRR
	1		FRRSGLB	"X'01'" MODE=GLOBAL WAS SPEC ON SETFRR
8	(8) CHARACTER	24	FRRSPARM	PARAMETER AREA PASSED TO FRR
0	(0) STRUCTURE	0	FRRSXENT	,FRRXPTR THE MAPPING OF AN FRR ENTRY EXTENSION
0	(0) CHARACTER	8	FRRSXM	CROSS MEMORY INFORMATION WHEN SETFRR WAS ISSUED
0	(0) CHARACTER	4	FRRSCR3	CONTROL REGISTER 3
0	(0) CHARACTER	2	FRRSKM	KEY MASK
2	(2) CHARACTER	2	FRRSSAS	SASID
4	(4) CHARACTER	4	FRRSCR4	CONTROL REGISTER 4
4	(4) CHARACTER	2	FRRSAX	AUTHORIZATION INDEX
6	(6) CHARACTER	2	FRRSPAS	PASID
	..1.		FRRSESZE	"32" LENGTH OF EACH FRR ENTRY
	...1		FRRSNENT	"16" NUMBER OF FRR ENTRIES IN STACK
			FRRSTLEN	"768" TOTAL LENGTH OF NORMAL FRR STACK

FSCT

Common Name : Functional Subsystem Control Table
Macro ID : IAZFSCT
DSECT Name : IAZFSCT
Created by : HASPFSSM
Subpool and Key : Subpool 230 and key 1
Size : Variable
Pointed to by : FSVTFSSP and FSVTJESP fields of the FSVT
Serialization : None
Function : Contains the appropriate routine address invoked by the FSIREQ (Functional Subsystem Interface Request) service.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	8	IAZFSCT	FSS CONTROL TABLE
0	(0) CHARACTER	0	FSCT	FSS CONTROL TABLE
0	(0) CHARACTER	4	FSCTID	FSCT ID = 'FSCT'
4	(4) SIGNED	4	FSCTJES	RESERVED FOR JES
8	(8) ADDRESS	0	FSCTRTN	ROUTINE ADDRESSES

FSVT

Common Name : Functional Subsystem Vector Table
Macro ID : IAZFSVT
DSECT Name : IAZFSVT
Created by : N/A
Subpool and Key : Subpool 230 and key 1
Size : Variable - each entry is 8 bytes
Pointed to by : ASXBJSVT field of the ASXB
Serialization : None
Function : Each vector contains two pointers: the first points to the functional subsystem communication table (FSCT) for JES and the second to the functional subsystem communication table (FSCT) for the FSS.
Vector 0 corresponds to the function subsystem and the other vectors correspond to a functional subsystem application.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	4	IAZFSVT	FSS VECTOR TABLE
0	(0) CHARACTER	0	FSVT	FSS VECTOR TABLE
0	(0) CHARACTER	4	FSVTID	FSVT ID = 'FSVT'
4	(4) CHARACTER	0	FSVTENTY	FSS VECTOR
4	(4) ADDRESS	4	FSVTJESP	JES POINTER
8	(8) ADDRESS	4	FSVTFSSP	FSS POINTER
12	(C) CHARACTER	0		

FTPT

Common Name : Parm List for FRR/ESTAE (COMTASK)
Macro ID : IHACTM
DSECT Name : PARMLIST
mreated by :
Subpool and Key : NUCLEUS and key 0
Size : 24 bytes
Pointed to by : N/A
Serialization : None
Function : Used by the protected routine to communicate with the recovery routine.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	PARMLIST	
0	(0) SIGNED	4	PARMSTAT	STATUS WORD
0	(0) CHARACTER	1	PARMFTPT	FOOT PRINT
1	(1) CHARACTER	1	PARMFLAG	FLAGS BYTE
	1...		PARMSDWA	"X'80'" SDWA INDICATOR
	.1..		PARMCWT	"X'40'" CONT WITH TERMINATION INDICATOR
	..1.		PARMRECU	"X'20'" ESTAE RECURSION COUNTER
	...1		PARMFRID	"X'10'" FRR INDICATOR
	.... 1...		PARMWARG	"X'08'" REG UPDATE INDICATOR
	.... .1..		PARMNDMP	"X'04'" NO DUMP INDICATOR
2	(2) CHARACTER	1	PARMSYSR	SYSTEM SERVICE ID
3	(3) CHARACTER	1	PARMCTBK	CONTROL BLOCK ID
4	(4) SIGNED	4	PARMSYAD	SERVICE HANDLER ADDRESS
8	(8) SIGNED	4	PARMCLAD	CLEANUP ROUTINE ADDRESS
12	(C) SIGNED	4	PARMRTAD	RETRY ADDRESS
16	(10) SIGNED	4	PARMRGAD	REGISTER SAVEAREA POINTER
20	(14) CHARACTER	4	PARMID	MODULE ID

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	...1 1...		PARMLENG	"x"
	...1 1...		PARMSIZE	"PARMLENG-PARMLIST"

GCB

Common Name : Global Resource Serialization CTC-Driver Request Block
Macro ID : ISGGCB
DSECT Name : None
Created by : The caller of global resource serialization CTC-Driver
Subpool and Key : 229 and key 0
Size : 36 bytes
Pointed to by : RSVGCBIP (input parameter),
RSVCCBOP (output parameter),
RSVGCBCI (parameter used by ISGBCI)
Serialization : None
Function : The parameter list required by the global resource serialization CTC-Driver for all functions except extraction of area lengths.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	36	GCB	
0	(0) CHARACTER	4	GCBID	ID-FIELD
4	(4) ADDRESS	4	GCBAGCV	ADDRESS OF GCV (GRS CTC VECTORTBL)
8	(8) ADDRESS	4	GCBAGCL	ADDRESS OF GCL FOR LINK
8	(8) ADDRESS	4	GCBRMTR	ADDRESS OF RMTR TO BE PLACED IN ANY SRB SCHEDULED BY GRS CTC-DRIVER
12	(C) ADDRESS	4	GCBAGCQ	ADDRESS OF GCQ FOR REQUEST,OR NA
12	(C) SIGNED	4	GCBLNKSQ	INDEX SPECIFYING CTC
12	(C) SIGNED	4	GCBEVSEQ	WORD FOR SAVING OR SPECIFYING A VALUE OF GCVEVSEQ
12	(C) ADDRESS	4	GCBAGCQR	ADDRESS OF A GCQ TAKEN FROM THE READ-Q BY ISGJDCNC, OR ZERO

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
16	(10) ADDRESS	4	GCBABUF	ADDRESS OF BUFFER FOR REQ, OR NA.
16	(10) SIGNED	4	GCBEVTYP	EVENT-TYPE OF EVENT BEING RETURNED BY ISGJGTUE
16	(10) ADDRESS	4	GCBAGCQW	ADDRESS OF A GCQ TAKEN FROM THE WRITE-Q BY ISGJDCNC, OR ZERO
20	(14) SIGNED	4	GCBLNBUF	LENGTH OF BUFFER FOR REQUEST
20	(14) CHARACTER	4	GCBLNKID	IDENTIFIER FOR LINK (I/O ADDRESS)
20	(14) ADDRESS	4	GCBEPUE	ADDRESS OF ROUTINE TO BE SCHEDULED FOR REPORTING UNUSUAL EVENTS
20	(14) ADDRESS	4	GCBEXTPT	ADDRESS OF GCB EXTENSION USED BY ISGJDCNC
24	(18) BITSTRING	4	GCBFLAGS	FLAGS (DEPENDENT ON REQUEST TYPE)
	1...		GCBFSVEV	IF 1,ISGJGTUE SHOULD SAVE GCVEVSEQ BEFORE SCANNING
	.1..		GCBFSNIM	IF 1,ISGJSNBF SHOULD SEND AN IMMEDIATE CCW OPCODE
	..1.		GCBFNOSC	IF 1,GCQ PROVIDED WITH REQUEST IS A SHORT GCQ AND NO SRB WILL BE SCHEDULED UPON COMPLETION
	...1		GCBMRGCL	FOR ENTRY POINT ISJMRGCL: SET GCLMRGCL TO THE VALUE PASSED IN THIS BIT
	.... 1...		GCBFINOP	FOR ENTRY POINT ISJMRGCL: SET GCLINOP TO THE VALUE PASSED IN THIS BIT
	.... .111			
	1111 1111			
	1111 1111			
	1111 111.			RESERVED
	1		GCBFIOSB	RECOVERY FOOTPRINT IF 1, THE WRITE IOSB WAS BEEN OBTAINED BY ISGJSNBF
28	(1C) ADDRESS	4	GCBIOSAV	ADDRESS OF 16-WORD AREA FOR SAVING REGISTERS ACROSS IOSGEN OR STARTIO

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
32	(20) ADDRESS	4	GCBEPIOC	ADDRESS OF IO-COMPLETE ROUTINE
32	(20) ADDRESS	4	GCBADRET	ADDRESS OF A WORD IN SQA THAT WILL RECEIVE RETURN CODE FOR COMPLETION OF REQUEST
32	(20) ADDRESS	4	GCBAGCLU	GCLUSE VALUEASSOCIATED WITH THE GCL SPECIFIED IN GCBAGCL
36	(24) CHARACTER	0	GCBEND	END OF GCV, BEGINNING OF EVENT-TBL

GCL

Common Name : Global Resource Serialization CTC-Driver Link Control Block
Macro ID : ISGGCL
DSECT Name : None
Created by : Module ISGBTC and initialized by ISGJCNCT entry point of module ISGJFE.
Subpool and Key : 245 and key 0
Size : 88 bytes plus the length of 3 IOSB and 3 SRB
Pointed to by : GCBAGCL of GCB. Also all GCLs for the system immediately follow the GCV.
Serialization : Compare and swap serializes the ABNORMAL fields; UCB lock serializes the GCLTRACE field.
Function : Represents a CTC in the system. GCL contains the addresses of global resource serialization CTC-Driver control blocks that are dedicated to each CTC and queue anchors of queues related to each CTC.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	544	GCL	ONE PER CTC
0	(0) CHARACTER	4	GCLID	ID-FIELD
4	(4) SIGNED	4	GCLLEN	LENGTH OF GCL PLUS CHANNEL PGMS
8	(8) SIGNED	4	GCLCNTS	COUNT OF IO OPS STARTED
12	(C) SIGNED	4	GCLCNTC	COUNT OF IO OPS COMPLETED
16	(10) ADDRESS	4	GCLUSE	VALUE PASSED AS GCBAGCLU WHEN GCL WAS INITIALIZED
20	(14) ADDRESS	4	GCLRRCHE	REAL ADDRESS OF BYTE AFTER READ CHAN-NEL-PROGRAM
24	(18) ADDRESS	4	GCLRVCHP	READ CHAN-PGM VIRTUAL-ADDR
28	(1C) ADDRESS	4	GCLRRCHP	READ CHAN-PGM REAL-ADDR

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
32	(20) ADDRESS	4	GCLWVCHP	WRITE CHAN-PGM VIRTUAL-ADDR
36	(24) ADDRESS	4	GCLWRCHP	WRITE CHAN-PGM REAL-ADDR
40	(28) ADDRESS	4	GCLWGCQF	ADDRESS OF WRITE-GCQ FOR THIS CTC, OR 0
44	(2C) ADDRESS	4	GCLRGCQF	ADDRESS OF READ-GCQ FOR THIS CTC, OR 0
48	(30) BITSTRING	4	GCLFLG	
48	(30) BITSTRING	1	GCLTRAIL	TRAIL OF ISGJDI CODE ENTERED FOR CURRENT I/O REQUEST
	1...		GCLD1000	SENSE DIE ENTERED
	.1..		GCLHALT	SENSE DIE FOR HALTIO
	..1.		GCLBCHP	SENSE DIE FOR BROKEN CHANNEL PROGRAM
	...1		GCLD2000	WRITE DIE ENTERED
	.... 1...		GCLD3000	READ DIE ENTERED
	.... .1..		GCLPGAD	TERMINATION EXIT ENTERED
	.... ..1.		GCLNRM	NORMAL EXIT ENTERED
	1		GCLABN	ABNORMAL EXIT ENTERED
49	(31) BITSTRING	1	GCLFLG2	RESERVED
50	(32) BITSTRING	1	GCLFLG3	
	1...		GCLSTOP	HALTIO IS IN PROCESS FOR CTC
	.1..		GCLINOP	CTC INOPERATIVE AFTER RECOVERY ENTERED
	..1.		GCLOFFLN	VARY-OFFLINE REQUESTED FOR THIS CTC
	...1		GCLIOERR	IO-ERROR HAS OCCURRED FOR THIS CTC
	.... 1...		GCLMRGCL	THIS GCL IS USED TO SEND OR RECEIVE THE MAINRING RSA
	.... .1..		GCLOPOFF	VARY-OFFLINE COMMAND WAS ISSUED BY SYSTEM OPERATOR
	11			RESERVED
51	(33) BITSTRING	1	GCLFLG4	
	1...		GCLFTEST	TEST FLAG. IF 1, INVOKE TEST HOOK POINTED AT BY GCVATEST
	.111 1111			RESERVED
52	(34) BITSTRING	4	GCLUEFLG	UNUSUAL-EVENT FLAGS
56	(38) ADDRESS	4	GCLAGCV	ADDRESS OF GCV

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
60 (3C)	ADDRESS	4	GCLRIOPT	ADDRESS OF READ IOSB
64 (40)	ADDRESS	4	GCLSIOPT	ADDRESS OF SENSE IOSB
68 (44)	CHARACTER	4	GCLTRID	LOCATOR-STRING FOR GCLTRACE
72 (48)	CHARACTER	1	GCLTRUNO	AREA FOR SAVING UNKNOWN CCW OPCODE
73 (49)	CHARACTER	15	GCLTRACE	AREA FOR TRACING SENSE OPCODES
73 (49)	CHARACTER	14	GCLTROLD	OLD TRACE DATA
87 (57)	BITSTRING	1	GCLCMD	MOST RECENT CCW OPCODE
88 (58)	CHARACTER	152	GCLSIOSR	SENSE IOSB/SRB
240 (F0)	CHARACTER	152	GCLRIOSR	READ IOSB/SRB
392 (188)	CHARACTER	152	GCLWIOSR	WRITE IOSB/SRB
544 (220)	CHARACTER	0	GCLEND	END OF GCL
0 (0)	STRUCTURE	16	GCLRCHPG	READ CHANNEL-PGM
0 (0)	CHARACTER	16	GCLRCPGM	CHANNEL PROGRAM
0 (0)	CHARACTER	8	GCLRCW1	READ
0 (0)	BITSTRING	1	GCLRCW1O	OPCODE
1 (1)	ADDRESS	3	GCLRCW1A	REAL ADDR
4 (4)	BITSTRING	1	GCLRCW1F	CHAIN/SLI FLAGS
5 (5)	CHARACTER	1		UNUSED
6 (6)	SIGNED	2	GCLRCW1L	LENGTH
8 (8)	CHARACTER	8	GCLRCW2	WRITE RESPONSE
8 (8)	BITSTRING	1	GCLRCW2O	OPCODE
9 (9)	ADDRESS	3	GCLRCW2A	REAL ADDR
12 (C)	BITSTRING	1	GCLRCW2F	CHAIN/SLI FLAGS
13 (D)	CHARACTER	1		UNUSED
14 (E)	SIGNED	2	GCLRCW2L	LENGTH

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
16	(10) CHARACTER	0		END OF CHANNEL PGM
0	(0) STRUCTURE	24	GCLWCHPG	WRITE CHANNEL-PGM
0	(0) CHARACTER	16	GCLWCPGM	CHANNEL PROGRAM
0	(0) CHARACTER	8	GCLWCW1	WRITE
0	(0) BITSTRING	1	GCLWCW1O	OPCODE
1	(1) ADDRESS	3	GCLWCW1A	REAL ADDR
4	(4) BITSTRING	1	GCLWCW1F	CHAIN/SLI FLAGS
5	(5) CHARACTER	1		UNUSED
6	(6) SIGNED	2	GCLWCW1L	LENGTH
8	(8) CHARACTER	8	GCLWCW2	READ RESPONSE
8	(8) BITSTRING	1	GCLWCW2O	OPCODE
9	(9) ADDRESS	3	GCLWCW2A	REAL ADDR
12	(C) BITSTRING	1	GCLWCW2F	CHAIN/SLI FLAGS
13	(D) CHARACTER	1		UNUSED
14	(E) SIGNED	2	GCLWCW2L	LENGTH
16	(10) SIGNED	2	GCLWRSPT	TARGET OF READ-RESPONSE
18	(12) CHARACTER	6		RESERVED
0	(0) STRUCTURE	8	GCLCCW	FORMAT OF A CCW
0	(0) BITSTRING	1		OPCODE
1	(1) ADDRESS	3	GCLCCWAD	REAL ADDRESS
4	(4) BITSTRING	1	GCLCCWFL	CCW FLAGS- CHAIN,SLI,ETC
5	(5) BITSTRING	1		UNUSED BYTE
6	(6) SIGNED	2	GCLCCWLN	LENGTH FIELD

GCV

Common Name : Global Resource Serialization CTC-Driver Vector Table
Macro ID : ISGGCV
DSECT Name : None
Created by : Module ISGBTC and initialized by ISGJIDEN entry point of ISGJFE.
Subpool and Key : 245 and key 0
Size : 64 bytes plus length of a SRB and length of a (Short) GCQ.
Pointed to by : GVTXJGCV field of the GVTX data area
GCBAGCV field of the GCB data area
Serialization : All fields serialized by Compare-and-Swap logic.
Function : Contains addresses of global resource serialization CTC-Driver entry points for CTC-Driver functions. In addition, GCV contains data areas and queue anchors shared by CTC adaptors assigned to this system to be used by the global resource serialization CTC-Driver.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	128	GCV	
0	(0) CHARACTER	4	GCVID	ID-FIELD
4	(4) SIGNED	4	GCVLEN	LENGTH GCV
8	(8) ADDRESS	4	GCVAGVSR	ADDRESS OF GIVESRB RTN
12	(C) ADDRESS	4	GCVACNCT	ADDRESS OF CONNECT RTN
16	(10) ADDRESS	4	GCVAGVBF	ADDRESS OF GIVEBUF RTN
20	(14) ADDRESS	4	GCVASNBF	ADDRESS OF SENDBUF RTN
24	(18) ADDRESS	4	GCVADCNC	ADDRESS OF RESET-LINK RTN
28	(1C) ADDRESS	4	GCVATKBF	ADDRESS OF TAKE-BUFFER RTN
32	(20) ADDRESS	4	GCVAGTUE	ADDRESS OF GET-UNUSUAL-EVENT RTN

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
36	(24) ADDRESS	4	GCVAMGCL	ADDRESS OF MARK-GCL RTN
40	(28) CHARACTER	8	GCVCDST	TARGET OF CDS-INSTRUCTION
40	(28) SIGNED	4	GCVEVSEQ	NUMBER OF UNUSUAL EVENTS THAT HAVE OCCURRED
44	(2C) ADDRESS	4	GCVADSRB	ADDRESS OF SRB FOR REPORTING UNUSUAL EVENTS, OR 0
48	(30) CHARACTER	8	GCVADRBF	AREA INTO WHICH MESSAGES ARE READ WHEN DISCARDED
56	(38) SIGNED	4	GCVRETWD	WORD FOR RETURN CODE OF DUMMY GCQ
60	(3C) CHARACTER	20	GCVDISEC	DUMMY GCQ USED IN DISCARDING A MESSAGE
80	(50) CHARACTER	44	GCVUESRB	SRB FOR REPORTING UNUSUAL EVENTS
124	(7C) ADDRESS	4	GCVATEST	ADDRESS OF TEST-HOOK ROUTINE
128	(80) CHARACTER	0	GCVEND	END OF GCV
128	(80) STRUCTURE	0	GCVGCLSC	ARRAY WITH ONE ENTRY PER GCL
128	(80) CHARACTER	544	GCVGCLEL	STORAGE OCCUPIED BY GCL
672	(2A0) CHARACTER	48	GCVGCLEC	

GCX

Common Name : Global Resource Serialization CTC-Driver Extract Table
Macro ID : ISGGCX
DSECT Name : None
Created by : The caller of CTC-Driver
Subpool and Key : 229 and key 0
Size : 60 bytes
Pointed to by : Register 1 on entry to ISGJFE main entry point
Serialization : None
Function : Parameter list uses to call CTC-Driver for extracting the length of areas (so they may be obtained).

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	60	GCX	
0	(0) CHARACTER	4	GCXID	GCX IDENTIFIER
4	(4) CHARACTER	8	GCXSYSNM	SYSNAME OF THIS SYSTEM
12	(C) SIGNED	4	GCXRESTM	MAIN-RING RSA RESIDENCE TIME
16	(10) CHARACTER	8	GCXMEMNM	NAME OF PARMLIB-MEMBER IN USE
24	(18) SIGNED	4	GCXRECCT	IN BINARY, LAST PARMLIB RECORD (2ND,3RD,) READ BEFORE ERROR
28	(1C) ADDRESS	4	GCXAIDEN	ADDRESS OF ISGJIDEN
32	(20) SIGNED	4	GCXLGCV	LENGTH OF GCV
36	(24) SIGNED	4	GCXLGCQ	LENGTH OF GCQ THAT SUPPORTS SCHEDULE OF AN SRB
40	(28) SIGNED	4	GCXLGCQS	LENGTH OF SHORT GCQ THAT DOES NOT SUPPORT SCHEDULE OF AN SRB

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
44	(2C) SIGNED	4	GCXPFXLN	LENGTH OF PREFIX IN EACH BUFFER THAT IS FILLED IN BY CTC DRIVER
48	(30) SIGNED	4	GCXMXDLN	MAXIMUM DATA-LENGTH THAT CAN BE SENT. MESSAGE SIZE MUST NOT EXCEED GCXMXDLN
52	(34) SIGNED	4	GCXNGCL	NUMBER OF GCL CONTROL BLOCKS THAT MUST BE INITIALIZED
56	(38) BITSTRING	4	GCXERRFL	FLAGS INDICATING ANY ERROR IN PARMLIB MEMBER
	1...		GCXERMSE	MEMBER-SYNTAX-ERROR FLAG
	.1..		GCXERMIO	MEMBER-I/O-ERROR FLAG
	..1.		GCXERNMP	NO GRSCNF MEMBER PROCESSED
	...1 1111			
	1111 1111			
	1111 1111			
	1111 1111			RESERVED
60	(3C) CHARACTER	0	GCXEND	END OF GCX

GDA

Common Name : VSM Global Data Area
Macro ID : IHAGDA
DSECT Name : GDA
Created by : IEAIPL04
Subpool and Key : 245 and key 0
Size : 312 bytes
Pointed to by : CVTGDA, VSWKGDA
Serialization : VSMFIX lock
Function : Contains information about system related virtual storage and anchors the SQA and CSA queues.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	GDA	
0	(0) SIGNED	4	GVSMFLAG	GLOBAL FLAGS
0	(0) BITSTRING	1	GDAFLAGS	
	..1.		NIPFOURK	"X'20'" FLAG RSM NOT READY (NIP)
	.... 1...		SQATHRS1	"X'08'" SQA THRESHOLD 1 (APPROACHING CRITICAL) PASSED IF ON
	.... .1..		SQATHRS2	"X'04'" SQA THRESHOLD 2 (CRITICAL) PASSED IF ON
	.... ..1.		WAITQUE	"X'02'" INDICATES V=R GETPART SPECIFIC IN A WAIT FOR REAL REGION SPACE
1	(1) BITSTRING	3	RESV	
4	(4) SIGNED	4	VRDREG	DEFAULT V=R REGION SIZE
8	(8) SIGNED	4	CSAPQEP	CSA PQE PTR
12	(C) SIGNED	4	VRPQEP	V=R PQE PTR
16	(10) SIGNED	4	PASTRT	PRIVATE AREA START ADDRESS
20	(14) SIGNED	4	PASIZE	PRIVATE AREA SIZE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
24	(18) SIGNED	4	SQASPQEP	SQA SPQE PTR
28	(1C) SIGNED	4	SQASPLFT	SQA SPACE LEFT UNALLOCATED
32	(20) SIGNED	4	VRPOSTQ	V=R POST QUEUE ANCHOR BLOCK
32	(20) SIGNED	4	VRPFEL	PTR TO FIRST Q EL.
36	(24) SIGNED	4	VRPLEL	PTR TO LAST Q EL.
40	(28) SIGNED	4	VRWAITQ	V=R WAIT QUEUE ANCHOR BLOCK
40	(28) SIGNED	4	VRWFEL	PTR TO FIRST Q EL.
44	(2C) SIGNED	4	VRWLEL	PTR TO LAST Q EL.
48	(30) SIGNED	4	PFSTCPAB	FIRST CPAB PTR
52	(34) SIGNED	4	CSASPQEP	FIRST CSA SPQE PTR
THE FOLLOWING FIELDS MUST REMAIN IN SEQUENCE				
56	(38) SIGNED	4	GLBLCELL	INTERNAL CELL ANCHOR BLOCK
60	(3C) SIGNED	4	GBLCELCT	COUNT OF FREE INTERNAL CELLS

GVT

Common Name : Global Resource Serialization Vector Table
Macro ID : ISGGVT
DSECT Name : GVT
Created by : Automatically created when the nucleus is loaded by IEAVIPL.
Subpool and Key : Nucleus resident/key 0
Size : 512 bytes
Pointed to by : CVTGVT field of the CVT data area
Serialization : The CMS ENQ/DEQ lock is used to serialize
the 200 byte work area (GVTGF1WA).
The global resource serialization local lock is used
to serialize the first QWB on the process queue (GVTPRCQF).
Compare and Swap logic is used to serialize:
1. the request queue (GVTREQQ),
2. the command request queue (GVTCMDRQ), and
3. the command cleanup queue (GVTCMDCQ).

Test and Set logic is used to serialize the ring
processing flags (GVTGRSRP).
The Ring System Status Authority message is used to serialize
the last QWB on the process queue.
The RSA message is used to serialize the last QWB on the
process queue (GVTPRCQL).

Function : The GVT provides a means of communication within global resource serialization. The GVT contains all global queues, pointers and entry point addresses. The GVT is divided into sections relating to the different functional areas of global resource.

Serialization : Global Resource Serialization initialization,
ENQ/DEQ mainline,
Global Resource Serialization ring processing,
Global Resource Serialization CTC driver,
and Global Resource Serialization command processing.
The functional sections are followed by assigned PC numbers
and entry point addresses used by Global Resource
Serialization.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	512	GVT	GRS VECTOR TABLE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) CHARACTER	4	GVTID	CONTROL BLOCK ACRONYM (GVT)

THE FOLLOWING SECTION OF THE GVT IS USED BY ALL AREAS OF GRS.

4	(4) CHARACTER	36	GVTGSECT	GLOBAL SECTION
4	(4) BITSTRING	1	GVTGSFLG	GRS GENERAL STATUS FLAGS
	1...		GVTGRSAS	GRS ADDRESS SPACE FLAG 0 = GRS ADDRESS SPACE NOT INITIALIZED (PC/PT SHOULD NOT BE ISSUED), 1 = GRS ADDRESS SPACE HAS BEEN INITIALIZED (PC/PT CAN BE ISSUED)
	.1..		GVTGRSNA	GLOBAL RESOURCE SERIALIZATION NOT ACTIVE FLAG WHEN 1, GLOBAL RESOURCE SERIALIZATION IS NOT ACTIVE
	..1.		GVTGRSPC	GRS OPTION PROCESSING COMPLETE FLAG WHEN 1, ISGNGRSP HAS COMPLETED PROCESSING OF THE GRS OPTION
	...1		GVTPRGOK	PURGE PROCESSING OKAY FLAG WHEN 1, PURGING OF LOCAL/GLOBAL RESOURCES PERFORMED BY THE GRS TERMINATION RESOURCE MANAGER IS ALLOWED
	.... 1...		GVTNCMDR	NO COMMAND ROUTER FLAG WHEN 1, THE GRS COMMAND ROUTER (ISGCMDR) IS NOT ACTIVE
	.... .1..		GVTEXRES	EXCLUDE RESERVE REQUEST WHEN 1, RESERVE REQUEST TO BE EXCLUDED FROM GLOBAL PROCESSING (SERIALIZED BY CMS ENQ/DEQ LOCK)
	.... ..1.		GVTLNKLB	RNLS IN SYS1.LINKLIB WHEN 1, RNLS WERE LOADED FROM SYS1.LINKLIB WHEN 0, RNLS WERE BUILT FROM SYS1.PARMLIB
	1			RESERVED
5	(5) BITSTRING	1	GVTQSFLG	GRS QUEUE STATUS FLAGS
	1...		GVTGQDMG	GLOBAL QUEUE DAMAGE FLAG WHEN 1, THE GLOBAL RESOURCE QUEUES HAVE BEEN DAMAGED
	.1..		GVTLQDMG	LOCAL QUEUE DAMAGE FLAG WHEN 1, THE LOCAL RESOURCE QUEUES HAVE BEEN DAMAGED
	..1.		GVTQMRGA	QUEUE MERGE ACTIVE FLAG WHEN 1, ISGCQMRG IS IN THE PROCESS OF UPDATING THE GLOBAL

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				QUEUES
	...1 1111			RESERVED
6	(6) BITSTRING	1	GVTGRSOP	GRS OPTION FLAGS
	1...		GVTSTART	START FLAG WHEN 1, GRS OPTION IS START
	.1..		GVTJOIN	JOIN FLAG WHEN 1, GRS OPTION IS JOIN
	..1.		GVTNONE	NONE FLAG WHEN 1, GRS OPTION IS NONE
	...1 1111			RESERVED
7	(7) BITSTRING	1	GVTVFLAG	GRS VALIDATION FLAGS
	1...		GVTRNLVC	RNL VALIDATION COMPLETE FLAG WHEN 1, VALIDATION COMPLETE FOR ALL RESOURCE NAME LISTS
	.1..		GVTVERNL	INVALID SYSTEMS EXCLUSION RNL FLAG WHEN 1, ERROR EXISTS IN THE SYSTEMS EXCLUSION RESOURCE NAME LIST
	..1.		GVTVIRNL	INVALID SYSTEMS INCLUSION RNL FLAG WHEN 1, ERROR EXISTS IN THE SYSTEMS INCLUSION RESOURCE NAME LIST
	...1		GVTVCRNL	INVALID RESERVE CONVERSION RNL FLAG WHEN 1, ERROR EXISTS IN THE RESERVE CONVERSION RESOURCE NAME LIST
	 1111			RESERVED
8	(8) BITSTRING	1	GVTGRSRP	GRS RING PROCESSING FLAGS
	1...		GVTNCOMM	NO COMMUNICATION FLAG WHEN 1, CTC DRIVER AND RING PROCESSING ARE INOPERATIVE
	.1..		GVTMAINR	MAINRING FLAG WHEN 1, THIS SYSTEM IS A MEMBER OF THE MAINRING
	..1.		GVTINACT	INACTIVE SYSTEM FLAG WHEN 1, RING PROCESSING DISCOVERED A MAINRING FAILURE BUT THIS SYSTEM HAS NOT YET RESET ITS MAINRING RESOURCES
	...1		GVTOBSQD	OBSOLETE QUEUE DATA FLAG WHEN 1, THIS SYSTEM HAS INCOMPLETE INFORMATION ABOUT GLOBAL RESOURCES HELD BY OTHER SYSTEMS
	.... 1...		GVTAURST	AUTO RESTART FLAG WHEN 1, THIS SYSTEM HAS THE ABILITY TO AUTOMATICALLY REBUILD A DISRUPTED GRS RING
	.... .1..		GVTJSRBS	CTC DRIVER SRB SCHEDULED FLAG WHEN 1, THE UNUSUAL EVENT SRB OF CTC DRIVER HAS

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				BEEN SCHEDULED
	.... ..1.		GVTMTQES	MAINRING RESIDENCE TQE STATUS FLAG WHEN 1, THE MAINRING RESIDENCE TQE IS ABOUT TO BE PLACED ON THE TIMER QUEUE OR IS ON THE TIMER QUEUE
	1			RESERVED
9	(9) BITSTRING	1	GVTPRMLB	GRS PARMLIB PROCESSING STATUS FLAGS
	1...		GVTCNFER	GRSCNFXX PROCESSING STATUS FLAG WHEN 1,ERROR PROCESSING GRSCNFXX MEMBER OF SYS1.PARMLIB
	.1..		GVTRNLER	GRSRNLXX PROCESSING STATUS FLAG WHEN 1,ERROR PROCESSING GRSRNLXX MEMBER OF SYS1.PARMLIB OR PROCESSING RNLS FROM SYS1.LINKLIB
	..11 1111			RESERVED
10	(A) CHARACTER	2		RESERVED
12	(C) CHARACTER	4	GVTCMPAT	GRS COMPATIBILITY INDICATOR ANY VERSION OF GRS HAVING THE SAME VALUE FOR THIS FIELD ARE COMPATIBLE WITH EACH OTHER
16	(10) ADDRESS	4	GVTGVTX	ADDRESS OF THE GRS VECTOR TABLE EXTENSION
20	(14) ADDRESS	4	GVTGASCB	ADDRESS OF THE ASCB FOR THE GRS ADDRESS SPACE
24	(18) ADDRESS	4	GVTGRPRB	ADDRESS OF THE RB UNDER WHICH ISGGRP00 IS EXECUTING
28	(1C) CHARACTER	12		RESERVED
	THE FOLLOWING SECTION OF THE GVT IS USED PRIMARILY BY THE INITIALIZATION MODULES OF GRS.			
40	(28) CHARACTER	24	GVTINITS	GRS INITIALIZATION SECTION

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
40	(28) ADDRESS	4	GVTNTCB	ADDRESS OF THE TCB UNDER WHICH ISGNASIM IS EXECUTING
44	(2C) SIGNED	4	GVTNECB	ECB USED BY ISGNASIM TO WAIT FOR TIMER SERVICES AND WTO/WTOR SERVICES TO BE AVAILABLE, THIS ECB IS POSTED BY ISGNP-GIM WHEN THOSE SERVICES ARE AVAILABLE
48	(30) SIGNED	4	GVTQWBCS	SIZE OF THE SQA STORAGE CONTAINING LOAD MODULE ISGGQWBC
52	(34) SIGNED	4	GVTNTLIM	TIME LIMIT IN UNITS OF 0.01 SECONDS FOR FUNCTIONS PERFORMED BY ISGBCI FOR GRS INITIALIZATION MODULES
56	(38) SIGNED	4	GVTERSVC	EARLY RESERVE COUNT (GLOBAL RESERVES CONVERTED TO LOCAL RESERVES) ONLY INCREASED WHEN GVTEXRES IS SET (SERIAL-IZED BY CMS ENQ/DEQ LOCK)
60	(3C) CHARACTER	4		RESERVED
THE FOLLOWING SECTION OF THE GVT IS USED PRIMARILY BY THE ENQ/DEQ MODULES OF GRS.				
64	(40) CHARACTER	80	GVTNQDQS	ENQ/DEQ SECTION
64	(40) CHARACTER	8	GVTPROCQ	GRS PROCESS QUEUE CONSISTING OF QWBS QUEUED BY ISGBSR AND DEQUEUED BY ISGGRP00
64	(40) ADDRESS	4	GVTPRCQF	ADDRESS OF THE FIRST QWB ON THE GRS PRO-CESS QUEUE THAT IS, THE OLDEST QWB ON THE PROCESS QUEUE (SERIALIZED BY THE GRS LOCAL LOCK)

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
68 (44)	ADDRESS	4	GVTPRCQL	ADDRESS OF THE LAST QWB ON THE GRS PROCESS QUEUE THAT IS, THE NEWEST QWB ON THE PROCESS QUEUE (SERIALIZED BY MAINRING RSA MESSAGE)
72 (48)	ADDRESS	4	GVTREQQ	GRS REQUEST QUEUE CONSISTING OF QWBS QUEUED BY ISGGNQDQ AND DEQUEUED BY ISGBSR (SERIALIZED BY COMPARE AND SWAP LOGIC)
76 (4C)	CHARACTER	4		RESERVED
80 (50)	CHARACTER	16	GVTGLWSA	GLOBAL/LOCAL AREAS USED BY ISGGNQDQ AND ISGGRP00
80 (50)	ADDRESS	4	GVTGQWA	ADDRESS OF THE GLOBAL QUEUE WORK AREA
84 (54)	ADDRESS	4	GVTGGSA	ADDRESS OF THE GLOBAL GROUP SUMMARY AREA
88 (58)	ADDRESS	4	GVTLQWA	ADDRESS OF THE LOCAL QUEUE WORK AREA
92 (5C)	ADDRESS	4	GVTLGSA	ADDRESS OF THE LOCAL GROUP SUMMARY AREA
96 (60)	CHARACTER	12	GVTLISTS	GRS RESOURCE NAME LISTS USED BY ISGGREX0
96 (60)	ADDRESS	4	GVTSERNL	ADDRESS OF THE SYSTEMS EXCLUSION RESOURCE NAME LIST
100 (64)	ADDRESS	4	GVTSIRNL	ADDRESS OF THE SYSTEMS INCLUSION RESOURCE NAME LIST
104 (68)	ADDRESS	4	GVTRCRNL	ADDRESS OF THE RESERVE CONVERSION RESOURCE NAME LIST
108 (6C)	CHARACTER	4		RESERVED
112 (70)	ADDRESS	4	GVTSMPL	ADDRESS OF AN SMPL USED TO REFRESH THE SMPL RESIDING IN THE SQA QWB

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
116	(74) CHARACTER	2		RESERVED
118	(76) SIGNED	2	GVTSQWBS	SIZE OF THE SQA QWB
120	(78) ADDRESS	4	GVTSQWB	ADDRESS OF THE SQA QWB
124	(7C) ADDRESS	4	GVTGF1WA	ADDRESS OF A 200 BYTE WORK AREA USED BY ISGGFRR1 AND ISGQSCNR (SERIALIZED BY CMS ENQ/DEQ LOCK)
128	(80) CHARACTER	16		RESERVED

THE FOLLOWING SECTION OF THE GVT IS USED PRIMARILY BY THE
GRS RING PROCESSING MODULES.

144	(90) CHARACTER	64	GVTRINGS	GRS RING PROCESSING SECTION
144	(90) CHARACTER	8	GVTSYSNM	SYSNAME OF CURRENT SYSTEM
152	(98) CHARACTER	2		RESERVED
154	(9A) UNSIGNED	2	GVTSYSID	SYSID OF CURRENT SYSTEM
156	(9C) SIGNED	4	GVTMREAD	MAINRING RSA EXPECTED ARRIVAL TIME DELTA NUMBER OF MILLISECONDS BEYOND THE EXPECTED ARRIVAL TIME ALLOWED THE MAINRING RSA BEFORE THE RSA IS CONSIDERED OVERDUE
160	(A0) CHARACTER	8	GVTMREAT	MAINRING RSA EXPECTED ARRIVAL TIME EXPECTED ARRIVAL TIME OF THE MAINRING RSA. WHEN THE LOW ORDER BIT IS 1, THE MAINRING RSA IS AT THIS SYSTEM OR HAS BEEN FOUND TO BE OVERDUE. WHEN THE LOW ORDER BIT IS 0, THE MAINRING RSA IS NOT AT THIS SYSTEM.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
168	(A8) SIGNED	4	GVTMRSCW	MAINRING SEND COMPLETION WORD WHEN 0, THE MAINRING RSA HAS BEEN SUCCESSFULLY SENT BY CTC DRIVER
172	(AC) SIGNED	4	GVTDMSCW	DUMMY SEND COMPLETION WORD WHEN 0, MESSAGES OTHER THAN THE MAINRING RSA HAVE BEEN SUCCESSFULLY SENT BY CTC DRIVER
176	(B0) ADDRESS	4	GVTMRTQE	ADDRESS OF MAINRING RESIDENCE TIMER QUEUE ELEMENT
180	(B4) ADDRESS	4	GVTMETQE	ADDRESS OF MISSING-EVENT TIMER QUEUE ELEMENT
184	(B8) ADDRESS	4	GVTTESRB	ADDRESS OF THE TIMER-EXPIRATION SRB
188	(BC) ADDRESS	4	GVTBDRMI	ADDRESS OF THE MODULE INFORMATION FOR ISGBDR
192	(C0) CHARACTER	16		RESERVED

THE FOLLOWING SECTION OF THE GVT ARE CONSTANTS THAT ARE PRIMARILY USED BY THE GRS RING PROCESSING MODULES.

208	(D0) CHARACTER	80	GVTRCNST	GRS RING PROCESSING CONSTANTS
208	(D0) SIGNED	4	GVTMEINT	MISSING-EVENT ROUTINE INTERVAL NUMBER OF MILLISECONDS BETWEEN EXECUTIONS OF MISSING-EVENT ROUTINE
212	(D4) SIGNED	4	GVTOLINT	TOLERANCE TIME INTERVAL NUMBER OF MILLISECONDS BEYOND THE TIME A RING PROCESSING EVENT IS EXPECTED TO OCCUR BEFORE THAT EVENT IS CONSIDERED OVERDUE (NOTE: THIS TIME INTERVAL IS ADDED TO THE MAINRING CYCLE TIME AS WELL AS TO ALL TIME LIMITS PASSED TO ISGBCI)

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
216	(D8) SIGNED	4	GVTASYOH	ADDITIONAL SYSTEM OVERHEAD VALUE NUMBER OF MILLISECONDS ADDED TO THE MAINRING CYCLE TIME WHENEVER A SYSTEM ENTERS THE MAINRING (NOTE: THIS VALUE IS IN ADDITION TO THE RSA RESIDENCY INTERVAL OF THE ADDED SYSTEM)
220	(DC) SIGNED	4	GVTICCEP	IMMEDIATE CCW CHANNEL END PAUSE VALUE NUMBER OF MILLISECONDS ISGBCI WAITS BETWEEN CHECKS FOR A CHANNEL END IN RESPONSE TO AN IMMEDIATE CCW
224	(E0) SIGNED	4	GVTICCEC	IMMEDIATE CCW CHANNEL END COUNT NUMBER OF TIMES ISGBCI WILL CHECK FOR A CHANNEL END IN RESPONSE TO AN IMMEDIATE CCW
228	(E4) SIGNED	4	GVTICRRP	IMMEDIATE CCW REMOTE RESPONSE PAUSE VALUE NUMBER OF MILLISECONDS ISGBCI WAITS BETWEEN CHECKS FOR RESPONSES FROM REMOTE SYSTEMS TO WHICH AN IMMEDIATE CCW WAS ISSUED
232	(E8) SIGNED	4	GVTICRRC	IMMEDIATE CCW REMOTE RESPONSE COUNT NUMBER OF TIMES ISGBCI WILL CHECK FOR RESPONSES FROM ALL REMOTE SYSTEMS TO WHICH AN IMMEDIATE CCW WAS ISSUED
236	(EC) SIGNED	4	GVTNMRRP	NON-MAINRING RSA RESOURCE PAUSE VALUE NUMBER OF MILLISECONDS ISGBTCIR WAITS BETWEEN CHECKS FOR THE AVAILABILITY OF RESOURCES REQUIRED TO SEND THE NON-MAINRING RSA (THAT IS, RESOURCES REQUIRED TO SCHEDULE ISGBSRRI)
240	(F0) SIGNED	4	GVTNMRRC	NON-MAINRING RSA RESOURCE COUNT NUMBER OF TIMES ISGBTCIR WILL CHECK FOR THE AVAILABILITY OF RESOURCES REQUIRED TO SEND THE NON-MAINRING RSA (THAT IS, RESOURCES REQUIRED TO SCHEDULE ISGBSRRI)

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
244	(F4) SIGNED	4	GVTNMRHP	NON-MAINRING RSA HOLD PAUSE VALUE NUMBER OF MILLISECONDS ISGBCI WAITS BETWEEN REPEATED ATTEMPTS TO SEND A NON-MAINRING RSA TO A REMOTE SYSTEM
248	(F8) SIGNED	4	GVTNHRPT	NO-HOLD RESPONSE TIME VALUE NUMBER OF MILLISECONDS THIS SYSTEM ALLOWS A REMOTE SYSTEM TO RECEIVE A NON-MAINRING RSA, PROCESS IT, AND SEND IT BACK WITH ZERO HOLD TIME
252	(FC) SIGNED	4	GVTHDRPT	HOLD RESPONSE TIME VALUE NUMBER OF MILLISECONDS THIS SYSTEM ALLOWS A REMOTE SYSTEM TO RECEIVE A NON-MAINRING RSA, PROCESS IT, HOLD IT, AND SEND IT BACK
256	(100) SIGNED	4	GVTBFTAT	BUFFER TURNAROUND TIME VALUE NUMBER OF MILLISECONDS ISGBCI ALLOWS A REMOTE SYSTEM TO GIVE BACK THE BUFFER USED TO SEND A NON-MAINRING RSA
260	(104) CHARACTER	28		RESERVED
THE FOLLOWING SECTION OF THE GVT IS USED PRIMARILY BY THE GRS CTC DRIVER MODULES.				
288	(120) CHARACTER	16	GVTCTCDS	GRS CTC DRIVER SECTION
288	(120) ADDRESS	4	GVTJGCT	ADDRESS OF THE GRS CTC DRIVER BRANCH TABLE
292	(124) ADDRESS	4	GVTJCNFD	ADDRESS OF DATA CONTAINED IN GRSCNFXX PARMLIB MEMBER
296	(128) ADDRESS	4	GVTJGCV	ADDRESS OF THE GRS CTC DRIVER VECTOR TABLE
300	(12C) CHARACTER	4		RESERVED

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	THE FOLLOWING SECTION OF THE GVT IS USED PRIMARILY BY THE GRS COMMAND MODULES.			
304	(130) CHARACTER	32	GVTGCMDS	GRS COMMAND SECTION
304	(130) CHARACTER	8	GVTCMDQS	GRS COMMAND QUEUES
304	(130) CHARACTER	4	GVTCMDRQ	COMMAND REQUEST QUEUE FOR ISGCMDR CONSISTING OF CRBS QUEUED BY ISGCMDI OR ISGBSR AS WELL AS MRBS QUEUED BY ISGBSR OR ISGGTRM0 (SERIALIZED BY COMPARE AND SWAP LOGIC)
	1...		GVTNREQS	NO REQUEST FLAG WHEN 1, NO MORE REQUESTS ARE TO BE PLACED ON THE COMMAND REQUEST QUEUE
	.111 1111 1111 1111 1111 1111 1111 1111			REMAINING PORTION OF THE COMMAND REQUEST QUEUE
308	(134) ADDRESS	4	GVTCMDWQ	COMMAND WORK QUEUE FOR ISGCMDR TO HOLD CRB/MRBS MOVED FROM THE COMMAND REQUEST QUEUE
312	(138) ADDRESS	4	GVTCMDCQ	COMMAND CLEANUP QUEUE FOR THE ETXR ROUTINE IN ISGCMDR CONSISTING OF CRB/MRBS QUEUED BY ISGCMDR (SERIALIZED BY COMPARE AND SWAP LOGIC)
316	(13C) SIGNED	4	GVTCECB	ECB USED BY ISGCMDR TO WAIT FOR WORK, THIS ECB IS POSTED BY ISGCMDI, ISGBSR, OR ISGGTRM0 WHENEVER A CRB/MRB IS PLACED ON THE COMMAND REQUEST QUEUE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
320	(140) SIGNED	4	GVTCTLIM	TIME LIMIT IN UNITS OF 0.01 SECONDS FOR FUNCTIONS PERFORMED BY ISGBCI FOR GRS COMMAND MODULES
324	(144) CHARACTER	12		RESERVED

THE FOLLOWING SECTION OF THE GVT CONTAINS THOSE PC NUMBERS ASSIGNED TO GRS FUNCTIONS.

336	(150) CHARACTER	56	GVTPCS	PC NUMBER SECTION
336	(150) SIGNED	4	GVTDMPPC	PC NUMBER FOR ISGDGCB0 GRS DUMP ROUTINE
336	(150) CHARACTER	3		UNUSED BITS AND LX VALUE
339	(153) UNSIGNED	1	GVTDMPEX	ENTRY TABLE INDEX FOR THIS PC
340	(154) SIGNED	4	GVTED1PC	PC NUMBER FOR ISGGED01 ENQ/DEQ/RESERVE ROUTINE (NO SQA QWB OVERFLOW)
340	(154) CHARACTER	3		UNUSED BITS AND LX VALUE
343	(157) UNSIGNED	1	GVTED1EX	ENTRY TABLE INDEX FOR THIS PC
344	(158) SIGNED	4	GVTED2PC	PC NUMBER FOR ISGGED02 ENQ/DEQ/RESERVE ROUTINE (SQA QWB OVERFLOW)
344	(158) CHARACTER	3		UNUSED BITS AND LX VALUE
347	(15B) UNSIGNED	1	GVTED2EX	ENTRY TABLE INDEX FOR THIS PC
348	(15C) SIGNED	4	GVTGESPC	PC NUMBER FOR ISGGEST0 GRS MAINLINE ESTAE MODULE
348	(15C) CHARACTER	3		UNUSED BITS AND LX VALUE
351	(15F) UNSIGNED	1	GVTGESEX	ENTRY TABLE INDEX FOR THIS PC
352	(160) SIGNED	4	GVTGFRPC	PC NUMBER FOR ISGGFRR2 ENQ/DEQ/RESERVE FRR ROUTINE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
352 (160)	CHARACTER	3		UNUSED BITS AND LX VALUE
355 (163)	UNSIGNED	1	GVTGFREX	ENTRY TABLE INDEX FOR THIS PC
356 (164)	SIGNED	4	GVTLNQPC	PC NUMBER FOR ISGLNQ00 FAST PATH ENQ ROUTINE
356 (164)	CHARACTER	3		UNUSED BITS AND LX VALUE
359 (167)	UNSIGNED	1	GVTLNQEX	ENTRY TABLE INDEX FOR THIS PC
360 (168)	SIGNED	4	GVTLDQPC	PC NUMBER FOR ISGLDQ00 FAST PATH DEQ ROUTINE
360 (168)	CHARACTER	3		UNUSED BITS AND LX VALUE
363 (16B)	UNSIGNED	1	GVTLDQEX	ENTRY TABLE INDEX FOR THIS PC
364 (16C)	SIGNED	4	GVTSMIPC	PC NUMBER FOR ISGSMI STORAGE MANAGER INTERFACE MODULE
364 (16C)	CHARACTER	3		UNUSED BITS AND LX VALUE
367 (16F)	UNSIGNED	1	GVTSMIEX	ENTRY TABLE INDEX FOR THIS PC
368 (170)	SIGNED	4	GVTTRMPC	PC NUMBER FOR ISGGTRM1 TERMINATION RESOURCE MANAGER MODULE
368 (170)	CHARACTER	3		UNUSED BITS AND LX VALUE
371 (173)	UNSIGNED	1	GVTTRMEX	ENTRY TABLE INDEX FOR THIS PC
372 (174)	CHARACTER	20		RESERVED

THE FOLLOWING SECTION OF THE GVT CONTAINS ENTRY POINT
ADDRESSES OF THOSE GRS MODULES OR ROUTINES THAT RESIDE
IN THE NUCLEUS OR LPA AS WELL AS THOSE GRS MODULES
THAT ARE USED BY ENQ/DEQ MAINLINE (ISGGNQDQ).

392 (188)	CHARACTER	120	GVTEPS	ENTRY POINT SECTION

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
392	(188) ADDRESS	4	GVTBDR	ENTRY POINT ADDR OF ISGBDR ESTABLISH A TIMER DIE TIME INTERVAL MODULE
396	(18C) ADDRESS	4	GVTBDRC	ENTRY POINT ADDR OF ISGBDRC TIME EXPIRATION CHECKING ROUTINE (ENTRY POINT IN ISGBDR)
400	(190) ADDRESS	4	GVTCRET0	ENTRY POINT ADDR OF ISGCRET0 ERRET MODULE FOR XM-POST OF ISGCMDR
404	(194) ADDRESS	4	GVTLDQ00	ENTRY POINT ADDR OF ISGLDQ00 FAST PATH DEQ ROUTINE (PC ENTRY POINT IN ISGLNQDQ)
408	(198) ADDRESS	4	GVTLNQ00	ENTRY POINT ADDR OF ISGLNQ00 FAST PATH ENQ ROUTINE (PC ENTRY POINT IN ISGLNQDQ)
412	(19C) ADDRESS	4	GVTGDQ00	ENTRY POINT ADDR OF ISGGDQ00 BRANCH ENTRY DEQ ROUTINE FOR ISGGRP00 (ENTRY POINT IN ISGGNQDQ)
416	(1A0) ADDRESS	4	GVTGFRR0	ENTRY POINT ADDR OF ISGGFRR0 ENQ/DEQ/RESERVE FRR MODULE
420	(1A4) ADDRESS	4	GVTGFRR1	ENTRY POINT ADDR OF ISGGFRR1 STORAGE MANAGER RESOURCE CLEANUP ROUTINE (ENTRY POINT IN ISGGFRR0)
424	(1A8) ADDRESS	4	GVTGFRR2	ENTRY POINT ADDR OF ISGGFRR2 ENQ/DEQ/RESERVE FRR ROUTINE (PC ENTRY POINT IN ISGGFRR0)
428	(1AC) ADDRESS	4	GVTGNQ00	ENTRY POINT ADDR OF ISGGNQ00 BRANCH ENTRY ENQ ROUTINE FOR ISGGRP00 (ENTRY POINT IN ISGGNQDQ)
432	(1B0) ADDRESS	4	GVTGQWBC	ENTRY POINT ADDR OF ISGGQWBC COPY QWB MODULE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
436 (1B4)	ADDRESS	4	GVTGRCEX	ENTRY POINT ADDR OF ISGGRCEX RESERVE CONVERSION EXIT ROUTINE (ENTRY POINT IN ISGGREX0)
440 (1B8)	CHARACTER	4	GVTRESVE	RESERVED
444 (1BC)	ADDRESS	4	GVTGSEEX	ENTRY POINT ADDR OF ISGGSEEX SYSTEMS EXCLUSION EXIT ROUTINE (ENTRY POINT IN ISGGREX0)
448 (1C0)	ADDRESS	4	GVTGSIEX	ENTRY POINT ADDR OF ISGGSIEX SYSTEMS INCLUSION EXIT ROUTINE (ENTRY POINT IN ISGGREX0)
452 (1C4)	ADDRESS	4	GVTGWAIT	ENTRY POINT ADDR OF ISGGWAIT GRS WAIT MODULE FOR GENERAL USE
456 (1C8)	ADDRESS	4	GVTGWT02	ENTRY POINT ADDR OF ISGGWT02 GRS WAIT ROUTINE USED BY ISGGNQDQ (ENTRY POINT IN ISGGWAIT)
460 (1CC)	ADDRESS	4	GVTSALC	ENTRY POINT ADDR OF ISGSALC STORAGE MANAGER ALLOCATION MODULE
464 (1D0)	ADDRESS	4	GVTSDAL	ENTRY POINT ADDR OF ISGSDAL STORAGE MANAGER DEALLOCATION MODULE
468 (1D4)	ADDRESS	4	GVTSGLH	ENTRY POINT ADDR OF ISGSGLH STORAGE MANAGER GLOBAL/LOCAL HASH ROUTINE (ENTRY POINT IN ISGSHASH)
472 (1D8)	ADDRESS	4	GVTSPRLS	ENTRY POINT ADDR OF ISGSPRLS STORAGE MANAGER PAGE RELEASE ROUTINE (ENTRY POINT IN ISGSDAL)
476 (1DC)	ADDRESS	4	GVTSSAH	ENTRY POINT ADDR OF ISGSSAH STORAGE MANAGER SYSID/ASID HASH ROUTINE (ENTRY POINT IN ISGSHASH)

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
480	(1E0) ADDRESS	4	GVT048FP	ENTRY POINT ADDR OF IGC048FP FAST PATH ENQ ROUTINE (SVC ENTRY POINT IN ISGLNQDQ)
484	(1E4) ADDRESS	4	GVT056FP	ENTRY POINT ADDR OF IGC056FP FAST PATH DEQ ROUTINE (SVC ENTRY POINT IN ISGLNQDQ)
488	(1E8) CHARACTER	24		RESERVED
512	(200) CHARACTER	0	GVTEND	END OF GVT

CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
GVT	0		GVTGLWSA	50		GVTLNQ00	198	
GVTASYOH	D8		GVTGNQ00	1AC		GVTLQDMG	5	40
GVTAURST	8	08	GVTGQDMG	5	80	GVTLQWA	58	
GVTBDR	188		GVTGQWA	50		GVTMAINR	8	40
GVTBDRC	18C		GVTGQWBC	1B0		GVTMEINT	D0	
GVTBDRMI	BC		GVTGRCEX	1B4		GVTMETQE	B4	
GVTBFTAT	100		GVTGRPRB	18		GVTMREAD	9C	
GVTCECB	13C		GVTGRSAS	4	80	GVTMREAT	A0	
GVTCMDCQ	138		GVTGRSNA	4	40	GVTMRSCW	A8	
GVTCMDQS	130		GVTGRSOP	6		GVTMRTQE	B0	
GVTCMDRQ	130		GVTGRSPC	4	20	GVTMTQES	8	02
GVTCMDWQ	134		GVTGRSRP	8		GVTNCMDR	4	08
GVTCMPAT	C		GVTGSECT	4		GVTNCOMM	8	80
GVTCNFER	9	80	GVTGSEEX	1BC		GVTNECB	2C	
GVTCRET0	190		GVTGSFLG	4		GVTNHRPT	F8	
GVTCTCDS	120		GVTGSIEX	1C0		GVTNMRHP	F4	
GVTCTLIM	140		GVTGVTX	10		GVTNMRRC	F0	
GVTDMPEX	153		GVTGWAIT	1C4		GVTNMRRP	EC	
GVTDMPPC	150		GVTGWT02	1C8		GVTNONE	6	20
GVTDMSCW	AC		GVTHDRPT	FC		GVTNQDQS	40	
GVTED1EX	157		GVTICCEC	E0		GVTNREQS	130	80
GVTED1PC	154		GVTICCEP	DC		GVTNTCB	28	
GVTED2EX	15B		GVTICRRC	E8		GVTNTLIM	34	
GVTED2PC	158		GVTICRRP	E4		GVTOBSQD	8	10
GVTEND	200		GVTID	0		GVTOLINT	D4	
GVTEPS	188		GVTINACT	8	20	GVTPCS	150	
GVTERSVC	38		GVTINITS	28		GVTPRCQF	40	
GVTEXRES	4	04	GVTJCNFD	124		GVTPRCQL	44	
GVTGASCB	14		GVTJGCT	120		GVTPRGOK	4	10
GVTGCMDS	130		GVTJGCV	128		GVTPRMLB	9	
GVTGDQ00	19C		GVTJOIN	6	40	GVTPROCQ	40	
GVTGESEX	15F		GVTJSRBS	8	04	GVTQMRGA	5	20
GVTGESPC	15C		GVTLDQEX	16B		GVTQSFLG	5	
GVTGFREX	163		GVTLDQPC	168		GVTQWBCS	30	
GVTGFRPC	160		GVTLDQ00	194		GVTRCNST	D0	
GVTGFRR0	1A0		GVTLGSA	5C		GVTRCRNL	68	
GVTGFRR1	1A4		GVTLISTS	60		GVTREQQ	48	
GVTGFRR2	1A8		GVTLNKLB	4	02	GVTRESVE	1B8	
GVTGF1WA	7C		GVTLNQEX	167		GVTRINGS	90	
GVTGGSA	54		GVTLNQPC	164		GVTRNLER	9	40

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
GVTRNLVC	7	80	GVTSPRLS	1D8		GVTTRMEX	173	
GVTSALC	1CC		GVTSQWB	78		GVTTRMPC	170	
GVTSDAL	1D0		GVTSQWBS	76		GVTVCRNL	7	10
GVTSERNL	60		GVTSSAH	1DC		GVTVERNL	7	40
GVTSGLH	1D4		GVTSTART	6	80	GVTVFLAG	7	
GVTSIRNL	64		GVTSYSID	9A		GVTVIRNL	7	20
GVTSMIEX	16F		GVTSYSNM	90		GVT048FP	1E0	
GVTSMIPC	16C		GVTTESRB	B8		GVT056FP	1E4	
GVTSMPL	70							

GVTX

Common Name : Global Resource Serialization Vector Table Extension
Macro ID : ISGGVTX
DSECT Name : GVTX
Created by : ISGNCBIM in SQA; ISGNASIM in the global resource serialization private area.
Subpool and Key : 229 and key 0
Size : 416 bytes
Pointed to by : GVT - GVTX
Serialization : The Global Save Area, Global SMPL and Global Work Area are serialized by the global resource serialization Local Lock. The Local Save Area, Local SMPL, and Local Work Area are serialized by the CMS ENQ/DEQ Lock. The count of inactive PEXBS, RQA Bit Map, and SRB Count are serialized by Compare and Swap Logic.
Function : The GVTX contains information relative to the Global Resource Serialization Address Space.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	416	GVTX	GRS VECTOR TABLE EXTENSION
0	(0) CHARACTER	4	GVTXID	CONTROL BLOCK ACRONYM (GVTX)
ENTRY POINTS				
4	(4) CHARACTER	76	GVTXEPTS	ENTRY POINT SECTION
4	(4) ADDRESS	4	GVTXBBE	ENTRY POINT OF ISGBBE GRS RING PROCESSING BACK END ROUTINE (ENTRY POINT IN ISGBSR)
8	(8) ADDRESS	4	GVTXBCI	ENTRY POINT OF ISGBCI GRS RING PROCESSING COMMAND INTERFACE MODULE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
12	(C) ADDRESS	4	GVTXBRIN	ENTRY POINT OF ISGBSRIN CONVERTS SYSID TO SYSNAME ROUTINE (ENTRY POINT IN ISGBSR)
16	(10) ADDRESS	4	GVTXBRNI	ENTRY POINT OF ISGBSRNI CONVERTS SYSNAME TO SYSID ROUTINE (ENTRY POINT IN ISGBSR)
20	(14) ADDRESS	4	GVTXCRCV	ENTRY POINT OF ISGCRCV GRS COMMAND RECOVERY MODULE
24	(18) ADDRESS	4	GVTXDEQP	ENTRY POINT OF ISGGDEQP RESOURCE PURGE MODULE
28	(1C) ADDRESS	4	GVTXMSG	ENTRY POINT OF ISGMSG00 GRS MESSAGE MODULE
32	(20) ADDRESS	4	GVTXQWB1	ENTRY POINT OF ISGGQWB1 BUILD QWB FROM RSA ROUTINE (ENTRY POINT IN ISGGQWB0)
36	(24) ADDRESS	4	GVTXQWB2	ENTRY POINT OF ISGGQWB2 BUILD QWB FROM RIB/RIBE ROUTINE (ENTRY POINT IN ISGGQWB0)
40	(28) ADDRESS	4	GVTXQWB3	ENTRY POINT OF ISGGQWB3 BUILD SYNCHRONIZATION QWB ROUTINE (ENTRY POINT IN ISGGQWB0)
44	(2C) ADDRESS	4	GVTXQWB4	ENTRY POINT OF ISGGQWB4 BUILD DEQUEUE QWB FROM QEL ROUTINE (ENTRY POINT IN ISGGQWB0)
48	(30) ADDRESS	4	GVTXQWB5	ENTRY POINT OF ISGGQWB5 BUILD SYSID DEQUEUE QWB ROUTINE (ENTRY POINT IN ISGGQWB0)
52	(34) ADDRESS	4	GVTXQWBF	ENTRY POINT OF ISGGQWBF FREE QWB ROUTINE (ENTRY POINT IN ISGGQWB0)
56	(38) ADDRESS	4	GVTXRET1	ENTRY POINT OF ISGCRET1 ERRET MODULE FOR XM-POST OF A COMMAND REQUESTOR'S ECB

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
60	(3C) CHARACTER	20		RESERVED
	THE FOLLOWING FIELDS ARE USED PRIMARILY BY THE GRS RING PROCESSING MODULES.			
80	(50) CHARACTER	16	GVTXRING	RING PROCESSING SECTION
80	(50) ADDRESS	4	GVTXBRSV	ADDRESS OF RING PROCESSING SYSTEM VECTOR TABLE
84	(54) SIGNED	4	GVTXBECB	ECB USED BY ISGBTC TO WAIT FOR UNUSUAL EVENTS TO OCCUR
88	(58) CHARACTER	8		RESERVED
	THE FOLLOWING FIELDS ARE USED PRIMARILY BY THE GRS CTC-DRIVER MODULES.			
96	(60) CHARACTER	16	GVTXCTCS	CTC-DRIVER SECTION
96	(60) ADDRESS	4	GVTXJGCV	ADDRESS OF THE GRS CTC-DRIVER VECTOR TABLE
100	(64) CHARACTER	12		RESERVED
	THE FOLLOWING FIELDS ARE USED PRIMARILY BY THE GRS INITIALIZATION MODULES.			
112	(70) CHARACTER	40	GVTXINIT	GRS INITIALIZATION SECTION

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
112	(70) SIGNED	4	GVTXECB0	ECB USED BY ISGNASIM TO WAIT FOR ISGCMDR TO TERMINATE ABNORMALLY
116	(74) SIGNED	4	GVTXECB1	ECB USED BY ISGNASIM TO WAIT FOR ISGGRP00 TO COMPLETE INITIALIZATION
120	(78) SIGNED	4	GVTXECB2	ECB USED BY ISGNASIM TO WAIT FOR ISGGRP00 TO TERMINATE (NORMAL OR ABNORMAL)
124	(7C) SIGNED	4	GVTXECB3	ECB USED BY ISGNASIM TO WAIT FOR ISGBTC TO COMPLETE INITIALIZATION
128	(80) SIGNED	4	GVTXECB4	ECB USED BY ISGNASIM TO WAIT FOR ISGBTC TO TERMINATE (NORMAL OR ABNORMAL)
132	(84) SIGNED	4	GVTXECB5	ECB USED BY ISGNASIM TO WAIT FOR ISGNGRSP TO TERMINATE (NORMAL OR ABNORMAL)
136	(88) SIGNED	4	GVTXRQAS	SIZE OF GRS RESOURCE QUEUE AREA
140	(8C) SIGNED	2	GVTXGCBS	SIZE OF GRS CONTROL BLOCKS (GVTX,LRPT,LQHT,GRPT,GQHT,SAHT)
142	(8E) CHARACTER	10		RESERVED
	THE FOLLOWING FIELDS ARE USED PRIMARILY BY THE GRS STORAGE MANAGEMENT MODULES.			
152	(98) CHARACTER	264	GVTXSMGS	GRS STORAGE MANAGER SECTION
152	(98) ADDRESS	4	GVTXRQA	ADDRESS OF GRS RESOURCE QUEUE AREA
156	(9C) ADDRESS	4	GVTXBTMP	POINTER TO RQA BIT MAP
160	(A0) UNSIGNED	4	GVTXBTML	LENGTH OF RQA BIT MAP IN BITS

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
164 (A4)	ADDRESS	4	GVTXGQHT	ADDRESS OF GLOBAL QUEUE HASH TABLE
168 (A8)	ADDRESS	4	GVTXLQHT	ADDRESS OF LOCAL QUEUE HASH TABLE
172 (AC)	ADDRESS	4	GVTXSAHT	ADDRESS OF SYSTEM/ASID HASH TABLE
176 (B0)	ADDRESS	4	GVTXGRPT	ADDRESS OF GLOBAL RESOURCE POOL TABLE
180 (B4)	ADDRESS	4	GVTXLRPT	ADDRESS OF LOCAL RESOURCE POOL TABLE
184 (B8)	CHARACTER	72	GVTXGSAR	GLOBAL SAVE AREA (SERIALIZED BY GRS LOCAL LOCK)
256 (100)	CHARACTER	72	GVTXLSAR	LOCAL SAVE AREA (SERIALIZED BY CMS ENQ/DEQ CLASS LOCK)
328 (148)	CHARACTER	16	GVTXGSMP	GLOBAL STORAGE MANAGEMENT PARAMETER LIST (SERIALIZED BY GRS LOCAL LOCK)
344 (158)	CHARACTER	16	GVTXLSMP	LOCAL STORAGE MANAGEMENT PARAMETER LIST (SERIALIZED BY CMS ENQ/DEQ CLASS LOCK)
360 (168)	CHARACTER	16	GVTXGWRK	GLOBAL WORK AREA USED BY ISGSALC (SERIALIZED BY GRS LOCAL LOCK)
376 (178)	CHARACTER	16	GVTXLWRK	LOCAL WORK AREA USED BY ISGSALC (SERIALIZED BY CMS ENQ/DEQ CLASS LOCK)
392 (188)	ADDRESS	4	GVTXSRB	ADDRESS OF SRB FOR ISGSPRLS
396 (18C)	SIGNED	4	GVTXSRBC	NUMBER OF SRBS SCHEDULED TO RELEASE INACTIVE PEXB PAGES, THIS COUNT SHOULD BE EITHER ZERO OR ONE(SERIALIZED BY COMPARE AND SWAP LOGIC)
400 (190)	SIGNED	4	GVTXIACT	COUNT OF INACTIVE PEXBS (SERIALIZED BY COMPARE AND SWAP LOGIC)
404 (194)	CHARACTER	12		RESERVED
416 (1A0)	CHARACTER	0	GVTXEND	END OF GVTX

ICT

Common Name : SRM I/O Management Control Table
Macro ID : IRAICT
DSECT Name : ICT
Created by : Assembled into nucleus module, IRARMCNS
Subpool and Key : NUCLEUS and key 0
Size : 96 bytes
Pointed to by : RMCTICT field of the RMCT data area
Serialization : SRM lock
Function : Contains logical channel usage information for use by SRM I/O management module, IRARMIOM.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	96	ICT	I/O CONTROL TABLE
0	(0) CHARACTER	4	ICTICT	ACRONYM IN EBCDIC ICT-
I/O CONTROL CONSTANTS				
4	(4) SIGNED	2	ICCMXFAC	I/O LD BAL REC VALS MAPPED INTO ALLOWABLE RANGE AS PERCENT OF THIS CONSTANT
6	(6) SIGNED	2	ICCRNDFC	ROUNDING FACTOR IN I/O LD BAL COMPUTATION.
8	(8) SIGNED	4	ICCMXICT	MAX TIME HEAVY I/O USER CAN REMAIN IN MAIN STORAGE WITHOUT BEING MONITORED FOR I/O USAGE
12	(C) SIGNED	4	ICCMNUIN	MIN INT FOR USER I/O MONITORING
16	(10) SIGNED	4	ICCMNSWP	MINIMUM SWAP OUT TIME FOR I/O IMBALANCE CORRECTION
20	(14) ADDRESS	4	ICCLCLST	POINTER TO LAST RLCT TABLE ENTRY

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
24	(18) SIGNED	2	ICCLCHN	LOGICAL CHANNEL COUNT
26	(1A) SIGNED	2	ICCMNIOR	MIN I/O RATE FOR USER I/O MONITORING
28	(1C) SIGNED	2	ICCRVSCF	IOL REC VALUE SCALING FACTOR
30	(1E) SIGNED	2	ICCMAXRV	MAXIMUM IOL RECOMMENDATION VAL
32	(20) SIGNED	2	ICCMINRV	MINIMUM IOL RECOMMENDATION VAL
34	(22) SIGNED	2	ICCDASF1	AVERAGING FACTOR FOR LCH UTILIZATION COMPUTATION
36	(24) SIGNED	2	ICCDASF2	ICCDASF1+1
				LCH UTILIZATION IMBALANCE THRESHOLDS
38	(26) SIGNED	2	ICCHIUTH	HIGH IMBALANCE THRESHOLD
40	(28) SIGNED	2	ICCLOUTH	LOW IMBLAANCE THRESHOLD
42	(2A) SIGNED	2	ICCDAUTH	THRESHOLD FOR DEVICE ALLOCATION SYSEVENT 256
				LCH UTILIZATION THRESHOLD INITIALIZATION VALUES FOR UNI OR MULTI PROCESSOR CASES
44	(2C) SIGNED	4	ICCINHIT	HIGH THRESHOLD INIT VALUES
48	(30) SIGNED	4	ICCINLOT	LOW THRESHOLD INIT VALUE S
52	(34) SIGNED	4	ICCINDAT	DEV ALLOC THRESHOLD INIT VALUES
56	(38) SIGNED	2	ICCSIGUP	SIGNIFICANT USER LCH USAGE PERCENTAGE
58	(3A) SIGNED	2	ICCSRSV2	RESERVED
60	(3C) SIGNED	2	ICCEDSUT	EST DD UTILIZ IMPACT
62	(3E) CHARACTER	2	ICCRSV01	RESERVED
64	(40) CHARACTER	0	ICCEND	END OF ICT CONSTANTS

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
I/O CONTROL VARIABLES				
64	(40) SIGNED	4	ICVLUTBT	LCH UTILIZATION COMPUTATION BASE TIME
68	(44) BITSTRING	4	ICVLCBPT	LCH IMBALANCE BIT PATTERN
72	(48) BITSTRING	4	ICVOLCBT	OVERUTILIZED LCH BIT PATTERN
76	(4C) BITSTRING	4	ICVULCBT	UNDERUTILIZED LCH BIT PATTERN
80	(50) SIGNED	4	ICVIMBBT	TIME OF LAST I/O IMBAL
I/O CONTROL FLAGS				
84	(54) BITSTRING	1	ICTFLAGS	I/O CONTROL FLAGS
	1...		ICTDRSV4	RESERVED
	.1..		ICTIOL	I/O LOAD BALANCING ACTIVE FLAG
	..1.		ICTIOOT	SOME LOGICAL CHANNELS OUT OF BALANCE
	...1 1111		ICT003	RESERVED
85	(55) BITSTRING	1	ICTRSVB1	RESERVED
86	(56) BITSTRING	1	ICTRSVB2	RESERVED
87	(57) BITSTRING	1	ICTRSVB3	RESERVED
88	(58) SIGNED	4	ICTRSVA	RESERVED
92	(5C) SIGNED	4	ICTRSVB	RESERVED
96	(60) CHARACTER	0	ICTEND	END OF ICT

IHSA

Common Name : Interrupt Handler Save Area
Macro ID : IHAIHSA
DSECT Name : IHSA
Created by : IEAVEMIN
Subpool and Key : 255 and key 0
Size : 896 bytes
Pointed to by : ASXBIHSA field of the ASXB data area
Serialization : Local lock
Function : The interruption handlers use this area to save the status of an interrupted task holding the local lock.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	IHSA	
0	(0) FLOATING	8	IHSACPUT	VALUE OF CPU TIMER
8	(8) SIGNED	4	IHSANTCB	VALUE OF PSATNEW AT INTERRUPT
12	(C) SIGNED	4	IHSAOTCB	VALUE OF PSATOLD AT INTERRUPT
16	(10) FLOATING	8	IHSACPSW	VALUE OF CURRENT PSW
24	(18) CHARACTER	32	IHSAFPRS	FLOATING POINT REG SAVE AREA
24	(18) FLOATING	8	IHSAFPR0	FLOATING POINT REG 0
32	(20) FLOATING	8	IHSAFPR2	FLOATING POINT REG 2
40	(28) FLOATING	8	IHSAFPR4	FLOATING POINT REG 4
48	(30) FLOATING	8	IHSAFPR6	FLOATING POINT REG 6
56	(38) CHARACTER	64	IHSAGPRS	GENERAL REGISTER SAVE AREA
120	(78) FLOATING	8	IHSARESV	RESERVED

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
128	(80) ADDRESS	4	IHSAXSB	ADDRESS OF EXTENDED STATUS BLOCK (XSB)
132	(84) BITSTRING	1	IHSAFLGS	IHSA FLAGS
	1...		IHSANSS	"X'80'" ONE OR MORE FRRS ESTABLISHED WITH EUT=YES
133	(85) HEX	3	IHSARES1	RESERVED
136	(88) CHARACTER	760	IHSAFSSA	FRR STACK SAVEAREA
136	(88) SIGNED	4	IHSAFRRL	SAVED STACK LENGTH
140	(8C) CHARACTER	756	IHSAFRRS	SAVED FRR STACK
896	(380) FLOATING	8	IHSAEND	END OF IHSA
			IHSALEN	"IHSAEND-IHSA" LENGTH OF IHSA AREA

IMCB

Common Name : SRM User I/O Management Control Block
Macro ID : IRAIMCB
DSECT Name : IMCB
Created by : IRARMIOM
Subpool and Key : 245 and key 0
Size : 240 bytes, including user LCH usage table entries
Pointed to by : OUCBIMCB field of the OUCB data area
Serialization : SRM lock
Function : Contains user logical channel usage information for use by SRM I/O management module, IRARMIOM.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	24	IMCB	
0	(0) CHARACTER	4	IMCBIMCB	MNEMONIC IN EBCDIC IMCB-
4	(4) ADDRESS	4	IMCBLBGN	POINTER TO FIRST ENTRY IN IMCB LCH TABLE
8	(8) ADDRESS	4	IMCBLEND	POINTER TO LAST ENTRY IN IMCB LCH TABLE. NOTE: IMCB LCH TABLE ENTRIES START AT THE END OF THE IMCB TO PERMIT INSERTIONS USING MVC
12	(C) BITSTRING	4	IMCBSLCB	SIGNIFICANT LCH USAGE BIT
16	(10) SIGNED	4	IMCBRSV	RESERVED
20	(14) SIGNED	2	IMCBRSVH	RESERVED
22	(16) BITSTRING	2	IMCBFLGS	IMCB FLAGS
	1...		IMCBINIT	IMCB LCH TABLE INITIALIZED
24	(18) CHARACTER	0		DUMMY TO GIVE CORRECT VALUE TO LENGTH(IMCB)
24	(18) BITSTRING	0	IMCBLCHT	USER LCH USAGE TABLE

IOB

Common Name : IOS Input/Output Block
Macro ID : IEZIOB
DSECT Name : IOB (DSECT card precedes prefix); label, IOBSTDRD should be used in the USING statement for the standard section.
Created by : Access method OPEN executor
Subpool and Key : Subpool 0 and user key
Size : Variable
Pointed to by : DCBIOBAD field of the DCB data area
DCBIOBA field of the DCB data area
IOBNIOBA field of the IOB data area
RQEIOB field of the RQE data area (depending on access method used)
QPLIOB field of the QPL data area
TCBIOBRC field of the TCB data area (for first quiesced TCB)
Serialization : Responsibility for serialization is the user's. LOCAL lock held during I/O interrupt processing. Dependent upon the access method as to how IOB's are chained and serialized.
Function : The IOB is the communication medium between a routine requesting an I/O operation and the needs of the I/O supervisor to execute the I/O operation.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	IOB	, IOBSTDRD-16
-16	(-10) FLOATING	8	IOBPREFX	QSAM,BSAM,BPAM PREFIX CHAINED SCHEDULING 16 BYTES
-16	(-10) FLOATING	8	IOBQSAMC	
-16	(-10) FLOATING	8	IOBBSAMC	
-16	(-10) FLOATING	8	IOBBPAMC	
-16	(-10) BITSTRING	1	IOBCFLG1	I/O INDICATORS
	1...		IOBV6CHN	"X'80'"- I/O CHAINED BIT SET BY IGG019V6
	.1..		IOBRSV02	"X'40',,C'X'"RESERVED
	..1.		IOBRSV03	"X'20',,C'X'"RESERVED

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	...1		IOBRSV04	"X'10',,C'X'"RESERVED
	.... 1...		IOBPTST	"X'08'"- NOTE OR POINT OPERATION IS IN PROCESS
	.... .1..		IOBABAPP	"X'04'"- ERROR HAS BEEN PROCESSED ONCE BY ABNORMAL-END APPENDAGE ROUTINE
	.... ..1.		IOBRSTCH	"X'02'"- RESTART CHANNEL
	1		IOBPCI	"X'01'"- SET WHEN A PROGRAM-CONTROLLED INTERRUPTION (PCI) OCCURS
-15	(-F) HEX	1	IOBRSV05	RESERVED
-14	(-E) CHARACTER	1	IOBCINOP	OFFSET OF THE LAST I/O COMMAND FOR INPUT OPERATION (NOP CCW) FROM THE ORIGIN OF THE ICB
-13	(-D) CHARACTER	1	IOBCONOP	OFFSET OF THE LAST I/O COMMAND FOR AN OUTPUT OPERATION (NOP CCW) FROM THE ORIGIN OF THE ICB
-12	(-C) SIGNED	4	IOBCECB	EVENT CONTROL BLOCK USED BY BSAM OR QSAM. SHOWS THE STATUS OF THE I/O OPERATION.
-8	(-8) ADDRESS	4	IOBCICB	ADDRESS OF THE FIRST INTERRUPT CONTROL BLOCK (ICB) ON THE ICB QUEUE
-4	(-4) ADDRESS	4	IOBCNOPA	ADDRESS OF THE NOP COMMAND AT THE END OF THE QUEUE
-8	(-8) FLOATING	8	IOBQSAMN	
-8	(-8) FLOATING	8	IOBBSAMN	
-8	(-8) FLOATING	8	IOBBPAMN	
-8	(-8) ADDRESS	4	IOBNIOBA	ADDRESS OF THE NEXT IOB ASSOCIATED WITH ONE PARTICULAR DCB. THE IOB'S ARE CHAINED IN SEQUENTIAL ORDER.
-8	(-8) BITSTRING	1	IOBNFLG1	FLAG BYTE
	1...		IOBPRTOV	"X'80'"- PRTOV HAS OCCURRED (PRINTER

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				DEVICES)
	1...		IOBSEGMT	"X'80'"- SEGMENTING OF A SPANNED RECORD IS IN PROCESS (QSAM LOCATE MODE, LOGICAL RECORD INTERFACE, UPDATE PROCESSING) (DIRECT ACCESS) (OS/VS2)
	.1..		IOBWRITE	"X'40'"- A WRITE OPERATION IS IN PROCESS
	..1.		IOBREAD	"X'20'"- A READ OPERATION IS IN PROCESS
	...1		IOBUPDAT	"X'10'"- UPDATE FLAG. SET ON TOGETHER WITH BIT 1 OF THIS BYTE TO SHOW THAT THE BLOCK IS TO BE UPDATED. CAN ONLY OCCUR IF THE OPEN PARAMETER IS UPDAT.
	.... 1...		IOBBKSPC	"X'08'"- IOB BEING USED FOR BACKSPACE, CONTROL OR NOTE/POINT OPERATION
	.... .1..		IOBSPAN	"X'04'"- THE RECORD CURRENTLY BEING PROCESSED HAS MORE THAN ONE SEGMENT (QSAM LOCATE MODE, LOGICAL RECORD INTERFACE, UPDATE PROCESSING OF SPANNED RECORDS)
	.... ..1.		IOBUPERR	"X'02'"- UPDATE CHANNEL PROGRAM HAS BEEN SPLIT INTO TWO PARTS
	1		IOBFIRST	"X'01'"- THIS IS THE FIRST IOB ON CHAIN
-7	(-7) ADDRESS	3	IOBNIOBB	ADDRESS OF THE NEXT IOB ASSOCIATED WITH ONE PARTICULAR DCB. THE IOB'S ARE CHAINED IN SEQUENTIAL ORDER.
-4	(-4) SIGNED	4	IOBNECB	EVENT CONTROL BLOCK USED BY QSAM TO INDICATE THE STATUS OF THE I/O EVENT
-8	(-8) FLOATING	8	IOBBDAM	
-8	(-8) ADDRESS	4	IOBDQADA	ADDRESS OF THE OTHER IOB REFERRED TO IN DESCRIPTION OF IOBDEQ BELOW
-8	(-8) BITSTRING	1	IOBDEQIN	DEQUEUE LOOP INDICATOR
	1...		IOBDEQ	"X'80'"- THIS IOB IS USING A TRACK THAT WAS DEQUEUED BY ANOTHER IOB WHICH IS NOW WAITING TO DEQUEUE ANOTHER TRACK. THE OTHER IOB ENQUEUED ON TWO OR MORE TRACKS TO FIND SPACE IN WHICH TO WRITE/ADD A SPANNED RECORD. THE OTHER IOB REMAINED ENQUEUED UNTIL IT EITHER WROTE THE RECORD OR DETERMINED THAT THERE WAS

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				ENOUGH CONTIGUOUS FREE SPACE ON THE TRACKS TO CONTAIN THE RECORD. AFTER THE OTHER IOB DEQUEUED THE CURRENT TRACK, THE DEQUEUEING WAS INTERRUPTED BY THE NEED OF THIS IOB FOR THE CURRENT TRACK.
	.1..		IOBRSV07	"X'40',,C'X'"RESERVED
	..1.		IOBRSV08	"X'20',,C'X'"RESERVED
	...1		IOBRSV09	"X'10',,C'X'"RESERVED
	.... 1...		IOBRSV10	"X'08',,C'X'"RESERVED
	.... .1..		IOBRSV11	"X'04',,C'X'"RESERVED
	.... ..1.		IOBRSV12	"X'02',,C'X'"RESERVED
	1		IOBRSV13	"X'01',,C'X'"RESERVED
-7	(-7) ADDRESS	3	IOBDQADB	ADDRESS OF THE OTHER IOB REFERRED TO IN DESCRIPTION OF IOBDEQ ABOVE
-4	(-4) ADDRESS	4	IOBSWAP	ADDRESS OF THE SEGMENT WORK AREA USED BY THIS IOB TO READ OR WRITE A RECORD OF A FORMAT VS DATA SET
	.... 11..		IOBGAM	"*"
	.... 11..		IOBQISAM	"*"
-4	(-4) SIGNED	4	IOBGQECB	EVENT CONTROL BLOCK THAT IS WITHIN FIRST IOB ONLY (GAM) EVENT CONTROL BLOCK USED TO INDICATE STATUS OF AN I/O EVENT (QISAM)

STANDARD SECTION OF THE IOB

0	(0) FLOATING	8	IOBSTDRD	
0	(0) BITSTRING	1	IOBFLAG1	FLAG BYTE 1
	1...		IOBDATCH	"X'80'"- DATA CHAINING USED IN CHANNEL PROGRAM
	.1..		IOBCMDCH	"X'40'"- COMMAND CHAINING USED IN CHANNEL PROGRAM
	..1.		IOBERRTN	"X'20'"- ERROR ROUTINE IS IN CONTROL
	...1		IOBRPSTN	"X'10'"- DEVICE IS TO BE REPOSITIONED
	.... 1...		IOBCYCCK	"X'08'"- CYCLIC REDUNDANCY CHECK (CRC)

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				NEEDED (TAPE)
	.... 1...		IOBFCREX	"X'08'"- FETCH COMMAND RETRY EXIT (DIRECT ACCESS)
	.... .1..		IOBIOERR	"X'04'"- EXCEPTIONAL CONDITION. AFTER THE ERROR ROUTINE RETURNS AND THIS BIT IS ON, THE ERROR IS CONSIDERED PERMANENT.
	.... ..1.		IOBUNREL	"X'02'"- IOB UNRELATED FLAG (I.E., NON-SEQUENTIAL)
	1		IOBRSTRT	"X'01'"- IF 1, RESTART ADDRESS IN IOB TO BE USED. IF 0, START. (OS/VS1)
	1		IOBSPSVC	"X'01'"- FOR SAM/PAM, SET BY SVC IF I/O APPENDAGE SHOULD NOT PROCESS INTERRUPT (OS/VS2)
1	(1) BITSTRING	1	IOBFLAG2	FLAG BYTE 2
	1...		IOBHALT	"X'80'"- HALT I/O HAS BEEN ISSUED BY SVC PURGE ROUTINE
	.1..		IOBSENSE	"X'40'"- SENSE WILL NOT BE PERFORMED UNTIL THE DEVICE IS FREE
	..1.		IOBPURGE	"X'20'"- IOB HAS BEEN PURGED TO ALLOW I/O ACTIVITY TO QUIESCE. (OS/VS1)
	..1.		IOBRRT3	"X'20'"- TYPE 3 RELATED REQUEST (OS/VS2)
	...1		IOBRDHA0	"X'10'"- HOME ADDRESS (R0) RECORD IS TO BE READ. SEEK COMMAND NOT NEEDED. (OS/VS1)
	...1		IOBRRT2	"X'10'"- TYPE 2 RELATED REQUEST (OS/VS2)
	.... 1...		IOBALTTR	"X'08'"- NO TEST FOR OUT-OF-EXTENT. AN ALTERNATE TRACK IS IN USE.
	.... .1..		IOBSKUPD	"X'04'"- SEEK ADDRESS IS BEING UPDATED. CYLINDER END OR FILE MASK VIOLATION HAS OCCURRED.
	.... ..1.		IOBSTAT0	"X'02'"- DEVICE END STATUS HAS BEEN OR'ED WITH CHANNEL END STATUS (GRAPHICS DEVICE)
	1		IOBPNCH	"X'01'"- ERROR RECOVERY IN CONTROL FOR A 2540 CARD PUNCH WITH THREE BUFFERS (QSAM) RESETPL MACRO INSTRUCTION WAS USED (BTAM)
2	(2) BITSTRING	1	IOBSENS0	FIRST SENSE BYTE
	1...		IOBS0B0	"X'80'"- BIT 0 (DEVICE DEPENDENT)
	.1..		IOBS0B1	"X'40'"- BIT 1 (DEVICE DEPENDENT)

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	..1.		IOBS0B2	"X'20'"- BIT 2 (DEVICE DEPENDENT)
	...1		IOBS0B3	"X'10'"- BIT 3 (DEVICE DEPENDENT)
	.... 1...		IOBS0B4	"X'08'"- BIT 4 (DEVICE DEPENDENT)
	.... .1..		IOBS0B5	"X'04'"- BIT 5 (DEVICE DEPENDENT)
	.... ..1.		IOBS0B6	"X'02'"- BIT 6 (DEVICE DEPENDENT)
	1		IOBS0B7	"X'01'"- BIT 7 (DEVICE DEPENDENT)
	1		IOBSNSC9	"X'01'"- CHANNEL 9 SENSED IN CARRIAGE TAPE
3	(3) BITSTRING	1	IOBSENS1	SECOND SENSE BYTE
	1...		IOBS1B0	"X'80'"- BIT 0 (DEVICE DEPENDENT)
	.1..		IOBS1B1	"X'40'"- BIT 1 (DEVICE DEPENDENT)
	..1.		IOBS1B2	"X'20'"- BIT 2 (DEVICE DEPENDENT)
	...1 .. .		IOBS1B3	"X'10'"- BIT 3 (DEVICE DEPENDENT)
	.... 1...		IOBS1B4	"X'08'"- BIT 4 (DEVICE DEPENDENT)
	.... .1..		IOBS1B5	"X'04'"- BIT 5 (DEVICE DEPENDENT)
	.... ..1.		IOBS1B6	"X'02'"- BIT 6 (DEVICE DEPENDENT)
	1		IOBS1B7	"X'01'"- BIT 7 (DEVICE DEPENDENT)
4	(4) ADDRESS	4	IOBECBPT	ADDRESS OF ECB TO BE POSTED ON I/O COMPLETION
4	(4) CHARACTER	1	IOBECBCC	COMPLETION CODE FOR AN I/O REQUEST. THIS CODE WILL APPEAR IN THE FIRST BYTE OF AN ECB.
5	(5) ADDRESS	3	IOBECBPB	ADDRESS OF THE ECB TO BE POSTED UPON THE COMPLETION OF AN I/O EVENT. FOR BSAM/BPAM, ECB IS IN THE DECB. FOR QSAM, ECB IS IN THE QSAM PREFIX OF THE IOB.
8	(8) BITSTRING	1	IOBFLAG3	I/O SUPERVISOR ERROR ROUTINE FLAG BYTE (DEVICE DEPENDENT)
8	(8) BITSTRING	1	IOBFL3	FLAG 3 STATUS ERROR COUNTS FOR MAGNETIC DOCUMENT READER (3890) OR FLAGS FOR 3800 (OS/VS1)
	1...		IOBCCC	"X'80'"- CHANNEL CONTROL CHECK ERROR COUNT (3890)
	.1..		IOBICC	"X'40'"- INTERFACE CONTROL CHECK ERROR COUNT (3890)
	..1.		IOBCDC	"X'20'"- CHANNEL DATA CHECK ERROR (3890)
	...1		IOBACU	"X'10'"- ATTENTION/CONTROL UNIT ERROR

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				(3890)
	.... 1...		IOBCNC	"X'08'"- CHAIN CHECK ERROR (3890)
	.... 1...		IOBSDR	"X'08'"- STATISTICS ONLY FLAG (3800)
	.... .1..		IOBMSG	"X'04'"- MESSAGE FLAG (3890 OR 3800)
	.... ..1.		IOBICL	"X'02'"- INCORRECT LENGTH ERROR (3890)
	.... ..1.		IOBJAM	"X'02'"- SET ON WHEN JES SUBSYSTEM HAS DETECTED A PAPER JAM SO 3800 ERP WILL SUPPRESS ITS INTERVENTION REQUIRED MESSAGE (3800)
	1		IOBLOG	"X'01'"- LOG OUT FLAG (3890 OR 3800)
9	(9) CHARACTER	7	IOBCSW	LOW-ORDER SEVEN BYTES OF THE LAST CSW THAT REFLECTS THE STATUS FOR THIS REQUEST
9	(9) CHARACTER	5	IOBIOCSW	LOW-ORDER BYTES OF CSW FOR MAGNETIC DOCUMENT READER (3890) (OS/VS1)
9	(9) ADDRESS	3	IOBCMDA	COMMAND ADDRESS (3890)
12	(C) BITSTRING	2	IOBSTBYT	STATUS BITS 32-47 (3890)
12	(C) BITSTRING	1	IOBUSTAT	CSW UNIT STATUS FLAGS (3800)
	1...		IOBUSB0	"X'80'"- ATTENTION
	.1..		IOBUSB1	"X'40'"- STATUS MODIFIER
	..1.		IOBUSB2	"X'20'"- CONTROL UNIT END
	...1		IOBUSB3	"X'10'"- BUSY
	.... 1...		IOBUSB4	"X'08'"- CHANNEL END
	.... .1..		IOBUSB5	"X'04'"- DEVICE END
	.... ..1.		IOBUSB6	"X'02'"- UNIT CHECK
	1		IOBUSB7	"X'01'"- UNIT EXCEPTION
13	(D) BITSTRING	1	IOBCSTAT	CSW CHANNEL STATUS FLAGS (3800)
	1...		IOBCSB0	"X'80'"- PROGRAM CONTROL INTERRUPT
	.1..		IOBCSB1	"X'40'"- INCORRECT LENGTH
	..1.		IOBCSB2	"X'20'"- PROGRAM CHECK
	...1		IOBCSB3	"X'10'"- PROTECTION CHECK
	.... 1...		IOBCSB4	"X'08'"- CHANNEL DATA CHECK
	.... .1..		IOBCSB5	"X'04'"- CHANNEL CONTROL CHECK
	.... ..1.		IOBCSB6	"X'02'"- INTERFACE CONTROL CHECK
	1		IOBCSB7	"X'01'"- CHAINING CHECK
14	(E) HEX	2		LAST TWO BYTES OF IOBCSW

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
16	(10) ADDRESS	4	IOBSTART	ADDRESS OF CHANNEL PROGRAM TO BE EXECUTED
16	(10) BITSTRING	1	IOBSIOCC	SIO CODE. BITS 2 AND 3 CONTAIN CONDITION CODE RETURNED AFTER EXECUTION OF SIO INSTRUCTION FOR THIS I/O EVENT.
17	(11) ADDRESS	3	IOBSTRTB	ADDRESS OF CHANNEL PROGRAM TO BE EXECUTED
20	(14) ADDRESS	4	IOBDCBPT	ADDRESS OF DCB ASSOCIATED WITH THIS IOB
20	(14) BITSTRING	1	IOBFLAG4	FLAG BYTE
	1...		IOBGDPOL	"X'80'"- RE-ENTER SIO APPENDAGE FOR OLTEP GUARANTEED DEVICE PATH
	.1..		IOBCC3WE	"X'40'"- USER REQUESTS THAT IOS POST A X'6D' FOR A CONDITION CODE 3 ON ATTEMPTED I/O OPERATIONS (OS/VS2)
	..1.		IOBPMERR	"X'20'"- VTAM SETS THIS BIT ON TO INDICATE TO IOS THAT VTAM SHOULD BE POSTED WITH A PERMANENT I/O ERROR BECAUSE ALL ALTERNATE PATHS TO THE 3705 HAVE BEEN TRIED (OS/VS1)
	...1		IOBRSV40	"X'10',,C'X'"- RESERVED
	.... 1...		IOBRSV41	"X'08',,C'X'"- RESERVED
	.... .1..		IOBRSV42	"X'04',,C'X'"- RESERVED
	.... ..1.		IOBJES3I	"X'02'"- JES3 INTERVENTION REQUIRED NOTIFICATION. SETTING THIS BIT WILL RESULT IN TURNING ON BIT IOSPGDPX IN THE IOSB. (OS/VS2)
	1		IOBRSV44	"X'01',,C'X'"- RESERVED
21	(15) ADDRESS	3	IOBDCBPB	ADDRESS OF DCB ASSOCIATED WITH THIS IOB
24	(18) ADDRESS	4	IOBRESTR	AFTER SVC 16 (PURGE) QUIESCE ADDRESS OF THE NEXT IOB IN THE PURGE CHAIN. (LAST IOB IN THE CHAIN, BYTE 4 IS FF.) DURING I/O SUPERVISOR WRITE-TO-OPERATOR ROUTINE CONTROL CCHH PART OF THE ADDRESS OF A DEFECTIVE TRACK. DURING I/O ERROR CORRECTION (MEANINGFUL ONLY IF BIT 3 IN THE IOBFLAG1 FIELD IS ON) ADDRESS OF THE CHANNEL PROGRAM USED TO CORRECT AN ERROR

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				CONDITION. AFTER I/O ERROR CORRECTION IF A CHANNEL PROGRAM IS RESTARTED THROUGH A CCW OTHER THAN THE ONE POINTED TO BY THE IOBSTART FIELD, ITS ADDRESS IS HERE.
24	(18) CHARACTER	1	IOBREPOS	DURING I/O ERROR CORRECTION (MEANINGFUL ONLY IF BIT 3 IN THE IOBFLAG1 FIELD IS ON) FOR MAGNETIC TAPE ONLY THE CONTROL COMMAND (BSR, FSR, ERG) REQUIRED TO REPOSITION OVER A BLOCK.
25	(19) ADDRESS	3	IOBRSTRB	SAME AS IOBRESTR ABOVE
28	(1C) SIGNED	2	IOBINCAM	QSAM, BSAM, EXCP ACCESS METHOD NORMAL SCHEDULING VALUE USED TO INCREMENT BLOCK COUNT FIELD IN DCB FOR MAGNETIC TAPE. CHAINED SCHEDULING ZEROS. QSAM, BSAM OPERATION CODE OF WRITE CCW WHEN A USASI CONTROL CHARACTER AND NO DATA IS TO BE WRITTEN (PRINTER AND CARD PUNCH ONLY)
28	(1C) BITSTRING	1	IOBBTAMF	FLAG BYTE FOR BTAM
	1...		IOBPRMER	"X'80'"- SAD OR ENABLE ISSUED BY OPEN RESULTED IN A PERMANENT I/O ERROR
	.1..		IOBINUSE	"X'40'"- THIS IOB IS CURRENTLY IN USE BY AN I/O OPERATION
	..1.		IOBRSV14	"X'20',,C'X'"RESERVED
	...1		IOBRSV15	"X'10',,C'X'"RESERVED
	.... 1...		IOBRSV16	"X'08',,C'X'"RESERVED
	.... .1..		IOBRSV17	"X'04',,C'X'"RESERVED
	.... ..1.		IOBRFTMG	"X'02'"- A REQUEST-FOR-TEST MESSAGE RECEIVED FROM A REMOTE 3270 DISPLAY STATION
	1		IOBOLTST	"X'01'"- LINE IS UNDER ON-LINE TEST OPERATION
29	(1D) HEX	1	IOBRSV19	RESERVED
28	(1C) BITSTRING	1	IOBFL4	FLAG 4 SENSE ERROR COUNTS FOR MAGNETIC DOCUMENT READER (3890) (OS/VS1) OR ERROR CODE PASSBACK BYTE FOR 3895 (FOR ERROR CODE VALUES SEE IBM 3895 DOCUMENT READER/INSCRIBER MACHINE AND PROGRAMMING

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				DESCRIPTION, GA24-3620)
	1...		IOBOVR	"X'80'"- OVERRUN ERROR (3890)
	.1..		IOBREJ	"X'40'"- COMMAND REJECT ERROR (3890)
	..1.		IOBDCK	"X'20'"- DATA CHECK ERROR (3890)
	...1		IOBBUS	"X'10'"- BUS-OUT ERROR (3890)
	.... 1...		IOBEQP	"X'08'"- EQUIPMENT CHECK ERROR (3890)
	.... .1..		IOBENT	"X'04'"- FIRST TIME ENTRY SWITCH (3890)
	.... ..1.		IOBRSV47	"X'02',,C'X'"- RESERVED FOR 3890
	1		IOBRSV46	"X'01',,C'X'"- RESERVED FOR 3890
28	(1C) CHARACTER	1	IOBCRDCC	DATA CHECK ERROR COUNT (OPTICAL READER)
29	(1D) CHARACTER	1	IOBCRILC	INCORRECT LENGTH ERROR COUNT (OPTICAL READER)
30	(1E) SIGNED	2	IOBERRCT	USED BY I/O SUPERVISOR ERROR ROUTINES TO COUNT TEMPORARY ERRORS DURING RETRY

EXTENSION SECTIONS OF THE IOB

32	(20) FLOATING	8	IOBEXTEN	DIRECT ACCESS EXTENSION 8 BYTES
32	(20) CHARACTER	8	IOBSEEK	A SEEK ADDRESS (IN THE FORMAT MBBCCHHR) USED WITH A CHANNEL PROGRAM
32	(20) CHARACTER	1	IOBM	THE NUMBER OF THE DEB EXTENT TO BE USED FOR THIS REQUEST. THE FIRST EXTENT IS NUMBER 0.
33	(21) CHARACTER	2	IOBBB	BIN NUMBER(DATA CELL)
33	(21) CHARACTER	1	IOBBB1	
34	(22) CHARACTER	1	IOBBB2	
35	(23) CHARACTER	2	IOBCC	CYLINDER NUMBER
35	(23) CHARACTER	1	IOBCC1	
36	(24) CHARACTER	1	IOBCC2	
37	(25) CHARACTER	2	IOBHH	TRACK NUMBER
37	(25) CHARACTER	1	IOBHH1	
38	(26) CHARACTER	1	IOBHH2	
39	(27) CHARACTER	1	IOBR	RECORD NUMBER

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
32	(20) CHARACTER	1	IOBUCBX	UCB INDEX. THE LINE NUMBER IS USED AS AN INDEX TO LOCATE THE PROPER UCB ADDRESS IN THE DEB.
33	(21) CHARACTER	5	IOBWORK	WORK AREA USED BY ERROR ROUTINES AND ON-LINE TERMINAL TEST ROUTINES
38	(26) CHARACTER	1	IOBRCVPT	RECEIVED ACK (ACK-0 OR ACK-1)
39	(27) CHARACTER	1	IOBSNDPT	SENT ACK (ACK-0 OR ACK-1)
40	(28) CHARACTER	8	IOBERCCW	CCW AREA USED BY THE BTAM ERROR RECOVERY ROUTINES
48	(30) CHARACTER	16	IOBERINF	ERROR INFORMATION FIELD USED BY THE BTAM ERROR RECOVERY ROUTINES
64	(40) FLOATING	8	IOBCPA	CHANNEL PROGRAMS AREA. THE LENGTH DEPENDS ON THE TERMINAL AND THE OPTIONS.
40	(28) ADDRESS	4	IOBCCWAD	FOR FIXED LENGTH RECORDS, ADDRESS OF FIRST CCW OF CHANNEL PROGRAM. FOR VARIABLE LENGTH RECORDS, ADDRESS OF BUFFER, IF DYNAMIC BUFFERING SPECIFIED, AFTER COMPLETION OF A READ FOR UPDATE (READ KU)
44	(2C) BITSTRING	1	IOBINDCT	INDICATORS
	1...		IOBDEQCP	"X'80'"- DEQUEUE CHANNEL PROGRAM FROM QUEUE
	.1..		IOBUNSCH	"X'40'"- UNSCHEDULED QUEUE
	..1.		IOBOVPTR	"X'20'"- IF 0, DECBAREA + 6 POINTS TO OVERFLOW RECORD DATA. IF 1, DCBMSWA POINTS TO OVERFLOW RECORD KEY FOLLOWED BY DATA.
	...1		IOBKEYAD	"X'10'"- IF 0, DECBKEY POINTS TO OVERFLOW RECORD KEY. IF 1, DCBMSWA + 8 POINTS TO OVERFLOW RECORD KEY.
	.... 1...		IOBRSV27	"X'08',,C'X'"RESERVED
	.... .1..		IOBRSV28	"X'04',,C'X'"RESERVED
	.... ..1.		IOBRSV29	"X'02',,C'X'"RESERVED
	1		IOBCHNNL	"X'01'"- IF 0, NORMAL CHANNEL END HAS OCCURRED. IF 1, ABNORMAL CHANNEL END HAS OCCURRED.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
45	(2D) BITSTRING	1	IOBUNSQR	REASON FOR UNSCHEDULED QUEUE
	1...		IOBCPBSY	"X'80'"- CHANNEL PROGRAM CP1 OR CP2 BUSY
	.1..		IOBNTAV1	"X'40'"- NO CP4, CP5 OR CP6 AVAILABLE
	..1.		IOBNTAV2	"X'20'"- NO CP7 AVAILABLE
	...1		IOBKNWR	"X'10'"- WRITE KN IS IN EFFECT (UNSCHEDULED IOB IS FOR WRITE KN)
	.... 1...		IOBKNRWR	"X'08'"- WRITE KN IS IN EFFECT (UNSCHEDULED IOB IS FOR READ OR WRITE KN)
	.... .1..		IOBRSV30	"X'04',,C'X'"RESERVED
	.... ..1.		IOBRSV31	"X'02',,C'X'"RESERVED
	1		IOBRSV32	"X'01',,C'X'"RESERVED
46	(2E) CHARACTER	1	IOBAPP	APPENDAGE CODE
47	(2F) CHARACTER	1	IOBASYN	ASYNCHRONOUS ROUTINE CODE
48	(30) ADDRESS	4	IOBFCHAD	FORWARD CHAIN ADDRESS
48	(30) CHARACTER	1	IOBCOUNT	WRITE CHECK COUNTER
49	(31) ADDRESS	3	IOBFCHNB	FORWARD CHAIN ADDRESS
52	(34) ADDRESS	4	IOBBCHAD	BACKWARD CHAIN ADDRESS
32	(20) CHARACTER	1	IOBUCBXG	UCB INDEX
33	(21) HEX	3	IOBRSV37	RESERVED
36	(24) ADDRESS	4	IOBNXTPT	ADDRESS OF NEXT AVAILABLE IOB. SET TO ZERO IF THIS IS LAST IOB.
36	(24) BITSTRING	1	IOBSTATA	STATUS INDICATORS
	1...		IOBAVLFL	"X'80'"- IF 0, IOB IS AVAILABLE. IF 1, IOB IS NOT AVAILABLE.
	.1..		IOBRSV20	"X'40',,C'X'"RESERVED
	..1.		IOBRSV21	"X'20',,C'X'"RESERVED
	...1		IOBRSV22	"X'10',,C'X'"RESERVED
	.... 1...		IOBRSV23	"X'08',,C'X'"RESERVED
	.... .1..		IOBRSV24	"X'04',,C'X'"RESERVED
	.... ..1.		IOBRSV25	"X'02',,C'X'"RESERVED
	1		IOBRSV26	"X'01',,C'X'"RESERVED
37	(25) ADDRESS	3	IOBNXTPB	ADDRESS OF NEXT AVAILABLE IOB. SET TO ZERO IF THIS IS LAST IOB

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
40	(28) CHARACTER	32	IOBCCW	LIST OF CHANNEL COMMAND WORDS TO TRANSFER DATA
40	(28) CHARACTER	2	W1IEXTEN	APPENDAGE CODES FOR BOTH NORMAL AND ABNORMAL CHANNEL END CONDITIONS
40	(28) CHARACTER	2	W1OEXTEN	SAME AS W1IEXTEN ABOVE
40	(28) SIGNED	2	IOBDBYTR	NUMBER OF UNUSED BYTES REMAINING ON THE TRACK
42	(2A) SIGNED	2	IOBDIOBS	OVERALL SIZE OF THE IOB
44	(2C) ADDRESS	4	IOBDPLAD	ADDRESS OF THE NEXT IOB IN THE POOL OF IOB'S
44	(2C) BITSTRING	1	IOBDAYLI	ALL BITS SET TO ZERO INDICATE THE AVAILABILITY OF THIS IOB
45	(2D) ADDRESS	3	IOBDPLB	ADDRESS OF THE NEXT IOB IN THE POOL OF IOB'S
48	(30) BITSTRING	1	IOBDTYPE	THE TYPE OF REQUEST AND SPECIFIED OPTIONS
	1...		IOBVERFY	"X'80'"- VERIFY
	.1..		IOBOVFLO	"X'40'"- OVERFLOW
	..1.		IOBEXTSC	"X'20'"- EXTENDED SEARCH
	...1		IOBFDBCK	"X'10'"- FEEDBACK
	.... 1...		IOBACTAD	"X'08'"- ACTUAL ADDRESSING
	.... .1..		IOBDYNBF	"X'04'"- DYNAMIC BUFFERING
	.... ..1.		IOBRDEXC	"X'02'"- READ EXCLUSIVE
	1		IOBRELBL	"X'01'"- RELATIVE BLOCK ADDRESSING
49	(31) BITSTRING	1	IOBDTYP2	SECOND BYTE OF OPTIONS AND REQUESTS
	1...		IOBSKEY	"X'80'"- KEY ADDRESS CODED AS 'S'
	.1..		IOBSBLKL	"X'40'"- BLOCK LENGTH CODED AS 'S'
	..11		IOBSUFFX	"X'30'"- IF BITS 2 AND 3 ARE ONE, RU IS SUFFIXED TO THE TYPE, INDICATING THAT THE FEEDBACK ADDRESS IN DECNXADR CAN BE THE ADDRESS OF EITHER THE NEXT DATA RECORD OR THE NEXT CAPACITY RECORD, WHICHEVER OCCURS FIRST. IF BIT 2 IS ZERO AND BIT 3 IS ONE, R IS SUFFIXED TO THE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				TYPE, INDICATING THAT THE FEEDBACK ADDRESS IN DECNXADR IS THE ADDRESS OF
	.... 1...		IOBRQUST	"X'08'"- IF 1, READ REQUEST. IF 0, WRITE REQUEST.
	.... .1..		IOBTYPE	"X'04'"- IF 1, KEY TYPE. IF 0, ID TYPE.
	.... ..1.		IOBADDTY	"X'02'"- ADD TYPE
	1		IOBRELEX	"X'01'"- RELEX MACRO ISSUED
50	(32) CHARACTER	2	IOBDSTAT	STATUS OF THE I/O REQUEST
50	(32) BITSTRING	1	IOBSTAT1	FLAG BYTE
	1...		IOBABNRM	"X'80'"- ABNORMAL COMPLETION
	.1..		IOBNEWVL	"X'40'"- ON EXTENDED SEARCH, THE NEXT EXTENT IS ON A NEW VOLUME. THE ASI ROUTINE MUST ISSUE THE EXCP MACRO. THE END-OF-EXTENT APPENDAGE CANNOT.
	..1.		IOBSYNCH	"X'20'"- MODULE WAS ENTERED VIA SYNCH
	...1		IOBPASS2	"X'10'"- ON EXTENDED SEARCH, INDICATES TO THE RELATIVE BLOCK CONVERSION ROUTINE THAT THE SECOND PASS OF A TWO-PASS CONVERSION ROUTINE HAS COMPLETED
	.... 1...		IOBENQUE	"X'08'"- FOR EXCLUSIVE CONTROL REQUEST, INDICATES THAT A RECORD HAS BEEN ENQUEUED
	.... .1..		IOBBUFF	"X'04'"- A BUFFER HAS BEEN ASSIGNED TO THIS IOB
	.... ..1.		IOBADDVU	"X'02'"- IOB BEING USED TO ADD A VARIABLE (V) OR UNDEFINED (U) TYPE RECORD TO THE DATA SET
	1		IOBSIORT	"X'01'"- INDICATES TO THE DYNAMIC BUFFERING ROUTINE THAT IT WAS ENTERED FROM, AND IS TO RETURN TO, THE START I/O APPENDAGE MODULE
51	(33) CHARACTER	1	IOBSTAT2	ERROR CODE FOR ABNORMAL COMPLETION USED AS POST CODE IN ECB
52	(34) ADDRESS	4	IOBDCPND	ADDRESS OF LOCATION WHERE CHANNEL END PROGRAM SHOULD END
56	(38) SIGNED	2	IOBDBYTN	NUMBER OF BYTES NEEDED ON A TRACK TO WRITE A NEW BLOCK
58	(3A) HEX	2	IOBRSV34	RESERVED

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
60	(3C) ADDRESS	4	IOBDQPTR	ADDRESS OF IOB FOR NEXT I/O OPERATION TO BE EXECUTED
64	(40) HEX	8	IOBRSV35	RESERVED
72	(48) CHARACTER	8	IOBDNCRF	COUNT FIELD FOR NEW BLOCK
80	(50) FLOATING	8	IOBCHNPR	CHANNEL PROGRAM USED TO TRANSFER DATA AS REQUESTED BY THE READ OR WRITE MACRO INSTRUCTION STARTS HERE
40	(28) CHARACTER	8	IOBSEEK2	SEEK FIELD 2
40	(28) CHARACTER	1	IOBSK2M	EXTENT NUMBER
41	(29) CHARACTER	2	IOBSK2BB	BIN NUMBER
43	(2B) CHARACTER	2	IOBSK2CC	CYLINDER NUMBER
45	(2D) CHARACTER	2	IOBSK2HH	HEAD NUMBER
47	(2F) CHARACTER	1	IOBSK2R	RECORD NUMBER
48	(30) ADDRESS	4	IOBBUFC	ADDRESS OF ASSOCIATED BUFFER CONTROL BLOCK
52	(34) ADDRESS	4	IOBREADA	ADDRESS OF FIRST READ CHANNEL PROGRAM SEGMENT THAT HAS NOT BEEN PROCESSED
56	(38) ADDRESS	4	IOBNEXTA	ADDRESS OF NEXT ACTIVE IOB
60	(3C) ADDRESS	4	IOBRDCHP	ADDRESS OF READ CHANNEL PROGRAM
32	(20) ADDRESS	4	IOBERCT	POINTER TO COUNTERS FOR SIO AND TEMPORARY ERRORS
32	(20) SIGNED	1	IOBUCBXV	UCB INDEX
32	(20) CHARACTER	1	IOBRTYPE	RECORD TYPE FOR OBR
33	(21) ADDRESS	3	IOBERCTA	POINTER TO COUNTERS FOR SIO AND TEMPORARY ERRORS
36	(24) ADDRESS	4	IOBNAME	POINTER TO TERMINAL NAME

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
36	(24) SIGNED	1	IOBNAMSZ	SIZE OF TERMINAL NAME
37	(25) ADDRESS	3	IOBNAMEA	POINTER TO TERMINAL NAME
40	(28) ADDRESS	4	IOBMDREC	POINTER TO RECORD BEING PASSED TO MISCELLANEOUS DATA RECORDER
44	(2C) ADDRESS	4	IOBRCD	POINTER TO QUEUE OF OBR RECORDS PASSED FROM 3705
48	(30) HEX	1	IOBSENSV	SENSE BYTE SAVE AREA
49	(31) HEX	7	IOBCSWSV	SAVE AREA FOR LAST 7 BYTES OF CSW
32	(20) CHARACTER	4	IOBSKADR	3540 SEEK ADDRESS
32	(20) HEX	1	IOBSKRV	RESERVED
33	(21) HEX	1	IOBSKTT	TRACK NUMBER
34	(22) HEX	1	IOBSK0	MUST BE ZERO
35	(23) HEX	1	IOBSKSS	SECTOR NUMBER

CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
IOB	0		IOBCMDCH	0	40	IOBDTYPE	30	
IOBABAPP	-10	04	IOBCNC	8	08	IOBDTYP2	31	
IOBABNRM	32	80	IOBCNOPA	-4		IOBDYNBF	30	04
IOBACTAD	30	08	IOBCONOP	-D		IOBECBCC	4	
IOBACU	8	10	IOBCOUNT	30		IOBECBPB	5	
IOBADDTY	31	02	IOBCPA	40		IOBECBPT	4	
IOBADDVU	32	02	IOBCPBSY	2D	80	IOBENQUE	32	08
IOBALTTR	1	08	IOBCRDCC	1C		IOBENT	1C	04
IOBAPP	2E		IOBCRILC	1D		IOBEQP	1C	08
IOBASYN	2F		IOBCSB0	D	80	IOBERCCW	28	
IOBAVLFL	24	80	IOBCSB1	D	40	IOBERCT	20	
IOBBB	21		IOBCSB2	D	20	IOBERCTA	21	
IOBBB1	21		IOBCSB3	D	10	IOBERINF	30	
IOBBB2	22		IOBCSB4	D	08	IOBERRCT	1E	
IOBBCHAD	34		IOBCSB5	D	04	IOBERRTN	0	20
IOBBDAM	-8		IOBCSB6	D	02	IOBEXTEN	20	
IOBBKSPC	-8	08	IOBCSB7	D	01	IOBEXTSC	30	20
IOBBPAMC	-10		IOBCSTAT	D		IOBFCHAD	30	
IOBBPAMN	-8		IOBCSW	9		IOBFCHNB	31	
IOBBSAMC	-10		IOBCSWSV	31		IOBFCREX	0	08
IOBBSAMN	-8		IOBCYCCK	0	08	IOBFDBCK	30	10
IOBBTAMF	1C		IOBDATCH	0	80	IOBFIRST	-8	01
IOBBUFC	30		IOBDAYLI	2C		IOBFLAG1	0	
IOBBUFF	32	04	IOBDBYTN	38		IOBFLAG2	1	
IOBBUS	1C	10	IOBDBYTR	28		IOBFLAG3	8	
IOBCC	23		IOBDCBPB	15		IOBFLAG4	14	
IOBCCC	8	80	IOBDCBPT	14		IOBFL3	8	
IOBCCW	28		IOBDCK	1C	20	IOBFL4	1C	
IOBCCWAD	28		IOBDCPND	34		IOBGAM	-4	0C
IOBCC1	23		IOBDEQ	-8	80	IOBGDPOL	14	80
IOBCC2	24		IOBDEQCP	2C	80	IOBGQECB	-4	
IOBCC3WE	14	40	IOBDEQIN	-8		IOBHALT	1	80
IOBCDC	8	20	IOBDIOBS	2A		IOBHH	25	
IOBCECB	-C		IOBDNCRF	48		IOBHH1	25	
IOBCFLG1	-10		IOBDPLAD	2C		IOBHH2	26	
IOBCHNNL	2C	01	IOBDPLB	2D		IOBICC	8	40
IOBCHNPR	50		IOBDQADA	-8		IOBICL	8	02
IOBCICB	-8		IOBDQADB	-7		IOBINCAM	1C	
IOBCINOP	-E		IOBDQPTR	3C		IOBINDCT	2C	
IOBCMDA	9		IOBDSTAT	32		IOBINUSE	1C	40

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
IOBIOCSW	9		IOBRCVPT	26		IOBRSV27	2C	08
IOBIOERR	0	04	IOBRDCHP	3C		IOBRSV28	2C	04
IOBJAM	8	02	IOBRDEXC	30	02	IOBRSV29	2C	02
IOBJES3I	14	02	IOBRDHA0	1	10	IOBRSV30	2D	04
IOBKEYAD	2C	10	IOBREAD	-8	20	IOBRSV31	2D	02
IOBKNRWR	2D	08	IOBREADA	34		IOBRSV32	2D	01
IOBKNWR	2D	10	IOBREJ	1C	40	IOBRSV34	3A	
IOBLOG	8	01	IOBRELBL	30	01	IOBRSV35	40	
IOBM	20		IOBRELEX	31	01	IOBRSV37	21	
IOBMDREC	28		IOBREPOS	18		IOBRSV40	14	10
IOBMSG	8	04	IOBRESTR	18		IOBRSV41	14	08
IOBNAME	24		IOBRFTMG	1C	02	IOBRSV42	14	04
IOBNAMEA	25		IOBRPSTN	0	10	IOBRSV44	14	01
IOBNAMSZ	24		IOBRQUST	31	08	IOBRSV46	1C	01
IOBNECB	-4		IOBRRT2	1	10	IOBRSV47	1C	02
IOBNEWVL	32	40	IOBRRT3	1	20	IOBRTYPE	20	
IOBNEXTA	38		IOBRSTCH	-10	02	IOBSBLKL	31	40
IOBNFLG1	-8		IOBRSTRB	19		IOBSDR	8	08
IOBNIOBA	-8		IOBRSTRT	0	01	IOBSEEK	20	
IOBNIOBB	-7		IOBRSV02	-10	40	IOBSEEK2	28	
IOBNTAV1	2D	40	IOBRSV03	-10	20	IOBSEGMT	-8	80
IOBNTAV2	2D	20	IOBRSV04	-10	10	IOBSENSE	1	40
IOBNXTPB	25		IOBRSV05	-F		IOBSENSV	30	
IOBNXTPT	24		IOBRSV07	-8	40	IOBSENS0	2	
IOBOLTST	1C	01	IOBRSV08	-8	20	IOBSENS1	3	
IOBOVFLO	30	40	IOBRSV09	-8	10	IOBSIOCC	10	
IOBOVPTR	2C	20	IOBRSV10	-8	08	IOBSIORT	32	01
IOBOVR	1C	80	IOBRSV11	-8	04	IOBSKADR	20	
IOBPASS2	32	10	IOBRSV12	-8	02	IOBSKEY	31	80
IOBPCI	-10	01	IOBRSV13	-8	01	IOBSKRV	20	
IOBPMERR	14	20	IOBRSV14	1C	20	IOBSKSS	23	
IOBPNCH	1	01	IOBRSV15	1C	10	IOBSKTT	21	
IOBPREFX	-10		IOBRSV16	1C	08	IOBSKUPD	1	04
IOBPRMER	1C	80	IOBRSV17	1C	04	IOBSK0	22	
IOBPRTOV	-8	80	IOBRSV19	1D		IOBSK2BB	29	
IOBPTST	-10	08	IOBRSV20	24	40	IOBSK2CC	2B	
IOBPURGE	1	20	IOBRSV21	24	20	IOBSK2HH	2D	
IOBQISAM	-4	0C	IOBRSV22	24	10	IOBSK2M	28	
IOBQSAMC	-10		IOBRSV23	24	08	IOBSK2R	2F	
IOBQSAMN	-8		IOBRSV24	24	04	IOBSNDPT	27	
IOBR	27		IOBRSV25	24	02	IOBSNSC9	2	01
IOBRCD	2C		IOBRSV26	24	01	IOBSPAN	-8	04

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
IOBSPSVC	0	01	IOBS0B6	2	02	IOBUPDAT	-8	10
IOBSTART	10		IOBS0B7	2	01	IOBUPERR	-8	02
IOBSTATA	24		IOBS1B0	3	80	IOBUSB0	C	80
IOBSTAT0	1	02	IOBS1B1	3	40	IOBUSB1	C	40
IOBSTAT1	32		IOBS1B2	3	20	IOBUSB2	C	20
IOBSTAT2	33		IOBS1B3	3	10	IOBUSB3	C	10
IOBSTBYT	C		IOBS1B4	3	08	IOBUSB4	C	08
IOBSTDRD	0		IOBS1B5	3	04	IOBUSB5	C	04
IOBSTRTB	11		IOBS1B6	3	02	IOBUSB6	C	02
IOBSUFFX	31	30	IOBS1B7	3	01	IOBUSB7	C	01
IOBSWAP	-4		IOBTYPE	31	04	IOBUSTAT	C	
IOBSYNCH	32	20	IOBUCBX	20		IOBVERFY	30	80
IOBS0B0	2	80	IOBUCBXG	20		IOBV6CHN	-10	80
IOBS0B1	2	40	IOBUCBXV	20		IOBWORK	21	
IOBS0B2	2	20	IOBUNREL	0	02	IOBWRITE	-8	40
IOBS0B3	2	10	IOBUNSCH	2C	40	W1IEXTEN	28	
IOBS0B4	2	08	IOBUNSQR	2D		W1OEXTEN	28	
IOBS0B5	2	04						

IOCOM

Common Name : I/O Communications Area
Macro ID : IECDIOCM
DSECT Name : IOCOM
Created by : Contained in module IECIOSCN
Subpool and Key : Nucleus
Size : 192 bytes
Pointed to by : CVTIXAVL field of the CVT data area
Serialization : None
Function : IOCOM contains addresses of IOS routines.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	228	IOCOM	
0	(0) CHARACTER	2	IOCVOICT	NUMBER OF VOID ENTRIES
2	(2) CHARACTER	2	IOCPGCT	NUMBER OF ACTIVE I/O PURGES
4	(4) ADDRESS	4	IOCPST	POST STATUS ENTRY ADDR
8	(8) ADDRESS	4	IOCHIO	ADDR OF HIO SUBROUTINE
12	(C) ADDRESS	4	IOCCTBL	ADDR OF CHANNEL TABLE
16	(10) ADDRESS	4	IOCINT	ADDR OF IECINT: IO SLIH Y3OCQLG
20	(14) ADDRESS	4	IOCHD160	ADDR OF 160 BYTE BLK FREE QUEUE
24	(18) ADDRESS	4	IOCSCOMP	SRB ENTRY TO SMGR COMPRESS
28	(1C) ADDRESS	4	IOCSTIO	STARTIO MACRO BRANCH ENTRY TO IOS
32	(20) ADDRESS	4	IOCVOID	ADDR OF VECTOR OF IOS DRIVERS
36	(24) ADDRESS	4	IOCORMGT	ADDR OF CORE MGMT ENTRY
40	(28) ADDRESS	4	IOCIOSCP	ADDR OF IOS CHN PGM AREA

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
44	(2C) ADDRESS	4	IOCPRGID	PURGE DEQ ROUTINE ADDR
48	(30) CHARACTER	8	IOCCATLK	CHAN AVAIL. TABLE LOCK
56	(38) CHARACTER	8	IOCSYNCH	IOSYNCH LOCK
64	(40) ADDRESS	4	IOCOMEX	ADDR OF IOCOM EXTENSION
68	(44) ADDRESS	4	IOCATTBL	ADDR OF ATTENTION TABLE
72	(48) ADDRESS	4	IOCLCHTB	ADDR OF LOGICAL CHANNEL TABLE
76	(4C) ADDRESS	4	IOCASYNQ	ADDRESS OF ASYNCHRONOUS QUEUES FOR PAGING I/O
80	(50) ADDRESS	4	IOCCCH	ADDRESS OF CCH ROUTINE
84	(54) ADDRESS	4	IOCGENA	ADDR OF IOSGEN SUBROUTIN
88	(58) ADDRESS	4	IOCMFHK	ADDR OF TARGET LOCATION OF INSTRUCTION TO ACTIVATE MF/1
92	(5C) ADDRESS	4	IOCMFCNT	ADDR OF ACTUAL INSTR. TO ACTIVATE MF/1
96	(60) ADDRESS	4	IOCRSVTB	ADDR. OF DEVICE RESERVE TABLE BUILT BY I/O RSTRT AS A RESULT OF ALT. CPU RECOVERY. FIELD SET AND RESET ONLY UNDER OWNRSHP OF THE 'RESTART' RESOURC
100	(64) ADDRESS	4	IOCTCCW	ADDR OF CCW TRANSLATOR
104	(68) ADDRESS	4	IOCSVCF	ENTRY POINT OF SVC F
108	(6C) ADDRESS	4	IOCIOSEQ	IOS ENQ ROUTINE
112	(70) ADDRESS	4	IOCIOSDQ	IOS DEQ ROUTINE
116	(74) ADDRESS	4	IOCQCNT	ADDR OF PURGE IPIB QUIESCENT COUNT DECREMENT/POST SUBROUTINE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
120	(78) ADDRESS	4	IOCUCBBM	ADDR OF DEVICE VALIDITY TABLE (UCB BIT-MAPS)
124	(7C) ADDRESS	4	IOCPATCH	ADDR OF IOS PATCH AREA
128	(80) ADDRESS	4	IOCSMHDR	POINT TO SMGR SMALL BLOCK POOL HEADER
132	(84) ADDRESS	4	IOCLCHA	CHAN. SEL. ALGORITHMS
136	(88) ADDRESS	4	IOCNRSF	SIOF WITHOUT RETURN
140	(8C) ADDRESS	4	IOCRSF	SIOF WITH RETURN
144	(90) ADDRESS	4	IOCNRS	SIO WITHOUT RETURN
148	(94) ADDRESS	4	IOCRS	SIO WITH RETURN
152	(98) ADDRESS	4	IOCPSIO	POST SIO/SIOF
156	(9C) ADDRESS	4	IOCDEFP	DEFER,PREOP ROUTINE
160	(A0) ADDRESS	4	IOCVV	VOLUME VERIFICATION
164	(A4) ADDRESS	4	IOCUNHLD	UNHOLD ROUTINE
168	(A8) ADDRESS	4	IOCEXPST	EXIT,POST ROUTINE
172	(AC) ADDRESS	4	IOCTHLD	TEST HOLD STATUS
176	(B0) ADDRESS	4	IOCMAP	IOSMAP ROUTINE
180	(B4) ADDRESS	4	IOCMCST	CHANNEL SET TABLE ADDR
184	(B8) ADDRESS	4	IOCCONCS	CHS CONNECT RTN ADDR
188	(BC) ADDRESS	4	IOCCRCA	CRCA ADDRESS--MAY BE ZERO IF CRH NO SYS-GENED
192	(C0) ADDRESS	4	IOCDPTH	ADDRESS OF DYNAMIC PATHING MODULE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
196	(C4) ADDRESS	4	IOCLEVL	ADDRESS OF IOSVLEVL
200	(C8) ADDRESS	4	IOCRSUM	ADDR OF RESUME SERVICE ROUTINE
204	(CC) ADDRESS	4	IOCVOID2	ADDR OF VOID EXTENSION
208	(D0) ADDRESS	4	IOCRSTI	ADDRESS OF I/O RESTART ROUTINE
212	(D4) ADDRESS	4	IOCESIO	ADDRESS OF SPECIAL SIO ROUTINE
216	(D8) ADDRESS	4	IOCRDIO	ADDRESS OF REDRIVE I/O SERVICE ROUTINE
220	(DC) ADDRESS	4	IOCBRSV	ADDRESS OF BUILD RESERVE TABLE ROUTINE
224	(E0) ADDRESS	4	IOCRRSV	ADDRESS OF RE-RESERVE ROUTINE
228	(E4) CHARACTER	0	IOCOEND	END OF IOCOM

IOE

Common Name : ASM PART I/O Request Element
Macro ID : ILRIOE
DSECT Name : IOE
Created by : ILRASRIM
Subpool and Key : 245 and key 0
Size : 16 bytes
Pointed to by : ASMIOEPC field of the ASMVT data area
PARTCOMQ field of the PART data area
PARTSPLQ field of the PART data area
PARTDUPQ field of the PART data area
PARTLOCQ field of the PART data area
PARTIOEQ field of the PART data area
PARENODE field of the PART data area
IOENXT field of the IOE data area (next IOE)
Serialization : None
Function : identifies an ASM I/O request which is ready to be processed.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	16	IOE	I/O REQUEST ELEMENT. INDIVIDUAL READ WRITE FORM FIELDS IDENTIFIED BY 'INDIV' IN COMMENT. SORTED READ FORM FIELDS IDENTIFIED BY 'SORT' IN COMMENT.
0	(0) ADDRESS	4	IOENXT	INDIV ADDRESS OF NEXT IOE ON READ/WRITE QUEUE
0	(0) ADDRESS	4	IOENXTLE	SORT LE PATH NODE ADDRESS
4	(4) ADDRESS	4	IOELSIDA	INDIV DIRECT POINTER TO LSID FIELD IN AIA TO BE FILLED IN BY I/O SUBSYSTEM, THIS FIELD ONLY USED FOR DUPLEXED WRITE OPERATION
4	(4) ADDRESS	4	IOENXTGT	SORT GT PATH NODE ADDRESS

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
8	(8) ADDRESS	4	IOEAIA	INDIV/SORT ADDRESS OF AIA ASSOCIATED WITH THIS IOE
12	(C) SIGNED	4	IOEWORK	INDIV WORK AREA USED BY SLOT SORT
12	(C) ADDRESS	4	IOEBKPTR	SORT BACK CHAIN POINTER
16	(10) CHARACTER	0		

IOMB

Common Name : VSAM I/O Management Block
Macro ID : IDAIOMB
DSECT Name : IOMB
Created by : VSAM Open
Subpool and Key : 252, 241, or 231 and key 0
Size : 132 bytes
Pointed to by : PLHDIOB field of the PLH data area
AMBIOBAD field of the AMB data area
Serialization : IOMLOCK serializes EOV processing.
Function : The IOMB is used by I/O management to control its processing of an I/O request. In OS/VS2, the combination of IOMB-IOSB-SRB replaces the IOB, used by the OS/VS I/O supervisor in previous systems to process requests.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	IOMB	
0	(0) SIGNED	4		
0	(0) HEX	4	IOMBID	IOMB IDENTIFIER
4	(4) SIGNED	4	IOMBUFC	POINTER TO THE FIRST BUFC
8	(8) SIGNED	4	IOMCPA	POINTER TO THE FIRST CPA
12	(C) SIGNED	4	IOMPLH	POINTER TO THE PLH
16	(10) SIGNED	4	IOMAMB	POINTER TO THE AMB
20	(14) SIGNED	4	IOMIQE	POINTER TO THE IQE
24	(18) SIGNED	4	IOMECBPT	POINTER TO THE ECB
28	(1C) SIGNED	4	IOMVSL	POINTER TO THE VIRTUAL SUBAREA LIST

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
32	(20) SIGNED	4	IOMPGAD	ADDR OF CALLER TO RECEIVE CONTROL ON COMPLETION OF I/O OPERATION (ZEROED FOR RECORD MANAGEMENT)
36	(24) SIGNED	4	IOMIOSB	POINTER TO THE IOSB
40	(28) HEX	3	IOMFLAGS	INTERNAL FLAGS
40	(28) HEX	2	IOMFL	FLAGS TO BE RESET AFTER I/O
	11..		IOMAPEND	"X'C0'" ABNORMAL END AND NORMAL END ENTERED
	1...		IOMNE	"X'80'" NORMAL END ENTERED
	.1..		IOMAE	"X'40'" ABNORMAL END ENTERED
	..1.		IOMPURGE	"X'20'" PURGE IN PROGRESS
	.... 1...		IOMCBERR	"X'08'" CONTROL BLOCK VALIDITY ERROR
	.... .1..		IOMADERR	"X'04'" ERROR CONVERTING VPL TO IDAL
	.... ..1.		IOMPGFIX	"X'02'" PAGES FIXED
	1		IOMCSW	"X'01'" CSW ADDRESS NOT VALID SECOND BYTE OF IOMFL AND IOMFLAGS
	1...		IOMDDR	"X'80'" DYNAMIC DEVICE RECONFIGURATION
	.1..		IOMCPRB	"X'40'" CALLER IN PROBLEM STATE
	..1.		IOMCML	"X'20'" CROSS-MEMORY LOCK HELD
	...1		IOMIUR	"X'10'" IN UPAD ROUTINE
	.... 1...		IOMEEXIT	"X'08'" END APPENDAGE EXIT BIT
	.... .1..		IOMIRBSW	"X'04'" ASYNCH PROCESSING SCHED
	.... ..1.		IOMIPFX	"X'02'" PGFX IS INVALID FOR XM MODE
	1		IOMUPERR	"X'01'" UPAD ROUTINE DID NOT POST ECB
42	(2A) HEX	1	IOMSTIND	THIRD BYTE OF IOMFLAGS ONE BYTE OF STATUS INDICATORS
	1...		IOMAMUSE	"X'80'" IOMB CURRENTLY IN USE
	.1..		IOMEOVW	"X'40'" EOV WAITING FOR IOMB
	..1.		IOMEOVTS	"X'20'" EOV HAS SET IOMLOCK
	...1		IOMEOVXC	"X'10'" END OF VOLUME INDICATOR
	.... 1...		IOMLLOCK	"X'08'" LOCAL LOCK HELD
	.... .1..		IOMSLOC	"X'04'" SALLOC HELD
	.... ..1.		IOMSRBM	"X'02'" USER IN SRB MODE
	1		IOMSR	"X'01'" SUSPEND/RESUME INDICATOR
43	(2B) HEX	1	IOMCKEY	USER KEY SAVED FOR APPENDAGE USE
44	(2C) HEX	1	IOMPFERR	RETURN CODE FROM PAGEFIX

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
45	(2D) HEX	1	IOMLOCK	END OF VOLUME LOCK
46	(2E) SIGNED	2	IOMNMOD	NUMBER OF MODULES TO BE FIXED
48	(30) SIGNED	2	IOMNBUF	NUMBER OF BUFFERS
50	(32) SIGNED	2	IOMNSEG	NUMBER OF CHANNEL PROGRAM SEGMENTS
52	(34) CHARACTER	64	IOMSAVER	16 WORD SAVE AND WORK AREA
52	(34) SIGNED	4	IOMSAVE0	
56	(38) SIGNED	4	IOMSAVE1	
60	(3C) SIGNED	4	IOMSAVE2	
64	(40) SIGNED	4	IOMSAVE3	
68	(44) SIGNED	4	IOMSAVE4	
72	(48) SIGNED	4	IOMSAVE5	
76	(4C) SIGNED	4	IOMSAVE6	
80	(50) SIGNED	4	IOMSAVE7	
84	(54) SIGNED	4	IOMSAVE8	
88	(58) SIGNED	4	IOMSAVE9	
92	(5C) SIGNED	4	IOMSAVEA	
96	(60) SIGNED	4	IOMSAVEB	
100	(64) SIGNED	4	IOMSAVEC	
104	(68) SIGNED	4	IOMSAVED	
108	(6C) SIGNED	4	IOMSAVEE	
112	(70) SIGNED	4	IOMSAVEF	

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
116	(74) SIGNED	4	IOMNXT1	POINTER TO NEXT IOMB ON CHAIN
120	(78) SIGNED	4	IOMUFLD	USER FIELD-PTR TO IDAIOMBX FOR RM
124	(7C) SIGNED	4	IOMSRBP	ADDRESS OF SUSPENDED RB
128	(80) SIGNED	4	IOMSTCB	TCB FOR SUSPENDED RB
132	(84) HEX	1	IOMSTIN2	STATUS INDICATOR--BYTE TWO
	1...		IOMXMM	"X'80'" CROSS MEMORY MODE
	.1..		IOMSBIT	"X'40'" PSW S-BIT (ON=SECONDARY ADR)
133	(85) HEX	1		RESERVED, UNUSED
134	(86) SIGNED	2	IOMCASID	CURRENT ASID
136	(88) SIGNED	2	IOMPASID	PRIMARY ASID
138	(8A) SIGNED	2	IOMSASID	SECONDARY ASID
140	(8C) SIGNED	4	IOMCASCB	CURRENT ASCB ADDRESS
144	(90) SIGNED	4		RESERVED, UNUSED

IOQ

Common Name : IOS Queue Element
Macro ID : IECDIOQ
DSECT Name : IOQ
Created by : IECIOSCN, IOS
Subpool and Key : 245 and key 0
Size : 20 bytes
Pointed to by : LCHFST field of the LCH data area
UCBIOQ field of the UCB data area
IOQLINK field of the IOQ data area (next IOQ)
Serialization : When pointed to by the LCH: the LCH lock
When pointed to by the UCB: the UCB lock
Function : Provides the queuing element necessary to enqueue and dequeue I/O requests on a logical channel queue table (LCH).

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	IOQ	
0	(0) ADDRESS	4	IOQLNK	LINK FIELD
4	(4) HEX	1	IOQFLA	IOQ FLAG BYTE A
	1...		IOQSLCH	"X'80'" IOQ ASSOC WITH A SENSE LCH
	.1..		IOQENQ	"X'40'" IOQ IS ENQUEUED
	..1.		IOQLBSY	"X'20'" UPDATE LCHLGBSY COUNTER
	...1		IOQCHBSY	"X'10'" UPDATE LCHCHBSY COUNTER
	.... 1...		IOQCUBSY	"X'08'" UPDATE LCHCUBSY COUNTER
	.... .1..		IOQDEBSY	"X'04'" UPDATE LCHDEBSY COUNTER
	.... ..1.		IOQMERGE	"X'02'" OR TOGETHER CE AND DE CSW, FORCE DE POST
	1		IOQPSNS	"X'01'" UNSOL UNIT CK WHILE DEV BUSY
5	(5) HEX	1	IOQFLB	IOQ FLAG BYTE B
	1...		IOQRESV	"X'80'" RESERVE FLAG
	.1..		IOQRLSE	"X'40'" RELEASE FLAG
	..11 11..		IOQALOC	"X'3C'" ALLOCATED IND TO IECVSMGR
	.... ..1.		IOQHOLD	"X'02'" 3330V REQUEST HELD
	1		IOQDCC	"X'01'" DEFERRED COND CODE RECEIVED

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
6	(6) HEX	1	IOQPRI	PRIORITY
7	(7) HEX	1	IOQPTH	CURRENT PATH MASK
8	(8) ADDRESS	4	IOQIOSB	ADDRESS OF IOSB
	.... 11..		IOQL	"*-IOQLNK" LENGTH OF BASIC IOQ
12	(C) HEX	2	IOQASID	ASID IF REQUEST IS ACTIVE
14	(E) HEX	2		RESERVED
16	(10) ADDRESS	4	IOQUCB	LAST ACTIVE UCB FOR PURGE
	...1 .1..		IOQLEN	"*-IOQLNK" TOTAL LENGTH OF IOQ, HOWEVER TO ZERO IOQ, IOQL SHOULD BE USED

IORB

Common Name : I/O Request Block
Macro ID : ILRIORB
DSECT Name : IORB
Created by : ILROPS00
Subpool and Key : 245 and key 0
Size : 48 bytes
Pointed to by : IORIORB field of the IORB data area
PAREIORB field of the PARTE data area
PCCWIORB field of the PCCW data area
SCCWIORB field of the SCCW data area
SREIORB field of the SARTE data area
Serialization : The IORB is serialized via the in-use flag, IORFUSE, which is "on" when the IORB is in use.
Function : Used by ASM to track I/O requests. It contains a pointer to a save area for IOS to use, as well as pointers to other control blocks.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	56	IORB	IORB
0	(0) CHARACTER	1	IORID	IORB IDENTIFIER X'88'
1	(1) UNSIGNED	1	IORNUM	NO. OF IORBS FOR PAGE SPACE
2	(2) CHARACTER	1	IORRSVD	RESERVED
3	(3) BITSTRING	1	IORFLGS	INTERNAL FLAGS
	1...		IORFUSE	X'80' = IORB IN USE
	.1..		IORFRPS	X'40' = RPS DEVICE
	..11			RESERVED
	.... 1...		IORSWAP	SWAP DATA SET FLAG 1 = IORB FOR SWAP DATA SET 0 = IORB FOR PAGE DATA SET
	.... .111		IORAPND	APPENDAGE FLAGS
	.... .1..		IORFDI	DIE COMPLETED
	.... ..1.		IORFNE	NORMAL END COMPLETED FLAG
	1		IORFAE	ABNORMAL END COMPLETED FLAG
4	(4) ADDRESS	4	IORIORB	POINTER TO NEXT IORB

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
8	(8) ADDRESS	4	IORPCCW	POINTER TO FIRST PCCW
8	(8) ADDRESS	4	IORSCCW	POINTER TO FIRST SCCW
12	(C) ADDRESS	4	IORIOSB	IOSB ADDRESS
16	(10) ADDRESS	4	IORSAVE	POINTER TO 18 WORD SAVE AREA
20	(14) ADDRESS	4	IORERR	POINTER TO PCCW IN ERROR
24	(18) CHARACTER	8	IORTSMP	TOD STAMP
32	(20) ADDRESS	4	IORPARTE	POINTER TO PARTE
36	(24) SIGNED	4	IORTREQ	NUMBER OF PAGES TRANSFERRED USING THIS IORB
40	(28) SIGNED	4	IORSION	NUMBER OF START I/O'S AND RESUME I/O'S ISSUED USING THIS IORB
44	(2C) ADDRESS	4	IORNOP	POINTER TO THE LAST CCW IN THE CHANNEL PROGRAM
48	(30) ADDRESS	4	IORSRBP	POINTER TO THE SRB USED BY THE RESUME SERVICE
52	(34) SIGNED	4	IORRQSZ	NUMBER OF AIAS ON THIS IORB
56	(38) CHARACTER	0		

IOSB

Common Name : IOS (I/O Supervisor) Block
Macro ID : IECDIOSB
DSECT Name : IOSB
Created by : IOSDRIVERS
Subpool and Key : Any
Size : 108 bytes
Pointed to by : IOQIOSB field of the IOQ data area
RQESRB field of the RQE data area
SRBPARM field of the SRB data area
Serialization : None
Function : The IOSB is used by the OS/VS2 I/O supervisor to initiate and terminate an I/O operation. It is used to communicate between the I/O supervisor and the requestor of an I/O service, between the I/O supervisor and an error-recovery procedure, between an ERP and write-to-operator and statistics-update modules, and among the components of the I/O supervisor. It is also used to control successive entries from the I/O supervisor to an ERP.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	IOSB	
0	(0) SIGNED	4		
0	(0) HEX	1	IOSFLA	FLAG BYTE A

BIT DEFINITIONS FOR IOSFLA

EQU	X'00'		NO CCW CHAINING
1...		IOSDCHN	"X'80'" DATA CHAINING
.1..		IOSCCHN	"X'40'" COMMAND CHAINING
11..		IOSACHN	"X'C0'" COMMAND AND DATA CHAINING
..1.		IOSERR	"X'20'" ERROR ROUTINE IN CONTROL MUST BE SET TO ZERO BY DRIVER IF ERP RETURNS WITH THIS BIT ON, A RETRY IS ASSUMED. IF

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				ERP RETURNS WITH THIS BIT OFF, THE ERROR IS CONSIDERED PERMANENT OR CORRECTED
	...1		IOSSMDA	"X'10'" ERP STATUS MODIFIER BIT A MUST BE SET TO ZERO BY DRIVER TAPE REPOSITION DEVICE 1052 IMMEDIATE OPERATION, CCW OP CODE IN IOSMDB
	.... 1...		IOSSMDB	"X'08'" ERP STATUS MODIFIER BIT B MUST BE SET TO ZERO BY DRIVER SET BY PCI FETCH IN APPENDAGE FOR POSTING TAPE CRC NEEDED DASD PCI FETCH STOP FLAG
	.... .1..		IOSEX	"X'04'" EXCEPTIONAL CONDITION. UPON RETURN FROM NORMAL OR ABNORMAL EXIT WITH THIS BIT ON, ERP PRO- CESSING IS INITIATED IF INITIAL ERROR CONDITION. IF BIT IS OFF, IT IS ASSUMED THAT THE EXIT CORRECTED THE CONDITION OR DID NOT CONSIDER IT AN ERROR. WHEN THE ERROR ROUTINE RETURNS WITH THIS BIT ON AND IOSERR OFF, THE ERROR IS CONSIDERED PERMANENT. WHEN THE ERP RETURNS WITH BOTH BITS OFF, THE ERROR HAS BEEN CORRECTED.
	.... ..1.		IOSDOM	"X'02'" DOM MACRO REQUIRED
	1		IOSIOSB	"X'01'" IOSB CREATED BY I/O SUPERVISOR MUST BE SET TO ZERO BY DRIVER
1	(1) HEX	1	IOSFLB	FLAG BYTE B

BIT DEFINITIONS FOR IOSFLB

1...	IOSDIESE	"X'80'" SECOND ENTRY TO DIE
.1..	IOSSDR	"X'40'" ERP DOESNT WANT OBR
..1.	IOSNOTRS	"X'20'" DRIVER WANTS NO TRAS ON ENTRY TO DIE.
...1	IOSFLB3	"X'10'" RESERVED
.... 1...	IOSIONRD	"X'08'" SET BY THE IOS DRIVER TO INDICATE THAT I/O TO NOT READY DEVICES SHOULD BE ALLOWED
.... .1..	IOSMSG	"X'04'" MESSAGE INDICATOR 0 = INTERVENTION REQUIRED MSG 1 = I/O ERROR MESSAGE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	.... ..1.		IOSBDCST	"X'02'" BROADCAST BIT
	1		IOSLOG	"X'01'" CREATE AN OBR RECORD
2	(2) HEX	1	IOSFLC	DEVICE DEPENDENT ERP FLAGS

BIT DEFINITIONS FOR IOSFLC

1...		IOSDVMNT	"X'80'" DAVV ISSUED MOUNT
.1..		IOSDVALT	"X'40'" ALTERNATE TRACK PROCESSING BY DAVV (DA)
.1..		IOSVERIF	"X'40'" UNSOLICITED DEVICE END VERIFICATION NEEDED (NON-DA)
..1.		IOSCC3WE	"X'20'" GDP REQ'RS CC3 POST OF X6D
...1		IOSTP	"X'10'" NO SPECIAL CC3 HANDLING TOBEFLGED
.... 11..		IOSRWAIT	"X'0C'" RESTARTABLE WAIT REASON
....		IOSRWVID	"X'00'" 00--WRONG VOL ID
.... .1..		IOSRWIR	"X'04'" 01--INTERVENTION REQUIRED
.... 1...		IOSRWCC3	"X'08'" 10--CONDITION CODE 3
.... 11..		IOSRWERR	"X'0C'" 11--READ ERROR FOR LABEL
.... ..1.		IOSCTCNR	"X'02'" CTC NO RETRY ALLOWED
....1		IOSFLC7	"X'01'" RESERVED
3	(3) HEX	1	IOSPROC	THIS BYTE INDICATES WHAT TYPE OF SPECIAL PROCESSING IS TO BE PERFORMED BY IOS COM- PONENTS OPERATING ASYNCHRON- OUS TO MAINLINE MUST BE SET TO ZERO BY DRIVER

SPECIAL PROCESSING INDEXES ASSIGNED TO IOSPROC

EQU	X'00'	RESERVED

.... .1..		IOSAPCI	"X'04'" PCI
.... 1...		IOSATTN	"X'08'" ATTENTION
.... 11..		IOSAPURG	"X'0C'" PURGE
...1		IOSADAVV	"X'10'" DAVV
...1 .1..		IOSAWTO	"X'14'" WTO
...1 1...		IOSADDR	"X'18'" DDR
...1 11..		IOSACRH	"X'1C'" CHANNEL RECONFIGURATION HARD

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				Y3OCQLG
	..1.		IOSAUR	"X'20'" UNCONDITIONAL RESERVE
4	(4) HEX	1	IOSDVRID	DRIVER IDENTIFICATION VALUE
	....		IOSIOSID	"X'00'" RESERVED FOR IOS
	1		IOSMISID	"X'01'" MISCELLANEOUS ID FOR I/O REQUESTS THAT CANNOT BE PURGED, ASSOCIATED WITH A TASK, OR VIOLATE EXTENTS
	.... ..1.		IOSXCPID	"X'02'" EXCP
	11		IOSVSAID	"X'03'" VSAM
	.... .1..		IOSATMID	"X'04'" VTAM
	.... .1.1		IOSTCMID	"X'05'" TCAM
	.... .11.		IOSOLTID	"X'06'" OLTEP
	.... .111		IOSFCHID	"X'07'" PCI FETCH
	.... 1...		IOSJESID	"X'08'" JES3
	.... 1..1		IOSSSIID	"X'09'" SSI/DSM
	.... 1.1.		IOSPRGID	"X'0A'" IECVIOPM PURGE
	.... 1.11		IOSVPSID	"X'0B'" VPSS
EQU X'0C'			CRYPTO	
	.... 111.		IOSASMID	"X'0E'" ASM DRIVER ID
	 1111		IOSMDSID	"X'0F'" MESSAGE DISPLAY SERVICE
	...1		IOSAUSID	"X'10'" ASSIGN/UNASSIGN SERVICE
5	(5) HEX	1	IOSPRLVL	THE PRIOITY LEVEL AT WHICH THE ADDRESS SPACE IS TO BE SCHED- ULED, 0 OR 4
NOTE: SETTING THE PRIORITY LEVEL HAS NO EFFECT				
5	(5) HEX	1	IOSFLD	FLAG BYTE D OVERLAY FOR PRIORITY LEVEL
	1...		IOSNOINT	"X'80'" DO NOT GIVE PREVIOUS INTERCEPT CONDITION TO THIS I/O REQUEST THE INTERCEPT CONDITION IS TO BE SAVED FOR THE NEXT I/O

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
EQU	X'40'		RESERVED	
EQU	X'20'		RESERVED	
EQU	X'10'		RESERVED	
EQU	X'0F'		RESERVED FOR PRIORITY LEVEL	
6	(6) SIGNED	2	IOSASID	ADDRESS SPACE IDENTIFICATION OF ADDRESS SPACE TO BE SCHEDULED AT TERMINATION OF I/O REQUEST
8	(8) ADDRESS	4	IOSPGAD	PROGRAM ADDRESS TO BE DISPATCHED
12	(C) HEX	1	IOSPKEY	PROTECT KEY OF IOSPGAD
EQU	X'F0'		PROTECT KEY	
	.... 1...		IOSLCL	"X'08'" ASID SCHEDULE AT LOCAL LEVEL
	.... .1..		IOSIDR	"X'04'" ASYNCHRONOUS ERP SCHEDULING SHOULD BE USED FOR THIS REQUEST (INDIRECT RECORDING FOR PAGING I/O).
	.... ..1.		IOSPGDPX	"X'02'" THIS REQUEST HAS A BACKED UP COPY (DUPLEXED PAGE).
	1		IOSCHCMP	"X'01'" DRIVER HAS A COMPLETE CHANNEL PROGRAM, IOS MUST NOT BUILD STANDARD PREFIX.
13	(D) HEX	1	IOSCOD	I/O COMPLETION CODE USED AS TEMPORARY SAVE FOR SYSTEM MASK BY CHAN. SCHEDLR.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
COMPLETION CODES 41 - 5F ARE RESERVED FOR PERMANENT ERROR CONDITIONS. THESE CODES WILL ALWAYS BE LAST ENTRY CODES TO ABNORMAL EXITS. COMPLETIONS CODES 60 - 73 ARE RESERVED FOR IOS USE. COMPLETION CODES 74 - 7E DENOTE ABNORMAL CONDITIONS FOR WHICH CORRECTION MAY BE POSSIBLE. THESE CODES DENOTE FIRST ENTRY TO ABNORMAL EXITS. COMPLETION CODE DEFINITION				
.111 ...1			IOSFTCHC	"X'71'" HARDWARE CORRECTED DATA CHECK FOR FETCH
.111 .1..			IOSMIHC	"X'74'" THE I/O REQUEST HAS BEEN ROUTED TO I/O RESTART BY CCH, ALTERNATE CPU RECOVERY, OR MISSING INTERRUPT HANDLER FOR PROCESSING.
.111 111.			IOSFINTC	"X'7E'" INTERCEPT CONDITION BEFORE ENTRANCE TO ERROR ROUTINE
.111 1111			IOSNRMC	"X'7F'" NORMAL COMPLETION
.11. 11.1			IOSGDPWE	"X'6D'" POST STATUS GOTO ABE & ERP
.1.. ...1			IOSERRC	"X'41'" PERMANENT I/O ERROR
.1.. ..1.			IOSEXTC	"X'42'" EXTENT ERROR
.1.. ..11			IOSDPXC	"X'43'" DUPLEXED I/O REQUEST WAS NOT STARTED BECAUSE OF A QUIESCED OR NOT READY DEVICE
.1.. .1..			IOSINTC	"X'44'" REQUEST WAS INTERCEPTED BECAUSE A PERMANENT ERROR OCCUR- RED THE LAST TIME THE DEVICE WAS USED.
.1.. .1.1			IOSABNC	"X'45'" I/O REQUEST ABNORMALLY TERMINATED BECAUSE OF PROGRAM CHECK MACHINE CHECK, ETC. IN IOS OR APPENDAGE
.1.. .11.			IOSCD46	"X'46'" RESERVED
.1.. .111			IOSCD47	"X'47'" RESERVED
.1.. 1...			IOSPRGC	"X'48'" PURGED REQUEST
.1.. 1..1			IOSCD49	"X'49'" RESERVED
.1.. 1.11			IOSTAPEC	"X'4B'" ERROR IN TAPE REPOSITIONING
.1.. 11..			IOSIVEXP	"X'4C'" INVALID EXPOSURE NUMBER

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	.1.. 11.1		IOSGDPCC	"X'4D'" CC=3 GDP OR NIP IN CONTROL
	.1.. 111.		IOSGDPRD	"X'4E'" GDP RESERVED DEVICE OR IN CONJUNCTION WITH IOSRELSE, DEVICE CANNOT BE RELEASED.
	.1.. 1111		IOSGDPCO	"X'4F'" GDP CPU OFFLINE
	.1.1		IOSCD50	"X'50'" RESERVED
	.1.1 ...1		IOSMIHCA	"X'51'" THE I/O REQUEST HAS BEEN DECLARED IN PERMANENT ERROR AFTER ERP PROCESSING AND I/O RESTART
14	(E) HEX	1	IOSOPT	OPTIONS BYTE
	BIT DEFINITIONS FOR IOSOPT			
	1...		IOSBYP	"X'80'" BYPASS IOS CHANNEL PRGM PREFIX
	.1..		IOSDEP	"X'40'" DEVICE END POSTING REQUESTED
	..1.		IOSQISCE	"X'20'" THIS REQUEST INITIATED BY FUNCTION WHICH HAS QUISCED THE DEVICE
	...1		IOSPSLL	"X'10'" ON = LOCAL LOCK NOT WANTED FOR POST STATUS PROCESSING OFF = LOCAL LOCK WANTED
	.... 1...		IOSNERP	"X'08'" IBM ERPS NOT TO BE USED
	.... .1..		IOSTSLL	"X'04'" ON = LOCAL LOCK NOT WANTED BY TERMINATION ROUTINE OFF = LOCAL LOCK WANTED BY TERMINATION ROUTINE IF IOSPSLL IS ALSO OFF
	.... ..1.		IOSAPR	"X'02'" ALTERNATE PATH RETRY ACTIVE MUST BE SET TO ZERO BY DRIVER
	1		IOSRELSE	"X'01'" STAND ALONE RELEASE CCW ISSUED BY IOS
15	(F) HEX	1	IOSOPT2	SECOND OPTION BYTE
	BIT DEFINITIONS FOR IOSOPT2			
	1...		IOSHTP	"X'80'" ELIGIBLE FOR SHOULDER TAP
	.1..		IOSIGP	"X'40'" ELIGIBLE FOR SIGP

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	..1.		IOSCHMSK	"X'20'" UPDATE IRTCHMSK, DON'T SIGP
	...1 1111		IOSOPT2X	"X'1F'" RESERVED BITS
16	(10) ADDRESS	4	IOSUCB	UNIT CONTROL BLOCK ADDRESS
20	(14) HEX	1	IOSCC	SIO CONDITION CODE
	..11		IOSCC3	"X'30'" CONDITION CODE 3
	..1.		IOSCC2	"X'20'" CONDITION CODE 2
	...1		IOSCC1	"X'10'" CONDITION CODE 1
	....		IOSCC0	"X'00'" CONDITION CODE 0
21	(15) HEX	7	IOSCSW	LOW ORDER 7 BYTES OF CSW
21	(15) ADDRESS	3	IOSCSWCA	COMMAND ADDRESS
24	(18) HEX	2	IOSTATUS	CSW STATUS BYTES
24	(18) HEX	1	IOSTSA	DEVICE STATUS BYTE OF CSW
25	(19) HEX	1	IOSTSB	CHANNEL STATUS BYTE
26	(1A) HEX	2	IOSCSWRC	RESIDUAL COUNT
28	(1C) ADDRESS	4	IOSSRB	BACK POINTER TO SRB
32	(20) ADDRESS	4	IOSUSE	USER FIELD
36	(24) ADDRESS	4	IOSRES4A	RESERVED
40	(28) HEX	2	IOSAPMSK	EXCLUSIVE PATH MASK FOR APR MUST BE SET TO ZERO BY DRIVER
42	(2A) SIGNED	2	IOSSNS	SENSE DATA
			IOSSNSBD	"X'10FE'" VALUE SUPPLIED FOR UNSUCCESS-FUL SENSE
	..1. 11..		IOSSECT	"x" END OF COMMON SECTION AND START OF PROCESSING DEPENDNT SECTIONS WHICH ARE: NORMAL I/O REQUEST, WTO, AND PCI SCHED-ULING.
44	(2C) ADDRESS	4	IOSIPIB	IOS/PURGE INTERFACE BLK ADDRESS MUST BE SET TO ZERO UPON IN- ITIAL ENTRY AND NOT TO BE RESET BY EXITS. OR, CHAIN PTR FOR PCI SRB/IOSBS

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
48	(30) ADDRESS	4	IOSPCHN	PTR TO ENDING STATUS IOSB FOR PCI SRB/IOSBS PTR TO FIRST PCI SRB/IOSB FOR ENDING STATUS IOSB
52	(34) ADDRESS	4	IOSERP	ERP DYNAMIC WORKAREA ADDRESS MUST BE SET TO ZERO BY DRIVER
56	(38) ADDRESS	4	IOSPCI	PCI EXIT ADDRESS
60	(3C) ADDRESS	4	IOSNRM	NORMAL EXIT ADDRESS
64	(40) ADDRESS	4	IOSABN	ABNORMAL EXIT ADDRESS
68	(44) ADDRESS	4	IOSDIE	DISABLED INTERRUPT EXIT ADDRESS
72	(48) ADDRESS	4	IOSRST	REAL ADDRESS OF REAL CHANNEL PROGRAM
76	(4C) ADDRESS	4	IOSVST	VIRTUAL ADDR OF REAL CHNNL PROG
80	(50) ADDRESS	4	IOSDSID	DATA SET IDENTIFIER FOR PURGE
84	(54) HEX	1	IOSRSS1B	RESERVED
85	(55) HEX	1	IOSAFF	CPU AFFINITY INDICATOR FOR GUARANTEED DEVICE PATH
86	(56) HEX	2	IOSPATH	PATH SPECIFICATION FOR GUAR- ANTEED DEVICE PATH OR SPE- CIFIC EXPOSURE REQUESTED
86	(56) HEX	1	IOSCHN	
	1...		IOSGDP	"X'80'" GUARANTEED DEVICE PATH
	.1..		IOSEXP	"X'40'" SPECIFIC EXPOSURE REQUESTED
	..1.		IOSPATH2	"X'20'" RESERVED
	...1		IOSPATH3	"X'10'" RESERVED
EQU	X'0F'		CHANNEL NUMBER	
87	(57) HEX	1	IOSCUDEV	CONTROL UNIT/DEVICE ADDRESS
	1111		IOSCU	"X'F0'" CONTROL UNIT
	 1111		IOSDEV	"X'0F'" DEVICE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
88	(58) HEX	1	IOSFMSK	MODE SET/FILE MASK
89	(59) HEX	1	IOSCKEY	PROTECT KEY OF CHANNEL PROGRAM
EQU	X'F0'		PROTECT KEY	
	.... 1...		IOSS	"X'08'" REQUEST HAS SUSPEND CAPABILITY
	.... .1..		IOSCKEY5	"X'04'" RESERVED FOR ARCHITECTURE
	.... ..1.		IOSCKEY6	"X'02'" RESERVED FOR ARCHITECTURE
	1		IOSCKEY7	"X'01'" RESERVED FOR ARCHITECTURE
90	(5A) HEX	1	IOSMDB	ERP IMMEDIATE CCW OP CODE
91	(5B) HEX	1	IOSMDM	ERP MODIFIER MASK
92	(5C) CHARACTER	8	IOSEEK	STATIC SEEK ADDRESS
100	(64) CHARACTER	8	IOSEEKA	DYNAMIC SEEK ADDRESS
100	(64) HEX	1	IOSSKM	M
101	(65) HEX	2	IOSSKBB	BB
103	(67) HEX	2	IOSSKCC	CC
105	(69) HEX	2	IOSSKHH	HH
105	(69) HEX	1	IOSSKH1	H
106	(6A) HEX	1	IOSSKH2	H
107	(6B) HEX	1	IOSSKR	R
	.11. 11..		IOSEND	"*" END OF IOSB
44	(2C) HEX	24	IOSATTSN	ADDITIONAL SENSE IF ANY
68	(44) HEX	16		ADDITIONAL SENSE IF ANY
84	(54) HEX	24	IOSATTWA	ATTN ROUTINE WORK AREA
	..1. 11..		IOSWTOWA	"*" WTO WORK AREA
44	(2C) HEX	2	IOSWTOCH	ADDR CC=3 OCCURRED ON
46	(2E) HEX	1	IOSWTOCP	CPU CC=3 OCCURRED ON
47	(2F) HEX	1	IOSWTOPT	PATH INDICATOR FOR CC=3
48	(30) HEX	60	IOSWRMDR	REMAINDER OF WTO WORK AREA

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
44	(2C) ADDRESS	4		SAME AS IOSIPIB. MUST NOT BE CHANGED
48	(30) ADDRESS	4		SAME AS IOSPCHN. MUST NOT BE CHANGED
52	(34) HEX	32	IOSPCIRS	PCI RESERVED AREA
84	(54) HEX	1	IOSPCIWA	PCI WORK AREA

CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
IOSABN	40		IOSCKEY7	59	01	IOSGDPCO	D	4F
IOSABNC	D	45	IOSCOD	D		IOSGDPRD	D	4E
IOSACHN	0	C0	IOSCSW	15		IOSGDPWE	D	6D
IOSACRH	3	1C	IOSCSWCA	15		IOSHTP	F	80
IOSADAVV	3	10	IOSCSWRC	1A		IOSIDR	C	04
IOSADDR	3	18	IOSCTCNR	2	02	IOSIGP	F	40
IOSAFF	55		IOSCU	57	F0	IOSINTC	D	44
IOSAPCI	3	04	IOSCUDEV	57		IOSIONRD	1	08
IOSAPMSK	28		IOSDCHN	0	80	IOSIOSB	0	01
IOSAPR	E	02	IOSDEP	E	40	IOSIOSID	4	00
IOSAPURG	3	0C	IOSDEV	57	0F	IOSIPIB	2C	
IOSASID	6		IOSDIE	44		IOSIVEXP	D	4C
IOSASMID	4	0E	IOSDIESE	1	80	IOSJESID	4	08
IOSATMID	4	04	IOSDOM	0	02	IOSLCL	C	08
IOSATTN	3	08	IOSDPXC	D	43	IOSLOG	1	01
IOSATTSN	2C		IOSDSID	50		IOSMDB	5A	
IOSATTWA	54		IOSDVALT	2	40	IOSMDM	5B	
IOSAUP	3	2?	IOSDVMNT	2	80	IOSMDSID	4	0F
IOSAUSID	4	10	IOSDVRID	4		IOSMIHC	D	74
IOSAWTO	3	14	IOSEEK	5C		IOSMIHCA	D	51
IOSB	0		IOSEEKA	64		IOSMISID	4	01
IOSBDCST	1	02	IOSEND	6B	6C	IOSMSG	1	04
IOSBYP	E	80	IOSERP	34		IOSNERP	E	08
IOSCC	14		IOSERR	0	20	IOSNOINT	5	80
IOSCCHN	0	40	IOSERRC	D	41	IOSNOTRS	1	20
IOSCC0	14	00	IOSEX	0	04	IOSNRM	3C	
IOSCC1	14	10	IOSEXP	56	40	IOSNRMC	D	7F
IOSCC2	14	20	IOSEXTC	D	42	IOSOLTID	4	06
IOSCC3	14	30	IOSFCHID	4	07	IOSOPT	E	
IOSCC3WE	2	20	IOSFINTC	D	7E	IOSOPT2	F	
IOSCD46	D	46	IOSFLA	0		IOSOPT2X	F	1F
IOSCD47	D	47	IOSFLB	1		IOSPATH	56	
IOSCD49	D	49	IOSFLB3	1	10	IOSPATH2	56	20
IOSCD50	D	50	IOSFLC	2		IOSPATH3	56	10
IOSCHCMP	C	01	IOSFLC7	2	01	IOSPCHN	30	
IOSCHMSK	F	20	IOSFLD	5		IOSPCI	38	
IOSCHN	56		IOSFMSK	58		IOSPCIRS	34	
IOSCKEY	59		IOSFTCHC	D	71	IOSPCIWA	54	
IOSCKEY5	59	04	IOSGDP	56	80	IOSPGAD	8	
IOSCKEY6	59	02	IOSGDPCC	D	4D	IOSPGDPX	C	02

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
IOSPKEY	C		IOSSDR	1	40	IOSTCMID	4	05
IOSPRGC	D	48	IOSSECT	2A	2C	IOSTP	2	10
IOSPRGID	4	0A	IOSSKBB	65		IOSTSA	18	
IOSPRLVL	5		IOSSKCC	67		IOSTSB	19	
IOSPROC	3		IOSSKHH	69		IOSTSLL	E	04
IOSPSLL	E	10	IOSSKH1	69		IOSUCB	10	
IOSQISCE	E	20	IOSSKH2	6A		IOSUSE	20	
IOSRELSE	E	01	IOSSKM	64		IOSVERIF	2	40
IOSRES4A	24		IOSSKR	6B		IOSVPSID	4	0B
IOSRSS1B	54		IOSSMDA	0	10	IOSVSAID	4	03
IOSRST	48		IOSSMDB	0	08	IOSVST	4C	
IOSRWAIT	2	0C	IOSSNS	2A		IOSWRMDR	30	
IOSRWCC3	2	08	IOSSNSBD	2A	10FE	IOSWTOCH	2C	
IOSRWERR	2	0C	IOSSRB	1C		IOSWTOCP	2E	
IOSRWIR	2	04	IOSSS1ID	4	09	IOSWTOPT	2F	
IOSRWVID	2	00	IOSTAPEC	D	4B	IOSWTOWA	54	2C
IOSS	59	08	IOSTATUS	18		IOSXCPID	4	02

IPIB

Common Name : IOS (I/O Supervisor) Purge Interface Block
Macro ID : IECDIPIB
DSECT Name : IPIB
Created by : IGC0001F, IOS
Subpool and Key : 245 and key 0
Size : 40 bytes
Pointed to by : ASCBIOSP field of the ASCB data area.
Serialization : The IPIBCNT field is serialized by the Compare and Swap instruction. The IPIBPSQ field is serialized by the IOSYNC4 lock.
Function : Used to maintain all the information needed for communication between IOS module, IECIOSCN, the nonresident purge module,IGC0001F, and the IOS drivers.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	IPIB	
0	(0) HEX	1	IPIBOPT	OPTIONS NEEDED BY DRIVERS FOR CHANNEL SCHEDULER WHEN PURGING THEIR QUEUES.
	1...		IPIBMEM	"X'80'" ASID PURGE WAS SPECIFIED
	.1..		IPIBTASK	"X'40'" TCB PURGE WAS SPECIFIED IF ASID PURGE WAS NOT SPECIFIED
	..1.		IPIBRBP	"X'20'" RB PURGE SPECIFIED
	...1		IPIBPOST	"X'10'" POST THE ECBS RELATED TO THE I/O REQUESTS THAT ARE PURGED
	.... 1...		IPIBREL	"X'08'" PURGE ONLY REQUESTS THAT ARE MARKED RELATED
	.... .1..		IPIBHALT	"X'04'" HALT I/O REQUESTS DO NOT BUILD A CHAIN FOR RESTORE
	.... ..1.		IPIBOTCB	"X'02'" PURGE SO THAT I/O REQUESTS MAY BE RESTORED TO THE ORIGINATING TCB
1	(1) HEX	1	IPIBDVID	DRIVER ID FOR DSID PURGE DCRR 21082 DEFAULT VALUE OF X'00' DCRR 21082 IMPLIES EXCP DCRR 21082
2	(2) HEX	1	IPIBFLG1	FLAG BYTE
	1...		IPIBDQ	"X'80'" INDICATES PURGEDQ ISSUED BY IGC0001F
	.1..		IPIBTIME	"X'40'" INDICATOR TO SHOW THAT QUIESCE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	..1.		IPIBPBUV	IS BEING TIMED. "X'20'" INDICATOR TO SHOW THAT PURGE BY UCB VALIDITY CHECK DONE.
3	(3) HEX	1		RESERVED
4	(4) ADDRESS	4	IPIBCNT	COUNT OF I/O REQUESTS TO BE COMPLETED. DECREMENTED BY IOS DRIVERS WHEN I/O EVENT COMPLETES
8	(8) ADDRESS	4	IPIBECB	ECB TO BE POSTED WHEN IPIBCNT GOES TO ZERO. PURGE WAITS ON THIS ECB WHEN THE COUNT IS ESTABLISHED.
12	(C) ADDRESS	4	IPIBARG	PURGE ARGUMENT. IF ASID PURGE, THE RIGHT TWO BYTES CONTAIN THE ASID OF THE ASID BEING PURGED AND THE LEFT TWO BYTES CONTAIN THE SIGN BIT OF THE ASID. IF TCB PURGE, THEN THE TCB ADDRESS. IF DSID PURGE, THEN THE DSID ADDRESS.
16	(10) ADDRESS	4	IPIBSRB	POINTER TO FIRST SRB ON CHAIN OF SRBS THAT HAVE BEEN COL- LECTED FOR RETURN TO THE APPROPRIATE DRIVER OF THE CHANNEL SCHEDULER.
20	(14) ADDRESS	4	IPIBIO	POINTER TO I/O REQUEST CHAIN RETURNED TO PURGE FOR PLACE- MENT ON THE PIRL.
24	(18) ADDRESS	4	IPIBDVRU	POINTER TO ADDITIONAL INFOR- MATION THE DRIVER MAINTAINS INSURE TO THE PROPER RESTOR- ATION OF ITS QUEUE OF I/O REQUESTS (E.G.PROTECT KEYS TCB ADDRESSES ETC)
28	(1C) ADDRESS	4	IPIBPIRL	POINTER TO PIRL FOR THIS PURGE REQUEST.
32	(20) ADDRESS	4	IPIBPSQ	POINTER TO CHAIN OF I/O RE- QUESTS INVOLVED WITH THIS PURGE FOUND BY ROUTINES RUN- NING ASYNCHRONOUSLY WITH THE PURGE ROUTINE (E.G. THE IN- TERRUPT HANDLER).

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
36	(24) ADDRESS	4	IPIBLNK	MAY BE A MAX OF 2 IPIBS/ASID IF SO, THIS POINTS TO 2ND IPIB WHICH MUST BE A HALT OR = 0
40	(28) ADDRESS	4	IPIBASCB	ASCB ADDRESS FOR MEMORY IN WHICH PURGE WAS ISSUED
44	(2C) CHARACTER	4	IPIBIPIB	CONTROL BLOCK ACRONYM IN EBCDIC.
48	(30) HEX	4	IPIBPASS	IPIB PASS COUNT.
52	(34) ADDRESS	4	IPIBARG2	IF A PURGE BY UCB FUNCTION CONTAINS THE UCB ADDRESS AS SECOND ARGUMENT ON DRIVER CALL.

IQE

Common Name : Interruption Queue Element
Macro ID : IHAIQE
DSECT Name : IQE
Created by : Caller of stage 2 exit effector
Subpool and Key : User subpool and key
Size : 24 bytes
Pointed to by : ASXBFIQE field of the ASXB data area
ASXBLIQE field of the ASXB data area
IQELINK field of the IQE data area
RBIQE field of the IRB data area (first IQE)
TAXELNK field of the TAXE data area (next IQE)
TAXEIQE field of the TAXE data area (next available IQE)
TCBIQE field of the TCB data area (EXTR scheduling IQE)
Serialization : LOCAL lock
Function : Represents request to schedule an asynchronous exit routine via an IRB.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	IQESECT	, IQEPTR
0	(0) ADDRESS	4	IQELNK	WORD REFERENCE FOR IQELNKA
0	(0) BITSTRING	1	IQESTAT1	1 BYTE RESERVED
1	(1) ADDRESS	3	IQELNKA	ADDR NEXT IQE
4	(4) ADDRESS	4	IQEPARAM	PARMS TO BE PASSED TO ASYN EXIT RTN
8	(8) ADDRESS	4	IQEIRB	WORD REFERENCE FOR IQEIRBA
8	(8) BITSTRING	1	IQEFLAGS	FLAG FIELD
	1...		IQEPURGE	"X'80'" THIS IQE MUST NOT BE SCHEDULED
9	(9) ADDRESS	3	IQEIRBA	ADDR IRB TO BE SCHEDULED
12	(C) ADDRESS	4	IQETCB	WORD REFERENCE FOR IQETCBA
12	(C) BITSTRING	1	IQESTAT2	1 BYTE RESERVED
13	(D) ADDRESS	3	IQETCBA	ADDR TCB ASSOCIATED WITH THIS IQE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	THE FOLLOWING IS IN BEHALF OF S.M.F.			
16	(10) ADDRESS	4	IQEDCB	ADDR OF DCB
20	(14) ADDRESS	4	IQEOUTLM	ADDR OF OUTPUT LIMIT
24	(18) CHARACTER ...1 1...	1	IQEEND IQELEN	END OF IQE "IQEEND-IQESECT".LENGTH OF IQE

IRT

Common Name : IOS (I/O Supervisor) Recovery Table
Macro ID : IECDIRT
DSECT Name : None
Created by : IEAVNIP0, NIP
Subpool and Key : 245 and key 0
Size : 128 bytes/processor
Pointed to by : Contained within LCCA at LCCAIRT
Serialization : Disablement, one IRT per processor
Function : Contains tracking information pertaining to the status of an I/O operation and its established environment as it is processed by the subroutines of the I/O Supervisor's main module IECIOSCN. Shows what the I/O supervisor is doing: what IOS routine, if any, is active in the processor, and in some cases, what IOS routine gave it control; what locks are held; the addresses of data areas currently locked. Also, used by IOS routines to save the return addresses of calling routines.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) FLOATING	8	IRT	
				THIS MACRO DSECT DESCRIBES THE IOS RECOVERY TABLE. THE TABLE IS RELATED TO A CPU AND IS LOCATED IN THE LCCA. THIS MACRO HAS BEEN CHANGED TO SUPPORT THE 3380 DPS REQUEST TO BYPASS U/R DETECTION.
	....		IRTENTRY	"*"
0	(0) HEX	1	IRTFLA	FLAG BYTE A
	1...		IRTULCK	"X'80'" UCB LOCK HELD
	.1..		IRTLLCK	"X'40'" LCH LOCK HELD
	..1.		IRTSLCK	"X'20'" SYNCH LOCK HELD
	...1		IRTCLCK	"X'10'" CAT LOCK HELD
	.... 1...		IRTALCK	"X'08'" SALLOC LOCK HLED
	.... .1..		IRTIOQA	"X'04'" AN IOQ IS ACTIVE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	.... ..1.		IRTSLISN	"X'02'" RECOVERY SENSE INDICATOR
	1		IRTSSIGP	"X'01'" SHLDR TAP NEEDED FOR SENSE
1	(1) HEX	1	IRTFLB	FLAG BYTE B
	1...		IRTNRST	"X'80'" SUPPRESS RESTART OF CURRENT CHANNEL
	.1..		IRTTRACE	"X'40'" REQUEST HAS BEEN TRACED
	..1.		IRTPCISW	"X'20'" FIRST PASS OF PCI
	...1		IRTCHBSY	"X'10'" ALL CHANNELS BUSY
	.... 1...		IRTSMGR	"X'08'" STORAGE MANAGER ENTERED
	.... .1..		IRT12GT	"X'04'" STORAGE MNGR SMALL BLK GET
	.... ..1.		IRTCCHWA	"X'02'" SET IF CCH GETS EWA
	1		IRTATSNS	"X'01'" SENSE CALLED ATTN ROUTINE
2	(2) HEX	1	IRTENVR	ENVIRONMENT FLAGS
	1...		IRTCHENT	"X'80'" CHAN SCHED ENTRANCE
	.1..		IRTSLIHA	"X'40'" I/O INT HNDLR ENTRANCE
	..1.		IRTSHTP	"X'20'" SHOULDER TAP ENTRANCE
	...1		IRTCRHIN	"X'10'" CRH INTERRUPT ON DEAD CPU
	.... 1...		IRTRSTI	"X'08'" I/O RESTART IN PROGRESS
	.... .1..		IRTHIO	"X'04'" HIO IN PROCESS
	.... ..1.		IRTPINT	"X'02'" I/O RESTART PSEUDO INTERRUPT
	1		IRTCSINT	"X'01'" CHANNEL SCHEDULER ENTRANCE INITIALIZATION COMPLETE
3	(3) HEX	1	IRTFRREX	FRR EXIT FLAGS
	1...		IRTSENEX	"X'80'" SENSE EXIT ACTIVE
	.1..		IRTEOSEX	"X'40'" END-OF-SENSE EXIT ACTIVE
	..1.		IRTUIEX	"X'20'" UNSOLICITED EXIT ACTIVE

```
EQU   X'10'               RESERVED
```

	.... 1...		IRTCUBSY	"X'08'" CU BUSY INTERRUPT

```
EQU   X'04'               RESERVED
EQU   X'02'               RESERVED
```

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	1		IRTUPCNT	"X'01'" UPDATE COUNTS ONLY. SET BEFORE ENTRY TO ESMINTF1 WHEN COUNTING IS TO BE DONE, BUT THE IOQ IS NOT TO BE RELEASED.
4	(4) HEX	1	IRTSYMSK	OLD SYSTEM MASK SET BY CHANNEL SCHEDULER
5	(5) HEX	1	IRTCCH	CHANNEL CHECK HANDLER COMMUNICATION BYTE
6	(6) HEX	1	IRTCMRST	RESTART INDICATOR SET BY CHAN SCHEDULER WHEN ENTERED. SET IN THE OTHER CPU WHEN SHLDER TAP IS TO BE DONE. FF = IOS ACTIVE AND RESTART CAN BE DONE VIA RESTART ROUTINE 00 = IOS NOT ACTIVE. SHLDER TAP TO BE USED TO RESTRT
7	(7) HEX	1	IRTURFLG	UNCONDITIONAL RESERVE FLAGS
	1...		IRTURCRH	"X'80'" ERROR OCCURRED ON CRH PATH
	.1..		IRTUROWN	"X'40'" OWNERSHIP OF DEVICE GUARANTEED
	..1.		IRTURLCK	"X'20'" UCB LOCK OBTAINED BY U/R
	...1		IRTMIHCC	"X'10'" MIH PSEUDO INTERRUPT
	.... 1...		IRTURBYP	"X'08'" U/R REQUIRED W/O DETECTION
8	(8) ADDRESS	4	IRTUCB	ADDRESS OF LOCKED UCB
12	(C) ADDRESS	4	IRTLCH	ADDRESS OF LOCKED LCH
16	(10) ADDRESS	4	IRTIOQ	ADDRESS OF ACTIVE IOQ
20	(14) ADDRESS	4	IRTCHNL	CURRENT CHANNEL USED BY TCH
24	(18) ADDRESS	4	IRTNIOQ	SAVED ADDRESS OF NEXT IOQ
28	(1C) ADDRESS	4	IRTPSTSV	IOQ SAVE AREA USED BY CHANNEL SCHEDULER
32	(20) ADDRESS	4	IRTCHMSK	RESTART CHANNEL MASK THIS CPU
36	(24) ADDRESS	4	IRTCAT	ADDR OF CURRENT CAT ENTRY
40	(28) FLOATING	8	IRTRTNSV	USED BY CHAN SCHED AND SHLDR TAP FOR REG 13 AND 14 SAVE
48	(30) ADDRESS	4	IRTTCHSV	TCH ROUTINE LINK SAVE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
52	(34) ADDRESS	4	IRTDDSV	DEVICE DEPENDENT SIO SUBROUTINE
56	(38) ADDRESS	4	IRTSIOSV	POST SIO LINK SAVE
60	(3C) ADDRESS	4	IRTSTASV	STATUS ROUTINE LINK SAVE
64	(40) ADDRESS	4	IRTRSTSV	RESTART ROUTINE LINK SAVE
68	(44) ADDRESS	4	IRTDIESV	DIE ROUTINE LINK SAVE
72	(48) ADDRESS	4	IRTSENSV	SENSE ROUTINE LINK SAVE
76	(4C) ADDRESS	4	IRTPCISV	PCI ROUTINE LINK SAVE
80	(50) ADDRESS	4	IRTPRGSV	CHECK PURGE ROUTINE LINK SAVE
84	(54) ADDRESS	4	IRTCSME	SAVED CHANNEL SEARCH MODULE TABLE ENTRY ADDRESS
88	(58) ADDRESS	4	IRTNSRB	ADDR OF SRB FOR NEW WORK FROM DIE.
92	(5C) ADDRESS	4	IRTFRRWA	ADDR OF FRR WORKAREA
96	(60) SIGNED	4	IRTUNISV	UNSOL. EXIT LINK SAVE OR
96	(60) ADDRESS	4	IRTATTSV	ATTENTION ROUTINE LINK SAVE
100	(64) ADDRESS	4	IRTCCHSV	CCH INTERFACE LINK SAVE
104	(68) ADDRESS	4	IRTINTSV	SLIH ROUTINE LINK SAVE
108	(6C) ADDRESS	4	IRTSTSSV	TEST SCHEDULABILITY SAVE AREA
112	(70) ADDRESS	4	IRTLCHAD	SAVED LCH ADDR FOR CHAN RSTRT
116	(74) HEX	2	IRTRSCDE	HOT I/O DETECTION FLAGS

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	NOTE - THESE 2 BYTES MUST MATCH THE CORRESPONDING FIELDS IN THE SCD (SCDRSCDE)			
116	(74) HEX	1	IRTRSC1	DETECTION FLAG BYTE 1
	1...		IRTDETR1	"X'80'" RESERVED FOR HOT I/O DETEC
	.1..		IRTAVAIL	"X'40'" AVAILABILITY INTERRUPT
	..1.		IRTUNSOL	"X'20'" UNSOLICITED INTERRUPT
	...1		IRTNOSYS	"X'10'" DEVICE NOT SYSGENED
	.... .1..		IRTINVDV	"X'04'" INVALID DEVICE ADDRESS AND CHANNEL ERROR
	.... ..1.		IRTCUERR	"X'02'" CHANNEL ERROR-CONTROL UNIT PROBABLE CAUSE OF ERROR
	1		IRTCHERR	"X'01'" CHANNEL ERROR-CONTROL UNIT NOT PROBABLE CAUSE OF ERR
117	(75) HEX	1	IRTRSC2	DETECTION FLAG BYTE 2
	11..		IRTTYPE	"X'C0'" SOURCE OF INTERRUPT 00 IMPLIES SCD ENTRY NOT YET INITIALIZED
	.1..		IRTTYPCH	"B'01000000'" CHANNEL-TYPE CONDITION
	1...		IRTTYPCU	"B'10000000'" CONTROL UNIT-TYPE CONDITION
	11..		IRTTYPDV	"B'11000000'" DEVICE-TYPE CONDITION
	.... ..1.		IRTCHREC	"X'02'" CHANNEL RECURSION
	1		IRTHOTR	"X'01'" HOT RECURSIVE INTERRUPT
118	(76) ADDRESS	2	IRTSNSCT	SENSE COUNTER
120	(78) ADDRESS	4	IRTCHNSV	SENSE CHAIN ROUTINE LINK SV
124	(7C) ADDRESS	4	IRTRSV0B	RESERVED
	1...		IRTEL	"128" ENTRY LENGTH

JCT

Common Name : Job Control Table
Macro ID : IEFAJCTB and IEFAACTB
DSECT Name : INJMJCT
Created by : IEFVJA
Subpool and Key : 236 or 237 and key 1
Size : 352 bytes (176 for IEFAJCTB and 176 for IEFAACTB)
Pointed to by : LCTJCTAD field of the LCT data area
NELJCT field of the NEL data area
Serialization : None
Function : IEFAJCTB contains job status information and pointers to other data areas used by the interpreter. IEFAACTB contains job accounting information.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	176	INJMJCT	NAME OF TABLE
0	(0) ADDRESS	3	JCTDSKAD	DISK ADDRESS OF THIS JCT
3	(3) CHARACTER	1	JCTIDENT	JCT IDENTIFICATION = 0
4	(4) ADDRESS	1	JCTJSRNO	INTERNAL JOB SERIAL NUMBER
5	(5) BITSTRING	1	JCTJSTAT	JOB STATUS INDICATORS
	1...		JCTJBLBS	JOBLIB SWITCH
	.1..			RESERVED
	..1.		JCTJSTPC	STEP CANCELLED BY CONDITION CODES
	...1			RESERVED
	.... 1...		JCTABEND	ABEND BIT
	.... .1..		INCMSTS	JOB FAILED BIT
	.... ..1.		INDMCTLG	CATALOG JOB
	.... ..1.		INCMCAT	CATALOG BIT
	1		INCMNSET	RESERVED
6	(6) CHARACTER	1	JCTJMGPO	MESSAGE CLASS
7	(7) BITSTRING	1	JCTJBYTE	MSGLEVEL & PRIORITY
	1111		JCTJMGLV	MSGLEVEL SET BY IEFVJA
	1...		INCMALL	ALLOC MSGLEVEL=1
	.1..			RESERVED FOR FUTURE USE
	..1.		INCMMGL2	JCL MSGLEVEL=2

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	...1		INCMMGL1	JCL MSGLEVEL=1
	 1111		JCTJPRTY	JOB PRIORITY
8	(8) CHARACTER	8	JCTJNAME	JOBNAME
16	(10) CHARACTER	8	JCTJTPTN	T/P TERMINAL NAME
24	(18) ADDRESS	3	JCTPDIP	PDI CORE POINTER
27	(1B) CHARACTER	1		RESERVED FOR FUTURE USE
28	(1C) ADDRESS	3	JCTGDGNT	GDG NAME TABLE
31	(1F) CHARACTER	1	JCTJCSMF	JOB CLASS SPECS FOR SMF TERMINATION ROUTINES
32	(20) ADDRESS	3	JCTSDKAD	DISK ADDR. OF FIRST SCT
35	(23) CHARACTER	1		RESERVED FOR FUTURE USE
36	(24) ADDRESS	3	JCTJCTX	ADDRESS OF JCTX
39	(27) CHARACTER	1		RESERVED FOR FURTURE USE
40	(28) ADDRESS	3	JCTACTAD	DISK ADDR. OF FIRST ACT
43	(2B) CHARACTER	1		RESERVED FOR FUTURE USE
44	(2C) CHARACTER	8	JCTSMRBA	RBA OF SYSTEM MSG DS
52	(34) CHARACTER	1	JCTSCT	STEP # OF FAILING STEP
53	(35) CHARACTER	1		RESERVED
54	(36) CHARACTER	32	JCTCCODE	CONDITION CODES AND OPERATORS
54	(36) CHARACTER	2	JCTJDPCD	JOB CONDITION CODE
56	(38) CHARACTER	1	JCTJDPOP	JOB CONDITION OPERATOR
57	(39) CHARACTER	1		RESERVED FOR FUTURE USE
86	(56) BITSTRING	1	JCTRSW1	CHECKPOINT/RESTART SWITCHES
	1...		JCTWARMS	WARM START
	.1..		JCTSTERM	STEP TERM. HAS BEGUN
	..1.		JCTCONTR	JOB ELIGIBLE FOR CONTINUE RESTART PROCESSING
	...1		JCTCKFT	CHECKPOINT TAKEN FOR THIS STEP
	.... 1...		JCTCKPTR	CHECKPOINT/RESTART TO BE DONE
	.... .1..		JCTSTEPR	STEP RESTART TO BE DONE
	11			BITS 6,7 MUST BE ZERO

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
87	(57) BITSTRING	1	JCTRSW2	CHECKPOINT/RESTART SWITCHES
	1...		JCTSYSCK	SYSCHEK DD STMT PRESENT
	.1..		JCTNARST	JOB INELIGIBLE FOR AUTO RESTART
	..1.		JCTNORST	NO RESTART TO BE DONE
	...1		JCTNOCKP	NO CHECKPOINTS TO BE TAKEN
	.... 1...		JCTRESTT	DO RESTART IF NECESSARY
	.... .1..		JCTDSOCR	RESERVED M2344
	.... ..1.		JCTDSOJB	RESERVED M2344
	1		JCTDSDRA	DSDR PROCESSING HAS NOT SUCCESS. ENDED
88	(58) ADDRESS	3	JCTDETDA	TTR OF DSENQ TABLE
91	(5B) CHARACTER	1		RESERVED FOR FUTURE USE
92	(5C) CHARACTER	2	JCTEQREG	REGION PARAMETER
94	(5E) CHARACTER	1	JCTQIDNT	IDENTITY OF Q FOR JOB (MVT)
95	(5F) ADDRESS	1	JCTSNUMB	NUMBER OF STEPS RUN
96	(60) ADDRESS	3	JCTSTIOT	TTR OF COMPRESSED TIOT (MVT)
99	(63) CHARACTER	1		RESERVED FOR FUTURE USE
100	(64) CHARACTER	4	JCTDEVT	DEVICE TYPE OF CHECKPOINT DATA SET
104	(68) ADDRESS	3	JCTCKTTR	TTR OF JFCB FOR CKPT DATA SET
107	(6B) ADDRESS	1	JCTNTRK	NUMBER OF TRK ON JOBQ USED BY THE JOB SET & USED BY INIT/TERM
108	(6C) SIGNED	2	JCTNRCKP	NUMBER OF CHECKPOINTS TAKEN
110	(6E) ADDRESS	1	JCTVOLSQ	VOLUME SEQUENCE NUMBER FOR CHECKPOINT DS
111	(6F) ADDRESS	1	JCTJSB	JOB STATUS SWITCHES
	1111			RESERVED
	.... 1...		JCTJSBIN	JOB ENTERED INTERPRETATION
	.... .1..		JCTJSBAL	JOB ENTERED ALLOCATION
	.... ..1.		JCTJSBEX	JOB ENTERED EXECUTION
	1		JCTJSBTM	JOB ENTERED TERMINATION
112	(70) ADDRESS	3	JCTSSTR	TTR OF SCT FOR 1ST STEP
115	(73) CHARACTER	1		RESERVED FOR FUTURE USE
116	(74) BITSTRING	1	JCTSTAT2	
	1...		JCTSPSYS	SPOOLED SYSIN FOR JOB
	.1..		JCTADSPC	ADDRSPC=REAL FOR JOB

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	..1.		JCTENDIT	JOB TERM INDICATOR
	...1		JCTSWSM	INDICATES WARM START MESSAGE 'INIT=JOBNAME' IS TO BE SUPPRESSED FOR THIS JOB SET BY IEFVHH TESTED BY IEFSD305 M3144
	.... 1...		JCTPERFM	PERFORM SPECIF'D ON JOB CARD
	.... .1..		JCTBLP	0-BLP WILL BE TREATED AS NL 1-BLP WILL BE TREATED AS BYPASS LABEL PROCESSING
	11			RESERVED M3144
117	(75) ADDRESS	1	JCTCKIDL	LENGTH OF CHECKPOINT ID
118	(76) CHARACTER	16	JCTCKIDT	CHECKPOINT ID
SYSTEM MANAGEMENT FACILITIES SUBFIELDS				
134	(86) ADDRESS	3	JCTJMR	TTR OF JMR
137	(89) CHARACTER	1	JCTJMRD	DATE DIFFERENCE STEP/JOB STARTS
138	(8A) BITSTRING	1	JCTJMROP	SMF OPTION SWITCHES
139	(8B) CHARACTER	1	JCTJMRCL	SMF CANCELLATION CONTROL STATUS
140	(8C) CHARACTER	3	JCTJMRTL	JOB TIME LIMIT
143	(8F) CHARACTER	3	JCTJMRSS	STEP START (TIME OF DAY)
146	(92) CHARACTER	3	JCTJMRJT	JOB START (TIME OF DAY)
149	(95) CHARACTER	3	JCTJMRJD	JOB START DATE
152	(98) ADDRESS	4	JCTSRBT	ACCUMULATED SRB TIME FOR JOB
156	(9C) CHARACTER	1		RESERVED
157	(9D) CHARACTER	3	JCTSSD	STEP START DATE
160	(A0) CHARACTER	7	JCTUSER	USER ID SET BY IEFVJA
167	(A7) ADDRESS	1	JCTPRFMF	PERFORMANCE GROUP NUMBER
168	(A8) CHARACTER	4	JCTACODE	ABEND CODE FIELD
172	(AC) ADDRESS	3	JCTVULDP	PTR TO VOL UNLOAD TAB
175	(AF) CHARACTER	1		RESERVED
0	(0) STRUCTURE	176	IEFAACTB	

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) ADDRESS	3	ACTDSKAD	DISK ADDR OF THIS ACT
3	(3) CHARACTER	1	ACTIDENT	ACT ID = 1
4	(4) ADDRESS	3	ACTNEXT	TTR OF NEXT ACT
7	(7) CHARACTER	1		RESERVED FOR FUTURE USE
8	(8) CHARACTER	20	ACTPRGNM	PROGRAMMERS NAME
28	(1C) ADDRESS	3	ACTJTIME	JOB RUNNING TIME
31	(1F) ADDRESS	1	ACTJNFLD	NBR OF JOB ACCT FIELDS
32	(20) CHARACTER	144	ACTACCNT	SPACE FOR VARIABLE FIELDS

CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
ACTACCNT	20		JCTDSOCR	57	04	JCTJTPTN	10	
ACTDSKAD	0		JCTDSOJB	57	02	JCTNARST	57	40
ACTIDENT	3		JCTENDIT	74	20	JCTNOCKP	57	10
ACTJNFLD	1F		JCTEQREG	5C		JCTNORST	57	20
ACTJTIME	1C		JCTGDGNT	1C		JCTNRCKP	6C	
ACTNEXT	4		JCTIDENT	3		JCTNTRK	6B	
ACTPRGNM	8		JCTJBLBS	5	80	JCTPDIP	18	
IEFAACTB	0		JCTJBYTE	7		JCTPERFM	74	08
INCMALL	7	80	JCTJCSMF	1F		JCTPRFMF	A7	
INCMCAT	5	02	JCTJCTX	24		JCTQIDNT	5E	
INCMMGL1	7	10	JCTJDPCD	36		JCTRESTT	57	08
INCMMGL2	7	20	JCTJDPOP	38		JCTRSW1	56	
INCMNSET	5	01	JCTJMGLV	7	F0	JCTRSW2	57	
INCMSTS	5	04	JCTJMGPO	6		JCTSCT	34	
INDMCTLG	5	02	JCTJMR	86		JCTSDKAD	20	
INJMJCT	0		JCTJMRCL	8B		JCTSMRBA	2C	
JCTABEND	5	08	JCTJMRD	89		JCTSNUMB	5F	
JCTACODE	A8		JCTJMRJD	95		JCTSPSYS	74	80
JCTACTAD	28		JCTJMRJT	92		JCTSRBT	98	
JCTADSPC	74	40	JCTJMROP	8A		JCTSSD	9D	
JCTBLP	74	04	JCTJMRSS	8F		JCTSSTR	70	
JCTCCODE	36		JCTJMRTL	8C		JCTSTAT2	74	
JCTCKFT	56	10	JCTJNAME	8		JCTSTEPR	56	04
JCTCKIDL	75		JCTJPRTY	7	0F	JCTSTERM	56	40
JCTCKIDT	76		JCTJSB	6F		JCTSTIOT	60	
JCTCKPTR	56	08	JCTJSBAL	6F	04	JCTSWSM	74	10
JCTCKTTR	68		JCTJSBEX	6F	02	JCTSYSCK	57	80
JCTCONTR	56	20	JCTJSBIN	6F	08	JCTUSER	A0	
JCTDETDA	58		JCTJSBTM	6F	01	JCTVOLSQ	6E	
JCTDEVT	64		JCTJSRNO	4		JCTVULDP	AC	
JCTDSDRA	57	01	JCTJSTAT	5		JCTWARMS	56	80
JCTDSKAD	0		JCTJSTPC	5	20			

JCTX

Common Name : Job Control Table Extension
Macro ID : IEFJCTX
DSECT Name : JCTXIN
Created by : IEFVJA
Subpool and Key : 236 or 237 and key 1
Size : 176 bytes
Pointed to by : JCTJCTX field of the JCT
Serialization : None
Function : Contains job status information, in addition to the information contained in the JCT, used by the Interpreter and the Initiator.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	176	JCTXIN	TABLE NAME
0	(0) ADDRESS	3	JCTXDSKA	DISK ADDR OF THIS JCTX.
3	(3) CHARACTER	1	JCTXIDNT	JCTX IDENTIFICATION = 30
4	(4) CHARACTER	8	JCTXGROP	GROUP ID FIELD
12	(C) CHARACTER	8	JCTXJVTN	JCL DEFINITION VECTOR TABLE (JDVT) NAME
20	(14) ADDRESS	4	JCTXSWB	SCHEDULER WORK BLOCK (SWB) STRUCTURE POINTER
24	(18) CHARACTER	4	JCTXRSV1	RESERVED
28	(1C) CHARACTER	16	JCTXTIME	TIMING FIELDS
28	(1C) SIGNED	4	JCTXTCTT	JOB TCB CP TOTAL TIME
32	(20) SIGNED	4	JCTXTATT	JOB TCB UNNORMALIZED AXP TOTAL TIME
36	(24) SIGNED	4	JCTXSCTT	JOB SRB CP TOTAL TIME
40	(28) SIGNED	4	JCTXSATT	JOB SRB UNNORMALIZED AXP TOTAL TIME
44	(2C) CHARACTER	132	JCTXRESV	RESERVED FOR FUTURE USE

JDT

Common Name : JCL Definition Table
Macro ID : IEFJDT
DSECT Name : N/A
Created by : IEFJDEND, IEFJDPRM
IEFJDES, IEFJDSUB
IEFJDKEY, IEFJDVRB
IEFJDMAC
Subpool and Key : LPA - data only module
Size : Variable - depends on the number of verbs, keywords and parameters specified
Pointed to by : JDVTJDTA field of the JDVT data area
Serialization : None
Function : Contains the definition of JCL verbs, the keywords for each verb, and the parameters for each keyword.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	32	JDTMAC	JDT DEFINITION MACRO MAPPING
0	(0) CHARACTER	4	JDTACR	IDENTIFIER 'JDT '
4	(4) SIGNED	2	JDTALEN	LENGTH OF JDTMAC SECTION
6	(6) UNSIGNED	1	JDTAVER	VERSION NUMBER OF JDTMAC MACRO
7	(7) CHARACTER	1	JDTARSV	RESERVED
8	(8) CHARACTER	24	JDTAMID	MODID FIELD
8	(8) CHARACTER	8	JDTACST	CSECT NAME
16	(10) CHARACTER	8	JDTADAT	DATE OF ASSEMBLY
24	(18) CHARACTER	8	JDTAPRO	PRODUCT ID
0	(0) STRUCTURE	16	JDTVERB	VERB SECTION MACRO MAPPING
0	(0) CHARACTER	8	JDTVNME	VERB NAME

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
8	(8) SIGNED	2	JDTVOFF	OFFSET TO NEXT VERB
10	(A) SIGNED	2	JDTVKOF	OFFSET TO KEYWORD
12	(C) UNSIGNED	1	JDTVVER	VERSION NUMBER OF JDVERB MACRO
13	(D) BITSTRING	1	JDTVFLG	FLAG BYTE
	1...		JDTVCTL	CONTROL STATEMENT: NON-JCL
	.111 1111			RESERVED
14	(E) CHARACTER	2	JDTVRSV	RESERVED
0	(0) STRUCTURE	24	JDTKEYW	KEYWORD SECTION MACRO MAPPING
0	(0) CHARACTER	8	JDTKNME	KEYWORD NAME
8	(8) SIGNED	2	JDTKLEN	LENGTH OF KEYWORD SECTION
10	(A) SIGNED	2	JDTKOFF	OFFSET TO NEXT KEYWORD
12	(C) UNSIGNED	1	JDTKVER	VERSION NUMBER OF JDKEY MACRO
13	(D) BITSTRING	1	JDTKFL1	FLAG BYTE
	1...		JDTKSPL	KEYWORD SPOOLED W/ SYSOUT DATA
	.111 1111			RESERVED
14	(E) CHARACTER	1	JDTKRSV	RESERVED
15	(F) BITSTRING	1	JDTKFL2	KEYWORD FLAG BYTE
	1...		JDTKUSE	USAGE OF THIS KEYWORD: IF ON = SYSTEM INTERFACE ONLY
	.1..		JDTKJOB	KEYWORD BEFORE FIRST STEP
	..1.		JDTKSTP	KEYWORD AFTER EXEC ONLY
	...1			RESERVED
	.... 1...		JDTKNDA	REFERRAL DATA
	.... .111			RESERVED
16	(10) CHARACTER	8	JDTKSTM	STATEMENT TYPE FOR REFERRAL DATA
0	(0) STRUCTURE	20	JDTPARM	PARAMETER SECTION MACRO MAPPING
0	(0) SIGNED	2	JDTPLEN	LENGTH OF SUBPARAMETER SECTION
2	(2) SIGNED	2	JDTPOFF	OFFSET TO NEXT SUBPARAMETER
4	(4) SIGNED	2	JDTPBID	SWB BLOCK ID
6	(6) UNSIGNED	2	JDTPKEY	KEY FOR THIS SUBPARAMETER
8	(8) UNSIGNED	1	JDTPFLT	DEFAULT CHOICE FOR KEY

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
9	(9) UNSIGNED	1	JDTPVER	VERSION NUMBER OF JDPARM MACRO
10	(A) UNSIGNED	1	JDTPMAX	MAXIMUM LENGTH OF PARAMETER
11	(B) UNSIGNED	1	JDTPMIN	MINIMUM LENGTH OF PARM
12	(C) UNSIGNED	1	JDTPCNL	LENGTH CONVERTED INTEGER DATA
13	(D) UNSIGNED	1	JDTPBYO	BYTE OFFSET INTO SWB
14	(E) BITSTRING	1	JDTPFL1	PARAMETER FLAG BYTE
	1...		JDTPBOL	CHOICE DATA
	.1..		JDTPCHR	CHARACTER DATA
	..1.		JDTPINT	INTEGER DATA
	...1		JDTPHEX	HEX DATA
	.... 1...		JDTPREF	REFERRAL DATA
	.... .111			RESERVED
15	(F) BITSTRING	1	JDTPFL2	SUBLIST FLAG BYTE
	1...		JDTPSUB	SUBLIST DATA
	.1..		JDTPSFR	FIRST ELEMENT OF SUBLIST
	..1.		JDTPLST	PARAMETER IS A LIST ITEM
	...1		JDTPSLL	SUBLIST ELEMENT IS A LIST
	 1111			RESERVED
16	(10) BITSTRING	1	JDTPFL3	DEFAULT FLAG BYTE
	1...		JDTPDDF	KEY DEFAULT SPECIFIED
	.111 1111			RESERVED
17	(11) BITSTRING	1	JDTPFL4	FIRST CHARACTER TYPES
	1...		JDTPFALL	ALL CHARACTERS ALLOWED
	.1..		JDTPFALP	ALPHABETIC CHARACTERS A-Z
	..1.		JDTPFNUM	NUMERIC CHARACTERS 0-9
	...1		JDTPFNAT	NATIONAL CHARACTERS
	.... 1...		JDTPFSPE	SPECIAL CHARACTERS ALLOWED
	.... .111			RESERVED
18	(12) BITSTRING	1	JDTPFL5	OTHER CHARACTER TYPES
	1...		JDTPOALL	ALL CHARACTERS ALLOWED
	.1..		JDTPOALP	ALPHABETIC CHARACTERS A-Z
	..1.		JDTPONUM	NUMERIC CHARACTERS 0-9
	...1		JDTPONAT	NATIONAL CHARACTERS
	.... 1...		JDTPOSPE	SPECIAL CHARACTERS ALLOWED
	.... .111			RESERVED
19	(13) CHARACTER	1	JDTPRSV	RESERVED
20	(14) CHARACTER	0	JDTPVAR	VARIABLE DATA DEPENDING ON JDTPFL1 FLAGS

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
CHARACTER DATA CONVERSION AREA OF JDPARM MACRO.				
20	(14) STRUCTURE	40	JDTPCRC	CHARACTER CONVERSION
20	(14) UNSIGNED	1	JDTPLNM	MAXIMUM NUMBER OF LEVELS
21	(15) UNSIGNED	1	JDTPLLN	LENGTH OF EACH LEVEL
22	(16) CHARACTER	2	JDTPRS1	RESERVED
* 24	(18) UNSIGNED	1	JDTPFSN	NUMBER OF SPECIAL CHARACTERS DEFINED FOR THE FIRST CHARACTER
25	(19) CHARACTER	16	JDTPFSA	SPECIAL CHARACTERS DEFINED FOR THE FIRST CHARACTER
41	(29) UNSIGNED	1	JDTPOSN	NUMBER OF SPECIAL CHARACTERS DEFINED FOR CHARACTERS OTHER THAN THE FIRST
42	(2A) CHARACTER	16	JDTPOSA	SPECIAL CHARACTERS DEFINED FOR CHARACTERS OTHER THAN THE FIRST
58	(3A) CHARACTER	2	JDTPRS2	RESERVED
INTEGER OR HEX DATA CONVERSION AREA OF JDPARM MACRO.				
20	(14) STRUCTURE	8	JDTPINC	INTEGER OR HEX CONVERSION
20	(14) SIGNED	4	JDTPHGH	HIGH RANGE OF DATA
24	(18) SIGNED	4	JDTPLOW	LOW RANGE OF DATA
CHOICE DATA CONVERSION AREA OF JDPARM MACRO.				
20	(14) STRUCTURE	72	JDTPCHC	CHOICE CONVERSION MAPPINGS
20	(14) CHARACTER	72		MAPPING FOR INDIVIDUAL CHOICES

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
20	(14) CHARACTER	8	JDTPCHO	CHOICE MAPPINGS
28	(1C) UNSIGNED	1	JDTPVAL	VALUE OF THE CHOICE MAPPINGS

JDVT

Common Name : JCL Definition Vector Table
Macro ID : IEFJDVT
DSECT Name : N/A
Created by : IEFSJDEF
Subpool and Key : 241 and key 1
Size : 36 + 12 bytes for each additional JDT name and address
Pointed to by : JESSJDVT field of the JESCT data area
JDVTNEXT field of the JDVT data area
Serialization : None
Function : Contains the names and addresses of the JCL definition tables (JDTs).

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	24	JDVT	
0	(0) CHARACTER	24	JDVTHDR	FIXED SECTION OF JDVT
0	(0) CHARACTER	4	JDVTID	JDVT IDENTIFIER
4	(4) UNSIGNED	1	JDVTVER	CONTROL BLOCK VERSION NUMBER
5	(5) BITSTRING	1	JDVTFLAG	DEFINITION FLAG
	1...		JDVTDFLT	DEFAULT JDVT
	.111 1111			RESERVED
6	(6) SIGNED	2	JDVTLEN	LENGTH OF JDVT HEADER
8	(8) ADDRESS	4	JDVTNEXT	ADDRESS OF NEXT JDVT
12	(C) CHARACTER	8	JDVTNAME	JDVT NAME
20	(14) SIGNED	2	JDVTRSV1	RESERVED
22	(16) SIGNED	2	JDVT#JDT	NUMBER OF JDT'S
24	(18) CHARACTER	0	JDVTJDTS	VARIABLE SECTION-JDT ENTRIES
24	(18) CHARACTER	8	JDVTJDTN	JDT NAME
32	(20) ADDRESS	4	JDVTJDTA	JDT ADDRESS

JESCT

Common Name : JES Control Table
Macro ID : IEFJESCT
DSECT Name : JESCT and JESPEXT
Created by : JESCT - IEFJESDN at SYSGEN
JESPEXT - IEFJSINT
Subpool and Key : JESCT - NUCLEUS and key 0
JESPEXT - 241 and key 0
Size : JESCT - 108 bytes
JESPEXT - 24 bytes
Pointed to by : JESCT - CVT + 296(x'128') CVTJESCT field of the CVT data area
JESPEXT - JESCTEXT field of the JESCT data area
Serialization : None
Function : Contains the information required by the subsystem interface and addresses of scheduler routines.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	JESCT	
0	(0) CHARACTER	4	JESCTID	ACRONYM: JEST
4	(4) ADDRESS	4	JESUNITS	POINTER TO SYSRES UCB
8	(8) ADDRESS	4	JESWAA	ADDRESS OF THE SWA MANAGER LOCATE MODE
12	(C) ADDRESS	4	JESQMGR	ADDRESS OF SWA MANAGER MOVE MODE
16	(10) ADDRESS	4	JESRESQM	ENTRY POINT USED TO INTERFACE BETWEEN THE QMNGRIO MACRO AND THE RESIDENT SWA MNGR
20	(14) ADDRESS	4	JESSSREQ	ADDRESS OF THE IEFSSREQ ROUTINE
24	(18) ADDRESS	4	JESSSCT	ADDRESS OF THE FIRST SUBSYSTEM COMMUNICATIONS TABLE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
28	(1C) HEX	4	JESPJESN	NAME OF PRIMARY JOB ENTRY SUBSYSTEM SET AT SYSGEN
32	(20) ADDRESS	4	JESALLOC	DEVICE ALLOCATION ENTRY POINT USED BY INITIATOR
36	(24) ADDRESS	4	JESUNALC	DEVICE UNALLOCATION ENTRY POINT USED BY INITIATOR
40	(28) ADDRESS	4	JESCATL	DEVICE ALLOCATION PRIVATE CATALOG ENTRY POINT USED BY INITIATOR
44	(2C) SIGNED	4	JESNUCBS	NUMBER OF TAPE AND DA UCB'S IN SYSTEM. USED BY DEVICE ALLOCATION
48	(30) ADDRESS	4	JESSASTA	ADDRESS OF SUBSYSTEM ALLOCATION SEQUENCE TABLE
52	(34) ADDRESS	4	JESEDT	ADDRESS OF ALLOCATION ELIGIBLE DEVICE TABLE
56	(38) ADDRESS	4	JESRECM	ADDRESS OF IEFJRECM RESOURCE MANAGER
60	(3C) ADDRESS	4	JESRECF	ADDRESS OF IEFJRECF RESOURCE MANAGER
64	(40) ADDRESS	4	JESHASH	ADDRESS OF SUBSYSTEM HASH TABLE
68	(44) SIGNED	2	JESNRSS	TOTAL NUMBER OF SUBSYSTEMS
70	(46) HEX	1	JESFLG	FLAG BYTE
	1...		JESJSSNT	"X'80'" IEFJSSNT EXISTS
	.1..		JESRSV13	"X'40'" RESERVED
	..1.		JESRSV14	"X'20'" RESERVED
	...1		JESRSV15	"X'10'" RESERVED
	.... 1...		JESRSV16	"X'08'" RESERVED
	.... .1..		JESRSV17	"X'04'" RESERVED
	.... ..1.		JESRSV18	"X'02'" RESERVED
	1		JESRSV19	"X'01'" RESERVED
71	(47) HEX	1	JESJESFG	PRIMARY SUBSYSTEM FLAGS
	1...		JESPSUBA	"X'80'" PRIMARY SUBSYSTEM ACTIVE INDICA-

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				TOR
	.1..		JESPSUBI	"X'40'" IF JESPSUBA=1 AND THIS BIT =0 THEN MVS CONSOLE ALTERING COMMANDS MAY BE USED BUT JES3 CONSOLE ALTERING COMMANDS MAY NOT BE USED. IF JESPSUBA=1 AND THIS BIT =1 THEN JES3 CONSOLE ALTERING COMMANDS MAY BE USED IN ADDITION TO MVS CONSOLE ALTERING COMMANDS. IF JESPSUBA=0 THEN ONLY MVS CONSOLE ALTERING COMMANDS MAY BE USED.
	..1.		JESRSV22	"X'20'" RESERVED
	...1		JESRSV23	"X'10'" RESERVED
	.... 1...		JESRSV24	"X'08'" RESERVED
	.... .1..		JESRSV25	"X'04'" RESERVED
	.... ..1.		JESRSV26	"X'02'" RESERVED
	1		JESRSV27	"X'01'" RESERVED
72	(48) ADDRESS	4	JESALLOP	POINTER TO ALLOCATION DESCRIPTOR BLOCK
76	(4C) SIGNED	2	JESALLOA	ASID OF ALLOCATION ADDRESS SPACE
78	(4E) HEX	1	JESALLOF	ALLOCATION ADDRESS SPACE FUNCTION FLAGS
	1...		JESUASR	"X'80'" UNIT ALLOCATION STATUS RECORDING IS ACTIVE
	.1..		JESUASF	"X'40'" UNIT ALLOCATION STATUS RECORDING HAS FAILED
	..1.		JESRSV02	"X'20'" RESERVED
	...1		JESRSV03	"X'10'" RESERVED
	.... 1...		JESRSV04	"X'08'" RESERVED
	.... .1..		JESRSV05	"X'04'" RESERVED
	.... ..1.		JESRSV06	"X'02'" RESERVED
	1		JESRSV07	"X'01'" RESERVED
79	(4F) HEX	1	JESRSV08	RESERVED
80	(50) ADDRESS	4	JESPCDP	POINTER IN CSA FOR PCDPARMS
84	(54) SIGNED	4	JESAUCBS	NUMBER OF ALL UCBS IN THE SYSTEM
88	(58) SIGNED	4	JESDUECB	DISPLAY ALLOCATION SDUMP ECB
92	(5C) SIGNED	4	JESRSV10	RESERVED

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
96	(60) SIGNED	4	JESRSV11	RESERVED
100	(64) ADDRESS	4	JESCTEXT	POINTER TO THE PAGEABLE JESCT EXTENSION
104	(68) SIGNED	4	JESRSV20	RESERVED

JESPEXT IS A PAGEABLE EXTENSION OF THE JESCT POINTED TO BY JESCTEXT

0	(0) STRUCTURE	0	JESPEXT	
0	(0) SIGNED	4		JESCT EXTENSION
0	(0) CHARACTER	7	JESSID	IDENTIFIER 'JESPEXT'
7	(7) HEX	1	JESSVERS	CONTROL BLOCK VERSION NUMBER
8	(8) ADDRESS	4	JESSJCNL	ADDRESS OF SCHEDULER JCL FACILITY
12	(C) ADDRESS	4	JESSJDVT	ADDRESS OF JCL DEFINITION VECTOR TABLE CHAIN
16	(10) ADDRESS	4	JESSJRNL	ADDRESS OF JOURNAL WRITE RTNE
20	(14) ADDRESS	4	JESIB650	IEFIB650 ENTRY POINT (MSG MOD)
	1		JESSCVER	"1" CURRENT VERSION LEVEL
108	(6C) STRUCTURE	0	JESCT	RESETS PROGRAM COUNTER

JFCB

Common Name : Job File Control Block
Macro ID : IEFJFCBN
DSECT Name : No DSECT card put out by macro. INFMJFCB may be put on the USING statement.
Created by : The interpreter
Subpool and Key : SWA (subpool 236 or 237) and key 1
Size : 176 bytes
Pointed to by : SCTPJFCB field of the SIOT data area
TIOEJFCB field of the TIOT data area (DD entry JFCB)
SJFCBPTR field of the SIOT data area
SSDAJFCB field of the SSOB data area (data management JFCB)
SSALJFCB field of the SSOB data area (allocation JFCB)
Serialization : None
Function : The job management routines construct a JFCB for each ddname specified in a job step. In a concatenated data set, each of the multiple DD cards is given a DD name of blanks. A JFCB is then concatenated for each DD name including those with a name of blanks. It is brought into virtual storage when a DCB with the corresponding name is opened. Information in a JFCB may be modified during the OPEN processing.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) SIGNED	4	INFMJFCB	"x"
0	(0) CHARACTER	8	JFCBQNAM	PROCESS QUEUE NAME SPECIFIED BY THE QNAME KEYWORD (TCAM)
0	(0) CHARACTER	44	JFCBDSNM	DATA SET NAME
44	(2C) CHARACTER	7	JFCIPLTX	MODULE NAME OF NETWORK CONTROL PROGRAM (TCAM)
44	(2C) CHARACTER	8	JFCBELNM	ELEMENT NAME OR RELATIVE GENERATION NUMBER. TYPE OF AREA (INDEX, PRIME OR OVERFLOW) FOR AN INDEXED SEQUENTIAL DATA SET ONLY.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
52	(34) BITSTRING	1	JFCBTSDM	JOB MANAGEMENT/DATA MANAGEMENT INTERFACE
	1...		JFCCAT	"X'80'"- DATA SET IS CATALOGED
	.1..		JFCVSL	"X'40'"- VOLUME SERIAL LIST HAS BEEN CHANGED
	..1.		JFCSDS	"X'20'"- DATA SET IS A SYSIN OR SYSOUT DATA SET
	...1		JFCTTR	"X'10'"- A JOB STEP IS TO BE RESTARTED. USE JFCBOTTR INSTEAD OF DS1LSTAR FIELD TO REPOSITION DATA SET IF AUTOMATIC STEP RESTART OCCURS. (THIS JOB HAD ABEND PROCESSING FOR A DATA SET OPENED FOR MOD.)
	.... 1...		JFCNWRIT	"X'08'"- DO NOT WRITE BACK THE JFCB DURING OPEN PROCESSING
	.... .1..		JFCNDSCB	"X'04'"- DO NOT MERGE DSCB OR LABEL FIELDS INTO THIS JFCB
	.... ..1.		JFCNDCB	"X'02'"- DO NOT MERGE DCB FIELDS INTO THIS JFCB
	1		JFCPAT	"X'01'"- THE PATTERNING DSCB IS COMPLETE
53	(35) CHARACTER	3	JFCBDSCB	TTR ADDRESS OF THE FORMAT 1 DSCB FOR DATA SET PART ON THE FIRST VOLUME OF THE DATA SET
56	(38) CHARACTER	4	JFCFCBID	FORMS CONTROL BUFFER IMAGE IDENTIFICATION FOR THE 3211 PRINTER OR DATA PROTECTION IMAGE IDENTIFICATION FOR THE 3525 CARD PUNCH WITH THE READ AND PRINT FEATURES OR FORMAT RECORD ID
56	(38) CHARACTER	4	JFCBFRID	LAST 4 CHARACTERS OF A PDS MEMBER TO BE USED IN THE INTERPRETATION OF DOCUMENTS READ BY 3886 DEVICE FOR THIS STEP
56	(38) CHARACTER	4	JFCRBIDO	THE PHYSICAL LOCATION ON THE TAPE OF THE FIRST STANDARD-LABEL HEADER RECORD TO BE PROCESSED BY OPEN
56	(38) BITSTRING	2	JFCAMCRO	VSAM CHECKPOINT/RESTART OPTION INDICATORS
58	(3A) SIGNED	2	JFCAMSTR	NUMBER OF STRINGS

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
60	(3C) SIGNED	2	JFCBADBF	NUMBER OF DATA BUFFERS
62	(3E) SIGNED	2	JFCNLREC	LOGICAL RECORD LENGTH FOR VSAM
64	(40) SIGNED	2	JFCVINDX	MASS STORAGE SYSTEM COMMUNICATOR (MSSC) VOLUME SELECTION INDEX
66	(42) BITSTRING	1	JFCBLTYP	LABEL TYPE
	1...		JFCRSV38	"X'80',,C'X'"RESERVED
	.1..		JFCBAL	"X'40'"- AMERICAN NATIONAL STANDARD TAPE LABELS (AL OR IF BIT 4 IS ALSO ON, AUL)
	..1.		JFCBLTM	"X'20'"- UNLABELLED TAPE CREATED BY DOS MAY HAVE LEADING TAPE MARK. OPEN/CLOSE/EOV AND RESTART MUST SPACE OVER A TAPE MARK IF ONE EXISTS.
	...1		JFCBLP	"X'10'"- BYPASS LABEL PROCESSING
	.... 1.1.		JFCSUL	"X'0A'"- USER LABEL
	.... .1..		JFCNSL	"X'04'"- NONSTANDARD LABEL
	.... ..1.		JFCSL	"X'02'"- STANDARD LABEL
	1		JFCNL	"X'01'"- NO LABEL
67	(43) CHARACTER	3	JFCBOTTR	DASD MOD DATA SET IF AUTOMATIC STEP RESTART WAS REQUESTED, TTR OF THE END-OF-DATA INDICATOR EXISTING WHEN THE DATA SET WAS FIRST OPENED DURING THE ORIGINAL EXECUTION OF THE CURRENT STEP
67	(43) SIGNED	1	JFCBUFOF	TAPE DATA SET THIS FIELD CONTAINS THE BUFFER OFFSET (DCB SUBPARAMETER VALUE)
	1...		JFCBFOFL	"X'80'"- IF 1, THE OFFSET EQUALS FOUR AND THE BUFFER OFFSET FIELD OF EACH BLOCK (D-FORMAT RECORDS) CONTAINS THE BLOCK LENGTH (SPECIFIED BY BUFOFF=L). IF 0, THE OFFSET IS AS SPECIFIED IN THE REMAINING SEVEN BITS AND THE BUFFER OFFSET FIELD OF EACH BLOCK DOES NOT CONTAIN THE BLOCK LENGTH.
68	(44) BITSTRING	1	JFCFUNC	FUNCTION INDICATORS FOR THE 3525 CARD PUNCH (SPECIFIED BY THE FUNC PARAMETER)
	1...		JFCFNCBI	"X'80'"- I INTERPRET (PUNCH AND PRINT TWO LINES)
	.1..		JFCFNCBR	"X'40'"- R READ
	..1.		JFCFNCBP	"X'20'"- P PUNCH
	...1		JFCFNCBW	"X'10'"- W PRINT

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	.... 1...		JFCFNCBD	"X'08'"- D DATA PROTECTION
	.... .1..		JFCFNCBX	"X'04'"- X THIS DATA SET IS TO BE PRINTED. THIS MAY BE CODED WITH PW OR RPW TO DISTINGUISH THE DATA SET TO BE PRINTED FROM THE DATA SET TO BE PUNCHED.
	.... ..1.		JFCFNCBT	"X'02'"- T TWO-LINE PRINT SUPPORT REQUEST. THE SECOND PRINT LINE IS LOCATED ON CARD LINE THREE.
	1		JFCRSV31	"X'01',,C'X'"RESERVED
68	(44) SIGNED	2	JFCBFLSQ	FOR MAGNETIC TAPE DEVICES, FILE SEQUENCE NUMBER
70	(46) SIGNED	2	JFCBVLSQ	VOLUME SEQUENCE NUMBER
72	(48) CHARACTER	8	JFCBMASK	DATA MANAGEMENT MASK
72	(48) BITSTRING	5	JFCBOPS1	OPEN ROUTINE INTERNAL SWITCHES
77	(4D) BITSTRING	1	JFCBFLG1	FLAG BYTE
	1...		JFCSTAND	"X'80'"- VOLUME LABEL PROCESSING STANDARD
	.1..		JFCSLCRE	"X'40'"- CREATION OF A STANDARD LABEL IS NECESSARY
	..1.		JFCSLDES	"X'20'"- DESTRUCTION OF A STANDARD LABEL IS NECESSARY
	...1		JFCDUAL	"X'10'"- DUAL-DENSITY CHECK DETECTED
	 1111		JFCOPEN	"X'0F'"- OPEN ROUTINE INTERNAL SWITCHES
	1		JFCBPWBP	"X'01'"- PASSWORD BYPASS INDICATOR
78	(4E) BITSTRING	1	JFCBFLG2	FLAG BYTE OF OPEN SWITCHES
	1...		JFCINOP	"X'80'"- TREAT THE INOUT OPTION OF OPEN AS INPUT
	.1..		JFCOUTOP	"X'40'"- TREAT THE OUTIN OPTION OF OPEN AS OUTPUT
	..1.		JFCDEFER	"X'20'"- SET ONLY IN A JFCB RECORDED IN A DATA SET DESCRIPTOR RECORD (DSDR) BY THE CHECKPOINT ROUTINE. INDICATES THAT THE DATA SET RELATED TO THE JFCB IS BEING PROCESSED SEQUENTIALLY, AT THE CHECKPOINT, ON A VOLUME OTHER THAN THE VOLUME ON WHICH PROCESSING BEGAN IN THE CURRENT STEP. WHEN RESTART OCCURS, THIS

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				BIT CAUSES DEFERRED VOLUME MOUNTING.
	..1.		JFCNRPS	"X'20'"- USE BY OPEN ROUTINES SET TO INDICATE THAT THIS DATA SET RESIDES ON A NON-RPS DEVICE. RESET TO ZERO WHEN OPEN PROCESSING IS COMPLETED.
	...1		JFCMODNW	"X'10'"- DISPOSITION OF THIS DATA SET HAS BEEN CHANGED FROM MOD TO NEW. DISPOSITION (IN JFCBIND2) WILL BE RESTORED TO MOD AFTER OPEN.
	.... 1...		JFCSDRPS	"X'08'"- USE SEARCH DIRECT FOR ROTATIONAL POSITION SENSING (RPS) DEVICES
	.... .1..		JFCTRACE	"X'04'"- GTF TRACE IS TO OCCUR DURING OPEN/CLOSE/EOV AND DYNAMIC ALLOCATION PROCESSING OF DCB
	.... ..1.		JFCBBUFF	"X'02'"- INDICATOR TO OPEN THAT A NON-ZERO VALUE IN JFCBOTTR IS NOT TO PREVENT THE NORMAL STORING BY OPEN OF A TTR IN JFCBOTTR. BEFORE OPEN JFCBUFOF (OFFSET 67) CONTAINS A BUFFER OFFSET OR INVALID INFORMATION RESULTING FROM A JFCB-TO-JFCB MERGE. AFTER OPEN OPEN MAY HAVE STORED A TTR IN JFCBOTTR (OFFSET 67), IN WHICH CASE OPEN WILL HAVE SET THIS BIT TO ZERO.
	1		JFCRCTLG	"X'01'"- OPEN HAS UPDATED THE TTR. SCHEDULER STEP TERMINATION ROUTINE IS TO RECATALOG THIS DATA SET AND PLACE IN THE CATALOG ENTRY THE DSCB TTR CONTAINED IN JFCBDSCB IF THIS DATA SET IS CATALOGED.
79	(4F) BITSTRING	1	JFCBOPS2	OPEN ROUTINE INTERNAL SWITCHES
80	(50) CHARACTER	3	JFCBCRDT	DATA SET CREATION DATE (YDD, Y=YEAR AND DD=DAY)
83	(53) CHARACTER	3	JFCBXPDT	DATA SET EXPIRATION DATE (YDD)
86	(56) BITSTRING	1	JFCBIND1	INDICATOR BYTE 1
	11..		JFCRLSE	"X'C0'"- RELEASE EXTERNAL STORAGE
	..11		JFCLOC	"X'30'"- DATA SET HAS BEEN LOCATED
	.... 11..		JFCADDED	"X'0C'"- NEW VOLUME HAS BEEN ADDED TO THE DATA SET
	.... ..1.		JFCGDG	"X'02'"- DATA SET IS A MEMBER OF A GEN-

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				ERATION DATA GROUP
	1		JFCPDS	"X'01'"- DATA SET IS A MEMBER OF A PARTITIONED DATA SET
				THE FOLLOWING FOUR BIT SETTINGS ARE FROM AN OLD MAPPING MACRO THESE FOUR WILL BE REMOVED IN A FUTURE RELEASE. USE THE FOREGOING SYMBOLS FOR JFCBIND1
	.1..		JFCBRLSE	"X'40'"- BITS 0 & 1 EXTERNAL STORAGE RELEASE INDICATOR
	...1		JFCBLOCT	"X'10'"- BITS 2 & 3 DATA SET HAS BEEN LOCATED
	.... .1..		JFCBNEWV	"X'04'"- BITS 4 & 5 NEW VOLUME ADDED TO DATA SET
	1		JFCBPMEM	"X'01'"- BITS 6 & 7 DATA SET IS A MEMBER OF A PDS OR GDG
87	(57) BITSTRING	1	JFCBIND2	INDICATOR BYTE 2
	11..		JFCDISP	"X'C0'"- BIT PATTERN FOR NEW, MOD, OLD
	11..		JFCNEW	"X'C0'"- NEW DATA SET
	1...		JFCMOD	"X'80'"- MOD DATA SET
	.1..		JFCOLD	"X'40'"- OLD DATA SET
	..11		JFCBRWPW	"X'30'"- PASSWORD IS REQUIRED TO WRITE BUT NOT TO READ (DATA SET SECURITY)
	...1		JFCSECUR	"X'10'"- PASSWORD IS REQUIRED TO READ OR TO WRITE (DATA SET SECURITY)
	.... 1...		JFCSHARE	"X'08'"- SHARED DATA SET
	.... .1..		JFCENT	"X'04'"- DELETE THIS JFCB BEFORE ALLOCATION FOR A RESTARTED GENERATION DATA GROUP
	.... ..1.		JFCREQ	"X'02'"- STORAGE VOLUME REQUESTED
	1		JFCTEMP	"X'01'"- TEMPORARY DATA SET
				THE FOLLOWING THREE BIT SETTINGS ARE FROM AN OLD MAPPING MACRO THESE THREE WILL BE REMOVED IN A FUTURE RELEASE. USE THE FOREGOING SYMBOLS FOR JFCBIND2
	.1..		JFCBSTAT	"X'40'"- BITS 0 & 1 DATA SET STATUS

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				(NEW, OLD OR MOD)
	...1		JFCBSCTY	"X'10'"- BIT 3 DATA SET SECURITY INDICATOR
	.... .1..		JFCBGDGA	"X'04'"- BITS 4 & 5 THIS JFCB IS A MEMBER OF A GDG-ALL REQUEST
88	(58) ADDRESS	4	JFCAMPTR	POINTER TO AMPBLK FOR ADDITIONAL VSAM PARAMETERS
88	(58) HEX	1	JFCBUFNO	NUMBER OF BUFFERS REQUIRED FOR THIS DATA SET (ACCESS METHODS OTHER THAN TCAM AND QTAM)
88	(58) HEX	1	JFCBUFIN	BITS 0-3 CONTAIN THE NUMBER OF BUFFERS ASSIGNED INITIALLY FOR RECEIVING OPERATIONS FOR EACH LINE IN A LINE GROUP (TCAM)
88	(58) HEX	1	JFCBFOUT	BITS 4-7 CONTAIN THE NUMBER OF BUFFERS ASSIGNED INITIALLY FOR SENDING OPERATIONS FOR EACH LINE IN A LINE GROUP (TCAM)
88	(58) HEX	1	JFCBUFRQ	NUMBER OF BUFFERS REQUIRED FOR EACH LINE (QTAM)
89	(59) SIGNED	1	JFCBGNCP	FOR GAM, THIS FIELD IS USED FOR THE NUMBER OF IOB'S CONSTRUCTED BY THE OPEN ROUTINE. MAXIMUM NUMBER IS 99.
89	(59) BITSTRING	1	JFCBHIAR	BUFFER POOL LOCATION IN MAIN STORAGE (HIERARCHY)
89	(59) BITSTRING	1	JFCBFALN	BUFFER ALIGNMENT
89	(59) BITSTRING	1	JFCBFTEK	BUFFERING TECHNIQUE
	1... .1..		JFCHIER	"X'84'"- BITS 0 AND 5 DESCRIBE MAIN STORAGE HIERARCHY. BOTH BITS OFF, HIERARCHY 0. BIT 0 OFF AND BIT 5 ON, HIERARCHY 1.
	.1..		JFCSIM	"X'40'"- S SIMPLE BUFFERING
	.11.		JFCBBFTA	"X'60'"- A FOR QSAM LOCATE MODE PROCESSING OF SPANNED RECORDS, AUTOMATIC RECORD AREA CONSTRUCTION DURING LOGICAL RECORD INTERFACE PROCESSING. OPEN IS TO CONSTRUCT A RECORD AREA IF IT AUTOMATICALLY

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				CONSTRUCTS BUFFERS.
	..1.		JFCBBFTR	"X'20'"- R FOR BSAM CREATE BDAM PROCESSING OR BDAM PROCESSING OF UNBLOCKED SPANNED RECORDS, SOFTWARE TRACK OVERFLOW. OPEN FORMS A SEGMENT WORK AREA POOL AND STORES THE ADDRESS OF THE SEGMENT WORK AREA CONTROL BLOCK IN THE DCBEOBW FIELD OF THE DATA CONTROL BLOCK. WRITE USES A SEGMENT WORK AREA TO WRITE A RECORD AS ONE OR MORE SEGMENTS. FOR BSAM INPUT PROCESSING OF UNBLOCKED SPANNED RECORDS WITH KEYS, RECORD OFFSET PROCESSING. READ READS ONE RECORD SEGMENT INTO THE RECORD AREA. THE FIRST SEGMENT OF A RECORD IS PRECEDED IN THE RECORD AREA BY THE KEY. SUBSEQUENT SEGMENTS ARE AT AN OFFSET EQUAL TO THE KEY LENGTH.
	...1		JFCEXC	"X'10'"- E EXCHANGE BUFFERING
	.... 1...		JFCDYN	"X'08'"- DYNAMIC BUFFERING
	.... .1..		JFCHIER1	"X'04'"- HIERARCHY 1 MAIN STORAGE
	.... ..1.		JFCDWORD	"X'02'"- D DOUBLE WORD BOUNDARY
	1		JFCFWORD	"X'01'"- F FULL WORD NOT A DOUBLE WORD BOUNDARY
90	(5A) SIGNED	2	JFCBUFL	BUFFER LENGTH
92	(5C) BITSTRING	1	JFCEROPT	ERROR OPTION. DISPOSITION OF PERMANENT ERRORS IF USER RETURNS FROM A SYNCHRONOUS ERROR EXIT. (QSAM)
	1...		JFCACC	"X'80'"- ACCEPT
	.1..		JFCSKP	"X'40'"- SKIP
	..1.		JFCABN	"X'20'"- ABNORMAL END OF TASK
	...1		JFCTOPT	"X'10'"- ON-LINE TERMINAL TEST (BTAM)
	.... 1...		JFCRSV02	"X'08',,C'X'"RESERVED
	.... .1..		JFCRSV03	"X'04',,C'X'"RESERVED
	.... ..1.		JFCRSV04	"X'02',,C'X'"RESERVED
	1		JFCRSV05	"X'01',,C'X'"RESERVED
93	(5D) CHARACTER	1	JFCTRTCH	TAPE RECORDING TECHNIQUE FOR 7-TRACK TAPE
	..1. ..11		JFCEVEN	"X'23'"- E EVEN PARITY
	..11 1.11		JFCTRAN	"X'3B'"- T EOD/EBCDIC TRANSLATION

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	...1 ..11		JFCCONV	"X'13'"- C DATA CONVERSION
	..1. 1.11		JFCTREV	"X'2B'"- ET EVEN PARITY AND TRANSLATION
93	(5D) HEX	1	JFCKEYLE	DIRECT ACCESS KEY LENGTH
93	(5D) BITSTRING	1	JFCCODE	CONVERSION CODE (PAPER TAPE)
	1...		JFCNOCON	"X'80'"- N NO CONVERSION
	.1..		JFCBCD	"X'40'"- I IBM BCD
	..1.		JFCFRI	"X'20'"- F FRIDEN
	...1		JFCBUR	"X'10'"- B BURROUGHS
	.... 1...		JFCNCR	"X'08'"- C NATIONAL CASH REGISTER
	.... .1..		JFCASCII	"X'04'"- A ASCII (8-TRACK)
	.... ..1.		JFCTTY	"X'02'"- T TELETYPE
	1		JFCRSV32	"X'01',,C'X'"RESERVED
93	(5D) BITSTRING	1	JFCMODE	MODE OF OPERATION (CARD READER, CARD PUNCH)
93	(5D) BITSTRING	1	JFCSTACK	STACKER SELECTION (CARD READER, CARD PUNCH)
	1...		JFCBIN	"X'80'"- C COLUMN BINARY MODE
	.1..		JFCEBCD	"X'40'"- E EBCDIC MODE
	..1.		JFCMODEO	"X'20'"- O OPTICAL MARK READ MODE (3505 ONLY)
	...1		JFCMODER	"X'10'"- R READ COLUMN ELIMINATE MODE (3505 AND 3525 WITH READ FEATURE)
	.... 1...		JFCRSV06	"X'08',,C'X'"RESERVED
	.... .1..		JFCRSV07	"X'04',,C'X'"RESERVED
	.... ..1.		JFCTWO	"X'02'"- 2 STACKER TWO
	1		JFCONE	"X'01'"- 1 STACKER ONE
93	(5D) BITSTRING	1	JFCPRTSP	NORMAL PRINTER SPACING
	...1 1..1		JFCSPTHR	"X'19'"- 3 SPACE THREE LINES
	...1 ...1		JFCSPTWO	"X'11'"- 2 SPACE TWO LINES
	.... 1..1		JFCSPONE	"X'09'"- 1 SPACE ONE LINE
	1		JFCSPNO	"X'01'"- 0 NO SPACING
94	(5E) BITSTRING	1	JFCDEN	TAPE DENSITY 2400/3400 SERIES MAGNETIC TAPE UNITS
	11		JFC200	"X'03'"- 7-TRACK 200 BPI
	.1.. ..11		JFC556	"X'43'"- 7-TRACK 556 BPI
	1... ..11		JFC800	"X'83'"- 7-TRACK AND 9-TRACK 800 BPI
	11.. ..11		JFC1600	"X'C3'"- 9-TRACK 1600 BPI
	11.1 ..11		JFC6250	"X'D3'"- 9-TRACK 6250 BPI
95	(5F) SIGNED	3	JFCBABFS	TOTAL BUFFER SIZE FOR ALL VSAM BUFFERS

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
95	(5F) CHARACTER	3	JFCLIMCT	SEARCH LIMIT (BDAM)
95	(5F) CHARACTER	1		RESERVED
96	(60) CHARACTER	2	JFCTRKBL	DATA SET OPENED FOR MOD IF AUTOMATIC STEP RESTART WAS REQUESTED, TRACK BALANCE EXISTING WHEN THE DATA SET WAS FIRST OPENED DURING THE ORIGINAL EXECUTION OF THE CURRENT STEP
98	(62) BITSTRING	2	JFCDSORG	DATA SET ORGANIZATION BEING USED
98	(62) BITSTRING	1	JFCDSRG1	BYTE 1 OF JFCDSORG
	1...		JFCORGIS	"X'80'"- INDEXED SEQUENTIAL
	.1..		JFCORGPS	"X'40'"- PHYSICAL SEQUENTIAL
	..1.		JFCORGDA	"X'20'"- DIRECT
	...1		JFCORGCX	"X'10'"- BTAM OR QTAM LINE GROUP
	.... 1...		JFCORGCQ	"X'08'"- QTAM DIRECT ACCESS MESSAGE QUEUE
	.... .1..		JFCORGMQ	"X'04'"- QTAM PROBLEM PROGRAM MESSAGE QUEUE
	.... ..1.		JFCORGPO	"X'02'"- PARTITIONED
	1		JFCORGU	"X'01'"- UNMOVABLE THE DATA CONTAINS LOCATION DEPENDENT INFORMATION
99	(63) BITSTRING	1	JFCDSRG2	BYTE 2 OF JFCDSORG
	1...		JFCORGGS	"X'80'"- GRAPHICS
	.1..		JFCORGTX	"X'40'"- TCAM LINE GROUP
	..1.		JFCORGTQ	"X'20'"- TCAM MESSAGE QUEUE
	...1		JFCRSV13	"X'10',,C'X'"RESERVED, BINARY ZERO
	.... 1...		JFCORGAM	"X'08'"- VSAM
	.... .1..		JFCORGTR	"X'04'"- TCAM 3705
	.... ..1.		JFCRSV15	"X'02',,C'X'"RESERVED, BINARY ZERO
	1		JFCRSV16	"X'01',,C'X'"RESERVED, BINARY ZERO
100	(64) BITSTRING	1	JFCRECFM	RECORD FORMAT
	11..		JFCFMREC	"X'C0'"- HIGH-ORDER TWO BITS OF JFCRECFM TO BE TESTED FOR RECORD FORMAT
	11..		JFCUND	"X'C0'"- U UNDEFINED
	1...		JFCFIX	"X'80'"- F FIXED
	.1..		JFCVAR	"X'40'"- V VARIABLE
	111.		JFCRCFM	"X'E0'"- RECORD FORMAT (USASI/USASCII)
	..1.		JFCVARD	"X'20'"- D VARIABLE (FORMAT D FOR USASI/USASCII)

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	..1.		JFCRFO	"X'20'"- T TRACK OVERFLOW
	...1		JFCRFB	"X'10'"- B BLOCKED MAY NOT OCCUR WITH UNDEFINED
	.... 1...		JFCRFS	"X'08'"- S FOR FIXED LENGTH RECORD FORMAT, STANDARD BLOCKS. NO TRUNCATED BLOCKS OR UNFILLED TRACKS ARE EMBEDDED IN THE DATA SET. FOR VARIABLE LENGTH RECORD FORMAT, SPANNED RECORDS.
	.... .11.		JFCCHAR	"X'06'"- CONTROL CHARACTER
	.... .1..		JFCASA	"X'04'"- A AMERICAN NATIONAL STANDARD (ASA) CONTROL CHARACTER
	.... ..1.		JFCMAC	"X'02'"- M MACHINE CODE CONTROL CHARACTER
	....		JFCNOCC	"X'00'"- NO CONTROL CHARACTER
101	(65) BITSTRING	1	JFCOPTCD	OPTION CODES

QSAM - BSAM - BPAM

	1...		JFCWVCSP	"X'80'"- W WRITE VALIDITY CHECK
	.1..		JFCALLOW	"X'40'"- U ALLOW A DATA CHECK CAUSED BY AN INVALID CHARACTER (1403 PRINTER WITH UCS FEATURE)
	..1.		JFCPCIBT	"X'20'"- C CHAINED SCHEDULING USING THE PROGRAM CONTROLLED INTERRUPTION
	...1		JFCBCKPT	"X'10'"- BYPASS EMBEDDED DOS CHECKPOINT RECORDS ON TAPE
	.... 1...		JFCRSV18	"X'08',,C'X'"RESERVED
	.... .1..		JFCREDUC	"X'04'"- Z USE REDUCED ERROR RECOVERY PROCEDURE (MAGNETIC TAPE) (EXCP ALSO)
	.... .1..		JFCSRCHD	"X'04'"- USE SEARCH DIRECT (SD), INSTEAD OF SEARCH PREVIOUS, ON ROTATIONAL POSITION SENSING (RPS) DEVICE. (DIRECT ACCESS)
	.... ..1.		JFCRSV21	"X'02',,C'X'"RESERVED
	1		JFCOPTJ	"X'01'"- J 3800 CONTROL CHARACTER

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
BISAM - QISAM				
	1...		JFCWVCIS	"X'80'"- W WRITE VALIDITY CHECK
	.1..		JFCRSV17	"X'40',,C'X'"RESERVED
	..1.		JFCMAST	"X'20'"- M MASTER INDEXES
	...1		JFCIND	"X'10'"- I INDEPENDENT OVERFLOW AREA
	.... 1...		JFCCYL	"X'08'"- Y CYLINDER OVERFLOW AREA
	.... .1..		JFCRSV19	"X'04',,C'X'"RESERVED
	.... ..1.		JFCDEL	"X'02'"- L DELETE OPTION
	1		JFCREORG	"X'01'"- R REORGANIZATION CRITERIA
BDAM				
	1...		JFCWVCBD	"X'80'"- W WRITE VALIDITY CHECK
	.1..		JFCOVER	"X'40'"- TRACK OVERFLOW
	..1.		JFCEXT	"X'20'"- E EXTENDED SEARCH
	...1		JFCFEED	"X'10'"- F FEEDBACK
	.... 1...		JFCACT	"X'08'"- A ACTUAL ADDRESSING
	.... .1..		JFCRSV20	"X'04',,C'X'"RESERVED
	.... ..1.		JFCRSV22	"X'02',,C'X'"RESERVED
	1		JFCREL	"X'01'"- R RELATIVE BLOCK ADDRESSING
USASI/USASCII				
	.... 1...		JFCOPTQ	"X'08'"- EBCDIC TO ASCII OR ASCII TO EBCDIC TRANSLATION REQUIRED
TCAM				
	1...		JFCSDNAM	"X'80'"- SOURCE OR DESTINATION NAME PRECEDES MESSAGE (AFTER CONTROL BYTE)
	.1..		JFCWUMSG	"X'40'"- WORK UNIT IS A MESSAGE (DEFAULT

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				WORK UNIT IS A RECORD)
	..1.		JFCCBWU	"X'20'"- CONTROL BYTE PRECEDES WORK UNIT
102	(66) SIGNED	2	JFCBLKSI	MAXIMUM BLOCK SIZE
102	(66) SIGNED	2	JFCBUFSI	MAXIMUM BUFFER SIZE
102	(66) SIGNED	2	JFCBAXBF	NUMBER OF INDEX BUFFERS (VSAM)
104	(68) CHARACTER	8	JFCAMSYN	MODULE NAME FOR SYNAD ROUTINE FOR VSAM
104	(68) SIGNED	2	JFCLRECL	LOGICAL RECORD LENGTH
106	(6A) SIGNED	1	JFCNCP	NUMBER OF CHANNEL PROGRAMS. NUMBER OF READ OR WRITE REQUESTS WHICH MAY BE ISSUED PRIOR TO A CHECK. NUMBER OF IOB'S GENERATED. (MAXIMUM NUMBER IS 99.) NOTE GAM USES JFCBFTEK FOR THIS INFORMATION AND DOES NOT USE THIS FIELD AT ALL.
106	(6A) SIGNED	1	JFCBUFMX	THE MAXIMUM NUMBER OF BUFFERS TO BE USED FOR DATA TRANSFER FOR EACH LINE IN THIS LINE GROUP (TCAM)
107	(6B) SIGNED	1	JFCBFSEQ	TAPE POSITIONING INFORMATION FOR CHECK-POINT RESTART. THIS FIELD IS USED TO PASS A PHYSICAL FILE SEQUENCE COUNT FROM CHECKPOINT TO RESTART. THE COUNT TELLS THE PHYSICAL POSITION OF THE TAPE VOLUME THAT WAS BEING PROCESSED WHEN THE CHECK-POINT WAS TAKEN.
107	(6B) SIGNED	1	JFCNTM	THE NUMBER OF TRACKS THAT DETERMINE THE DEVELOPMENT OF A MASTER INDEX. MAXIMUM NUMBER IS 99. (ISAM)
107	(6B) BITSTRING	1	JFCPCI	PROGRAM-CONTROLLED INTERRUPTION (PCI) FLAG BYTE (TCAM)
	1...		JFCPCIX1	"X'80'"- PCI=(X,) RECEIVE OPERATIONS
	.1..		JFCPCIX2	"X'40'"- PCI=(,X) SEND OPERATIONS X INDICATES THAT AFTER THE FIRST BUFFER IS FILLED (ON RECEIVE OPERATIONS) OR EMP-TIED (ON SEND OPERATIONS), A PCI OCCURS DURING THE FILLING OR EMPTYING OF THE NEXT BUFFER. THE FIRST BUFFER REMAINS ALLOCATED AND ANOTHER IS ALLOCATED.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
..1.			JFCPCIA1	"X'20'"- PCI=(A,) RECEIVE OPERATIONS
...1			JFCPCIA2	"X'10'"- PCI=(,A) SEND OPERATIONS A INDICATES THAT AFTER THE FIRST BUFFER IS FILLED (ON RECEIVE OPERATIONS) OR EMPTIED (ON SEND OPERATIONS), A PCI OCCURS DURING THE FILLING OR EMPTYING OF THE NEXT BUFFER. THE FIRST BUFFER IS DEALLOCATED. A BUFFER IS ALLOCATED IN PLACE OF THE DEALLOCATED BUFFER.
.... 1...			JFCPCIN1	"X'08'"- PCI=(N,) RECEIVE OPERATIONS
.... .1..			JFCPCIN2	"X'04'"- PCI=(,N) SEND OPERATIONS N INDICATES THAT NO PCI'S ARE TAKEN DURING FILLING (ON RECEIVE OPERATIONS) OR EMPTYING (ON SEND OPERATIONS) OF BUFFERS. BUFFERS ARE DEALLOCATED AT THE END OF TRANSMISSION.
.... ..1.			JFCPCIR1	"X'02'"- PCI=(R,) RECEIVE OPERATIONS
....1			JFCPCIR2	"X'01'"- PCI=(,R) SEND OPERATIONS R INDICATES THAT AFTER THE FIRST BUFFER IS FILLED (ON RECEIVE OPERATIONS) OR EMPTIED (ON SEND OPERATIONS), A PCI OCCURS DURING THE FILLING OR EMPTYING OF EACH SUCCEEDING BUFFER. THE COMPLETED BUFFER IS DEALLOCATED, BUT NO NEW BUFFER IS ALLOCATED TO TAKE ITS PLACE.

NORMAL 108 SEGMENT

108	(6C) BITSTRING	4	JFCRESRV	FIRST BYTE CONTAINS NUMBER OF BYTES FOR TIME OF DAY. SECOND BYTE CONTAINS NUMBER OF BYTES FOR DATE. THIRD BYTE CONTAINS NUMBER OF BYTES FOR OUT SEQ. FOURTH BYTE CONTAINS NUMBER OF BYTES IN. (TCAM)
108	(6C) CHARACTER	4	JFCRBIDC	THE PHYSICAL LOCATION OF WHAT WILL BE THE FIRST STANDARD-LABEL HEADER RECORDS OF THE NEXT DATASET ON THE TAPE VOLUME

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
108	(6C) SIGNED	2	JFCRKP	THE RELATIVE POSITION OF THE FIRST BYTE OF THE KEY WITHIN EACH LOGICAL RECORD. MAXIMUM VALUE IS LOGICAL RECORD LENGTH MINUS KEY LENGTH.
110	(6E) HEX	1	JFCCYLOF	THE NUMBER OF TRACKS TO BE RESERVED ON EACH CYLINDER TO HOLD RECORDS THAT OVERFLOW FROM OTHER TRACKS ON THAT CYLINDER. MAXIMUM VALUE IS 99.
111	(6F) CHARACTER	1	JFCDBUFN	RESERVED
112	(70) HEX	1	JFCINTVL	INTENTIONAL DELAY, IN SECONDS, BETWEEN PASSES THROUGH A POLLING LIST (QTAM)

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  END OF NORMAL 108 SEGMENT
  108 PRINTER SEGMENT
NOTE  THIS SEGMENT REPLACES THE NORMAL 108 SEGMENT IF
  THE DD STATEMENT USES THE UCS PARAMETER.
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108	(6C) CHARACTER	4	JFCUCSID	NAME OF THE UCS IMAGE TO BE LOADED
112	(70) BITSTRING	1	JFCUCSOP	OPERATION OF THE UCS IMAGE TO BE LOADED
	1...		JFCBEXTP	"X'80'"- JFCB EXTENSION PRESENT FOR 3800 DEVICE
	.1..		JFCFOLD	"X'40'"- UCS IMAGE IS TO BE LOADED IN THE FOLD MODE
	..1.		JFCRSV25	"X'20',,C'X'"RESERVED
	...1		JFCVER	"X'10'"- UCS IMAGE IS TO BE VERIFIED
	.... 1...		JFCFCBAL	"X'08'"- FORMS ARE TO BE ALIGNED
	.... .1..		JFCFCBVR	"X'04'"- FORMS CONTROL BUFFER (FCB) IMAGE IS TO BE VERIFIED
	.... ..1.		JFCRSV26	"X'02',,C'X'"RESERVED
	1		JFCRSV27	"X'01',,C'X'"RESERVED

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END OF 108 PRINTER SEGMENT
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OFFSET	TYPE	LENGTH	NAME	DESCRIPTION
113	(71) SIGNED	3	JFCOUTLI	SMF SYSOUT LIMIT. BINARY REPRESENTATION OF THE OUTLIM= PARAMETER ON THE SYSOUT DD STATEMENT. THE MAXIMUM NUMBER OF LOGICAL RECORDS SPECIFIED FOR THIS OUTPUT DATA SET.
113	(71) SIGNED	1	JFCTHRSH	RECORDS TO BE USED
113	(71) BITSTRING	1	JFCCPRI	PRIORITY BETWEEN SEND AND RECEIVE OPERATIONS (TCAM)
	1...		JFCRSV53	"X'80',,C'X'"RESERVED
	.1..		JFCRSV54	"X'40',,C'X'"RESERVED
	..1.		JFCRSV55	"X'20',,C'X'"RESERVED
	...1		JFCRSV33	"X'10',,C'X'"RESERVED
	.... 1...		JFCRSV34	"X'08',,C'X'"RESERVED
	.... .1..		JFCRECV	"X'04'"- RECEIVE PRIORITY
	.... ..1.		JFCEQUAL	"X'02'"- EQUAL PRIORITY
	1		JFCSEND	"X'01'"- SEND PRIORITY
114	(72) SIGNED	2	JFCSOWA	LENGTH, IN BYTES, OF THE USER-PROVIDED WORK AREA (QTAM)
116	(74) HEX	1	JFCBNTCS	NUMBER OF OVERFLOW TRACKS
117	(75) HEX	1	JFCBNVOL	NUMBER OF VOLUME SERIAL NUMBERS
118	(76) CHARACTER	30	JFCBVOLS	THE FIRST FIVE VOLUME SERIAL NUMBERS
118	(76) CHARACTER	22		FIRST 22 BYTES OF JFCBVOLS
140	(8C) CHARACTER	8	JFCMSVGP	MASS STORAGE VOLUME GROUP FROM WHICH TO SELECT A VOLUME
148	(94) HEX	1	JFCBEXTL	LENGTH OF BLOCK OF EXTRA VOLUME SERIAL NUMBERS (BEYOND FIVE)
149	(95) CHARACTER	3	JFCBEXAD	RELATIVE TRACK ADDRESS (TTR) OF FIRST JFCB EXTENSION BLOCK FOR VOLUME SERIAL NUMBERS OR TTR OF JFCB EXTENSION BLOCK FOR 3800
152	(98) CHARACTER	3	JFCBPQTY	PRIMARY QUANTITY OF DIRECT ACCESS STORAGE REQUIRED
152	(98) CHARACTER	3	JFCRUNIT	UNIT TYPE (EBCDIC) OF A DEVICE AT A REMOTE TERMINAL. THE FIRST TWO CHARACTERS ARE RD (READER), PR (PRINTER) OR PU (PUNCH). THE THIRD CHARACTER IS A NUMBER

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				FROM 1 TO 9
155	(9B) BITSTRING	1	JFCBCTRI	SPACE PARAMETERS
	11..		JFCBSPAC	"X'C0'"- BIT PATTERN FOR SPACE REQUESTS
	....		JFCBABS	"X'00'"- ABSTR REQUEST
	.1..		JFCBAVR	"X'40'"- AVERAGE BLOCK LENGTH REQUEST
	1...		JFCBTRK	"X'80'"- TRK REQUEST
	11..		JFCBCYL	"X'C0'"- CYL REQUEST
	..1.		JFCBMSGP	"X'20'"- REQUEST IS FOR A MASS STORAGE VOLUME GROUP (MSVGP) VOLUME
	...1		JFCRSV29	"X'10',,C'X'"RESERVED
	.... 1...		JFCONTIG	"X'08'"- CONTIG REQUEST
	.... .1..		JFCMIXG	"X'04'"- MXIG REQUEST
	.... ..1.		JFCALX	"X'02'"- ALX REQUEST
	1		JFCROUND	"X'01'"- ROUND REQUEST
156	(9C) CHARACTER	3	JFCBSQTY	SECONDARY QUANTITY OF DIRECT ACCESS STORAGE REQUIRED
156	(9C) SIGNED	2	JFCRQID	QUEUE IDENTIFICATION (QID) USED BY ACCESS METHOD TO DETERMINE THE REMOTE TERMINAL LOCATION FOR THIS JOB.
158	(9E) HEX	1		LAST BYTE OF JFCBSQTY
159	(9F) BITSTRING	1	JFCFLGS1	FLAG BYTE
	1...		JFCBDLET	"X'80'"- IF ONE, DELETE THE DATA SET USED WHEN EXTENDING THE JOB QUEUE OR SPOOL DATA SETS (OS/VS1)
	.1..		JFCTOPEN	"X'40'"- TAPE DATA SET HAS BEEN OPENED
	..1.		JFCBADSP	"X'20'"- AUTOMATIC DATA SET PROTECTION INDICATOR
	...1		JFCBPROT	"X'10'"- RACF PROTECT REQUESTED (OS/VS2)
	.... 1...		JFCBCEOV	"X'08'"- IF ONE, CHKPT=EOV SPECIFIED FOR THIS DATA SET
	.... .1..		JFCVRDS	"X'04'"- VIO DATA SET
	.... ..1.		JFCBCKDS	"X'02'"- DATA SET IS CHECKPOINT DATASET
	1		JFCBUAFF	"X'01'"- UNIT AFFINITY SPECIFIED FOR THIS DATA SET
160	(A0) CHARACTER	3	JFCBDQTY	QUANTITY OF DIRECT ACCESS STORAGE REQUIRED FOR A DIRECTORY OR AN EMBEDDED INDEX AREA
163	(A3) ADDRESS	3	JFCBSPNM	MAIN STORAGE ADDRESS OF THE JFCB WITH

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				WHICH CYLINDERS ARE SPLIT (OS/VS1)
163	(A3) BITSTRING	1	JFCBFLG3	FLAG BYTE (OS/VS2)
	1...		JFCDQDSP	"X'80'"- REQUEST DEQUEUE OF TAPE VOLUME WHEN DEMOUNTED
	.1..		JFCBEXP	"X'40'"- EXPIRATION DATE SPECIFIED
	..1.		JFCBBFTK	"X'20'"- LRECL=NNNNNK WAS SPECIFIED
	...1		JFCPOSID	"X'10'"- JFCRBIDO CONTAINS THE PHYSICAL LOCATION ON THE TAPE OF THE FIRST STANDARD-LABEL HEADER RECORD TO BE PROCESSED BY OPEN
	.... 1...		JFCBRV04	"X'08',,C'X'"- RESERVED
	.... .1..		JFCBRV05	"X'04',,C'X'"- RESERVED
	.... ..1.		JFCBRV06	"X'02',,C'X'"- RESERVED
	1		JFCBRV07	"X'01',,C'X'"- RESERVED
164	(A4) SIGNED	2	JFCBRV08	RESERVED (OS/VS2)
166	(A6) SIGNED	2	JFCBABST	RELATIVE ADDRESS OF FIRST TRACK TO BE ALLOCATED
168	(A8) ADDRESS	3	JFCBSBNM	MAIN STORAGE ADDRESS OF THE JFCB FROM WHICH SPACE IS TO BE SUBALLOCATED
171	(AB) CHARACTER	3	JFCBDRLH	AVERAGE DATA BLOCK LENGTH
174	(AE) HEX	1	JFCBVLCT	VOLUME COUNT
175	(AF) HEX	1	JFCBSPTN	NUMBER OF TRACKS PER CYLINDER TO BE USED BY THIS DATA SET WHEN SPLIT CYLINDER IS INDICATED
	1.11		JFCBLGTH	"176"- LENGTH OF JFCB
	1.11		JFCBEND	"x"

CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
INFMJFCB	0	00	JFCBEXP	A3	40	JFCBRV05	A3	04
JFCABN	5C	20	JFCBEXTL	94		JFCBRV06	A3	02
JFCACC	5C	80	JFCBEXTP	70	80	JFCBRV07	A3	01
JFCACT	65	08	JFCBFALN	59		JFCBRV08	A4	
JFCADDED	56	0C	JFCBFLG1	4D		JFCBRWPW	57	30
JFCALLOW	65	40	JFCBFLG2	4E		JFCBSBNM	A8	
JFCALX	9B	02	JFCBFLG3	A3		JFCBSCTY	57	10
JFCAMCRO	38		JFCBFLSQ	44		JFCBSPAC	9B	C0
JFCAMPTR	58		JFCBFOFL	43	80	JFCBSPNM	A3	
JFCAMSTR	3A		JFCBFOUT	58		JFCBSPTN	AF	
JFCAMSYN	68		JFCBFRID	38		JFCBSQTY	9C	
JFCASA	64	04	JFCBFSEQ	6B		JFCBSTAT	57	40
JFCASCII	5D	04	JFCBFTEK	59		JFCBTRK	9B	80
JFCBABFS	5F		JFCBGDGA	57	04	JFCBTSDM	34	
JFCBABS	9B	00	JFCBGNCP	59		JFCBUAFF	9F	01
JFCBABST	A6		JFCBHIAR	59		JFCBUFIN	58	
JFCBADBF	3C		JFCBIN	5D	80	JFCBUFL	5A	
JFCBADSP	9F	20	JFCBIND1	56		JFCBUFMX	6A	
JFCBAL	42	40	JFCBIND2	57		JFCBUFNO	58	
JFCBAVR	9B	40	JFCBLGTH	AF	B0	JFCBUFOF	43	
JFCBAXBF	66		JFCBLKSI	66		JFCBUFRQ	58	
JFCBBFTA	59	60	JFCBLOCT	56	10	JFCBUFSI	66	
JFCBBFTK	A3	20	JFCBLP	42	10	JFCBUR	5D	10
JFCBBFTR	59	20	JFCBLTM	42	20	JFCBVLCT	AE	
JFCBBUFF	4E	02	JFCBLTYP	42		JFCBVLSQ	46	
JFCBCD	5D	40	JFCBMASK	48		JFCBVOLS	76	
JFCBCFOV	9F	C0	JFCBMSGP	9B	20	JFCBXPDT	53	
JFCBCKDS	9F	02	JFCBNEWV	56	04	JFCCAT	34	80
JFCBCKPT	65	10	JFCBNTCS	74		JFCCBWU	65	20
JFCBCRDT	50		JFCBNVOL	75		JFCCHAR	64	06
JFCBCTRI	9B		JFCBOPS1	48		JFCCODE	5D	
JFCBCYL	9B	C0	JFCBOPS2	4F		JFCCONV	5D	13
JFCBDLET	9F	80	JFCBOTTR	43		JFCCPRI	71	
JFCBDQTY	A0		JFCBPMEM	56	01	JFCCYL	65	08
JFCBDRLH	AB		JFCBPQTY	98		JFCCYLOF	6E	
JFCBDSCB	35		JFCBPROT	9F	10	JFCDBUFN	6F	
JFCBDSNM	0		JFCBPWBP	4D	01	JFCDEFER	4E	20
JFCBELNM	2C		JFCBQNAM	0		JFCDEL	65	02
JFCBEND	AF	B0	JFCBRLSE	56	40	JFCDEN	5E	
JFCBEXAD	95		JFCBRV04	A3	08	JFCDISP	57	C0

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
JFCDQDSP	A3	80	JFCLRECL	68		JFCORGU	62	01
JFCDSORG	62		JFCMAC	64	02	JFCOUTLI	71	
JFCDSRG1	62		JFCMAST	65	20	JFCOUTOP	4E	40
JFCDSRG2	63		JFCMIXG	9B	04	JFCOVER	65	40
JFCDUAL	4D	10	JFCMOD	57	80	JFCPAT	34	01
JFCDWORD	59	02	JFCMODE	5D		JFCPCI	6B	
JFCDYN	59	08	JFCMODEO	5D	20	JFCPCIA1	6B	20
JFCEBCD	5D	40	JFCMODER	5D	10	JFCPCIA2	6B	10
JFCENT	57	04	JFCMODNW	4E	10	JFCPCIBT	65	20
JFCEQUAL	71	02	JFCMSVGP	8C		JFCPCIN1	6B	08
JFCEROPT	5C		JFCNCP	6A		JFCPCIN2	6B	04
JFCEVEN	5D	23	JFCNCR	5D	08	JFCPCIR1	6B	02
JFCEXC	59	10	JFCNDCB	34	02	JFCPCIR2	6B	01
JFCEXT	65	20	JFCNDSCB	34	04	JFCPCIX1	6B	80
JFCFCBAL	70	08	JFCNEW	57	C0	JFCPCIX2	6B	40
JFCFCBID	38		JFCNL	42	01	JFCPDS	56	01
JFCFCBVR	70	04	JFCNLREC	3E		JFCPOSID	A3	10
JFCFEED	65	10	JFCNOCC	64	00	JFCPRTSP	5D	
JFCFIX	64	80	JFCNOCON	5D	80	JFCRBIDC	6C	
JFCFLGS1	9F		JFCNRPS	4E	20	JFCRBIDO	38	
JFCFMREC	64	C0	JFCNSL	42	04	JFCRCFM	64	E0
JFCFNCBD	44	08	JFCNTM	6B		JFCRCTLG	4E	01
JFCFNCBI	44	80	JFCNWRIT	34	08	JFCRECFM	64	
JFCFNCBP	44	20	JFCOLD	57	40	JFCRECV	71	04
JFCFNCBR	44	40	JFCONE	5D	01	JFCREDUC	65	04
JFCFNCBT	44	02	JFCONTIG	9B	08	JFCREL	65	01
JFCFNCBW	44	10	JFCOPEN	4D	0F	JFCREORG	65	01
JFCFNCBX	44	04	JFCOPTCD	65		JFCREQ	57	02
JFCFOLD	70	40	JFCOPTJ	65	01	JFCRESRV	6C	
JFCFRI	5D	20	JFCOPTQ	65	08	JFCRFB	64	10
JFCFUNC	44		JFCORGAM	63	08	JFCRFO	64	20
JFCFWORD	59	01	JFCORGCQ	62	08	JFCRFS	64	08
JFCGDG	56	02	JFCORGCX	62	10	JFCRKP	6C	
JFCHIER	59	84	JFCORGDA	62	20	JFCRLSE	56	C0
JFCHIER1	59	04	JFCORGGS	63	80	JFCROUND	9B	01
JFCIND	65	10	JFCORGIS	62	80	JFCRQID	9C	
JFCINOP	4E	80	JFCORGMQ	62	04	JFCRSV02	5C	08
JFCINTVL	70		JFCORGPO	62	02	JFCRSV03	5C	04
JFCIPLTX	2C		JFCORGPS	62	40	JFCRSV04	5C	02
JFCKEYLE	5D		JFCORGTQ	63	20	JFCRSV05	5C	01
JFCLIMCT	5F		JFCORGTR	63	04	JFCRSV06	5D	08
JFCLOC	56	30	JFCORGTX	63	40	JFCRSV07	5D	04

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
JFCRSV13	63	10	JFCSDS	34	20	JFCTREV	5D	2B
JFCRSV15	63	02	JFCSECUR	57	10	JFCTRKBL	60	
JFCRSV16	63	01	JFCSEND	71	01	JFCTRTCH	5D	
JFCRSV17	65	40	JFCSHARE	57	08	JFCTTR	34	10
JFCRSV18	65	08	JFCSIM	59	40	JFCTTY	5D	02
JFCRSV19	65	04	JFCSKP	5C	40	JFCTWO	5D	02
JFCRSV20	65	04	JFCSL	42	02	JFCUCSID	6C	
JFCRSV21	65	02	JFCSLCRE	4D	40	JFCUCSOP	70	
JFCRSV22	65	02	JFCSLDES	4D	20	JFCUND	64	C0
JFCRSV25	70	20	JFCSOWA	72		JFCVAR	64	40
JFCRSV26	70	02	JFCSPNO	5D	01	JFCVARD	64	20
JFCRSV27	70	01	JFCSPONE	5D	09	JFCVER	70	10
JFCRSV29	9B	10	JFCSPTHR	5D	19	JFCVINDX	40	
JFCRSV31	44	01	JFCSPTWO	5D	11	JFCVRDS	9F	04
JFCRSV32	5D	01	JFCSRCHD	65	04	JFCVSL	34	40
JFCRSV33	71	10	JFCSTACK	5D		JFCWUMSG	65	40
JFCRSV34	71	08	JFCSTAND	4D	80	JFCWVCBD	65	80
JFCRSV38	42	80	JFCSUL	42	0A	JFCWVCIS	65	80
JFCRSV53	71	80	JFCTEMP	57	01	JFCWVCSP	65	80
JFCRSV54	71	40	JFCTHRSH	71		JFC1600	5E	C3
JFCRSV55	71	20	JFCTOPEN	9F	40	JFC200	5E	03
JFCRUNIT	98		JFCTOPT	5C	10	JFC556	5E	43
JFCSDNAM	65	80	JFCTRACE	4E	04	JFC6250	5E	D3
JFCSDRPS	4E	08	JFCTRAN	5D	3B	JFC800	5E	83

JFCBE

Common Name : Job File Control Block Extension for 3800
Macro ID : IEFJFCBE
DSECT Name : JFCBE
Created by : Interpreter
Subpool and Key : SWA (subpool 236 or 237) and key 1
Size : 176 bytes
Pointed to by : JFCBEXAD field of the JFCB data area.
Serialization : None
Function : The JFCBE contains device-dependent information for the 3800.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	JFCBE	
0	(0) CHARACTER	3	JFCBEXTR	DIRECT ACCESS ADDRESS FOR NEXT EXTENSION BLOCK
3	(3) HEX	1	JFCBE001	RESERVED
4	(4) BITSTRING	1	JFCBFLAG	FLAG BYTE
	1...		JFCBEOPN	"X'80'"- USER OPEN EXIT MODIFIED THIS BLOCK
	.1..		JFCBE003	"X'40',,C'X'"- RESERVED
	..1.		JFCBE004	"X'20',,C'X'"- RESERVED
	...1		JFCBE005	"X'10',,C'X'"- RESERVED
	.... 1...		JFCBE006	"X'08',,C'X'"- RESERVED
	.... .1..		JFCBCFS	"X'04'"- CONTINUOUS FORM STACKING
	.... ..1.		JFCBBST	"X'02'"- RESERVED
	1		JFCBE007	"X'01',,C'X'"- RESERVED
5	(5) SIGNED	1	JFCIDTRC	TABLE REFERENCE CHARACTER FOR COPY MODIFICATION PATTERN
6	(6) HEX	1	JFCBE008	RESERVED
7	(7) SIGNED	1	JFCIMTOT	NUMBER OF IMAGE COPIES
8	(8) CHARACTER	4	JFCBMAGT	FORMS IMAGE CARTRIDGE ID
12	(C) CHARACTER	4	JFCMODIF	COPY MODIFICATION ID

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
16	(10) CHARACTER	4	JFCBE009	RESERVED
20	(14) CHARACTER	4	JFCBTRS1	NAME OF TRANSLATE TABLE 1
24	(18) CHARACTER	4	JFCBTRS2	NAME OF TRANSLATE TABLE 2
28	(1C) CHARACTER	4	JFCBTRS3	NAME OF TRANSLATE TABLE 3
32	(20) CHARACTER	4	JFCBTRS4	NAME OF TRANSLATE TABLE 4
36	(24) CHARACTER	8	JFCGROUP	OUTPUT DISTRIBUTION IN GROUPS
36	(24) SIGNED	1	JFCGRP1	FOR FIRST GROUP, NUMBER OF TIMES EACH PAGE IS PRINTED BEFORE GOING TO NEXT PAGE
37	(25) SIGNED	1	JFCGRP2	FOR SECOND GROUP, NUMBER OF TIMES EACH PAGE IS PRINTED BEFORE GOING TO NEXT PAGE
38	(26) SIGNED	1	JFCGRP3	FOR THIRD GROUP, NUMBER OF TIMES EACH PAGE IS PRINTED BEFORE GOING TO NEXT PAGE
39	(27) SIGNED	1	JFCGRP4	FOR FOURTH GROUP, NUMBER OF TIMES EACH PAGE IS PRINTED BEFORE GOING TO NEXT PAGE
40	(28) SIGNED	1	JFCGRP5	FOR FIFTH GROUP, NUMBER OF TIMES EACH PAGE IS PRINTED BEFORE GOING TO NEXT PAGE
41	(29) SIGNED	1	JFCGRP6	FOR SIXTH GROUP, NUMBER OF TIMES EACH PAGE IS PRINTED BEFORE GOING TO NEXT PAGE
42	(2A) SIGNED	1	JFCGRP7	FOR SEVENTH GROUP, NUMBER OF TIMES EACH PAGE IS PRINTED BEFORE GOING TO NEXT PAGE
43	(2B) SIGNED	1	JFCGRP8	FOR EIGHTH GROUP, NUMBER OF TIMES EACH PAGE IS PRINTED BEFORE GOING TO NEXT PAGE
44	(2C) HEX	132	JFCBE010	RESERVED

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
1.11			JFCBELEN	"*-JFCBE"- LENGTH OF JFCB EXTENSION
..1. 11..			JFCBEULN	"JFCBE010-JFCBE"LENGTH OF USED FIELDS IN JFCB EXTENSION

JFCBX

Common Name : Job File Control Block Extension
Macro ID : IEFJFCBX
DSECT Name : No DSECT card put out by macro
Created by : The interpreter
Subpool and Key : SWA (subpool 236 or 237) and key 1
Size : 176 bytes
Pointed to by : JFCBEXAD field of the JFCB data area
SIOTJFX field of the SIOT data area
Serialization : None
Function : The JFCBX is used to record volume serial numbers in excess of the five recorded in the JFCBVOLS field of the JFCB.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) CHARACTER	3	JFCBXTTR	DIRECT ACCESS ADDRESS FOR NEXT EXTENSION BLOCK
3	(3) CHARACTER	1		RESERVED
4	(4) CHARACTER	6	JFCBXVOL(15)	MAXIMUM NO. OF 15-SIX BYTE VOL. SER. NUMBERS
94	(5E) CHARACTER	2		RESERVED
96	(60) CHARACTER	44	JFCBXNAM	ALIAS NAME FOR DSNAME IN THE JFCB
140	(8C) CHARACTER	4	JFCBXDEV	DEVICE TYPE RETRIEVED FROM CATALOG FOR RECATALOG
144	(90) CHARACTER	28		RESERVED
172	(AC) ADDRESS	4	JFCBXNXT	ADDRESS OF NEXT JFCB EXTENSION

JSCB

Common Name : Job Step Control Block
Macro ID : IEZJSCB
DSECT Name : IEZJSCB
Created by : IEESB606, IEESB601, IEFIB600
Subpool and Key : 253 and key 0
Size : 192 bytes
Pointed to by : TCBJSCB field of the TCB data area
LCTJSCB field of the LCT data area
JSCBJNL field of the JSCB data area (initiated JSCB)
JSCBACT field of the JSCB data area (active JSCB)
Serialization : None
Function : Communication of job- or step-related data items.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	IEZJSCB	
SECTION 1 DATA ITEMS USED IN OS/VS1 AND OS/VS2				
	1.11 11..		JSCBSEC1	"x"- START OF JSCB SECTION 1
188	(BC) SIGNED	4	JSCRSV01	RESERVED
192	(C0) ADDRESS	4	JSCHPCE	ADDRESS OF OPTIONAL JOB ENTRY SUBSYSTEM (JES) PROCESSOR CONTROL ELEMENT
192	(C0) HEX	1	JSCRSV32	RESERVED
193	(C1) ADDRESS	3	JSCHPCEA	ADDRESS OF OPTIONAL JOB ENTRY SUBSYSTEM (JES) PROCESSOR CONTROL ELEMENT
196	(C4) ADDRESS	4	JSCBSHR	ADDRESS OF ASSEMBLY CHAIN (VSAM)
200	(C8) ADDRESS	4	JSCBTCP	ADDRESS OF TIOT CHAINING ELEMENT CHAIN (VSAM)

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
204	(CC) ADDRESS	4	JSCBPCC	ADDRESS OF PRIVATE CATALOG CONTROL BLOCK CHAIN (VSAM)
208	(D0) ADDRESS	4	JSCBTCBP	ADDRESS OF INITIATOR'S TCB (VSAM)
212	(D4) ADDRESS	4	JSCBIJSC	ADDRESS OF JSCB OF THE INITIATOR THAT ATTACHED THIS JOB STEP (OS/VS1)
216	(D8) ADDRESS	4	JSCBDBTB	ADDRESS OF THE DEB TABLE FOR THIS JOB STEP (OS/VS1)
220	(DC) CHARACTER	4	JSCBID	JOB SERIAL NUMBER
224	(E0) ADDRESS	4	JSCBDCB	ADDRESS OF DCB FOR DATA SET CONTAINING SCHEDULER TABLES FOR THIS JOB
224	(E0) HEX	1	JSCRSV02	RESERVED
225	(E1) ADDRESS	3	JSCBDCBA	ADDRESS OF DCB FOR DATA SET CONTAINING SCHEDULER TABLES FOR THIS JOB
228	(E4) SIGNED	1	JSCBSTEP	CURRENT STEP NUMBER. THE FIRST STEP IS NUMBER 1.
229	(E5) HEX	3	JSCRSV03	RESERVED
232	(E8) CHARACTER	4	JSCBSECB	ECB FOR COMMUNICATION BETWEEN MAIN STORAGE SUPERVISOR AND THE INITIATOR
236	(EC) BITSTRING	1	JSCBOPTS	OPTION SWITCHES
	1...		JSCRSV04	"X'80',,C'X'"- RESERVED
	.1..		JSCRSV05	"X'40',,C'X'"- RESERVED
	..1.		JSCBLONG	"X'20'"- THE PARTITION CANNOT BE REDEFINED BECAUSE THE JOB OCCUPYING IT IS DEFINED AS LONG RUNNING (OS/VS1)
	...1		JSCRSV06	"X'10',,C'X'"- RESERVED
	.... 1...		JSCRSV07	"X'08',,C'X'"- RESERVED
	.... .1..		JSCRSV08	"X'04',,C'X'"- RESERVED
	.... ..1.		JSCSIOTS	"X'02'"- CHECKPOINT MUST SCAN SIOT
	1		JSCBAUTH	"X'01'"- THE STEP REPRESENTED BY THIS JSCB IS AUTHORIZED TO ISSUE THE MODESET

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
237	(ED) HEX	3	JSCRSV10	MACRO INSTRUCTION RESERVED
240	(F0) HEX	3	JSCBTTTR	JOB QUEUE ADDRESS (TTR) OF TIOT EXTENSION (OS/VS2)
243	(F3) BITSTRING	1	JSCBSWT1	STATUS SWITCHES (OS/VS2)
	1...		JSCBPASS	"X'80'"- WHEN THIS BIT IS SET TO ONE AND A CORRESPONDING BIT IN THE DCB IS SET TO ONE, OPEN WILL BYPASS PASSWORD PROTECTION FOR THE DATA SET BEING OPENED (OS/VS2)
	.1..		JSCRSV11	"X'40',,C'X'"- RESERVED
	..1.		JSCRSV12	"X'20',,C'X'"- RESERVED
	...1		JSCRSV13	"X'10',,C'X'"- RESERVED
	.... 1...		JSCRSV14	"X'08',,C'X'"- RESERVED
	.... .1..		JSCRSV15	"X'04',,C'X'"- RESERVED
	.... ..1.		JSCRSV16	"X'02',,C'X'"- RESERVED
	1		JSCBPMSG	"X'01'"- A MESSAGE HAS BEEN ISSUED BECAUSE THE DUMP DATA SET WAS NOT SUCCESSFULLY OPENED. PREVENTS USE OF MULTIPLE SMB'S FOR MULTIPLE OPEN FAILURES IN JOB STEP. (OS/VS2)
244	(F4) ADDRESS	4	JSCBQMPI	ADDRESS OF THE QUEUE MANAGER PARAMETER AREA (QMPA) FOR THE JOB'S INPUT QUEUE TABLE ENTRIES (OS/VS2)
248	(F8) ADDRESS	4		RESERVED (WAS JSCBQMPO)
252	(FC) CHARACTER	4	JSCBWTP	WRITE-TO-PROGRAMMER (WTP) DATA
252	(FC) BITSTRING	1	JSCBWTFG	FLAGS USED BY WTP SUPPORT
	1...		JSCBIOFG	"X'80'"- THE PREVIOUS WTP I/O OPERATION HAD AN I/O ERROR
	.1..		JSCBRET	"X'40'"- TEXT BREAKING INDICATOR, ADDITIONAL MESSAGE TEXT SCANNING REQUIRED (OS/VS1)
	..1.		JSCRSV18	"X'20',,C'X'"- RESERVED
	...1		JSCRSV19	"X'10',,C'X'"- RESERVED
	.... 1...		JSCRSV20	"X'08',,C'X'"- RESERVED
	.... .1..		JSCRSV21	"X'04',,C'X'"- RESERVED

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	.... ..1.		JSCRSV22	"X'02',,C'X'"- RESERVED
	1		JSCRSV23	"X'01',,C'X'"- RESERVED
253	(FD) SIGNED	1	JSCBWTSP	NUMBER OF THE LAST JOB STEP TO ISSUE WTP
254	(FE) SIGNED	2	JSCBPMG	NUMBER OF WTP OPERATIONS ISSUED FOR THE STEP IDENTIFIED BY JSCBWTSP
256	(100) ADDRESS	4	JSCBCSCB	ADDRESS OF COMMAND SCHEDULING CONTROL BLOCK (CSCB) USED TO PROCESS COMMANDS RECEIVED FOR THIS JOB STEP
	.1.. 1...		JSCBS1LN	"(*-JSCBSEC1)"- LENGTH OF SECTION 1
SECTION 2 DATA ITEMS USED ONLY IN OS/VS1				
			JSCBSEC2	"*"- START OF JSCB SECTION 2
CURRENTLY NO OS/VS1 ONLY DATA ITEMS				
	....		JSCBS2LN	"(*-JSCBSEC2)"- LENGTH OF SECTION 2
SECTION 3 DATA ITEMS USED ONLY IN OS/VS2				
			JSCBSEC3	"*"- START OF JSCB SECTION 3
260	(104) SIGNED	4	JSCBJCT	TTR OF JOB'S JCT
260	(104) HEX	1	JSCRSV24	RESERVED
261	(105) CHARACTER	3	JSCJCTP	ALIAS FOR JSCBJCTA
261	(105) CHARACTER	3	JSCBJCTA	TTR OF JOB'S JCT
264	(108) ADDRESS	4	JSCBPSCB	ADDRESS OF TSO PROTECTED STEP CONTROL BLOCK
268	(10C) SIGNED	2	JSCBASID	ADDRESS SPACE IDENTIFIER
268	(10C) SIGNED	2	JSCBTJID	TSO TERMINAL JOB IDENTIFIER

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
270	(10E) BITSTRING	1	JSCBFBYT	FLAG BYTE
	1...		JSCBRV01	"X'80',,C'X'"- RESERVED
	.1..		JSCBADSP	"X'40'"- AUTOMATIC DATA SET PROTECTION FOR THIS USER
	..1.		JSCBRV02	"X'20',,C'X'"- RESERVED
	...1		JSCBRV03	"X'10',,C'X'"- RESERVED
	.... 1...		JSCBRV04	"X'08',,C'X'"- RESERVED
	.... .1..		JSCBRV05	"X'04',,C'X'"- RESERVED
	.... ..1.		JSCBRV06	"X'02',,C'X'"- RESERVED
	1		JSCBRV07	"X'01',,C'X'"- RESERVED
271	(10F) HEX	1	JSCBRV08	RESERVED
272	(110) SIGNED	4	JSCBIECB	ECB USED FOR COMMUNICATION BETWEEN DYNAMIC ALLOCATION AND THE INITIATOR IN ORDER TO PERFORM DATA SET INTEGRITY
276	(114) CHARACTER	8	JSCBJRBA	JOB JOURNAL RELATIVE BYTE ADDRESS (RBA)
284	(11C) ADDRESS	4		RESERVED (WAS JSCBSWAB)
288	(120) ADDRESS	4	JSCBJNL	INITIATOR JSCB ONLY ADDRESS OF JSCB FOR STEP BEING INITIATED. OTHERWISE, ZERO
288	(120) BITSTRING	1	JSCBJJSB	JOB JOURNAL STATUS INDICATORS
	1...		JSCBJNLN	"X'80'"- NOTHING SHOULD BE WRITTEN IN JOURNAL
	.1..		JSCBJNLF	"X'40'"- NO JOB JOURNAL
	..1.		JSCBJNLE	"X'20'"- ERROR IN JOURNAL, DO NOT WRITE
EQU	X'10' -		RESERVED (WAS JSCBJSBJ)	
	.... 1...		JSCBJSBI	"X'08'"- JOB HAS NOT ENTERED ALLOCATION FOR THE FIRST TIME
	.... .1..		JSCBJSBA	"X'04'"- JOB HAS ENTERED ALLOCATION
	.... ..1.		JSCBJSBX	"X'02'"- JOB HAS COMPLETED ALLOCATION
	1		JSCBJSBT	"X'01'"- JOB HAS ENTERED TERMINATION
289	(121) ADDRESS	3	JSCBJNLA	INITIATOR JSCB ONLY ADDRESS OF JSCB FOR STEP BEING INITIATED. OTHERWISE, ZERO

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
292 (124)	ADDRESS	4	JSCBJNLR	POINTER TO JOB JOURNAL RPL
296 (128)	ADDRESS	4	JSCBSMLR	ADDRESS OF SYSTEM MESSAGE DATA SET RPL
300 (12C)	ADDRESS	4	JSCBSUB	ADDRESS OF JES-SUBTL FOR THIS JOB STEP
300 (12C)	HEX	1	JSCRSV31	RESERVED
301 (12D)	ADDRESS	3	JSCBSUBA	ADDRESS OF JES-SUBTL FOR THIS JOB STEP
304 (130)	SIGNED	2	JSCBSONO	THE NUMBER OF SYSOUT DATA SETS PLUS ONE
306 (132)	SIGNED	2	JSCRSV28	RESERVED
308 (134)	CHARACTER	8	JSCBFRBA	RELATIVE BYTE ADDRESS (RBA) OF THE FIRST JOURNAL BLOCK
316 (13C)	ADDRESS	4	JSCBSSIB	ADDRESS OF THE SUBSYSTEM IDENTIFICATION BLOCK
320 (140)	ADDRESS	4	JSCDSABQ	ADDRESS OF QDB FOR DSAB CHAIN
324 (144)	ADDRESS	4	JSCRSV54	RESERVED
328 (148)	SIGNED	4	JSCSCT	TTR OF SCT
328 (148)	HEX	1	JSCRSV55	RESERVED
329 (149)	CHARACTER	3	JSCSCTP	TTR OF SCT
332 (14C)	ADDRESS	4	JSCTMCOR	ADDRESS OF TIOT MAIN STORAGE MANAGEMENT AREA
336 (150)	ADDRESS	4	JSCBVATA	ADDRESS OF VAT USED DURING SYSTEM RESTART OR AUTOMATIC RESTART
340 (154)	SIGNED	2	JSCDDNNO	COUNTER USED BY DYNAMIC ALLOCATION TO GENERATE DD NAMES
342 (156)	SIGNED	2	JSCRSV53	RESERVED
344 (158)	SIGNED	2	JSCDDNUM	NUMBER OF DD ENTRIES CURRENTLY ALLOCATED INCLUDING IN USE AND NOT IN USE ENTRIES

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
346	(15A) HEX	1	JSCRSV33	RESERVED
347	(15B) SIGNED	1	JSCBSWSP	SWA SUBPOOL
348	(15C) ADDRESS	4	JSCBACT	POINTER TO ACTIVE JSCB
352	(160) ADDRESS	4	JSCBUFPT	ADDRESS OF ALLOCATION/UNALLOCATION WRITE-TO-PROGRAMMER BUFFER
356	(164) ADDRESS	4	JSCBASWA	POINTER TO THE LAST ALLOCATION ESTAE WORK AREA
360	(168) CHARACTER	8	JSCBPGMN	JOB STEP PROGRAM NAME
368	(170) ADDRESS	4	JSCRSV44	RESERVED
372	(174) SIGNED	4	JSCRSV45	RESERVED
372	(174) SIGNED	2	JSCRSV46	RESERVED
372	(174) BITSTRING	1	JSCRSV48	RESERVED
373	(175) BITSTRING	1	JSCRSV49	RESERVED
374	(176) SIGNED	2	JSCRSV47	RESERVED
374	(176) BITSTRING	1	JSCRSV50	RESERVED
375	(177) BITSTRING	1	JSCRSV51	RESERVED
376	(178) ADDRESS	4	JSCRSV52	RESERVED
	.111 1...		JSCBS3LN	"(*-JSCBSEC3)"- LENGTH OF SECTION 3
	1.11 11..		JSCBDISP	"(260-JSCBS1LN)"- DISPLACEMENT OF FIRST JSCB DATA BYTE
	.1.. 1...		JSCBAOS1	"JSCBS1LN+JSCBS2LN"- OS/VS1 JSCB LENGTH
	11..		JSCBAOS2	"JSCBS1LN+JSCBS3LN"- OS/VS2 JSCB LENGTH

END OF JSCB

CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
IEZJSCB	0		JSCBPSCB	108		JSCHPCEA	C1	
JSCBACT	15C		JSCBQMPI	F4		JSCJCTP	105	
JSCBADSP	10E	40	JSCBRET	FC	40	JSCRSV01	BC	
JSCBAOS1	178	48	JSCBRV01	10E	80	JSCRSV02	E0	
JSCBAOS2	178	C0	JSCBRV02	10E	20	JSCRSV03	E5	
JSCBASID	10C		JSCBRV03	10E	10	JSCRSV04	EC	80
JSCBASWA	164		JSCBRV04	10E	08	JSCRSV05	EC	40
JSCBAUTH	EC	01	JSCBRV05	10E	04	JSCRSV06	EC	10
JSCBCSCB	100		JSCBRV06	10E	02	JSCRSV07	EC	08
JSCBDBTB	D8		JSCBRV07	10E	01	JSCRSV08	EC	04
JSCBDCB	E0		JSCBRV08	10F		JSCRSV10	ED	
JSCBDCBA	E1		JSCBSECB	E8		JSCRSV11	F3	40
JSCBDISP	178	BC	JSCBSEC1	0	BC	JSCRSV12	F3	20
JSCBFBYT	10E		JSCBSEC2	100	0104	JSCRSV13	F3	10
JSCBFRBA	134		JSCBSEC3	100	0104	JSCRSV14	F3	08
JSCBID	DC		JSCBSHR	C4		JSCRSV15	F3	04
JSCBIECB	110		JSCBSMLR	128		JSCRSV16	F3	02
JSCBIJSC	D4		JSCBSONO	130		JSCRSV18	FC	20
JSCBIOFG	FC	80	JSCBSSIB	13C		JSCRSV19	FC	10
JSCBJCT	104		JSCBSTEP	E4		JSCRSV20	FC	08
JSCBJCTA	105		JSCBSUB	12C		JSCRSV21	FC	04
JSCBJJSB	120		JSCBSUBA	12D		JSCRSV22	FC	02
JSCBJNL	120		JSCBSWSP	15B		JSCRSV23	FC	01
JSCBJNLA	121		JSCBSWT1	F3		JSCRSV24	104	
JSCBJNLE	120	20	JSCBS1LN	100	48	JSCRSV28	132	
JSCBJNLF	120	40	JSCBS2LN	100	00	JSCRSV31	12C	
JSCBJNLN	120	80	JSCBS3LN	178	78	JSCRSV32	C0	
JSCBJNLR	124		JSCBTCBP	D0		JSCRSV33	15A	
JSCBJRBA	114		JSCBTCP	C8		JSCRSV44	170	
JSCBJSBA	120	04	JSCBTJID	10C		JSCRSV45	174	
JSCBJSBI	120	08	JSCBTTTR	F0		JSCRSV46	174	
JSCBJSBT	120	01	JSCBUFPT	160		JSCRSV47	176	
JSCBJSBX	120	02	JSCBVATA	150		JSCRSV48	174	
JSCBLONG	EC	20	JSCBWTFG	FC		JSCRSV49	175	
JSCBOPTS	EC		JSCBWTP	FC		JSCRSV50	176	
JSCBPASS	F3	80	JSCBWTSP	FD		JSCRSV51	177	
JSCBPCC	CC		JSCDDNNO	154		JSCRSV52	178	
JSCBPGMN	168		JSCDDNUM	158		JSCRSV53	156	
JSCBPMG	FE		JSCDSABQ	140		JSCRSV54	144	
JSCBPMSG	F3	01	JSCHPCE	C0		JSCRSV55	148	

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
JSCSCT	148		JSCSIOTS	EC	02	JSCTMCOR	14C	
JSCSCTP	149							

LCCA

Common Name : Logical Configuration Communication Area
Macro ID : IHALCCA
DSECT Name : LCCA
Created by : IEAVNIP0, IEAVCPU
Subpool and Key : 245 and key 0
Size : 1712 bytes
Pointed to by : PSALCCAV field of the PSA data area
PSALCCAR field of the PSA data area
LCCATxxP field of the LCCAVT data area
(where xx is the processor number)
LCCADCPU field of the LCCA data area
(failing processor's LCCA)
LCCARCPU field of the LCCA data area
(recovering processor's LCCA)
Serialization : Disablement
Function : Contains information about processors in the system that is needed by LCCA routines.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	LCCA	
0	(0) CHARACTER	4	LCCALCCA	CONTROL BLOCK ACRONYM IN EBCDIC
4	(4) SIGNED	2	LCCACPUA	LOGICAL CPU ADDRESS
6	(6) SIGNED	2	LCCAOCPU	PHYSICAL ADDRESS OF THE OTHER CPU IN AN MP ENVIRONMENT.
8	(8) SIGNED	4	LCCAPGR1(16)	PROGRAM FLIH RECURSION REGISTER SAVE AREA
72	(48) SIGNED	4	LCCAPGR2(16)	PROGRAM FLIH MAIN ENTRY REGISTER SAVE AREA
136	(88) HEX	8	LCCAPPSW	PROGRAM CHECK FLIH PSW SAVE AREA

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
144	(90) SIGNED	4	LCCAPINT	PROGRAM CHECK FLIH ILC AND INTERRUPT CODE SAVE AREA
148	(94) SIGNED	4	LCCAPVAD	TRANSLATION EXCEPTION ADDRESS SAVE AREA
	1...		LCCAPVXM	"X'80'"- TEA MODE STATE 0 = PRIMARY 1 = SECONDARY
152	(98) SIGNED	4	LCCAMCR1	MASTER MEMORY'S STOR REGISTER VALUE
156	(9C) SIGNED	4	LCCACR0	WORK AREA FOR TESTING BITS IN CONTROL REGISTER 0
160	(A0) SIGNED	4	LCCAPGR3(16)	PROGRAM CHECK FLIH REGISTER SAVE AREA 3
224	(E0) SIGNED	4	LCCAXGR2(16)	EXTERNAL FLIH REGISTER SAVE AREA 2
288	(120) SIGNED	4	LCCAXGR3(16)	EXTERNAL FLIH REGISTER SAVE AREA 3
352	(160) SIGNED	4	LCCARSGR(16)	RESTART FLIH REGISTER SAVE AREA
416	(1A0) SIGNED	4	LCCARIR2	IEAVERI'S CALLER'S REGISTER 2
420	(1A4) SIGNED	4	LCCARIR3	IEAVERI'S CALLER'S REGISTER 3
424	(1A8) SIGNED	4	LCCARIR4	IEAVERI'S CALLER'S REGISTER 4
428	(1AC) SIGNED	4	LCCARIR5	IEAVERI'S CALLER'S REGISTER 5
432	(1B0) SIGNED	4	LCCARIR6	IEAVERI'S CALLER'S REGISTER 6
436	(1B4) SIGNED	4	LCCARIR7	IEAVERI'S CALLER'S REGISTER 7
440	(1B8) HEX	8	LCCAPXM1	PROGRAM FLIH CROSS MEMORY CONTROL REGISTER SAVE AREA 1
440	(1B8) SIGNED	2	LCCAPX1K	PROGRAM KEY MASK
442	(1BA) SIGNED	2	LCCAPX1S	SECONDARY ASID

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
444 (1BC)	SIGNED	2	LCCAPX1A	AUTHORITY INDEX
446 (1BE)	SIGNED	2	LCCAPX1P	PRIMARY ASID
448 (1C0)	HEX	8	LCCAPXM2	PROGRAM FLIH CROSS MEMORY CONTROL REGISTER SAVE AREA 2
448 (1C0)	SIGNED	2	LCCAPX2K	PROGRAM KEY MASK
450 (1C2)	SIGNED	2	LCCAPX2S	SECONDARY ASID
452 (1C4)	SIGNED	2	LCCAPX2A	AUTHORITY INDEX
454 (1C6)	SIGNED	2	LCCAPX2P	PRIMARY ASID
456 (1C8)	HEX	8	LCCAPXM3	PROGRAM FLIH CROSS MEMORY CONTROL REGISTER SAVE AREA 3
456 (1C8)	SIGNED	2	LCCAPX3K	PROGRAM KEY MASK
458 (1CA)	SIGNED	2	LCCAPX3S	SECONDARY ASID
460 (1CC)	SIGNED	2	LCCAPX3A	AUTHORITY INDEX
462 (1CE)	SIGNED	2	LCCAPX3P	PRIMARY ASID
464 (1D0)	HEX	8	LCCAR1D0	RESERVED.
472 (1D8)	HEX	8	LCCAPSW3	PROGRAM FLIH PSW SAVE AREA
480 (1E0)	SIGNED	4	LCCAINGR(8)	INTERSECT REGISTER SAVE AREA
512 (200)	SIGNED	4	LCCASCR0	STOP-RESTART CR0 SAVE AREA
...1			LCCASPEN	"X'10'"- IF 0, PSA PROTECT DISABLED. IF 1, PSA PROTECT ENABLED. BIT IS IN HIGH-ORDER BYTE OF LCCASCR0.
516 (204)	SIGNED	4	LCCAMCR0	MACHINE CHECK FLIH CR0 SAVE AREA
...1			LCCAMPEN	"X'10'"- IF 0, PSA PROTECT DISABLED. IF 1, PSA PROTECT ENABLED. BIT IS IN HIGH-ORDER BYTE OF LCCAMCR0.
520 (208)	BITSTRING	4	LCCAIHRC	GENERAL FLIH RECURSION FLAGS
520 (208)	HEX	1	LCCAIHR1	FIRST BYTE OF LCCAIHRC
1...			LCCAXRC1	"X'80'"- EXTERNAL FLIH RECURSION BIT 1

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	.1..		LCCAXRC2	"X'40'"- EXTERNAL FLIH RECURSION BIT 2
521	(209) HEX	1	LCCAIHR2	SECOND BYTE OF LCCAIHRC
522	(20A) HEX	1	LCCAIHR3	THIRD BYTE OF LCCAIHRC
523	(20B) HEX	1	LCCAIHR4	FOURTH BYTE OF LCCAIHRC
524	(20C) BITSTRING	4	LCCASPIN	PROCESSOR IS SPINNING INDICATORS
524	(20C) HEX	1	LCCASPN1	FIRST BYTE OF LCCASPIN
	1...		LCCAPTLB	"X'80'"- PTLB PROCESSOR SPIN BIT
	.1..		LCCASIGP	"X'40'"- SIGP PROCESSOR SPIN BIT
	..1.		LCCALOCK	"X'20'"- LOCK MANAGER SPIN BIT
	...1		LCCATSPN	"X'10'"- SIMULATES SPIN FOR TIMER SUPERVISOR AT VARY TIME
	.... 1...		LCCARSTR	"X'08'"- USED BY A PROGRAM SPINNING FOR THE RESTART RESOURCE
	.... .1..		LCCAMFIO	"X'04'"- MF/1 IOS INITIALIZATION SPIN BIT USED BY MF/1 EMERGENCY SIGNAL (EMS) AND MALFUNCTION ALERT (MFA)
	.... ..1.		LCCAINT	"X'02'"- INTERSECT FUNCTION SPIN BIT
	1		LCCAEXSN	"X'01'"- SPIN BIT FOR EXCESSIVE SPIN NOTIFICATION ROUTINE IEEVEXSN
525	(20D) HEX	1	LCCASPN2	SECOND BYTE OF LCCASPIN
	1...		LCCAMSF	"X'80'"- MSSFCALL SVC SPIN CONDITION.
526	(20E) HEX	1	LCCASPN3	THIRD BYTE OF LCCASPIN
527	(20F) HEX	1	LCCASPN4	FOURTH BYTE OF LCCASPIN
	1		LCCAXMSP	"X'01'"- XMSPIN SPIN FLAG IN IEAVEXMS
528	(210) SIGNED	4	LCCAESSA	EMERGENCY SIGNAL SLIH SAVE AREA FOR EXTERNAL FLIH RETURN ADDRESS
532	(214) SIGNED	4	LCCAASCP	SAVE AREA FOR ISSUING PROCESSOR'S PCCA ADDRESS
536	(218) ADDRESS	4	LCCACPUS	POINTER TO CPU WORK/SAVE AREA VECTOR TABLE
540	(21C) HEX	1	LCCADSF1	DISPATCHER STATUS INDICATOR BYTE 1
	1...		LCCAACR	"X'80'"- ACR IN PROGRESS

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	.1..		LCCAVCPU	"X'40'"- VARY CPU IN PROGRESS
	..1.		LCCADSS	"X'20'"- IF ON, INDICATES TO THE DISPATCHER THAT DSS IS WAITING TO BE ACTIVATED AND A MEMORY SWITCH MUST BE PERFORMED
	...1		LCCATIMR	"X'10'"- CPU'S TOD CLOCK IS TO BE OR IS BEING SYNCHRONIZED
541	(21D) HEX	1	LCCADSF2	DISPATCHER STATUS INDICATOR BYTE 2
	1...		LCCASRBM	"X'80'"- SRB MODE INDICATOR
	.1..		LCCAGSRB	"X'40'"- GLOBAL SRB-MODE INDICATOR
	..1.		LCCASSRB	"X'20'"- DISPATCHER SSRB PATH FOOTPRINT
	...1		LCCAEUTS	"X'10'"- EUTSAVE SUBROUTINE FOOTPRINT
	.... 1...		LCCAEUTR	"X'08'"- EUTREST SUBROUTINE FOOTPRINT
542	(21E) HEX	1	LCCAPSMK	STORE AREA FOR FLIH'S STOSM INSTRUCTION
543	(21F) HEX	1	LCCAR21F	RESERVED.
544	(220) SIGNED	4	LCCADSR2	IEAVEDR'S CALLER'S REGISTER 2
548	(224) SIGNED	4	LCCADSR3	IEAVEDR'S CALLER'S REGISTER 3
552	(228) SIGNED	4	LCCADSR4	IEAVEDR'S CALLER'S REGISTER 4
556	(22C) SIGNED	4	LCCADSR5	IEAVEDR'S CALLER'S REGISTER 5
560	(230) SIGNED	4	LCCARPR2	IEAVERP'S CALLER'S REGISTER 2
564	(234) SIGNED	4	LCCARPR3	IEAVERP'S CALLER'S REGISTER 3
568	(238) SIGNED	4	LCCARPR4	IEAVERP'S CALLER'S REGISTER 4
572	(23C) SIGNED	4	LCCARPR5	IEAVERP'S CALLER'S REGISTER 5
576	(240) ADDRESS	4	LCCAEE1R	EXTERNAL FLIH MAINLINE RETRY ADDRESS
580	(244) ADDRESS	4	LCCAEE2R	EXTERNAL FLIH 1ST RECURSION RETRY ADDRESS
584	(248) ADDRESS	4	LCCAEE3R	EXTERNAL FLIH 2ND RECURSION RETRY ADDRESS

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
588	(24C) SIGNED	4	LCCAASC2	EMS SLIH RECURSIVE SAVEAREA FOR SENDING PROCESSOR'S PCCA ADDRESS
592	(250) SIGNED	4	LCCATCR0	SAVE AREA FOR CONTROL REGISTER 0 FOR TIMER ROUTINES
596	(254) SIGNED	4	LCCAEESF	EMS SLIH FLAG WORD
596	(254) SIGNED	2	LCCAEES1	HALF WORD MAINLINE FLAGS
596	(254) HEX	1	LCCARSP1	SERIAL/PARALLEL REQUEST BYTE
597	(255) HEX	1	LCCARMS1	RMS REQUEST BYTE
598	(256) SIGNED	2	LCCAEES2	HALF WORD RECURSION FLAGS
598	(256) HEX	1	LCCARSP2	SERIAL/PARALLEL REQUEST BYTE
599	(257) HEX	1	LCCARMS2	RMS REQUEST BYTE
600	(258) HEX	16	LCCAR258	RESERVED.
616	(268) FLOATING	8		ALIGN LCCAWTIM TO DOUBLE WORD
616	(268) HEX	8	LCCAWTIM	ACCUMULATED CPU WAIT TIME
624	(270) SIGNED	4	LCCADSS1(3)	GENERAL REGISTERS 15-1 AS SAVED BY DSS PROGRAM OR SVC INTERRUPT HANDLER
636	(27C) SIGNED	4	LCCADSS2(3)	GENERAL REGISTERS 15-1 AS SAVED BY DSS I/O OR EXTERNAL INTERRUPT HANDLER
648	(288) SIGNED	4	LCCADSS3(3)	GENERAL REGISTERS 15-1 AS SAVED BY DSS MACHINE CHECK INTERRUPT HANDLER
660	(294) SIGNED	4	LCCADSSC(2)	DSS CONTROL REGISTERS 0 AND 1 SAVE AREA
668	(29C) SIGNED	4	LCCADSSR	DSS CONTROL REGISTER 14 SAVE AREA
672	(2A0) SIGNED	4	LCCASRBJ	SUSPENDED SERVICE REQUEST BLOCK (SRB) JOURNAL WORD USED BY SETLOCK
676	(2A4) ADDRESS	4	LCCADCPU	VIRTUAL ADDRESS OF LCCA OF FAILING CPU

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
680	(2A8) ADDRESS	4	LCCARCPU	VIRTUAL ADDRESS OF LCCA OF RECOVERING CPU
684	(2AC) SIGNED	4	LCCACRLC	ACR SAVE AREA FOR HIGHEST LOCK HELD INDICATOR
688	(2B0) SIGNED	4	LCCALCR0	SAVE AREA FOR CONTROL REGISTER 0 FOR SETLOCK
692	(2B4) HEX	1	LCCACRFL	ACR FLAGS
	1...		LCCACRTM	"X'80'"- RTM ENTRY BIT
	.1..		LCCACLMS	"X'40'"- PROCESS SUSPENDED
	1		LCCAVARY	"X'01'"- TELLS ACR THAT VARY IS IN PROGRESS
693	(2B5) HEX	1	LCCACREX	ACR ENTRY AND EXIT FLAGS
	1...		LCCACREF	"X'80'"- EXTERNAL ROUTINE
	.1..		LCCACRRM	"X'40'"- FINAL EXIT
	..1.		LCCACRLE	"X'20'"- LOCK MANAGER EXIT
	...1		LCCACRRT	"X'10'"- FRR EXIT
	.... 1...		LCCACRIN	"X'08'"- ENTRY TYPE = ACR
	.... .1..		LCCACRLM	"X'04'"- ENTRY TYPE = ACRLM
	.... ..1.		LCCACRDP	"X'02'"- ENTRY TYPE = ACRDISP
	1		LCCACRST	"X'01'"- SYSTERM TERMINATION EXIT FLAG
694	(2B6) HEX	1	LCCALKFG	LOCK FLAG BYTE
	1...		LCCALKCS	"X'80'"- CMS LOCK SUSPEND QUEUE BEING PROCESSED.
	.1..		LCCALKLS	"X'40'"- LOCAL LOCK SUSPEND QUEUE BEING PROCESSED.
	..1.		LCCALKST	"X'20'"- CML RELEASE CALLING STATUS.
	...1		LCCALKRD	"X'10'"- THIS IS A LOCK MANAGER RELEASE DISABLED REQUEST
695	(2B7) HEX	1	LCCAR2B7	RESERVED.
696	(2B8) SIGNED	4	LCCAPINV	SAVE AREA FOR CONTROL REGISTER WHEN OPEN WINDOW INTERFACE TO EXTERNAL FLIH IS INVOKED BY PTLB PROCESSOR
700	(2BC) ADDRESS	4	LCCASLIP	POINTER TO SLIP/PER WORK AREA
704	(2C0) FLOATING	8		ALIGN LCCALWTM TO DOUBLE WORD

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
704 (2C0)	HEX	8	LCCALWTM	VALUE OF LCCAWTIM AT THE END OF A MEASUREMENT INTERVAL
712 (2C8)	SIGNED	4	LCCAICR0	SAVE AREA FOR CONTROL REGISTER 0 FOR IPC
716 (2CC)	SIGNED	4	LCCAECSA	EXTERNAL CALL'S SLIH SAVE AREA FOR EXTERNAL FLIH RETURN REGISTER
720 (2D0)	FLOATING	8		ALIGN LCCASRBF TO DOUBLE WORD
720 (2D0)	CHARACTER	8	LCCASRBF	SRB FIELDS
720 (2D0)	SIGNED	2	LCCASAFN	CPU AFFINITY IF IN SRB MODE
722 (2D2)	HEX	6	LCCAPGTA	ASID/TCB IF IN SRB MODE
728 (2D8)	HEX	8	LCCAR2D8	RESERVED.
736 (2E0)	FLOATING	8		ALIGN LCCAIRT TO DOUBLE WORD
736 (2E0)	HEX	128	LCCAIRT	IOS RECOVERY TABLE DESCRIBING ACTIVE REQUESTS, LOCKS, ETC.
864 (360)	SIGNED	4	LCCASMQJ	GLOBAL SERVICE MANAGER QUEUE (GSMQ) AND LOCAL SERVICE MANAGER QUEUE (LSMQ) JOURNAL WORD USED BY PURGEDQ (IEAVEPD0) AND SCHEDULE RECOVERY (IEAVESCR)
868 (364)	SIGNED	4	LCCASPLJ	GLOBAL SYSTEM PRIORITY LIST (GSPL) AND LOCAL SYSTEM PRIORITY LIST (LSPL) JOURNAL WORD USED BY DISPATCHER
872 (368)	SIGNED	4	LCCAESS2	EMERGENCY SIGNAL SLIH SAVE AREA FOR EXTERNAL FLIH'S RETURN ADDRESS ON RECURSIVE ENTRIES
876 (36C)	SIGNED	4	LCCAFSSJ	SRB JOURNAL USED BY DISPATCHER FIND SRB SUBROUTINE
880 (370)	FLOATING	8		ALIGN LCCADRT1 TO DOUBLE WORD

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
880	(370) HEX	8	LCCADRT1	TIME OF DAY (TOD) ON FIRST SIGP BUSY CONDITION
888	(378) FLOATING	8		ALIGN LCCADRT2 TO DOUBLE WORD
888	(378) HEX	8	LCCADRT2	TIME OF DAY (TOD) ON SUBSEQUENT SIGP BUSY CONDITION
896	(380) SIGNED	4	LCCASGPR(16)	SVC FLIH GENERAL REGISTER SAVE AREA
960	(3C0) HEX	2	LCCAR3C0	RESERVED.
962	(3C2) HEX	2	LCCAPERC	PROGRAM EVENT RECORDING CODE
964	(3C4) ADDRESS	4	LCCAPERA	PER ADDRESS
968	(3C8) HEX	8	LCCAXXM2	EXTERNAL FLIH CROSS MEMORY CONTROL REGISTER SAVE AREA 2
976	(3D0) HEX	8	LCCAXXM3	EXTERNAL FLIH CROSS MEMORY CONTROL REGISTER SAVE AREA 3
984	(3D8) HEX	8	LCCARXMR	RESTART FLIH CROSS MEMORY CONTROL REGISTER SAVE AREA
992	(3E0) HEX	8	LCCASXMR	SVC FLIH CROSS MEMORY CONTROL REGISTER SAVE AREA
1000	(3E8) HEX	72	LCCALKG1	LOCK MANAGER REGISTER SAVE AREA
1072	(430) HEX	64	LCCALKG2	LOCK MANAGER SUSPENSION REGISTER SAVE AREA
1136	(470) HEX	8	LCCAELKP	LOCK MANAGER PSW SAVE AREA
1144	(478) SIGNED	4	LCCASTG1(18)	STATUS REGISTER SAVE AREA
1216	(4C0) SIGNED	4	LCCASCSA(5)	PCLINK SAVE AREA FOR REGISTERS 8-12 (CALLER'S REGISTERS)
1236	(4D4) SIGNED	4	LCCASREG(13)	PCLINK SAVE AREA

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
1288	(508) HEX	1	LCCASMSK	PCLINK SYSTEM MASK
1289	(509) HEX	1	LCCARSMK	RESUME/TCTL SYSTEM MASK
1290	(50A) HEX	1	LCCAPGMM	PCLINK PROGRAM MASK
1291	(50B) HEX	1	LCCATCFB	RESUME/TCTL RECOVERY FOOTPRINT BYTE
	1...		LCCATCTL	"X'80'"- TCTL IN CONTROL AT ABEND
	.1..		LCCATCAC	"X'40'"- TCBACTIV AND TCBS3A SET
1292	(50C) SIGNED	4	LCCARSME	RESUME REGISTER SAVE AREA FOR REGISTERS 11-4
1292	(50C) SIGNED	4	LCCARES1(7)	RESUME REGISTER SAVE AREA FOR REG 11 REG 1
1320	(528) SIGNED	4	LCCARES2(3)	RESUME REGISTER SAVE AREA FOR REG 2 REG 4
1332	(534) HEX	8	LCCAR534	RESERVED.
1340	(53C) ADDRESS	4	LCCAPRMT	ADDRESS OF THE ASCB ON WHOSE BEHALF A PRIORITY PROMOTION WAS INITIATED.
1344	(540) ADDRESS	4	LCCAPTCB	ADDRESS OF THE TCB ON WHOSE BEHALF A PRIORITY PROMOTION WAS INITIATED.
1348	(544) ADDRESS	4	LCCAPRTN	DISPATCHER RETURN POINT IF NO DISPATCHABLE WORK IS FOUND IN A PROMOTED ADDRESS SPACE.
1352	(548) SIGNED	4	LCCACDXM(2)	CALLDISP XMEM SAVE AREA
1360	(550) SIGNED	4	LCCASRXM(2)	CROSS MEMORY SAVE AREA FOR STOP/RESET AND SRB STATUS SAVE/RESTORE/MODIFY ROUTINES.
1368	(558) HEX	4	LCCAR558	RESERVED.
1372	(55C) HEX	12	LCCAIOXM	IOS CROSS MEMORY SAVE AREA
1372	(55C) SIGNED	4	LCCAIOSS	IOS PSW S-BIT REGISTER SAVE AREA

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
1376 (560)	SIGNED	4	LCCAIOC3	IOS CONTROL REGISTER 3 SAVE AREA
1380 (564)	SIGNED	4	LCCAIOC4	IOS CONTROL REGISTER 4 SAVE AREA
1384 (568)	SIGNED	4	LCCABBRC	BIND BREAK COMMUNICATION BUFFER USED BY IEAVEBBR
1388 (56C)	CHARACTER	64	LCCACDSV	CALLDISP SERVICE ROUTINE REGISTER SAVE AREA FOR REGISTERS 0-15
1388 (56C)	SIGNED	4	LCCACDS0	CALLDISP REGISTER 0 SAVE AREA
1392 (570)	SIGNED	4	LCCACDS1	CALLDISP REGISTER 1 SAVE AREA
1396 (574)	SIGNED	4	LCCACDS2	CALLDISP REGISTER 2 SAVE AREA
1400 (578)	SIGNED	4	LCCACDS3	CALLDISP REGISTER 3 SAVE AREA
1404 (57C)	SIGNED	4	LCCACDS4	CALLDISP REGISTER 4 SAVE AREA
1408 (580)	SIGNED	4	LCCACDS5	CALLDISP REGISTER 5 SAVE AREA
1412 (584)	SIGNED	4	LCCACDS6	CALLDISP REGISTER 6 SAVE AREA
1416 (588)	SIGNED	4	LCCACDS7	CALLDISP REGISTER 7 SAVE AREA
1420 (58C)	SIGNED	4	LCCACDS8	CALLDISP REGISTER 8 SAVE AREA
1424 (590)	SIGNED	4	LCCACDS9	CALLDISP REGISTER 9 SAVE AREA
1428 (594)	SIGNED	4	LCCACDSA	CALLDISP REGISTER 10 SAVE AREA
1432 (598)	SIGNED	4	LCCACDSB	CALLDISP REGISTER 11 SAVE AREA
1436 (59C)	SIGNED	4	LCCACDSC	CALLDISP REGISTER 12 SAVE AREA
1440 (5A0)	SIGNED	4	LCCACDSD	CALLDISP REGISTER 13 SAVE AREA
1444 (5A4)	SIGNED	4	LCCACDSE	CALLDISP REGISTER 14 SAVE AREA

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
1448	(5A8) SIGNED	4	LCCACDSF	CALLDISP REGISTER 15 SAVE AREA
1452	(5AC) SIGNED	4	LCCASLSA(16)	LCCA SINGLE LEVEL SAVE AREA USED BY MACHINE CHECK HANDLER
1516	(5EC) HEX	132	LCCAR5EC	RESERVED.
1648	(670) SIGNED	4	LCCAEMS0(16)	MEMORY SWITCH SAVE AREA.
1712	(6B0) FLOATING	8	LCCAEND	END OF LCCA.

CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
LCCA	0		LCCADRT1	370		LCCAIOC4	564	
LCCAACR	21C	80	LCCADRT2	378		LCCAIOSS	55C	
LCCAASCP	214		LCCADSF1	21C		LCCAIOXM	55C	
LCCAASC2	24C		LCCADSF2	21D		LCCAIRT	2E0	
LCCABBRC	568		LCCADSR2	220		LCCALCCA	0	
LCCACDSA	594		LCCADSR3	224		LCCALCR0	2B0	
LCCACDSB	598		LCCADSR4	228		LCCALKCS	2B6	80
LCCACDSC	59C		LCCADSR5	22C		LCCALKFG	2B6	
LCCACDSD	5A0		LCCADSS	21C	20	LCCALKG1	3E8	
LCCACDSE	5A4		LCCADSSC	294		LCCALKG2	430	
LCCACDSF	5A8		LCCADSSR	29C		LCCALKLS	2B6	40
LCCACDSV	56C		LCCADSS1	270		LCCALKRD	2B6	10
LCCACDS0	56C		LCCADSS2	27C		LCCALKST	2B6	20
LCCACDS1	570		LCCADSS3	288		LCCALOCK	20C	20
LCCACDS2	574		LCCAECSA	2CC		LCCALWTM	2C0	
LCCACDS3	578		LCCAEESF	254		LCCAMCR0	204	
LCCACDS4	57C		LCCAEES1	254		LCCAMCR1	98	
LCCACDS5	580		LCCAEES2	256		LCCAMFIO	20C	04
LCCACDS6	584		LCCAEE1R	240		LCCAMPEN	204	10
LCCACDS7	588		LCCAEE2R	244		LCCAMSF	20D	80
LCCACDS8	58C		LCCAEE3R	248		LCCAOCPU	6	
LCCACDS9	590		LCCAELKP	470		LCCAPERA	3C4	
LCCACDXM	548		LCCAEMS0	670		LCCAPERC	3C2	
LCCACLMS	2B4	40	LCCAEND	6B0		LCCAPGMM	50A	
LCCACPUA	4		LCCAESSA	210		LCCAPGR1	8	
LCCACPUS	218		LCCAESS2	368		LCCAPGR2	48	
LCCACRDP	2B5	02	LCCAEUTR	21D	08	LCCAPGR3	A0	
LCCACREF	2B5	80	LCCAEUTS	21D	10	LCCAPGTA	2D2	
LCCACREX	2B5		LCCAEXSN	20C	01	LCCAPINT	90	
LCCACRFL	2B4		LCCAFSSJ	36C		LCCAPINV	2B8	
LCCACRIN	2B5	08	LCCAGSRB	21D	40	LCCAPPSW	88	
LCCACRLC	2AC		LCCAICR0	2C8		LCCAPRMT	53C	
LCCACRLE	2B5	20	LCCAIHRC	208		LCCAPRTN	544	
LCCACRLM	2B5	04	LCCAIHR1	208		LCCAPSMK	21E	
LCCACRRM	2B5	40	LCCAIHR2	209		LCCAPSW3	1D8	
LCCACRRT	2B5	10	LCCAIHR3	20A		LCCAPTCB	540	
LCCACRST	2B5	01	LCCAIHR4	20B		LCCAPTLB	20C	80
LCCACRTM	2B4	80	LCCAINGR	1E0		LCCAPVAD	94	
LCCACR0	9C		LCCAINT	20C	02	LCCAPVXM	94	80
LCCADCPU	2A4		LCCAIOC3	560		LCCAPXM1	1B8	

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
LCCAPXM2	1C0		LCCARSGR	160		LCCASPN1	20C	
LCCAPXM3	1C8		LCCARSME	50C		LCCASPN2	20D	
LCCAPX1A	1BC		LCCARSMK	509		LCCASPN3	20E	
LCCAPX1K	1B8		LCCARSP1	254		LCCASPN4	20F	
LCCAPX1P	1BE		LCCARSP2	256		LCCASRBF	2D0	
LCCAPX1S	1BA		LCCARSTR	20C	08	LCCASRBJ	2A0	
LCCAPX2A	1C4		LCCARXMR	3D8		LCCASRBM	21D	80
LCCAPX2K	1C0		LCCAR1D0	1D0		LCCASREG	4D4	
LCCAPX2P	1C6		LCCAR2B7	2B7		LCCASRXM	550	
LCCAPX2S	1C2		LCCAR2D8	2D8		LCCASSRB	21D	20
LCCAPX3A	1CC		LCCAR21F	21F		LCCASTG1	478	
LCCAPX3K	1C8		LCCAR258	258		LCCASXMR	3E0	
LCCAPX3P	1CE		LCCAR3C0	3C0		LCCATCAC	50B	40
LCCAPX3S	1CA		LCCAR5EC	5EC		LCCATCFB	50B	
LCCARCPU	2A8		LCCAR534	534		LCCATCR0	250	
LCCARES1	50C		LCCAR558	558		LCCATCTL	50B	80
LCCARES2	528		LCCASAFN	2D0		LCCATIMR	21C	10
LCCARIR2	1A0		LCCASCR0	200		LCCATSPN	20C	10
LCCARIR3	1A4		LCCASCSA	4C0		LCCAVARY	2B4	01
LCCARIR4	1A8		LCCASGPR	380		LCCAVCPU	21C	40
LCCARIR5	1AC		LCCASIGP	20C	40	LCCAWTIM	268	
LCCARIR6	1B0		LCCASLIP	2BC		LCCAXGR2	E0	
LCCARIR7	1B4		LCCASLSA	5AC		LCCAXGR3	120	
LCCARMS1	255		LCCASMQJ	360		LCCAXMSP	20F	01
LCCARMS2	257		LCCASMSK	508		LCCAXRC1	208	80
LCCARPR2	230		LCCASPEN	200	10	LCCAXRC2	208	40
LCCARPR3	234		LCCASPIN	20C		LCCAXXM2	3C8	
LCCARPR4	238		LCCASPLJ	364		LCCAXXM3	3D0	
LCCARPR5	23C							

LCCAVT

Common Name : Logical Configuration Communication Area Vector Table
Macro ID : IHALCCAT
DSECT Name : LCCAVT
Created by : IEAVNIP0
Subpool and Key : 245 and key 0
Size : 64 bytes
Pointed to by : CVTLCCAT field of the CVT data area
Serialization : None
Function : Contains address of LCCA for each processor.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	LCCAVT	
0	(0) ADDRESS	4	LCCAT00P	ADDRESS OF LCCA FOR CPU 0
4	(4) ADDRESS	4	LCCAT01P	ADDRESS OF LCCA FOR CPU 1
8	(8) ADDRESS	4	LCCAT02P	ADDRESS OF LCCA FOR CPU 2
12	(C) ADDRESS	4	LCCAT03P	ADDRESS OF LCCA FOR CPU 3
16	(10) ADDRESS	4	LCCAT04P	ADDRESS OF LCCA FOR CPU 4
20	(14) ADDRESS	4	LCCAT05P	ADDRESS OF LCCA FOR CPU 5
24	(18) ADDRESS	4	LCCAT06P	ADDRESS OF LCCA FOR CPU 6
28	(1C) ADDRESS	4	LCCAT07P	ADDRESS OF LCCA FOR CPU 7
32	(20) ADDRESS	4	LCCAT08P	ADDRESS OF LCCA FOR CPU 8
36	(24) ADDRESS	4	LCCAT09P	ADDRESS OF LCCA FOR CPU 9
40	(28) ADDRESS	4	LCCAT10P	ADDRESS OF LCCA FOR CPU 10
44	(2C) ADDRESS	4	LCCAT11P	ADDRESS OF LCCA FOR CPU 11

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
48	(30) ADDRESS	4	LCCAT12P	ADDRESS OF LCCA FOR CPU 12
52	(34) ADDRESS	4	LCCAT13P	ADDRESS OF LCCA FOR CPU 13
56	(38) ADDRESS	4	LCCAT14P	ADDRESS OF LCCA FOR CPU 14
60	(3C) ADDRESS	4	LCCAT15P	ADDRESS OF LCCA FOR CPU 15

LCH

Common Name : IOS Logical Channel Queue Table
Macro ID : IECDLCH
DSECT Name : LCH
Created by : IEAVFX00 (SYSGEN)
Subpool and Key : Nucleus
Size : 32 bytes per logical channel
Pointed to by : CVTILCH field of the CVT data area
IOCLCHTB field of the IOCOM data area
Serialization : LCH lock
Function : All devices that are accessible on a common set of paths are members of a logical channel group. The LCH provides queueing control for I/O requests that cannot have I/O started when the request is received.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	LCH	
0	(0) FLOATING	8	LCHENTRY	DOUBLEWORD ALIGNMENT
0	(0) SIGNED	4	LCHFST	FIRST IOQ ON LCH
4	(4) SIGNED	4	LCHLST	LAST IOQ ON LCH
8	(8) SIGNED	4	LCHLOCK	LOCKWORD ASSOCIATED WITH LCH YM3157P
12	(C) HEX	1	LCHCSNDX	CHAN. SEL. ALG. INDEX
	....		LCHSEQ	"X'00'" SEQUENTIAL ALGORITHM
	.... .1..		LCHLCU	"X'04'" LAST CHANNEL USED ALGORITHM
	.... 1...		LCHROTAT	"X'08'" ROTATE ALGORITHM
	.... 11..		LCHRSEQ	"X'0C'" REVERSED SEQUENTIAL ALGORITHM
	...1		LCHBALNC	"X'10'" CHANNEL BALANCE ALGORITHM
13	(D) HEX	3	LCHRSV	RESERVED
16	(10) SIGNED	4	LCHTCH	TCH CHANNEL LIST
20	(14) SIGNED	1	LCHCHCNT	NUMBER OF CHANNELS ON LCH

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
21	(15) HEX	1	LCHFLA	FLAG BYTE
	1...		LCHLKHLD	"X'80'" LCHLOCK HELD ON ENTRY
EQU	X'7F'		RESERVED	
22	(16) SIGNED	2	LCHTOTAL	TOTAL REQUESTS STARTED OR QUEUED
24	(18) SIGNED	2	LCHLGBSY	NUMBER REQUESTS QUEUED BECAUSE LOGICALLY BUSY
26	(1A) SIGNED	2	LCHCHBSY	NUMBER REQUESTS QUEUED BECAUSE CHANNEL BUSY
28	(1C) SIGNED	2	LCHCUBSY	BECAUSE C.U. BUSY
30	(1E) SIGNED	2	LCHDEBSY	BECAUSE DEVICE BUSY
	..1.		LCHEL	"*-LCHENTRY" ENTRY LENGTH
	.... .1.1		LCHELP2	"5" LENGTH OF LCH IN POWERS OF TWO

LCT

Common Name : Linkage Control Table
Macro ID : IEFALLCT
DSECT Name : None
Created by : IEFSD160
Subpool and Key : 236 or 237 and key 1
Size : 512 bytes
Pointed to by : IEFLCTAD field of the PARAM data area
SSJSLCT field of the SSOB data area (job select LCT)
Serialization : None
Function : Communications area used by the initiator routines.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	512	LCT	
0	(0) ADDRESS	4	LCTQDRTY	
0	(0) BITSTRING	1		RESERVED
1	(1) ADDRESS	3		ADDRESS OF THE JOB CSCB
4	(4) ADDRESS	4	LCTSRTAD	
4	(4) BITSTRING	1		UNUSED
5	(5) ADDRESS	3		SRT ADDRESS
8	(8) ADDRESS	4	LCTTCBAD	
8	(8) BITSTRING	1		UNUSED
9	(9) ADDRESS	3		CURRENT TCB ADDRESS
12	(C) ADDRESS	4	LCTQENTY	
12	(C) BITSTRING	1		
	1...		LCTTIMAB	TIMER ABEND HAS OCCURRED
	.1..			USED IN CONJUCTION WITH NOSEP
	..1.			DEVICE WAIT RECOVERY
	...1			SPACE WAIT RECOVERY
	.... 1...			UNUSED

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	.... .1..			UNUSED
	.... ..1.			UNUSED
	1		LCTERRM	JOB TERMINATION STATUS
13	(D) ADDRESS	3		SAVE AREA ADDRESS OF LINKER
16	(10) ADDRESS	4	LCTJCTAD	
16	(10) BITSTRING	1		UNUSED
17	(11) ADDRESS	3		JCT STORAGE ADDRESS OR 0
20	(14) ADDRESS	4	LCTSCTAD	
20	(14) BITSTRING	1		UNUSED
21	(15) ADDRESS	3		SCT STORAGE ADDRESS OR 0
24	(18) ADDRESS	4	LCTSCTDA	SCT SWA ADDRESS
24	(18) ADDRESS	4	LCTWORKA	
24	(18) ADDRESS	3	LCTSCTVA	SCT SWA VIRTUAL ADDRESS
27	(1B) BITSTRING	1		UNUSED
28	(1C) ADDRESS	4	LCTPSPAR	
28	(1C) BITSTRING	1		UNUSED
29	(1D) ADDRESS	3		ADDRESS OF ALLOC/TERM COMMUNICATION AREA
32	(20) SIGNED	4	LCTERROR	ERROR CODES
32	(20) BITSTRING	1	LCTERR	NEW LCTERROR BITS
	1...		LCTJFAIL	IF ON, JOB FAILED
	.1..		LCTSALCD	IF ON, AT LEAST ONE STEP WAS ALLOCATED
	..1.		LCTPALCD	IF ON, THIS STEP PARTIALLY ALLOCATED
	...1		LCTSFAIL	IF ON, STEP BYPASSED
	.... 1...		LCTACOMP	IF ON ALLOCATION HAS BEEN COMPLETED BUT UNALLOCATION IS YET TO RUN. USED TO TEST FOR RETRY IN THE INIT ESTAE
	.... .1..		LCTJCFAL	ON IF JOB FAILED BECAUSE CONDITION CODES
	.... ..1.		LCTVTERM	ON IF ALLOC FAILED AND MSS SELECTS DONE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
36	(24) SIGNED	4	LCTPARM1	MULTI USE PARAMETER FIELD
40	(28) SIGNED	4	LCTPARM2	MULTI USE PARAMETER FIELD
44	(2C) SIGNED	4	LCTPARM3	MULTI USE PARAMETER FIELD
48	(30) SIGNED	4	LCTPARM4	MULTI USE PARAMETER FIELD
52	(34) ADDRESS	4	LCTCMCBA	
52	(34) BITSTRING	1		UNUSED
53	(35) ADDRESS	3		CORE ADDRESS OF CONTROL BYTES FOR CORE MANAGEMENT
56	(38) BITSTRING	1	LCTNSPAD	NON SETUP PADDING BYTE
56	(38) BITSTRING	1	LCTSTIND	
57	(39) BITSTRING	1	LCTJFCBH	JFCB HOUSEKEEPING BYTE
	1...		LCTS2PEM	FIRST PDQ TABLE ENTRY MADE
	.1..		LCTS2COP	CORE OBTAINED FOR PDQ TABLE
	..1.		LCTS2FES	FIRST ENTRY IN PDQ FOR STEP
	...1			UNUSED
	.... 1...			UNUSED
	.... .1..			UNUSED
	.... ..1.			UNUSED
	1			UNUSED
58	(3A) ADDRESS	1	LCTSNUMB	CURRENT STEP NUMBER
59	(3B) ADDRESS	1	LCTACTON	ACTION CODE
60	(3C) ADDRESS	4	LCTSMBAD	
60	(3C) BITSTRING	1		
61	(3D) ADDRESS	3		SMB ADDRESS
64	(40) SIGNED	4	LCTBATMN	USED IN GENERATING A UNIQUE VOLUME SERIAL NUMBER WHEN THE USER DOES NOT SPECIFY ONE ON HIS DD CARD AND DOES SPECIFY A PASSED DATA SET ON UNLABELED TAPE.
68	(44) ADDRESS	4	LCTCOMCD	WARMSTART ABEND CODE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
68	(44) ADDRESS	2	LCTCOMD1	WARMSTART COMP. CODE
70	(46) ADDRESS	2	LCTCOMD2	WARMSTART COMP. CODE
72	(48) ADDRESS	4	LCTRTRN	
72	(48) ADDRESS	4	LCTSREG	
72	(48) BITSTRING	1		UNUSED
73	(49) ADDRESS	3		RETURN ADDRESS TO MASTER SCHEDULER(FOR STOP INITIATOR)
76	(4C) ADDRESS	4		
76	(4C) BITSTRING	1	LCTINTSW	INITIATOR INTERNAL SWITCH
	1...		LCTINPPT	PGM. NAME IS IN PPT
	.1..		LCTPRIV	PROGRAM IS PRIVILEGED
	..1.		LCTPPAA	ISSUE MESSAGE FOR 'PROBLEM PROG. ATTRIBURES ASSIGNED'
	...1		LCTMINRG	JOB FLUSH USE MINPAR
	.... 1...		LCTSTART	TASKNAME NOT FOUNND ON COMMAND
	.... .1..		LCTSTOP	INITIATOR INTERNAL STOP
	.... ..1.		LCTABEND	EXECUTED PGM ABENDED
	1		LCTNDSI	MUST VERIFY TASKLIB BEFORE ASSIGNING 'NO DATA SET INTEGRITY'
77	(4D) BITSTRING	1	LCTPUBYT	PREFERRED USAGE STORAGE
	1...		LCT2LPU	2ND LEVEL PREFERRED
	.1..		LCT1LPU	1ST LEVEL PREFERRED
	..1.		LCTN2LP	NOT 2ND LEVEL PREFERRED
	...1		LCTNSWP	NON-SWAPPABLE
	.... 1...			UNUSED
	.... .1..			UNUSED
	.... ..1.			UNUSED
	1			UNUSED
78	(4E) CHARACTER	2		RESERVED
80	(50) CHARACTER	16	LCTTMWRK	TIMER WORK AREA
80	(50) SIGNED	4	LCTTJTU4	TOTAL JOB TIME USED

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
80	(50) BITSTRING	1		RESERVED
81	(51) UNSIGNED	3	LCTTJTU3	TOTAL JOB TIME USED
84	(54) SIGNED	4	LCTTSTL4	STEP TIME LIMIT
84	(54) BITSTRING	1		RESERVED
85	(55) UNSIGNED	3	LCTTSTL3	STEP TIME LIMIT
88	(58) SIGNED	4	LCTTSTR4	STEP TIME REMAINING
88	(58) CHARACTER	4	LCTSMF	FOR SMF, PTR. TO JMR OR DEVICES USED
88	(58) BITSTRING	1	LCTTMBYT	FLAG
	1...		LCTTTIFJ	TIME LIMIT IS FOR JOB
89	(59) UNSIGNED	3	LCTTSTR3	STEP TIME REMAINING
92	(5C) SIGNED	4	LCTTSTU4	STEP TIME USED
92	(5C) BITSTRING	1		RESERVED
93	(5D) UNSIGNED	3	LCTTSTU3	STEP TIME REMAINING
96	(60) ADDRESS	4	LCTJOBLB	
96	(60) BITSTRING	1		UNUSED
97	(61) ADDRESS	3		POINTER TO JOBLIB OR STEPLIB DCB
100	(64) ADDRESS	4	LCTATLST	
100	(64) BITSTRING	1		UNUSED
101	(65) ADDRESS	3		ADDRESS OF ALLOCATE/TERMINATE PARAMETER LIST
104	(68) SIGNED	144	REGSAVE	ALLOC/TERM REGISTER SAVE AREA
248	(F8) SIGNED	36	QMGR1	QUEUE MGR PARAMETER AREA
284	(11C) CHARACTER	4	LCTSMFLG	FOR SMF USE AT JOB TERM
288	(120) CHARACTER	32		RESERVED

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
320 (140)	ADDRESS	4	LCTASCBA	ADDR OF CURRENT ASCB
324 (144)	SIGNED	4	LCTJMRAD	JMR ADDRESS
328 (148)	ADDRESS	4	LCTECBAD	
328 (148)	ADDRESS	4	ECBLIST	
328 (148)	BITSTRING	1		
329 (149)	ADDRESS	3		PTR TO ECB LIST
332 (14C)	CHARACTER	8	LCTIDENT	HOLDER FOR IDENTIFIER
332 (14C)	SIGNED	4	LCTPIB	
336 (150)	SIGNED	4	LCTSPIL	
336 (150)	SIGNED	2	LCTDSBCT	COUNT OF JOB'S DSB'S
338 (152)	BITSTRING	1	LCTALCFG	ALLOCATION FLAGS
1...			LCTODSFL	ODS FAILED INDICATOR
.1..			LCTMSGWT	WTO MESSAGE LOST
..1.				UNUSED
...1				UNUSED
.... 1...				UNUSED
.... .1..				UNUSED
.... ..1.				UNUSED
....1				UNUSED
339 (153)	BITSTRING	1		
340 (154)	CHARACTER	8	LCTCLASS	JES3 JOB CLASS
348 (15C)	SIGNED	4	LCTTSRB4	STEP SRB TIME USED
348 (15C)	BITSTRING	1		RESERVED
349 (15D)	UNSIGNED	3	LCTTSRB3	STEP SRB TIME USED
352 (160)	ADDRESS	4	LCTENTR	ADDR OF INIT ENTRANCE LIST
352 (160)	ADDRESS	4	LCTEXIT	ADDR OF INIT EXIT LIST
352 (160)	BITSTRING	1	LCTOPSW1	INITIATOR OPTION BYTE 1

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	1...		LCTDPSWA	DO NOT SET 'DO NOT SHARE SWA' ON ATTACH
	.1..		LCTDWFF	DO NOT PROCESS DEDICATED WORK FILE
	..1.			RESERVED
	...1			RESERVED
	.... 1...		LCTCANF	ALLOW CANCEL ONLY AT ALLOC
	.... .1..		LCTONEJF	STARTED TASK INDICATOR
	.... ..1.			RESERVED
	1			RESERVED
353	(161) ADDRESS	3		ADDR. OF IEL
356	(164) ADDRESS	4		RESERVED
356	(164) BITSTRING	1	LCTOPSW2	INITIATOR OPTION BYTE 2
	1...		LCTTIMEF	DO NOT TIME THIS
	.1..		LCTCRF	DO NOT ALLOW CHECK/RESTART
	..1.		LCTCKRST	THIS BIT IS SET BY IEFXB609 TO INFORM IEFSD101 TO INSERT PROGRAM NAME IEFRSTRT IN SCT AFTER PPT PROCESSING
	...1			RESERVED
	.... 1...			RESERVED
	.... .1..		LCTBPRAC	BYPASS RACINIT
	.... ..1.		LCTNORC	BYPASS ALLOC. RECOVERY
	1		LCTENQU	DO NOT WAIT FOR DATA SETS
357	(165) ADDRESS	3		RESERVED
360	(168) ADDRESS	4	LCTJSCB	
360	(168) BITSTRING	1	LCTOPSW3	INITIATOR OPTION BYTE THREE
	1...			RESERVED
	.1..		LCTRDER	SPECIAL A/T PROCESSING FOR IEFRDER DD CARD
	..1.		LCTNSYS	DO NOT ASSIGN SPECIAL PROPERTIES
	...1			UNUSED
	.... 1...		LCTJNLF	JOURNALING REQUESTED
	.... .1..		LCTALERR	ERROR DURING ALLOCATION
	.... ..1.			RESERVED
	1			UNUSED
361	(169) ADDRESS	3		ADDRESS OF JSCB
364	(16C) SIGNED	12		RESERVED

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
376	(178) CHARACTER	16	LCTSTIME	STEP TIMER WORKAREA
376	(178) SIGNED	4	LCTTCPT	STEP TCB CP TIME USED
380	(17C) SIGNED	4	LCTTAXT	STEP TCB UNNORMALIZED AXP TIME USED
384	(180) SIGNED	4	LCTSCPT	STEP SRB CP TIME USED
388	(184) SIGNED	4	LCTSAXT	STEP SRB UNNORMALIZED AXP TIME USED
392	(188) SIGNED	4	LCTJCTXB	JCTX SWA BLOCK ADDRESS
396	(18C) ADDRESS	4	LCTSYSPL	ADDR OF SYSEVENT PARAMETER LIST
400	(190) ADDRESS	4	LCTSTEPL	ADDR OF STAE EXIT PARAMETER LIST FOR INITIATOR
404	(194) ADDRESS	4	LCTSSOBA	ADDR OF SSOB FOR THIS TASK
408	(198) ADDRESS	4	LCTJCTDA	JCT SWA ADDRESS
408	(198) ADDRESS	3	LCTJCTVA	JCT SWA VIRTUAL ADDRESS
411	(19B) ADDRESS	1		RESERVED
412	(19C) SIGNED	4	LCTTIOTI	INIT TIOT TTR
416	(1A0) BITSTRING	1	LCTSTATA	INIT STATUS BYTE 1
	1...		LCTSUSPD	SUSPEND INIT
	.1..		LCTSNOWK	CALL IEEMF105 IF NO WORK
	..1.		LCTBTJOB	SUSPEND INIT BETWEEN JOBS
	...1		LCTNECBL	DO NOT CONSTRUCT ECB LIST
	.... 1...		LCTJCPIB	GET JOB CLASS INFO FROM PIB
	.... .1..		LCTNOSDP	BYPASS STEP DISP PRI CODE
	.... ..1.		LCTNOGCB	BYPASS GCB PROCESSING
	1		LCTCPART	CHECK PART BOUNDS IF RESTART
417	(1A1) BITSTRING	1	LCTSTATB	INIT STATUS BYTE 2
	1...		LCTECBPB	PUT ECB LIST PTR IN PIB
	.1..		LCTNOREG	BYPASS REGION DETERMINE CODE
	..1.		LCTNOATC	BYPASS ATTACH/DETACH CONSIDER.
	...1		LCTWRITE	WRITE LOT WITH TIOT
	.... 1...		LCTNREAD	DO NOT READ JCT AND SCT

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	.... .1..		LCTSBPOL	GET WTPCB AND JSCB IN SP 255
	.... ..1.		LCTNPKEY	PGM RUNS IN PK ZERO
	1		LCTMFTIO	USE IEEMFTIO DURING TERM
418	(1A2) BITSTRING	1	LCTRFB	RESTART FUNCTION SWITCHES
	1...		LCTRFBSM	CALL IEFXB601
	.1..		LCTRFBCR	AUTOMATIC CHKPT. RESTART
	..1.		LCTRFBRV	SPECIAL WARMSTART PROCESSING
	...1		LCTRFBDC	DEFERRED CHECKPOINT/RESTART
	.... 1...		LCTRFBMS	DO NOT MODIFY JSB FIELDS
	.... .1..		LCTRFBEF	MERGE TO EOF OF JOURNAL
	.... ..1.		LCTRFBRP	CALL IEFPREP
	1			RESERVED
419	(1A3) BITSTRING	1	LCTRFB1	RESERVED FOR WARMSTART/RESTART
420	(1A4) ADDRESS	4		RESERVED
420	(1A4) ADDRESS	1	LCTTSIZ	TO INFORM ALLCOATION OF SIZE OF MASTER SCHED. TIOT
421	(1A5) BITSTRING	1	LCTINTS2	INTERNAL SWITCHES, BYTE 2. IT WILL BE CLEARED FOR EVERY STEP BY IEFSD101.
	1...		LCTSYS	SYSTEM TASK REQUESTED
	.1..		LCTBPPAS	BYPASS PASSWD PROTECT.
	..1.		LCTTSWPC	TRANSWAP COMPLETED
	...1		LCTATTC	INITATT HAS BEEN ISSUED (RESET AT INIT-DET TIME)
	 1111			RESERVED
422	(1A6) CHARACTER	2		RESERVED
424	(1A8) ADDRESS	4	LCTTIOTP	ADDR OF TIOT STOR. FOR JOB
428	(1AC) ADDRESS	4	LCTLBWAP	PTR TO LOAD BAL WORK AREA
432	(1B0) ADDRESS	4	LCTIMSG	VIRTUAL ADDR. OF IEFIB650
436	(1B4) ADDRESS	4	LCTDSABQ	ADDRESS OF DSAB QDB STORAGE FOR JOB
440	(1B8) CHARACTER	64	LCTIWORK	TEMPORARY WORK AREA, TO BE USED ONLY BY THE INITIATOR
504	(1F8) CHARACTER	8	LCTLABEL	TO CONTAIN THE CHARACTERS 'ENDOFLCT', TO HELP IDENTIFY THE LCT IN A STORAGE DUMP

CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
ECBLIST	148		LCTIWORK	1B8		LCTPARM4	30	
LCT	0		LCTJCFAL	20	04	LCTPIB	14C	
LCTABEND	4C	02	LCTJCPIB	1A0	08	LCTPPAA	4C	20
LCTACOMP	20	08	LCTJCTAD	10		LCTPRIV	4C	40
LCTACTON	3B		LCTJCTDA	198		LCTPSPAR	1C	
LCTALCFG	152		LCTJCTVA	198		LCTPUBYT	4D	
LCTALERR	168	04	LCTJCTXB	188		LCTQDRTY	0	
LCTASCBA	140		LCTJFAIL	20	80	LCTQENTY	C	
LCTATLST	64		LCTJFCBH	39		LCTRDER	168	40
LCTATTC	1A5	10	LCTJMRAD	144		LCTRFB	1A2	
LCTBATMN	40		LCTJNLF	168	08	LCTRFBCR	1A2	40
LCTBPPAS	1A5	40	LCTJOBLB	60		LCTRFBDC	1A2	10
LCTBPRAC	164	04	LCTJSCB	168		LCTRFBEF	1A2	04
LCTBTJOB	1A0	20	LCTLABEL	1F8		LCTRFBMS	1A2	08
LCTCANF	160	08	LCTLBWAP	1AC		LCTRFBRP	1A2	02
LCTCKRST	164	20	LCTMFTIO	1A1	01	LCTRFBRV	1A2	20
LCTCLASS	154		LCTMINRG	4C	10	LCTRFBSM	1A2	80
LCTCMCBA	34		LCTMSGWT	152	40	LCTRFB1	1A3	
LCTCOMCD	44		LCTNDSI	4C	01	LCTRTRN	48	
LCTCOMD1	44		LCTNECBL	1A0	10	LCTSALCD	20	40
LCTCOMD2	46		LCTNOATC	1A1	20	LCTSAXT	184	
LCTCPART	1A0	01	LCTNOGCB	1A0	02	LCTSBPOL	1A1	04
LCTCRF	164	40	LCTNORC	164	02	LCTSCPT	180	
LCTDPSWA	160	80	LCTNOREG	1A1	40	LCTSCTAD	14	
LCTDSABQ	1B4		LCTNOSDP	1A0	04	LCTSCTDA	18	
LCTDSBCT	150		LCTNPKEY	1A1	02	LCTSCTVA	18	
LCTDWFF	160	40	LCTNREAD	1A1	08	LCTSFAIL	20	10
LCTECBAD	148		LCTNSPAD	38		LCTSMBAD	3C	
LCTECBPB	1A1	80	LCTNSWP	4D	10	LCTSMF	58	
LCTENQU	164	01	LCTNSYS	168	20	LCTSMFLG	11C	
LCTENTR	160		LCTN2LP	4D	20	LCTSNOWK	1A0	40
LCTERR	20		LCTODSFL	152	80	LCTSNUMB	3A	
LCTERRM	C	01	LCTONEJF	160	04	LCTSPIL	150	
LCTERROR	20		LCTOPSW1	160		LCTSREG	48	
LCTEXIT	160		LCTOPSW2	164		LCTSRTAD	4	
LCTIDENT	14C		LCTOPSW3	168		LCTSSOBA	194	
LCTIMSG	1B0		LCTPALCD	20	20	LCTSTART	4C	08
LCTINPPT	4C	80	LCTPARM1	24		LCTSTATA	1A0	
LCTINTSW	4C		LCTPARM2	28		LCTSTATB	1A1	
LCTINTS2	1A5		LCTPARM3	2C		LCTSTEPL	190	

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
LCTSTIME	178		LCTTIMEF	164	80	LCTTSTR4	58	
LCTSTIND	38		LCTTIOTI	19C		LCTTSTU3	5D	
LCTSTOP	4C	04	LCTTIOTP	1A8		LCTTSTU4	5C	
LCTSUSPD	1A0	80	LCTTJTU3	51		LCTTSWPC	1A5	20
LCTSYS	1A5	80	LCTTJTU4	50		LCTTTIFJ	58	80
LCTSYSPL	18C		LCTTMBYT	58		LCTVTERM	20	02
LCTS2COP	39	40	LCTTMWRK	50		LCTWORKA	18	
LCTS2FES	39	20	LCTTSIZ	1A4		LCTWRITE	1A1	10
LCTS2PEM	39	80	LCTTSRB3	15D		LCT1LPU	4D	40
LCTTAXT	17C		LCTTSRB4	15C		LCT2LPU	4D	80
LCTTCBAD	8		LCTTSTL3	55		QMGR1	F8	
LCTTCPT	178		LCTTSTL4	54		REGSAVE	68	
LCTTIMAB	C	80	LCTTSTR3	59				

LDA

Common Name : Local Data Area
Macro ID : IHALDA
DSECT Name : LDA
Created by : IEAIPL04, IGVGCAS
Subpool and Key : 255 and key 0
Size : 264 bytes
Pointed to by : ASCBLDA, VSWKLDA
Serialization : LOCAL lock
Function : Contains control information about address space related virtual storage and VSM control block pointers.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	LDA	
	....		LDASTART	"x"
0	(0) SIGNED	4	LVSMFLAG	LOCAL FLAGS
0	(0) BITSTRING	1	LDAFLAGS	
	.... ..1.		LDAFPFM	"X'02'"FREEPART ISSUED FREEMAIN
	1		LDABRSW	"X'01'"BRANCH ENTRY SWITCH
1	(1) BITSTRING	3	LDARES	
4	(4) SIGNED	4	PASCBSV	SAVE AREA FOR ASCB ADDRESS
8	(8) SIGNED	4	ASDPQE	ADDRESS SPACE PQE PTR.
12	(C) SIGNED	4	LDATCB	SAVE TCB PTR. FROM REG 4
16	(10) SIGNED	4	LDARQSTA	CURRENT REQUEST STATUS
20	(14) HEX	1	LDACBSP	SPID FOR GETMAIN OF CONTROL BLKS
21	(15) BITSTRING	3	LDARES2	THREE BYTES RESERVED
24	(18) SIGNED	4	BRANCHSV(16)	REG SAVE AREA #1
88	(58) HEX	500	GMFMWKAR	GETMAIN/FREEMAIN WORK AREA

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
588	(24C) SIGNED	4	SAVEREG2(16)	REG SAVE AREA #2
652	(28C) SIGNED	4	BSAVE(16)	REG SAVE AREA #3
716	(2CC) SIGNED	4	FSAVE(16)	REG SAVE AREA #4
780	(30C) SIGNED	4	G4KSAVE(16)	REG SAVE AREA #5
844	(34C) SIGNED	4	FBQSAVE(16)	REG SAVE AREA #6
908	(38C) SIGNED	4	GMREPSAV(16)	REG SAVE AREA #7
972	(3CC) SIGNED	4	GFRESAVE(16)	REG SAVE AREA #8
1036	(40C) SIGNED	4	OBFRSAVE(16)	REG SAVE AREA #9
1100	(44C) SIGNED	4	CSAVE(16)	REG SAVE AREA #10
1164	(48C) SIGNED	4	CFAPWKAR(75)	GP/FP, CFAS, AND CKEY WORK AREA
1464	(5B8) SIGNED	4	LSQAPTR	LSQA SPQE PTR.
1468	(5BC) SIGNED	4	VVREGSZ	EXPLICIT V=V REGION SIZE
1472	(5C0) SIGNED	4	CURRGNTP	CURRENT TOP OF REGION ADDRESS
1476	(5C4) SIGNED	4	LDASRPQE	POINTER TO SYSTEM REGION PQE
1480	(5C8) ADDRESS	4	LDARSVPT	PTR TO LSQA AREA FOR PAGE TABLE
1484	(5CC) SIGNED	4	LDALIMIT	LIMIT FOR REGION SIZE
	THE FOLLOWING FIELDS MUST REMAIN IN SEQUENCE			
1488	(5D0) SIGNED	4	LCLCELL	INTERNAL CELL ANCHOR BLOCK
1492	(5D4) SIGNED	4	LCLCELCT	COUNT OF FREE INTERNAL CELLS
			LDAEND	"*"

LGE

Common Name : Logic Group Element
Macro ID : ILRLGE
DSECT Name : LGE
Created by : ILRGOS
Subpool and Key : 245 and key 0
Size : 24 bytes
Pointed to by : ASHLGEQ field of the ASMHD data area
LGENEXT field of the LGE data area
LGVELGEP field of the LGVTE data area
Serialization : The ASM class lock of the owning address space is used to serialize the LGE.
Function : ASM's focal point for controlling all operations of a logical group.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	24	LGE	LOGICAL GROUP ENTRY
0	(0) CHARACTER	8	LGEPROCQ	THE LGE PROCESS QUEUE, THIS IS A DOUBLE-THREADED QUEUE CONTAINING AIAS OR ACES FOR ALL OPERATIONS STARTED OR PENDING EXECUTION FOR THE LOGICAL GROUP
0	(0) ADDRESS	4	LGEPROCF	ADDRESS OF FIRST AIA/ACE ON PROCESS QUEUE
4	(4) ADDRESS	4	LGEPROCL	ADDRESS OF LAST AIA/ACE ON PROCESS QUEUE
8	(8) BITSTRING	1	LGEFLAG1	LGE FLAG FIELD
	1...		LGEWRKPD	WORK PENDING FLAG 1 = AT LEAST ONE REQUESTED OPERATION IS PENDING EXECUTION 0 = NO OPERATIONS ARE PENDING
	.1..		LGEGRINP	GROUP OPERATION IN PROGRESS FLAG 1 = GROUP-OPERATION IN PROGRESS 0 = GROUP-OPERATION NOT IN PROGRESS
	..1.		LGERELLG	RELEASE LG REQUESTED. 1 = RELEASE LG HAS BEEN REQUESTED, REJECT ALL FUTURE REQUESTS TO LG. 0 = RELEASE LG HAS NOT

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				BEEN REQUESTED.
	...1		LGESAVRQ	SAVE REQUEST QUEUED. 1 = SAVE LG/LGN OR SAVE LG (IF LGERELLG = 1) REQUEST HAS BEEN QUEUED FOR LG. 0 = NO SAVE REQUESTS QUEUED.
	.... 1...		LGEXMLG	CROSS MEMORY ACCESSABLE LOGICAL GROUP. 1 = THIS LOGICAL GROUP CAN BE ACCESSED BY MULTIPLE MEMORIES. 0 = THIS LOGICAL GROUP CAN ONLY BE ACCESSED BY THE CREATING MEMORY.
	.... .1..		LGERSV3	RESERVED
	.... ..1.		LGERSV4	RESERVED
	1		LGERSV5	RESERVED
9	(9) CHARACTER	1		RESERVED
10	(A) SIGNED	2	LGESLTCT	NUMBER OF SLOTS ASSIGNED TO THIS ADDRESS SPACE OR FREED DURING GROUP OPERATION PROCESSING
12	(C) ADDRESS	4	LGEASPCT	ADDRESS OF ASPCT FOR THIS LOGICAL GROUP
16	(10) ADDRESS	4	LGENEXT	ADDRESS OF NEXT LGE ON PROCESS QUEUE
20	(14) SIGNED	4	LGELGID	LOGICAL GROUP INDENTIFIER FOR THIS LGE
24	(18) CHARACTER	0		

LGVT

Common Name : ASM Logical Group Vector Table
Macro ID : ILRLGVT
DSECT Name : LGVT
Created by : ILRASRIM
Subpool and Key : 245 and key 0
Size : 1024 bytes
Pointed to by : ASMLGVT field of the ASMVT data area
Serialization : The SALLOC lock is used to serialize the available LGVTE queue, the LGVTE's, and the expansion of the LGVT.
Function : LGVT is a collection of information about logical groups for use by ASM. It contains the address of the LGE for the logical group and the address of the ASCB for the address space owning the logical group.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	16	LGVT	LOGICAL GROUP VECTOR TABLE
0	(0) CHARACTER	4	LGVIDENT	CONTROL BLOCK IDENTIFIER, ALWAYS SET TO C'LGVT'
4	(4) ADDRESS	4	LGVLGVEP	POINTER TO FIRST AVAILABLE LGVTE
8	(8) SIGNED	4	LGVMAXLG	HIGHEST LGN SUPPORTED BY CURRENT SIZE OF LGVT
12	(C) SIGNED	4	LGVSIZE	CURRENT SIZE OF LGVT IN BYTES
16	(10) CHARACTER	0	LGVENTRS	LGVT ENTRIES
0	(0) STRUCTURE	8	LGVTE	LOGICAL GROUP VECTOR TABLE ENTRY
0	(0) CHARACTER	8	LGVLGVTE	LGVTE, THE NUMBER OF CONTIGUOUS LGVTES IS SPECIFIED BY THE LGVMAXLG FIELD
0	(0) ADDRESS	4	LGVELGEP	ADDRESS OF LGE FOR THIS LG

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) ADDRESS	4	LGVENEXT	ADDRESS OF NEXT AVAILABLE LGVTE IF THIS LGVTE IS AVAILABLE
4	(4) ADDRESS	4	LGVEASCB	ADDRESS OF ASCB TO WHICH LOGICAL GROUP IS ASSIGNED
4	(4) SIGNED	4	LGVELGID	IF THIS LGVTE IS AVAILABLE, THE LGN OF THE LOGICAL GROUP THIS LGVTE REPRESENTS

LLE

Common Name : Load List Element
Macro ID : IHALLE
DSECT Name : LLE
Created by : Program manager (IEAVLK00)
Subpool and Key : 255 and key 0
Size : 12 bytes
Pointed to by : TCBLLS field of the TCB data area (last LLE)
LLECHN field of the LLE data area (next LLE)
Serialization : Local lock
Function : An LLE controls the loading and deleting (specifically, the LOAD and DELETE functions of Contents Supervision) of a particular load module on an entry point name basis.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	LLE	
0	(0) SIGNED	4	LLECHN	ADDRESS OF NEXT ELEMENT ON LOAD LIST
4	(4) SIGNED	4	LLECDPT	ADDRESS OF CDE FOR MODULE
8	(8) SIGNED	2	LLECOUNT	RESPONSIBILITY COUNT. THE TOTAL NUMBER OF REQUESTS FOR THE MODULE VIA THE LOAD MACRO INSTRUCTION.
10	(A) SIGNED	2	LLESYSCT	SYSTEM RESPONSIBILITY COUNT. THE TOTAL NUMBER OF SYSTEM REQUESTS FOR THE MDOULE VIA THE LOAD MACRO INSTRUCTION.

LPDE

Common Name : Link Pack Directory Entry
Macro ID : IHALPDE
DSECT Name : LPDE
Created by : Program manager RIM (IEAVNP05)
Subpool and Key : 252 and key 0
Size : 40 bytes
Pointed to by : CVTLPDIR field of the CVT data area
LPDECHN field of the LPDE data area(next LPDE)
Serialization : None
Function : Each LPDE represents a particular load module which is loaded into the pageable link pack area. It is the basis for the CDE which is built whenever such a module is activated.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	LPDE	
0	(0) SIGNED	4	LPDECHN	ADDRESS OF NEXT LPDE IN CHAIN OF LPDE SYNONYMS
4	(4) SIGNED	4	LPDERBP	RESERVED
8	(8) CHARACTER	8	LPDENAME	EITHER MODULE NAME OR ALIAS NAME
16	(10) SIGNED	4	LPDENTP	RELOCATED ENTRY POINT ADDRESS
20	(14) SIGNED	4	LPDEXLP	RESERVED
24	(18) SIGNED	2	LPDEUSE	COUNT FIELD COUNT EQUALS ONE
26	(1A) SIGNED	2	LPDERES1	RESERVED FOR FUTURE USE
28	(1C) BITSTRING	1	LPDEATTR	ATTRIBUTE FLAGS
	1...		LPDENIP	"X'80'"- MODULE LOADED BY NIP
	..1.		LPDEREN	"X'20'"- MODULE IS REENTERABLE
	...1		LPDESER	"X'10'"- MODULE IS SERIALLY REUSABLE
	.... .1..		LPDEMIN	"X'04'"- THIS IS A MINOR LPDE
	1		LPDENLR	"X'01'"- NOT LOADABLE ONLY

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
29	(1D) BITSTRING	1	LPDEATT2	SECOND ATTRIBUTE FLAG BYTE
	..1.		LPDEXLE	"X'20'"- EXTENT LIST BUILT MAIN STORAGE OCCUPIED BY MODULE IS DESCRIBED THEREIN
	...1		LPDERLC	"X'10'"- LPDE CONTAINS A RELOCATED ALIAS ENTRY POINT ADDRESS
	.... ..1.		LPDESYSL	"X'02'"- AUTHORIZED LIBRARY MODULE
	1		LPDEAUTH	"X'01'"- PROGRAM AUTHORIZATION FLAG
30	(1E) SIGNED	2	LPDEATT3	RESERVED
32	(20) CHARACTER	8	LPDEMJNM	MAJOR LPDE ENTRY POINT NAME WHEN LPDEMIN=1 OR 8-BYTE EXTENT LIST IF LPDEMIN=0
32	(20) SIGNED	4	LPDEXTLN	LENGTH OF MAIN STORAGE BLOCK IN WHICH MODULE RESIDES
36	(24) ADDRESS	4	LPDEXTAD	ADDRESS OF MAIN STORAGE BLOCK IN WHICH MODULE RESIDES

LRB

Common Name : LOGREC Buffer
Macro ID : IHALRB
DSECT Name : LRB
Created by : MCH - module, IGFPINIT; CCH - module, IGFCHDA; MIH and DDR - module, IGFDR0 (DDR component); system termination - dependent on the terminating component.
Subpool and Key : 245 and key 0
Size : Variable
Pointed to by : PCCALRBR field of the PCCA data area
PCCALRBV field of the PCCA data area
Serialization : CCH serializes the RVTCCHDA field of the RVT data area.
MIH and DDR serialize dynamic storage subpool 245.
Function : Holds log record information that is put on SYS1.LOGREC.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	LRB	
0	(0) HEX	1	LRBHTYPE	TYPE OF RECORD
	RECORD TYPE EQUATES			
	.11.		LRBHREC	"X'60'" DDR RECORD
	1..1		LRBHMDR	"X'90'" MDR RECORD
	.111		LRBHMIH	"X'70'" MIH RECORD
	..1. ...1		LRBHCCH	"X'21'" CCH RECORD
	...1 ..11		LRBHMCH	"X'13'" MCH RECORD
	1... ...1		LRBHTER	"X'81'" SYSTEM TERMINATION RECORD
	1... .1..		LRBHSRS	"X'84'" SYSTEM RESTARTABLE WAIT
	1.1.		LRBHMCF	"X'A0'" MCH FRAME RECORD
	1.11		LRBHCCF	"X'B0'" CCH FRAME RECORD
	.1..		LRBHSFW	"X'40'" 4X TYPE RECORDS ARE SOFTWARE TYPE MAPPED BY IHAHDR
	.1.. 1111		LRBHSFR	"X'4F'" " "
1	(1) HEX	1	LRBHREL	RELEASE NUMBER
	1		LRBHSYS	"LRBHREL" SYSTEM TYPE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	EQUATES FOR LRBHSYS			
	....		LRBHOS	"X'0'" OS SYSTEM
	..1.		LRBHDOS	"X'20'" DOS SYSTEM
	.1..		LRBHVS1	"X'40'" OS/VS1 SYSTEM
	.11.		LRBHCP67	"X'60'" CP67 SYSTEM
	1...		LRBHVS2	"X'80'" OS/VS2 SYSTEM
2	(2) HEX	1	LRBHSW0	INDEPENDENT SWITCH BYTE
	EQUATES FOR LRBHSW0			
	1...		LRBHMORE	"X'80'" MULTIPLE RECORDS
	.1..		LRBHNS	"X'40'" NS MACHINE
	.... 1...		LRBHTMC	"X'08'" TIME MACRO USED
3	(3) HEX	1	LRBHSW1	DEPENDENT SWITCH BYTE 0
	DDR EQUATES FOR LRBHSW1			
	1...		LRBRPRIM	"X'80'" DDR PRIMARY STORAGE RECONFIG
	.1..		LRBRSEC	"X'40'" DDR SEC STORAGE RECONFIG
	..1.		LRBROPER	"X'20'" DDR OPERATOR REQUEST RECONFIG
	...1		LRBRSYSI	"X'10'" DDR PERMANENT ERROR REQUEST
	CCH EQUATES FOR LRBHSW1			
	1...		LRBCMESG	"X'80'" MESSAGE REQUEST
	.1..		LRBCINCO	"X'40'" RECORD INCOMPLETE
	...1		LRBCNOSP	"X'10'" CHANNEL NOT SUPPORTED
	.... 1...		LRBCICUA	"X'08'" ILLEGAL CUA
	.... .1..		LRBCDATA	"X'04'" DATA OVERLAYED
	.... ..1.		LRBCERPP	"X'02'" ERP IN PROGRESS

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	MCH EQUATES FOR LRBHSW1			
	..1.		LRBMSYST	"X'20'" SYSTEM TERMINATED
4	(4) HEX	1	LRBHSW2	DEPENDENT SWITCH BYTE 1
	.... .1..		LRBMACT	"LRBHSW2" MCH BUFFER ACTIVE FLAG
	MIH EQUATES FOR LRBHSW2			
	1...		LRBNCEM	"X'80'" MISSING CHANNEL END
	.1..		LRBNDEM	"X'40'" MISSING DEVICE END
	..1.		LRBNPIOR	"X'20'" PENDING I/O REQUEST
	MDR EQUATES FOR LRBHSW2			
	1		LRBD3330	"X'01'" 3330 TYPE
	.... .1..		LRBD3211	"X'04'" 3211 TYPE
	.... 1..1		LRBD3340	"X'09'" 3340 TYPE
	.... .111		LRBDICE	"X'07'" 3330C TYPE
	1111		LRBD2946	"X'F0'" 2946 TYPE
	1111 ...1		LRBD2948	"X'F1'" 2948 TYPE
	1111 ..1.		LRBD1006	"X'F2'" 1006 TYPE
	1111 ..11		LRBD2703	"X'F3'" 2703 TYPE
	1111 .1..		LRBD2969	"X'F4'" 2969 TYPE
5	(5) HEX	1	LRBHSW3	DEPENDENT SWITCH BYTE 2
	.... .1.1		LRBMCLB	"LRBHSW3" LOGREC CLOBBER FLAG (INDICATES LOGREC BUFFER OVERLAYED)
	.... .1.1		LRBNCHS	"LRBHSW3" MIH CONTAINS CHANNEL SET ASSOCIATED WITH I/O REQUEST
6	(6) HEX	1	LRBHCNT	PHYSICAL RECORDS PER LOGICAL REC CNT
7	(7) HEX	1		RESERVED
8	(8) HEX	4	LRBHDATE	DATE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
12	(C) HEX	4	LRBHTIME	TIME
16	(10) FLOATING	8		
16	(10) HEX	8	LRBHCPID	STIDP OPERAND FIELD
16	(10) HEX	1		RESERVED
17	(11) HEX	3	LRBHCSER	CPU SERIAL NUMBER
20	(14) HEX	2	LRBHMDL	CPU MODEL NUMBER
22	(16) HEX	2	LRBHMCEL	MAXIMUM MCEL LENGTH
24	(18) CHARACTER	1	LRBBASE	END OF HEADER

MACHINE CHECK HANDLER RECORD

24	(18) SIGNED	4	LRBMLNH	LENGTH OF LOGREC RECORD
28	(1C) HEX	4	LRBMWSC	WAIT STATE CODE
32	(20) HEX	4	LRBMCEIA	MACHINE CHECK ERROR INDICATOR AREA
32	(20) HEX	1	LRBMTERM	TERMINAL ERROR FLAGS

```
EQU   X'80'          RESERVED
EQU   X'40'          RESERVED
```

..1.		LRBMTTHR	"X'20'" HARD ERROR THRESHOLD FLAG
...1		LRBMTSEC	"X'10'". SECONDARY ERROR FLAG
.... 1...		LRBMTCKS	"X'08'". CHECK STOP FLAG
.... .1..		LRBMTWRN	"X'04'". POWER WARNING FLAG
.... ..1.		LRBMTDMG	"X'02'". SYSTEM DAMAGE FLAG
....1		LRBMTINV	"X'01'". INVALID LOGOUT FLAG (SET WHEN LRBMCIC=0)
33	(21) HEX	1	LRBMHARD	HARD MACHINE ERROR FLAGS
1...			LRBMHHRD	"X'80'". ASSUMED HARD ERROR FLAG

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
EQU	X'40'		RESERVED	
EQU	X'20'		RESERVED	
	...1		LRBMHSD	"X'10'". SYSTEM DAMAGE FLAG
	.... 1...		LRBMHINV	"X'08'". REGISTER OR PSW INVALID FLAG
	.... .1..		LRBMHSTO	"X'04'". HARD STORAGE FAILURE FLAG
	.... ..1.		LRBMHSPF	"X'02'". HARD PROTECTION KEY ERROR FLAG
	1		LRBMHIPD	"X'01'". INSTRUCTION PROCESSING DAMAGE FLAG
34	(22) HEX	1	LRBMINTM	INTERMEDIATE ERROR FLAGS
EQU	X'80'		RESERVED	
EQU	X'40'		RESERVED	
EQU	X'20'		RESERVED	
EQU	X'10'		RESERVED	
	.... 1...		LRBMITOD	"X'08'". TOD CLOCK ERROR FLAG
	.... .1..		LRBMICKC	"X'04'". CLOCK COMPARATOR ERROR FLAG
	.... ..1.		LRBMICTM	"X'02'". CPU TIMER ERROR FLAG
	1		LRBMIL80	"X'01'". INTERVAL TIMER ERROR FLAG
35	(23) HEX	1	LRBMSOFT	SOFT MACHINE ERROR FLAGS
	1...		LRBMSSFT	"X'80'". ASSUMED SOFT ERROR FLAG
EQU	X'40'		RESERVED	
EQU	X'20'		RESERVED	
	...1		LRBMDBSE	"X'10'" DOUBLE BIT STORAGE ERROR FLAG
	.... 1...		LRBMSEXD	"X'08'". EXTERNAL DAMAGE FLAG
	.... .1..		LRBMSECC	"X'04'". ECC CORRECTED STORAGE ERROR FLAG
	.... ..1.		LRBMSHIR	"X'02'". HIR CORRECTED PROCESSOR ERROR FLAG
	1		LRBMSBUF	"X'01'". BUFFER ERROR FLAG

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
36	(24) HEX	1	LRBMPDAR	PDAR DATA (SUPPLIED BY RTM)
	EQU X'80' RESERVED			
	EQU X'40' RESERVED			
	EQU X'20' RESERVED			
	...1		LRBMINVP	"X'10'". STORAGE RECONFIGURED PAGE INVALIDATED
	.... 1...		LRBMRSRC	"X'08'". STORAGE RECONFIGURATION STATUS AVAILABLE (FOLLOWING TWO BYTES ARE MEANINGFULL)
	.... .1..		LRBMRSRF	"X'04'". STORAGE RECONFIGURATION NOT ATTEMPTED
	EQU X'02' RESERVED			
	EQU X'01' RESERVED			
37	(25) HEX	1	LRBMRSR1	STORAGE RECONFIGURATION STATUS BYTE 1
	EQU X'80' RESERVED			
	EQU X'40' RESERVED			
	EQU X'20' RESERVED			
	EQU X'10' RESERVED			
	EQU X'08' RESERVED			
	EQU X'04' RESERVED			
	.... ..1.		LRBMSER	"X'02'". STORAGE ERROR WAS ALREADY SET IN FRAME
	1		LRBMCHNG	"X'01'". FRAME HAD CHANGE INDICATOR ON
38	(26) HEX	1	LRBMRSR2	STORAGE RECONFIGURATION STATUS BYTE 2
	1...		LRBMOFLN	"X'80'". FRAME IS OFFLINE OR SCHEDULED TO GO OFFLINE
	.1..		LRBMINTC	"X'40'". INTERCEPT FRAME IS SCHEDULED TO GO OFFLINE, HAS A PERMANENT STORAGE ERROR, OR IS SCHEDOLED FOR V=R STATUS

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	..1.		LRBMSPER	"X'20'". PERMANENT ERROR OCCURS IN FRAME
	...1		LRBMNUCL	"X'10'". FRAME CONTAINS PERMANENTLY RESIDENT SYSTEM STORAGE
	.... 1...		LRBMFSQA	"X'08'". FRAME IS IN USE FOR SQA
	.... .1..		LRBMLSQA	"X'04'". FRAME IS IN USE FOR LSQA
	.... ..1.		LRBMPGFX	"X'02'". FRAME CONTAINS PAGE FIXED DATA
	1		LRBMVEQR	"X'01'". FRAME IS IN USE FOR V=R OR IS SCHEDULED FOR V=R
39	(27) HEX	1	LRBMPWL	PHYSICAL WORD LENGTH (CHECKING BLOCK SIZE)
40	(28) HEX	8	LRBMMOSW	MACHINE CHECK OLD PSW (FROM STORAGE LOCATIONS 48-55)
48	(30) HEX	280	LRBMFLO	MACHINE CHECK FIXED LOGOUT AREA (MOVED FROM STORAGE LOCATIONS 232-511)
48	(30) HEX	8	LRBMCIC	MACHINE CHECK INTERRUPT CODE (MOVED FROM STORAGE LOCATIONS 232-239)
48	(30) HEX	1		1ST BYTE OF LRBMCIC
	1...		LRBMFSD	"X'80'". SYSTEM DAMAGE
	.1..		LRBMFPD	"X'40'". PROCESSING DAMAGE
	..1.		LRBMFSR	"X'20'". SYSTEM RECOVERY
	...1		LRBMFTD	"X'10'". TIMER DAMAGE
	.... 1...		LRBMFCD	"X'08'". CLOCK DAMAGE
	.... .1..		LRBMFED	"X'04'". EXTERNAL DAMAGE
EQU	X'02'	RESERVED		
	1		LRBMFDG	"X'01'". DEGRADATION
49	(31) HEX	1		2ND BYTE OF LRBMCIC
	1...		LRBMFWN	"X'80'". POWER WARNING

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
EQU	X'40'		RESERVED	
EQU	X'20'		RESERVED	
EQU	X'10'		RESERVED	
EQU	X'08'		RESERVED	
EQU	X'04'		RESERVED	
	.... ..1.		LRBMIBU	"X'02'". BACK UP INDICATOR
	1		LRBMIDY	"X'01'". DELAYED
50	(32) HEX	1		3RD BYTE OF LRBMCIC
	1...		LRBMFSE	"X'80'". STORAGE ERROR
	.1..		LRBMFSC	"X'40'". STORAGE ERROR CORRECTED
	..1.		LRBMFKE	"X'20'". KEY ERROR
	...1		LRBMFDS	"X'10'" DOUBLE BIT STORAGE ERROR
	.... 1...		LRBMVWP	"X'08'". PSW EMWP VALIDITY
	.... .1..		LRBMVMS	"X'04'". PSW MASKS 'AND KEY VALIDITY
	.... ..1.		LRBMVPM	"X'02'". PROGRAM MASKS AND CONDITION CODE VALIDITY
	1		LRBMVIA	"X'01'". INSTRUCTION ADDRESS VALIDITY
51	(33) HEX	1		4TH BYTE OF LRBMCIC
	1... .. .		LRBMVFA	"X'80'". FAILING STORAGE ADDR VALIDITY
	.1..		LRBMVRC	"X'40'". REGION CODE VALIDITY
	..1.		LRBMVED	"X'20'". EXTERNAL DAMAGE VALIDITY
	...1		LRBMVFP	"X'10'". FLOATING POINT REG VALIDITY
	.... 1...		LRBMVGR	"X'08'". GENERAL PURPOSE REG VALIDITY
	.... .1..		LRBMVCR	"X'04'". CONTROL REG VALIDITY
	.... ..1.		LRBMVLG	"X'02'". LOGOUT (MCEL) VALIDITY
	1		LRBMVST	"X'01'". STORAGE LOGICAL VALIDITY
52	(34) HEX	1		5TH BYTE OF LRBMCIC
	1...		LRBMNVF	"X'80'". LRB MAY NOT BE VALID
EQU	X'40'		RESERVED	
	..1.		LRBMDAE	"X'20'" DELAYED ACCESS EXCEPTION

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
EQU	X'10'		RESERVED	
EQU	X'08'		RESERVED	
EQU	X'04'		RESERVED	
EQU	X'02'		RESERVED	
EQU	X'01'		RESERVED	
53	(35) HEX	1		6TH BYTE OF LRBMCIC
EQU	X'80'		RESERVED	
EQU	X'40'		RESERVED	
EQU	X'20'		RESERVED	
EQU	X'10'		RESERVED	
EQU	X'08'		RESERVED	
EQU	X'04'		RESERVED	
.... ..1.			LRBMVPT	"X'02'". PROCESSOR TIMER VALIDITY
....1			LRBMVCC	"X'01'". CLOCK COMPARATOR VALIDITY
54	(36) HEX	2	LRBMCELL	MACHINE CHECK EXTENDED LOGOUT LENGTH (ACTUAL LENGTH OF MCEL DATA STORED FOR THIS MACHINE CHECK INTERRUPTION)
56	(38) HEX	4		DATA FROM 240-243
60	(3C) HEX	1	LRBMEDC	DATA FROM 244 EXTERNAL DAMAGE CODE
EQU	X'80' .		RESERVED	
EQU	X'40' .		RESERVED	
..1.			LRBMEXSR	"X'20'". EXTERNAL SECONDARY REPORT
...1			LRBMCNOP	"X'10'". CHANNEL NOT OPERATIONAL
.... 1...			LRBMCCF	"X'08'". CHANNEL CNTL FAILURE
.... .1..			LRBMINST	"X'04'". I/O INSTRUCTION TIMEOUT
.... ..1.			LRBMINTR	"X'02'". I/O INTERRUPTION TIMEOUT

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
EQU X'01'	RESERVED			
61 (3D)	HEX	3		RESERVED ALWAYS ZERO
64 (40)	ADDRESS	4	LRBMFSA	FAILING STORAGE ADDRESS (MOVED FROM STORAGE LOCATIONS 248-251)
68 (44)	HEX	4		DATA FROM 252:255
72 (48)	HEX	96		DATA FROM 256:351
168 (A8)	HEX	32		DATA FROM 352:383
200 (C8)	HEX	64	LRBGREGS	DATA FROM 384:447, GENERAL PURPOSE REGISTERS
264 (108)	HEX	64	LRBCREGS	DATA FROM 448:511, CONTROL REGISTERS
328 (148)	HEX	1	LRBMCEL	MACHINE CHECK EXTENDED LOGOUT AREA (LENGTH IS MODEL DEPENDENT AND VARIES FROM MACHINE CHECK TO MACHINE CHECK FOR A GIVEN MODEL THE ACTUAL LENGTH IS CONTAINED IN THE HALFWORD FIELD 'LRBMCELL', THE MAXIMUM LENGTH IS CONTAINED IN THE HALFWORD FIELD 'LRBHMCEL', AND THE MINIMUM LENGTH IS ZERO)
RECONFIGURATION (DDR) RECORD				
24 (18)	CHARACTER	8	LRBRJOB	'FROM' DEVICE USER'S JOB NAME
32 (20)	CHARACTER	6	LRBRVOL1	VOLUME MOUNTED ON 'FROM' DEVICE
38 (26)	CHARACTER	6	LRBRVOL2	VOLUME MOUNTED ON 'TO' DEVICE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
44 (2C)	CHARACTER	1	LRBRPH1	PHYSICAL ID OF DEVICE
45 (2D)	CHARACTER	3	LRBRCUA1	PRIMARY CUA OF 'FROM' DEVICE
48 (30)	CHARACTER	4	LRBRDEV1	'FROM' DEVICE TYPE
52 (34)	CHARACTER	1	LRBRPH2	PHYSICAL ID OF 'TO' DEVICE
53 (35)	CHARACTER	3	LRBRCUA2	PRIMARY CUA OF 'TO' DEVICE
56 (38)	CHARACTER	4	LRBRDEV2	'TO' DEVICE TYPE

CHANNEL CHECK HANDLER RECORD

24 (18)	CHARACTER	8	LRBCJOB	JOBNAME OF JOB WHOSE I/O RESULTED IN A CHANNEL ERROR
32 (20)	CHARACTER	16	LRBCAIO	ADDRESS OF ACTIVE I/O (2 BYTES/CHANNEL)
48 (30)	CHARACTER	8	LRBCFCCW	FAILING CCW
56 (38)	CHARACTER	8	LRBCFCSW	CSW STORED AT FAILURE
64 (40)	SIGNED	4	LRBCECSW	EXTENDED CSW
68 (44)	SIGNED	4	LRBCDEVT	DEVICE TYPE (FROM UCB)
72 (48)	CHARACTER	1	LRBCCHID	ID OF FAILING CHANNEL 00 CHANNEL TYPE UNKNOWN 01 INTEGRATED MULTIPLEXOR 02 INTEGRATED SELECTOR 03 INTEGRATED BLOCK MULTIPLEXOR 04 RESERVED 05 2860 SELECTOR 06 2870 MULTIPLEXOR 07 2880 BLOCK MULTIPLEXOR 08 NS SELECTOR 09 RESERVED 0A INTEGRATED FILE ADAPTER 0B-FF RESERVED
73 (49)	CHARACTER	1	LRBCCUA	3 BYTE ADDRESS OF CHANNEL AND UNIT IN USE AT TIME OF FAILURE
74 (4A)	CHARACTER	2	LRBCCUA2	2 BYTE ADDRESS OF CHANNEL AND UNIT IN USE AT TIME OF FAILURE
76 (4C)	SIGNED	2	LRBCHCUA	CHANNEL AND UNIT ADDRESS LOGGED BY HARD-

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				WARE
78	(4E) SIGNED	2	LRBCLOGL	LENGTH OF CHANNEL LOGOUT
80	(50) CHARACTER	1	LRBCCLOG	CHANNEL LOGOUT. LENGTH DEPENDENT UPON CHANNEL TYPE
80	(50) CHARACTER	2	LRBCFT	CCH FOOTPRINTS
82	(52) CHARACTER	2	LRBCRESD	RESERVED
84	(54) CHARACTER	1	LRBCMPF1	MP INFORMATION FLAG BYTE 1 RESERVED
85	(55) CHARACTER	1	LRBCMPF2	MP INFORMATION FLAG BYTE 2 RESERVED
86	(56) CHARACTER	2	LRBCMPNO	NUMBER OF ACTIVE PROCESSORS
88	(58) HEX	4	LRBCMP(16)	MP CPU ID AND CHANNEL STATUS, (FOUR BYTES PER CPU)
88	(58) CHARACTER	2	LRBCMPPA	ADDRESS OF CPU WITH A CHANNEL DETECTED ERROR
90	(5A) CHARACTER	2	LRBCMPCS	CHANNEL STATUS (ONLINE/OFFLINE). OFFLINE =1, BIT 0 = CHANNEL 0 ETC.

END OF CHANNEL CHECK HANDLER RECORD
MISSING INTERRUPTION HANDLER RECORD

24	(18) CHARACTER	8	LRBNJOB	JOBNAME OF JOB WHOSE I/O WAS PENDING
32	(20) CHARACTER	3	LRBNCUA2	CUA USED TO ADDRESS THE DEVICE
35	(23) CHARACTER	3	LRBNCUA1	PRIMARY CUA
38	(26) CHARACTER	6	LRBNVOL	VOLUME SERIAL NUMBER
44	(2C) SIGNED	4	LRBNDEVT	DEVICE TYPE (FROM UCB)
48	(30) CHARACTER	8	LRBNINT	TIME INTERVAL
56	(38) CHARACTER	1	LRBNMIHT	UCM MIH BYTE IN UCB EXTENSION
57	(39) CHARACTER	1	LRBNRSVD	RESERVED
58	(3A) CHARACTER	2	LRBNASID	ASID OF I/O REQUEST OR ZERO

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
60	(3C) CHARACTER	48	LRBNUCB	UCB COMMON AND EXTENSION
60	(3C) CHARACTER	24	LRBNUCBC	UCB COMMON SECTION
84	(54) CHARACTER	24	LRBNUCBD	UCB DEVICE DEPENDENT SECTION
MISCELLANEOUS DATA RECORDER RECORD				
24	(18) CHARACTER	2	LRBDCUA1	PRIMARY CUA
26	(1A) CHARACTER	6	LRBDVOL	VOLUME SERIAL NUMBER
32	(20) CHARACTER	24	LRBDSENS	DEVICE SENSE DATA
SYSTEM TERMINATION RECORD				
24	(18) SIGNED	4	LRBTLNH	LOGREC RECORD LENGTH
28	(1C) HEX	4	LRBTWSC	WAIT STATE CODE
32	(20) HEX	1	LRBTUSR	USER DATA FIELD-NOTE THE VALUE IN LRBTLNH IS THE TOTAL LENGTH INCLUDING THE LRBTUSR, EXCLUDING THE HEADER.

CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
LRB	0		LRBD2969	4	F4	LRBMCEIA	20	
LRBBASE	18		LRBD3211	4	04	LRBMCEL	148	
LRBCAIO	20		LRBD3330	4	01	LRBMCELL	36	
LRBCCCH	3C		LRBD3340	4	09	LRBMCHNG	25	01
LRBCCHID	48		LRBGREGS	C8		LRBMCIC	30	
LRBCCLOG	50		LRBHCCF	0	B0	LRBMCLB	5	05
LRBCCUA	49		LRBHCCH	0	21	LRBMCNOP	3C	10
LRBCCUA2	4A		LRBHCNT	6		LRBMDAE	34	20
LRBCDATA	3	04	LRBHCPID	10		LRBMDBSE	23	10
LRBCDEVT	44		LRBHCP67	1	60	LRBMEDC	3C	
LRBCECSW	40		LRBHCSER	11		LRBMEXSR	3C	20
LRBCERPP	3	02	LRBHDATE	8		LRBMFCD	30	08
LRBCFCCW	30		LRBHDOS	1	20	LRBMFDG	30	01
LRBCFCSW	38		LRBHMCEL	16		LRBMFDS	32	10
LRBCFT	50		LRBHMCF	0	A0	LRBMFED	30	04
LRBCHCUA	4C		LRBHMCH	0	13	LRBMFKE	32	20
LRBCICUA	3	08	LRBHMDL	14		LRBMFLO	30	
LRBCINCO	3	40	LRBHMDR	0	90	LRBMFPD	30	40
LRBCJOB	18		LRBHMIH	0	70	LRBMFSA	40	
LRBCLOGL	4E		LRBHMORE	2	80	LRBMFSC	32	40
LRBCMESG	3	80	LRBHNS	2	40	LRBMFSD	30	80
LRBCMP	58		LRBHOS	1	00	LRBMFSE	32	80
LRBCMPAR	98		LRBHREC	0	60	LRBMFSQA	26	08
LRBCMPCS	5A		LRBHREL	1		LRBMFSR	30	20
LRBCMPF1	54		LRBHSFR	0	4F	LRBMFTD	30	10
LRBCMPF2	55		LRBHSFW	0	40	LRBMFWN	31	80
LRBCMPNO	56		LRBHSRS	0	84	LRBMHARD	21	
LRBCMPPA	58		LRBHSW0	2		LRBMHHRD	21	80
LRBCNOSP	3	10	LRBHSW1	3		LRBMHINV	21	08
LRBCREGS	108		LRBHSW2	4		LRBMHIPD	21	01
LRBCRESD	52		LRBHSW3	5		LRBMHSD	21	10
LRBDCUA1	18		LRBHSYS	1	01	LRBMHSPF	21	02
LRBDICE	4	07	LRBHTER	0	81	LRBMHSTO	21	04
LRBDMDR	6C		LRBHTIME	C		LRBMIBU	31	02
LRBDSENS	20		LRBHTMC	2	08	LRBMICKC	22	04
LRBDVOL	1A		LRBHTYPE	0		LRBMICTM	22	02
LRBD1006	4	F2	LRBHVS1	1	40	LRBMIDY	31	01
LRBD2703	4	F3	LRBHVS2	1	80	LRBMIL80	22	01
LRBD2946	4	F0	LRBMACT	4	04	LRBMINST	3C	04
LRBD2948	4	F1	LRBMCCF	3C	08	LRBMINTC	26	40

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
LRBMINTM	22		LRBMTERM	20		LRBNINT	30	
LRBMINTR	3C	02	LRBMTINV	20	01	LRBNJOB	18	
LRBMINVP	24	10	LRBMTSEC	20	10	LRBNMIH	5C	
LRBMITOD	22	08	LRBMTTHR	20	20	LRBNMIHT	38	
LRBMLNH	18		LRBMTWRN	20	04	LRBNPIOR	4	20
LRBMLSQA	26	04	LRBMVCC	35	01	LRBNRSVD	39	
LRBMMCH	18		LRBMVCR	33	04	LRBNUCB	3C	
LRBMMOSW	28		LRBMVED	33	20	LRBNUCBC	3C	
LRBMNUCL	26	10	LRBMVEQR	26	01	LRBNUCBD	54	
LRBMNVF	34	80	LRBMVFA	33	80	LRBNVOL	26	
LRBMOFLN	26	80	LRBMVFP	33	10	LRBRCUA1	2D	
LRBMPDAR	24		LRBMVGR	33	08	LRBRCUA2	35	
LRBMPGFX	26	02	LRBMVIA	32	01	LRBRDDR	148	
LRBMPWL	27		LRBMVLG	33	02	LRBRDEV1	30	
LRBMRSRC	24	08	LRBMVMS	32	04	LRBRDEV2	38	
LRBMRSRF	24	04	LRBMVPM	32	02	LRBRJOB	18	
LRBMRSR1	25		LRBMVPT	35	02	LRBROPER	3	20
LRBMRSR2	26		LRBMVRC	33	40	LRBRPH1	2C	
LRBMSBUF	23	01	LRBMVST	33	01	LRBRPH2	34	
LRBMSECC	23	04	LRBMVWP	32	08	LRBRPRIM	3	80
LRBMSER	25	02	LRBMWSC	1C		LRBRSEC	3	40
LRBMSEXD	23	08	LRBNASID	3A		LRBRSYSI	3	10
LRBMSHIR	23	02	LRBNCEM	4	80	LRBRVOL1	20	
LRBMSOFT	23		LRBNCHS	5	05	LRBRVOL2	26	
LRBMSPER	26	20	LRBNCUA1	23		LRBTLNH	18	
LRBMSSFT	23	80	LRBNCUA2	20		LRBTTER	38	
LRBMSYST	3	20	LRBNDEM	4	40	LRBTUSR	20	
LRBMTCKS	20	08	LRBNDEVT	2C		LRBTWSC	1C	
LRBMTDMG	20	02						

LSCT

Common Name : SRM Logical Swap Control Table
Macro ID : IRALSCT
DSECT Name : LSCT
Created by : Assembled in the nucleus
Subpool and Key : Nucleus and key 0
Size : 48 bytes
Pointed to by : RMCTLSCT field of the RMCT data area.
Serialization : SRM lock
Function : SRM logical swap control information.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	64	LSCT	LOGICAL SWAP CONTROL TABLE
0	(0) CHARACTER	4	LSCTLSCT	ACRONYM IN EBCDIC LSCT-
	LOGICAL SWAP CONTROL CONSTANTS			
4	(4) SIGNED	2	LSCTUCTL	UIC THRESHOLD LOW
6	(6) SIGNED	2	LSCTUCTH	UIC HIGH THRESHOLD
8	(8) SIGNED	2	LSCTASTL	ASM QUEUED REQ LOW
10	(A) SIGNED	2	LSCTASTH	ASM QUEUED REQ HIGH
12	(C) SIGNED	2	LSCTAFQL	AVAIL FRAME LOW
14	(E) SIGNED	2	LSCTAFQH	AVAIL FRAME HIGH
16	(10) SIGNED	4	LSCTMTEL	THINK TIME LOW THRESH
20	(14) SIGNED	4	LSCTMTEH	THINK TIME HIGH THRESH
24	(18) SIGNED	4	LSCTMTEI	THINK TIME INCREMENT
28	(1C) SIGNED	4	LSCTMTED	THINK TIME DECREMENT

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
32	(20) SIGNED	4	LSCTETD	CHECK THINK TIME DELTA
	LOGICAL SWAP CONTROL VARIABLES			
36	(24) UNSIGNED	4	LSCTMTE	MAXIMUM THINK TIME
36	(24) SIGNED	4	LSCTMTES	MAX THINK TIME SIGNED
40	(28) SIGNED	4	LSCTCNT	NUMBER OF LOGICAL SWAP TERM WAITS
	EXTENDED REAL CONTROL CONSTANTS			
44	(2C) SIGNED	2	LSCTFTTL	LOGICAL LOW FIXED FRAME THRESHOLD (BASED ON % OF PVTPOOL)
46	(2E) SIGNED	2	LSCTFTTH	LOGICAL HIGH FIXED FRAME THRESHOLD (BASED ON % OF PVTPOOL)
48	(30) SIGNED	2	LSCTFETL	PHYSICAL LOW FIXED FRAME THRESHOLD (BASED ON % OF PVTPOOL-PVTPOOLA)
50	(32) SIGNED	2	LSCTFETH	PHYSICAL HIGH FIXED FRAME THRESHOLD (BASED ON % OF PVTPOOL-PVTPOOLA)
52	(34) BITSTRING	1	LSCTFLAG	FLAGS
	1...		LSCTLWSS	LARGE LOGICALLY SWAPPED USER MAY EXIST
	.111 1111			RESERVED
53	(35) BITSTRING	1	LSCTRSV1	RESERVED
54	(36) SIGNED	2	LSCTCNTW	# LONG + DET. WT. LOG. SWAPPED
56	(38) SIGNED	4	LSCTLDTH	THINK TIME THRESHOLD FOR LOGICAL SWAP OF LONG OR DETECTED WAITS
60	(3C) SIGNED	4	LSCTRSV3	RESERVED
64	(40) CHARACTER	0	LSCTEND	END OF LSCT

MCT

Common Name : SRM Storage Management Control Table
Macro ID : IRAMCT
DSECT Name : MCT
Created by : Assembled into nucleus module IRARMCNS
Subpool and Key : NUCLEUS and key 0
Size : 328 bytes
Pointed to by : RMCTMCT field of the RMCT data area
Serialization : SRM lock
Function : Contains storage management control information for use by SRM storage management module (IRARMSTM)

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	328	MCT	STORAGE CONTROL TABLE
0	(0) CHARACTER	4	MCTMCT	ACRONYM IN EBCDIC MCT-
				STORAGE CONTROL CONSTANTS POINTERS TO SHORTAGE MESSAGES
4	(4) ADDRESS	4	MCCMS100	SQA SHORTAGE MESSAGE ADDRESS
8	(8) ADDRESS	4	MCCMS101	CRITICAL SQA SHORTAGE MSG ADDR
12	(C) ADDRESS	4	MCCMS102	SQA SHORTAGE RELIEVED MSG ADDR
16	(10) ADDRESS	4	MCCMS200	AUX SHORTAGE MESSAGE ADDRESS
20	(14) ADDRESS	4	MCCMS201	CRITICAL AUX SHORTAGE MSG ADDR
24	(18) ADDRESS	4	MCCMS202	AUX SHORTAGE RELIEVED MSG ADDR
28	(1C) ADDRESS	4	MCCMS203	AUX SHORTAGE USER MESSAGE ADDRESS

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
32 (20)	ADDRESS	4	MCCMS400	FIX PAGE SHORTAGE MSG ADDR
36 (24)	ADDRESS	4	MCCMS401	CRITICAL FIX PAGE SHORTAGE MSG ADDR
40 (28)	ADDRESS	4	MCCMS402	FIX PAGE SHORTAGE RELIEVED MSG ADDR
44 (2C)	ADDRESS	4	MCCMS403	FIX PAGE USER MESSAGE ADDRESS
48 (30)	ADDRESS	4	MCCMS500	SWAP IN FAIL USER MESSAGE ADDRESS
52 (34)	ADDRESS	4	MCCMS501	PTR TO SWAP IN MSG
STORAGE CONTROL CONSTANTS				
56 (38)	SIGNED	2	MCCPLUS	AVAILABLE FRAME QUEUE DELTA FOR STEALING
58 (3A)	SIGNED	2	MCCSTLCT	NO OF PAGES TO STEAL FROM EACH ADSPC OR COMMON EACH STEAL PASS
60 (3C)	SIGNED	2	MCVDFPGC	DEFERRED PAGE REQ CT
62 (3E)	SIGNED	2	MCCSIPRT	TIME BETWEEN PAGE-IN RATE CALCULATIONS
STORAGE LOAD BALANCER CONSTANTS				
64 (40)	SIGNED	2	MCCSBSIG	MIN SIG USER FRAME THRSHOLD
66 (42)	SIGNED	2	MCCSBAF1	STC AVERAGING FACTOR
68 (44)	SIGNED	2	MCCSBAF2	MCCSBAF1+1
70 (46)	SIGNED	2	MCCSBSTH	HIGH STC IMBALANCE THRSHOLD
72 (48)	SIGNED	2	MCCSBSTL	LOW STC IMBALANCE THRSHOLD
74 (4A)	SIGNED	2	MCCSBATH	HIGH AFC THRSHOLD

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
76	(4C) SIGNED	2	MCCSBATL	LOW AFC THRSHOLD
78	(4E) SIGNED	2	MCCSBSCF	STOR CONTENTION SCALOR
80	(50) SIGNED	2	MCCSBFCF	FRAME COUNT SCALOR
82	(52) SIGNED	2	MCCSBMXR	MAX REC VAL
84	(54) SIGNED	2	MCCSBMNR	MIN REC VAL
86	(56) SIGNED	2	MCCSIGRS	WORKING SET SIZE TARGET FOR ENQ/DEQ ADDRESS SPACE
88	(58) SIGNED	4	MCCSBMIN	MINIMUM INTERVAL FOR COMPUTING STC AVERAGE
92	(5C) SIGNED	4	MCCSBMSW	MINIMUM INTERVAL TO PRESERVE REC VAL TO CORRECT IMBALANCE
96	(60) SIGNED	4	MCCSBETH	EXEC TIME THRESHOLD FOR SIGNIFICANT USER CHECK
	AUX STORAGE MONITORING CONSTANTS			
100	(64) SIGNED	2	MCCASMT1	FIRST AUX SHORTAGE THRESHOLD
102	(66) SIGNED	2	MCCASMT2	SECOND AUX SHORTAGE THRESHOLD
104	(68) CHARACTER	0	MCCEND	END OF MCT CONSTANTS
	STORAGE CONTROL VARIABLES			
104	(68) BITSTRING	1	MCVSIFLG	STORAGE ISOLATION FLG
	1...		MCVSIPG	ADS STG ISOL IN EFFECT
	.1..		MCVSICM	CMN STG ISOL IN EFFECT
	..1.		MCVSIWS	CMN STORAGE PROTECTED BY WORKING SET SIZE
	...1		MCVSIPI	CMN STORAGE PROTECTED BY PAGE IN RATE
	 1111		MCVSIR4	RESERVED

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
105	(69) BITSTRING	1	MCVSIR8	RESERVED
106	(6A) SIGNED	2	MCVTWSS	TARGET WSS FOR COMMON
108	(6C) SIGNED	2	MCVSIWL	CMN LOW WSS TARGET
110	(6E) SIGNED	2	MCVSIWH	CMN HI WSS TARGET
112	(70) SIGNED	2	MCVSIPL	CMN LOW PAGE-IN RATE
114	(72) SIGNED	2	MCVSIPH	CMN HIGH PAGE-IN RATE
116	(74) SIGNED	4	MCVSIBP	CMN BASE PAGE-IN CNT
120	(78) UNSIGNED	4	MCVSIBT	CMN BASE TIME FOR PAGE IN RATE CALCULATION
124	(7C) SIGNED	2	MCVSIPR	CMN RECENT PAGEIN RATE
126	(7E) SIGNED	2	MCVFMCT	CMN EFFECTIVE FMCT
128	(80) SIGNED	2	MCVSTCRI	HIGHEST SYSTEM UIC
130	(82) SIGNED	2	MCVFRCNT	NUMBER OF PAGES NEEDED TO BE STOLEN BY THE FORCE STEAL RTN
132	(84) SIGNED	4	MCVAVQC	COUNT OF AVQLOWS
	STORAGE LOAD BALANCER VARIABLES			
136	(88) SIGNED	2	MCVSBCTR	STOR CONT SAMPLE COUNT
138	(8A) SIGNED	2	MCVSBSCA	SHORT TERM STC AVE
140	(8C) SIGNED	2	MCVSBLTS	LONG TERM STC AVE
142	(8E) SIGNED	2	MCVSBFQA	AVAIL FRAME Q AVE
144	(90) SIGNED	2	MCVSBRVF	STOR CONT FACTOR FOR LOAD BAL RECOMMENDATION
146	(92) SIGNED	2	MCVSBSIG	SIG USER THRSHOLD
148	(94) SIGNED	4	MCVSBBT	BASE TOD FOR AVE STEAL CRI

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
152	(98) SIGNED	4	MCVSBSCC	STEAL CRI ACCUM
156	(9C) SIGNED	4	MCVSBFQC	AVAIL FRAME Q ACCUM
160	(A0) SIGNED	4	MCVSBIMT	TOD OF LAST STOR IMBAL

MEMORY CONTROL FLAGS

164	(A4) BITSTRING	1	MCTSFLGS	FLAGS MODIFIED UNDER SALLOC LCK
	1...		MCTSQA1	SQA FIRST LEVEL SHORTAGE
	.1..		MCTSQA2	SQA SECOND LEVEL SHORTAGE
	..1.		MCTAVQ1	AVQ BELOW LIMIT
	...1 1111		MCTSF05	RESERVED
165	(A5) BITSTRING	1	MCTOFLGS	FLAGS MODIFIED UNDER SRM LOCK
	1...		MCTASM1	ASM FIRST LEVEL SHORTAGE
	.1..		MCTASM2	ASM SECOND LEVEL SHORTAGE
	..1.		MCTUICXF	SRB SCHED FOR UIC UPDT
	...1		MCTAMS2	ASM SECOND LEVEL MESSAGE
	.... 1...		MCTSMS1	SQA FIRST LEVEL MESSAGE
	.... .1..		MCTSMS2	SQA SECOND LEVEL MESSAGE
	.... ..1.		MCTFX1	FIX PG 1ST LEVEL MSG
	1		MCTFX2	FIX PG 2ND LEVEL MSG
166	(A6) BITSTRING	1	MCTOFLG1	MORE FLAGS SRM LOCK
	1...		MCTSBACT	STOR LOAD BAL ACTIVE
	.1..		MCTSBOOB	STORAGE OUT OF BALANCE
	..1.		MCTUICCA	SRB SCHED-COMMON UIC
	...1		MCTSQAE	SQA EXPANDED MSG
	.... 1...		MCTFXMPL	REDUCE MPL TO RELIEVE SHORTAGE
	.... .1..		MCTSQDC	PVTSQDC FIELD INCREMENTED FOR MP CONFIGURATION
	.... ..1.		MCTLGAVQ	LOGICAL AVQLOW LEVEL 1
	1		MCTSCBT	STOLE CMN BELOW THRES
167	(A7) BITSTRING	1	MCTCFLGS	FLAGS TURNED ON UNDER SALLOC LOCK & OFF UNDER SRM LOCK
	1...		MCTFAVQ	FIXED FRAMES ABOVE LIM
	.1..		MCTLGPSS	LOGICAL PAGEABLE STORAGE SHORTAGE
	..1.		MCTPHPSS	PHYSICAL PAGEABLE STORAGE SHORTAGE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	...1		MCTPVTI	PVT FIELDS INITIALIZED
	 1111		MCTCF04	RESERVED
168	(A8) ADDRESS	4	MCCMS103	SQA EXPANDED MSG ADDR
	TIME INTERVAL VALUES FOR PR1 INVOCATION			
172	(AC) SIGNED	4	MCCUICBD	UIC LIMIT BEFORE ADJUSTING
176	(B0) SIGNED	2	MCCFXUIC	FIXED FRAME SHORTAGE UIC THRESHOLD
178	(B2) SIGNED	2	MCVPVTRI	HIGHEST UIC PVT AREA
180	(B4) SIGNED	4	MCCPR1IN	INITIAL RMEPINT FOR PR1
184	(B8) SIGNED	4	MCCINTMX	MAX PR1 INTERVAL
188	(BC) CHARACTER	16		
188	(BC) UNSIGNED	1		
189	(BD) UNSIGNED	15	MCCINTB	COUNT INTERVAL TABLE
204	(CC) SIGNED	4	MCVINC	PR1 INTERVAL
208	(D0) SIGNED	4	MCVCURCT	PR1 COUNT
212	(D4) SIGNED	4	MCVMAXCT	MAXIMUM COUNT
216	(D8) SIGNED	2	MCCSIWDL	% OF WORKING SET SIZE TWSS IS TO BE LOWERED BY
218	(DA) SIGNED	2	MCCSIWDI	% OF WORKING SET SIZE TWSS IS TO BE INCREASED BY
220	(DC) SIGNED	4	MCCSIETH	EXEC TIME THRESHOLD FOR PAGING RATE CALCULATE
224	(E0) SIGNED	2	MCCSBMXF	STOR LD BAL REC VAL MAPPED INTO ALLOW-

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				ABLE RANGE AS PERCENT OF THIS CONSTANT
226	(E2) SIGNED	2	MCCSBRND	ROUNDING FACTOR FOR LD BAL COMPUTATION.
228	(E4) SIGNED	2	MCCSBMNC	MIN # USERS TO ADJUST SIG USER THRESHOLD
230	(E6) SIGNED	2	MCCSBSGP	TARG PERCENT OF SIG USERS
232	(E8) SIGNED	2	MCCSBINP	PERCENT TO INCREASE SIG USER THRSHOLD
234	(EA) SIGNED	2	MCCSBDEP	PERCENT TO DECREASE SIG USER THRSHOLD
236	(EC) ADDRESS	4	MCCASCB	ASCB PTR FOR PR5 TO UPDATE OUXBFMCT
240	(F0) ADDRESS	4	MCCMS104	SQA NO LONGER EXPANDED MESSAGE ADDRESS
				THE FOLLOWING TWO FIELDS ARE USED TO INITIALIZE THE PVT THRESHOLDS THAT CONTROL PAGE REPLACEMENT. THEY ARE ALSO USED TO CONTROL SWAP IN FAIL PROCESSING
244	(F4) UNSIGNED	4	MCCAVQTH	AVAIL FRAME LOW THRESHOLD
244	(F4) SIGNED	2	MCCAFCLO	AVAIL FRAME QUEUE LOW THRESHOLD
246	(F6) SIGNED	2	MCCAFCOK	AVAIL FRAME QUEUE OK THRESHOLD
248	(F8) SIGNED	4	MCCUICTH	MIN TIME BEFORE UIC UPDATING
252	(FC) SIGNED	4	MCCFXTM1	FIXED FRAME SHORTAGE TIME THRESHOLD
256	(100) SIGNED	4	MCCFXTM2	FIXED FRAME SHORTAGE TIME THRESHOLD
260	(104) SIGNED	2	MCCDEFFX	DEFER FIX THRESHOLD
				EXTENDED REAL CONSTANTS
262	(106) SIGNED	2	MCCFXTPR	% LOGICAL STORAGE THRESHOLD

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
264 (108)	SIGNED	2	MCCFXEPR	% PHYSICAL STORAGE THRESHOLD
266 (10A)	SIGNED	2	MCCSBFTH	% LOAD BALANCE IMBALANCE THRESHOLD
268 (10C)	SIGNED	2	MCCMEDUP	MEDIAN FIXED FRAME COUNT ADJUSTMENT UP
270 (10E)	SIGNED	2	MCCMEDDN	MEDIAN FIXED FRAME COUNT ADJUSTMENT DOWN
272 (110)	SIGNED	2	MCCSPINT	TIME FOR DISABLED SPIN
274 (112)	SIGNED	2	MCCFFCMP	FIXED FRAME COUNT MULTIPLIER FOR AVQ4 PROCESSING
276 (114)	SIGNED	4	MCCMAXFX	LOGICAL SHORTAGE THRESHOLD COUNT
280 (118)	SIGNED	4	MCCLGCRI	CRITICAL SHORTAGE THRESHOLD COUNT
284 (11C)	SIGNED	4	MCCPHCRI	PHYSICAL CRITICAL SHORTAGE THRESHOLD COUNT
288 (120)	SIGNED	4	MCCLGFOK	LOGICAL OK THRESHOLD
292 (124)	SIGNED	4	MCCPHFOK	PHYSICAL OK THRESHOLD
EXTENDED REAL VARIABLES				
296 (128)	SIGNED	4	MCVSBFXC	FIX CNT ACCUMULATOR
300 (12C)	SIGNED	2	MCVSBFXA	AVE FIX % BELOW 16MEG
302 (12E)	SIGNED	2	MCVSBLTF	LONG TERM FIX %
304 (130)	SIGNED	2	MCVMEDFC	MEDIAN FIX FRAME COUNT READY USERS
306 (132)	SIGNED	2	MCVMFCTI	MEDIAN FIX FRAME COUNT TSO IWAITS
308 (134)	SIGNED	4	MCVCAPWS	CAP WORKAREA WORKING SET SIZE ACCUMULATOR
312 (138)	SIGNED	2	MCCCPUHI	CPU THRES SIGP ON
314 (13A)	SIGNED	2	MCCCPULO	CPU THRES SIGP OFF

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
316 (13C)	UNSIGNED	2	MCCMS6L	MS6 INTERVAL LOWER LIMIT
318 (13E)	UNSIGNED	2		RESERVED
320 (140)	SIGNED	4		RESERVED
324 (144)	UNSIGNED	4		RESERVED
328 (148)	CHARACTER	0	MCTEND	END OF MCT

CROSS REFERENCE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
MCCAFCLO	F4		MCCPHFOK	124		MCTEND	148	
MCCAFCOK	F6		MCCPLUS	38		MCTFAVQ	A7	80
MCCASCB	EC		MCCPR1IN	B4		MCTFXMPL	A6	08
MCCASMT1	64		MCCSBAF1	42		MCTFX1	A5	02
MCCASMT2	66		MCCSBAF2	44		MCTFX2	A5	01
MCCAVQTH	F4		MCCSBATH	4A		MCTLGAVQ	A6	02
MCCCPUHI	138		MCCSBATL	4C		MCTLGPSS	A7	40
MCCCPULO	13A		MCCSBDEP	EA		MCTMCT	0	
MCCDEFFX	104		MCCSBETH	60		MCTOFLGS	A5	
MCCEND	68		MCCSBFCF	50		MCTOFLG1	A6	
MCCFFCMP	112		MCCSBFTH	10A		MCTPHPSS	A7	20
MCCFXEPR	108		MCCSBINP	E8		MCTPVTI	A7	10
MCCFXTM1	FC		MCCSBMIN	58		MCTSBACT	A6	80
MCCFXTM2	100		MCCSBMNC	E4		MCTSBOOB	A6	40
MCCFXTPR	106		MCCSBMNR	54		MCTSCBT	A6	01
MCCFXUIC	B0		MCCSBMSW	5C		MCTSFLGS	A4	
MCCINTB	BD		MCCSBMXF	E0		MCTSF05	A4	1F
MCCINTMX	B8		MCCSBMXR	52		MCTSMS1	A5	08
MCCLGCRI	118		MCCSBRND	E2		MCTSMS2	A5	04
MCCLGFOK	120		MCCSBSCF	4E		MCTSQAE	A6	10
MCCMAXFX	114		MCCSBSGP	E6		MCTSQA1	A4	80
MCCMEDDN	10E		MCCSBSIG	40		MCTSQA2	A4	40
MCCMEDUP	10C		MCCSBSTH	46		MCTSQDC	A6	04
MCCMS100	4		MCCSBSTL	48		MCTUICCA	A6	20
MCCMS101	8		MCCSIETH	DC		MCTUICXF	A5	20
MCCMS102	C		MCCSIGRS	56		MCVAVQC	84	
MCCMS103	A8		MCCSIPRT	3E		MCVCAPWS	134	
MCCMS104	F0		MCCSIWDI	DA		MCVCURCT	D0	
MCCMS200	10		MCCSIWDL	D8		MCVDFPGC	3C	
MCCMS201	14		MCCSPINT	110		MCVFMCT	7E	
MCCMS202	18		MCCSTLCT	3A		MCVFRCNT	82	
MCCMS203	1C		MCCUICBD	AC		MCVINC	CC	
MCCMS400	20		MCCUICTH	F8		MCVMAXCT	D4	
MCCMS401	24		MCT	0		MCVMEDFC	130	
MCCMS402	28		MCTAMS2	A5	10	MCVMFCTI	132	
MCCMS403	2C		MCTASM1	A5	80	MCVPVTRI	B2	
MCCMS500	30		MCTASM2	A5	40	MCVSBBT	94	
MCCMS501	34		MCTAVQ1	A4	20	MCVSBCTR	88	
MCCMS6L	13C		MCTCFLGS	A7		MCVSBFQA	8E	
MCCPHCRI	11C		MCTCF04	A7	0F	MCVSBFQC	9C	

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
MCVSBFXA	12C		MCVSIBP	74		MCVSIPR	7C	
MCVSBFXC	128		MCVSIBT	78		MCVSIR4	68	0F
MCVSBIMT	A0		MCVSICM	68	40	MCVSIR8	69	
MCVSBLTF	12E		MCVSIFLG	68		MCVSIWH	6E	
MCVSBLTS	8C		MCVSIPG	68	80	MCVSIWL	6C	
MCVSBRVF	90		MCVSIPH	72		MCVSIWS	68	20
MCVSBSCA	8A		MCVSIPI	68	10	MCVSTCRI	80	
MCVSBSCC	98		MCVSIPL	70		MCVTWSS	6A	
MCVSBSIG	92							

MMB

Common Name : Monitor Message Block
Macro ID : IEAMMB
DSECT Name : MMB
Created by : IEAVMWSV
Subpool and Key : 250 and key 0
Size : 144 bytes
Pointed to by : UCMMBPTR field of the UCM data area (first MMB)
UCMMBEND field of the UCM data area (last MMB)
Serialization : None
Function : A monitor message block is created for each WQE queued for TPUT to monitoring terminals.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	MMB	
0	(0) CHARACTER	4	MMBNAME	BLOCK ID MMB IN EBCDIC LEFT JUSTIFIED
4	(4) ADDRESS	4	MMBLINK	POINTER TO NEXT MMB OR ZERO
8	(8) ADDRESS	4	MMBBKPTR	POINTER TO PREVIOUS MMB OR ZERO
12	(C) SIGNED	2	MMBTXLN	LENGTH OF TEXT
14	(E) SIGNED	2	MMBTYPE	MONITOR TYPE FLAGS
14	(E) BITSTRING	1	MMBTYPE1	FIRST BYTE OF MONITOR TYPE FLAGS
	1...		MMBJBNM	"BIT0"- MONITOR JOBNAMES
	.1..		MMBSTAT	"BIT1"- MONITOR STATUS
	..1.		MMBRSV01	"BIT2"- RESERVED
	...1		MMBRSV02	"BIT3"- RESERVED
	.... 1...		MMBRSV03	"BIT4"- RESERVED
	.... .1..		MMBSESS	"BIT5"- MONITOR SESSIONS
	.... ..1.		MMBRSV04	"BIT6"- RESERVED
	1		MMBRSV05	"BIT7"- RESERVED
15	(F) BITSTRING	1	MMBTYPE2	SECOND BYTE OF MONITOR TYPE FLAGS
16	(10) CHARACTER	128	MMBTEXT	MESSAGE TEXT
	1..1		MMBSIZE	"*-MMB" LENGTH OF MMB

MPFT

Common Name : Message Processing Facility Table (MPFT) Mapping Macro
Macro ID : IEEZB809
DSECT Name : MPFT, MPFTENTY
Created by : IEECB805
Subpool and Key : Subpool 241 (CSA)
Size : Table header - 20 bytes; each table entry - 10 bytes
Pointed to by : UCMFMPFP field of the IEECUCM data area
Serialization : None
Function : Maps the MPF table; the MPF table contains a sorted list of message ID's and/or prefixes that are eligible for suppression by MPF.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	20	MPFT	MPF TABLE
0	(0) CHARACTER	4	MPFTMPFT	CHARACTERS 'MPFT'
4	(4) UNSIGNED	1	MPFTSPN	SUBPOOL NUMBER
5	(5) UNSIGNED	3	MPFTSIZE	SIZE OF MPF TABLE
8	(8) UNSIGNED	2	MPFTNENT	NUMBER OF ENTRIES IN TABLE
10	(A) CHARACTER	2	MPFTSUFX	PARMLIB SUFFIX
12	(C) ADDRESS	4	MPFTENTP	POINTER TO THE FIRST ENTRY
16	(10) UNSIGNED	2	MPFTENLN	LENGTH OF EACH ENTRY
18	(12) CHARACTER	2	MPFTRSVD	RESERVED
0	(0) STRUCTURE	10	MPFTENTY	MPF TABLE ENTRY MAPPING
0	(0) CHARACTER	8	MPFMSGID	MESSAGE ID
8	(8) UNSIGNED	1	MPFTIDLN	LENGTH OF MESSAGE ID
9	(9) BITSTRING	1	MPFTEFLG	ENTRY FLAGS
	1...		MPFTPREF	PREFIX ENTRY
	.111 1111			RESERVED

MPL

Common Name : MVS Microcode Parameter List
Macro ID : IHAMPL
DSECT Name : MPL
Created by : IEAVBK00 SYSGEN INIT by NIP0
Subpool and Key : Nucleus
Size : 72 bytes
Pointed to by : PSAMPL field of the PSA data area
Serialization : None
Function : Used as a Hardware assist parameter list for 370 Extended Feature/Facility.
NOTE:
In microfiche, the common name for IHAMPL is MAPL (MVS Microcode Assist Parameter List). MPL in microfiche is used for the IEZMPL macro.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	72	MPL	MVS-ASSIST PARM LIST, MACDATE(9/4/80)
0	(0) ADDRESS	4	MPLSVCTA	SVCTABLE ADDRESS
	1...		MPLSVCAX	IF ON, XM MICROCODE IS PRESENT FOR SVCA
4	(4) SIGNED	4	MPLSVRBP	LNGTH SVRB PREFIX-BYTES
8	(8) ADDRESS	4	MPLESVC1	TYPE 1 SVC ENTRY ADDR
12	(C) ADDRESS	4	MPLRSVC1	TYPE 1 SVC EXIT ADDR
16	(10) ADDRESS	4	MPLESVC2	TYPE 2 SVC ENTRY ADDR
20	(14) ADDRESS	4	MPLRSVC2	TYPE 2 SVC EXIT ADDR
24	(18) ADDRESS	4	MPLESVC6	TYPE 6 SVC ENTRY ADDR
28	(1C) ADDRESS	4	MPLRSVC6	TYPE 6 SVC EXIT ADDR
32	(20) SIGNED	2	MPLLCSA	VBN OF 1ST PAGE OF CSA
34	(22) SIGNED	2	MPLLPRIV	VBN OF 1ST PAGE USER

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
36	(24) ADDRESS	4	MPLPFTP	APPARENT ORGIN OF PFT
	1...		MPLXMFIX	IF ON, MPLASVTP HAS BEEN SET
40	(28) SIGNED	2	MPLRSVD1	RESERVED FOR FUTURE USE
42	(2A) SIGNED	2	MPLMAXFX	FIXED FRAME THRESHOLD
44	(2C) ADDRESS	4	MPLCNTRS	ADDRESS OF PVT COUNTERS
48	(30) SIGNED	4	MPLRSVD2	RESERVED FOR FUTURE USE
52	(34) ADDRESS	4	MPLPFAL	ADDRESS OF PREFER RTN
56	(38) ADDRESS	4	MPLPFCM	FIX SYSEVENT RTN ADDR
60	(3C) ADDRESS	4	MPLRSVD3	RESERVED FOR FUTURE USE
64	(40) ADDRESS	4	MPLASVTP	VIRTUAL ADDRESS OF FIRST ENTRY IN THE ASVT MINUS 4
68	(44) ADDRESS	4	MPLRSVD4	RESERVED
72	(48) CHARACTER	0	MPLEND	END OF MPL

MRB

Common Name : Message Request Block
Macro ID : ISGMRB
DSECT Name : None
Created by : All callers of ISGMSG00, ISGGDEQP, ISGGFRR0
Subpool and Key : 229 and key 0
Size : 88 bytes
Pointed to by : GVT - GVTCMDRQ, GVTCMDWQ, GVTCMDCQ;
CRB - CRBNCRB, CRBPCRB;
MRB - MRBNMRB, MRBPMRB, MRBRMRB
Serialization : None
Function : The Message Request Block is used to contain information required to process message requests. Both an information message and a reply message can be requested in one message request block. A series of informational messages can be requested by chaining several message request blocks together via the related message request block field (MRBRMRB).

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	88	MRB	MESSAGE REQUEST BLOCK
0	(0) CHARACTER	20	MRBHDR	MRB HEADER THIS STRUCTURE IS THE SAME FOR ALL CONTROL BLOCKS THAT RESIDE ON THE GRS COMMAND REQUEST QUEUE
0	(0) ADDRESS	4	MRBNMRB	ADDRESS OF NEXT CRB/MRB WHEN THE MRB IS ON THE COMMAND REQUEST QUEUE OR ON THE COMMAND WORK QUEUE
4	(4) ADDRESS	4	MRBPMRB	ADDRESS OF PREVIOUS CRB/MRB WHEN THE MRB IS ON THE COMMAND WORK QUEUE
8	(8) UNSIGNED	1	MRBRTYPE	MRB REQUEST TYPE
9	(9) BITSTRING	1	MRBSTFLG	MRB STATUS FLAGS
	1...		MRBRQCMP	REQUEST COMPLETE FLAG WHEN 1, MESSAGE REQUEST HAS BEEN PROCESSED

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	.111			RESERVED
	.... 1...		MRBQUECK	QUEUE CHECK FLAG WHEN 1, THIS CONTROL BLOCK HAS ALREADY BEEN PROCESSED BY A QUEUE VERIFY ROUTINE (USED TO DETERMINE WHETHER THE QUEUE ON WHICH THIS CONTROL BLOCK RESIDES IS OKAY)
	.... .111			RESERVED
10	(A) UNSIGNED	2	MRBARSZ	SIZE OF THE AREA ACQUIRED BY ISGCMDR TO CONTAIN THE CEPL AND CRWA
12	(C) ADDRESS	4	MRBCEPL	ADDRESS OF A COMMAND ESTAE PARAMETER LIST
16	(10) ADDRESS	4	MRBRPTCB	ADDRESS OF THE TCB UNDER WHICH THE REQUEST PROCESSOR IS EXECUTING
20	(14) CHARACTER	4		RESERVED
24	(18) ADDRESS	4	MRBRMRB	ADDRESS OF NEXT RELATED MRB
28	(1C) SIGNED	4	MRBMSGID	INPUT MESSAGE IDENTIFICATION NUMBER OF A PREVIOUSLY ISSUED INFORMATIONAL MESSAGE TO BE DELETED, OUPUT MESSAGE IDENTIFICATION NUMBER OF THE INFORMATIONAL MESSAGE WRITTEN TO THE OPERATOR
32	(20) UNSIGNED	2	MRBIMSID	INFORMATIONAL MESSAGE ID OF THE MESSAGE TO BE WRITTEN TO THE OPERATOR
34	(22) UNSIGNED	1	MRBIMOPT	INFORMATIONAL MESSAGE OPTION INDICATES WHICH OPTION OF THE INFORMATIONAL MESSAGE IS TO BE BUILT (VALID ONLY FOR THOSE MESSAGE REQUESTS SUPPLYING AN INFORMATIONAL MESSAGE ID)
35	(23) CHARACTER	1	MRBICNID	CONSOLE ID OF THE CONSOLE TO WHICH THE INFORMATIONAL/REPLY MESSAGE IS TO BE ISSUED REQUIRED WHEN THE MESSAGE IS IN RESPONSE TO A COMMAND
36	(24) UNSIGNED	2	MRBRMSID	REPLY MESSAGE ID OF THE MESSAGE TO BE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				WRITTEN TO THE OPERATOR
38	(26) UNSIGNED	1	MRBRMOPT	REPLY MESSAGE OPTION INDICATES WHICH OPTION OF THE REPLY MESSAGE IS TO BE BUILT (VALID ONLY FOR THOSE MESSAGE REQUESTS SUPPLYING A REPLY MESSAGE ID)
39	(27) CHARACTER	1		RESERVED
40	(28) ADDRESS	4	MRBREPAR	ADDRESS OF REPLY AREA USED TO CONTAIN THE RESPONSE FROM THE OPERATOR TO A REPLY MESSAGE (VALID ONLY FOR THOSE MESSAGE REQUESTS SUPPLYING A REPLY MESSAGE ID)
44	(2C) UNSIGNED	1	MRBREPLN	LENGTH OF REPLY AREA (VALID ONLY FOR THOSE MESSAGE REQUESTS SUPPLYING A REPLY MESSAGE ID)
45	(2D) BITSTRING	1	MRBRQFLG	MRB REQUEST FLAG
	1...		MRBSTART	START MESSAGE REQUEST FLAG WHEN 1, THE REQUESTED INITIALIZATION MESSAGE IS BEING ISSUED AS THE RESULT OF A START REQUEST BEING PROCESSED ON THIS SYSTEM
	.1..		MRBJOIN	JOIN MESSAGE REQUEST FLAG WHEN 1, THE REQUESTED INITIALIZATION OR COMMAND MESSAGE IS BEING ISSUED AS THE RESULT OF A JOIN REQUEST BEING PROCESSED ON THIS SYSTEM
	..1.		MRBNONE	NONE MESSAGE REQUEST FLAG WHEN 1, THE REQUESTED INITIALIZATION MESSAGE IS BEING ISSUED AS THE RESULT OF A NONE REQUEST BEING PROCESSED ON THIS SYSTEM
	...1		MRBRSTRQ	RESTART MESSAGE REQUEST FLAG WHEN 1, THE REQUESTED COMMAND MESSAGE IS BEING ISSUED AS THE RESULT OF A RESTART REQUEST BEING PROCESSED ON THIS SYSTEM
	.... 1...		MRBQSCRQ	QUIESCE MESSAGE REQUEST FLAG WHEN 1, THE REQUESTED COMMAND MESSAGE IS BEING ISSUED AS THE RESULT OF A QUIESCE REQUEST BEING PROCESSED ON THIS SYSTEM
	.... .1..		MRBPRGRQ	PURGE MESSAGE REQUEST FLAG WHEN 1, THE REQUESTED COMMAND MESSAGE IS BEING ISSUED AS THE RESULT OF A PURGE REQUEST

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				BEING PROCESSED ON THIS SYSTEM
	11			RESERVED
46	(2E) BITSTRING	1	MRBSPFLG	MRB SPECIAL PROCESSING FLAGS
	1...		MRBORSYS	ORIGINATING SYSTEM FLAG WHEN 1, THE REQUESTED MESSAGE IS BEING ISSUED ON THE SYSTEM ON WHICH THE COMMAND ORIGINATED
	.1..		MRBBDCST	BROADCAST MESSAGE FLAG WHEN 1, THE REQUESTED MESSAGE IS TO BE ROUTED TO THE MASTER CONSOLE AS SYSTEM STATUS INFORMATION (NOTE THAT THE REQUESTED MESSAGE IS BEING ISSUED ON THIS SYSTEM AS THE RESULT OF SOME ACTION THAT OCCURRED ON ANOTHER SYSTEM IN THE GRS COMPLEX)
	..11 1111			RESERVED
47	(2F) BITSTRING	1	MRBCNFLG	MRB CONTENT FLAGS
	1...		MRBSYSNM	SYSTEM NAME FLAG WHEN 1, SYSTEM NAMES (MRBSYNM1 OR MRBSYNM2) EXIST IN THE MRB FOR MESSAGE TEXT PROCESSING
	.1..		MRBRESNM	RESOURCE NAME FLAG WHEN 1, A RESOURCE NAME (MRBQNAME AND MRBRNAME) EXISTS IN THE MRB FOR MESSAGE TEXT PROCESSING
	..1.		MRBTSKNM	TASK NAME FLAG WHEN 1, A TASK NAME (MRBJOBNM AND MRBSTPNM) EXISTS IN THE MRB FOR MESSAGE TEXT PROCESSING
	...1 1111			RESERVED
48	(30) CHARACTER	8	MRBSYNM1	FIRST SYSTEM NAME FOR MESSAGE TEXT (VALID WHEN MRBSYSNM = '1'B)
56	(38) CHARACTER	8	MRBQNAME	QNAME FOR MESSAGE TEXT (VALID WHEN MRBRESNM = '1'B)
56	(38) CHARACTER	8	MRBJOBNM	JOBNAME FOR MESSAGE TEXT (VALID WHEN MRBTSKNM = '1'B)
56	(38) CHARACTER	8	MRBSYNM2	SECOND SYSTEM NAME FOR MESSAGE TEXT (VALID WHEN MRBSYSNM = '1'B)
64	(40) CHARACTER	24	MRBRNAME	RNAME FOR MESSAGE TEXT (VALID WHEN MRBRESNM = '1'B)

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
64	(40) CHARACTER	8	MRBSTPNM	STEPNAME FOR MESSAGE TEXT (VALID WHEN MRBTSKNM = '1'B)
72	(48) UNSIGNED	1	MRBFCODE	FUNCTION CODE FOR MESSAGE TEXT
73	(49) UNSIGNED	1	MRBRCODE	REASON CODE FOR MESSAGE TEXT
74	(4A) UNSIGNED	1	MRBECODE	ERROR CODE FOR MESSAGE TEXT
75	(4B) CHARACTER	1		RESERVED
76	(4C) CHARACTER	2	MRBSUFNO	SUFFIX NUMBER FOR MESSAGE TEXT (EBCDIC)
78	(4E) UNSIGNED	2	MRBRECNO	RECORD NUMBER FOR MESSAGE TEXT
80	(50) CHARACTER	1		RESERVED
81	(51) CHARACTER	3	MRBCMPCD	TASK COMPLETION CODE FOR MESSAGE TEXT SYSTEM COMPLETION CODE IN FIRST 12 BITS, USER COMPLETION CODE IN LAST 12 BITS
84	(54) CHARACTER	1		RESERVED
85	(55) CHARACTER	3	MRBCTCDA	CTC DEVICE ADDRESS FOR MESSAGE TEXT (EBCDIC)
88	(58) CHARACTER	0	MRBEND	END OF MRB

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