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Program Product

**MVS/Extended Architecture
Debugging Handbook
Volume 4
Data Areas J - Q**

MVS/System Product:

JES3 Version 2	5665-291
JES2 Version 2	5740-XC6

IBM

Sixth Edition (June, 1987)

This is a major revision of LC28-1167-4. See the Summary of Amendments following the Contents for a summary of the changes made to this manual.

This edition applies to Version 2 Release 2.0 of MVS/System Product 5740-XC6 and 5665-291 and to all subsequent releases until otherwise indicated in new editions or Technical Newsletters. The previous edition still applies to Version 2 Release 1.7 of MVS/System Product 5740-XC6 and 5665-291 and may now be ordered using the temporary order number LT00-2055. 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/Extended Architecture functions and logic. It is intended for system programmers who are involved with debugging MVS system problems.

The handbook has been divided into six volumes:

VOLUME 1 (LC28-1164)

- 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 Extended Architecture debugging aids.
- CHAPTER 3. DUMP AND TRACE FORMATS describes the output of debugging aids summarized in Chapter 2.
- CHAPTER 4. SENSE BYTES summarizes UCB sense bytes.
- 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 (LC28-1165)

- DATA AREAS A-DD Describes the format of the data areas, and includes data areas frequently used in debugging.

VOLUME 3 (LC28-1166)

- DATA AREAS DE-I Describes the format of the data areas, and includes data areas frequently used in debugging.

VOLUME 4 (LC28-1167)

- DATA AREAS J-Q Describes the format of the data areas, and includes data areas frequently used in debugging.

VOLUME 5 (LC28-1168)

- DATA AREAS R-S Describes the format of the data areas, and includes data areas frequently used in debugging.

VOLUME 6 (LC28-1169)

- DATA AREAS T-Z Describes the format of the data areas, and includes data areas frequently used in debugging.

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JSCB	JSCB-1	NSSA	NSSA-1
LCCA	LCCA-1	NUCMP	NUCMP-1
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LLT	LLT-1	PARS	PARS-1
LOGR	LOGR-1	PART	PART-1
LPAL	LPAL-1	PAT	PAT-1
LPAT	LPAT-1	PCB	PCB-1
LPBT	LPBT-1	PCCA	PCCA-1
LPDE	LPDE-1	PCCAVT	PCCAVT-1
LRB	LRB-1	PCCB	PCCB-1
LRPL	LRPL-1	PCCW	PCCW-1
LXAT	LXAT-1	PCP	PCP-1
MCT	MCT-1	PCRA	PCRA-1
MIR	MIR-1	PCT	PCT-1
MLF	MLF-1	PDS	PDS-1
MLT	MLT-1	PDS2	PDS2-1
MMB	MMB-1	PEL	PEL-1
MPE	MPE-1		

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PEXB	PEXB-1	PSSD	PSSD-1
PFK	PFK-1	PVT	PVT-1
PFTE	PFTE-1	PXT	PXT-1
PGTE	PGTE-1	QCB	QCB-1
PICA	PICA-1	QDB	QDB-1
PIE	PIE-1	QEL	QEL-1
PPD	PPD-1	QFPL	QFPL-1
PPL	PPL-1	QFPL1	QFPL1-1
PQCB	PQCB-1	QHT	QHT-1
PRMESTAE	PRMESTA-1	QIO	QIO-1
PRQE	PRQE-1	QMPA	QMPA-1
PRQH	PRQH-1	QPL	QPL-1
PSA	PSA-1	QWA	QWA-1
PSCB	PSCB-1	QWB	QWB-1
PSL	PSL-1	QXB	QXB-1

SUMMARY OF AMENDMENTS

SUMMARY OF AMENDMENTS
FOR LC28-1167-5
MVS/SYSTEM PRODUCT VERSION 2 RELEASE 2.0

This major revision contains changes to support MVS System Product 2.2.0.

The new data areas are:

LOGR	MQE	NSSA
LPAL	MQH	PCP
LRPL	NEL	PFK
MLF	NLLE	QMPA
MLT	NMSG	

The changed data areas are:

JCT	NVT	PQCB
JESCT	ORE	PSA
LCT	OUCB	PVT
LDA	OUSB	QCB
MPE	OUXB	QEL
MQE	PART	QMPA
MQH	PCB	QPL
NEL	PEXB	QXB
NSSA		

NOTE: The following summary of amendments applied to an edition of this book that included data areas N-R.

SUMMARY OF AMENDMENTS
FOR LC28-1167-4
MVS/SYSTEM PRODUCT VERSION 2 RELEASE 1.7

This major revision contains changes to support MVS System Product 2.1.7.

The new or changed data areas are:

OUCB	RMCA	RMCT
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Data areas changed to support the Vector Facility Enhancement are:

PSA	RTM2WA	RTZ
-----	--------	-----

Data areas changed to support the Availability Enhancement are:

OUCB	PSSD
PPL	RCRD
PRQE	RMPT
PRQH	RSED

INTRODUCTION

In this publication, data areas are sequenced alphanumerically by data area acronym. Each data area has a data area description. Data area descriptions can have up to three parts: a header, a mapping, and, if the mapping is long enough, a cross-reference table.

THE HEADER

The header includes the following items:

COMMON NAME	The descriptive name of the data area.
MACRO ID	The name of the mapping macro for the data area. Mapping macros can be used in programs to generate a copy of the data area.
DSECT NAME	Name of the DSECT (dummy control section) created by the mapping macro.
CREATED BY	Module, macro, or component whose use creates the data area.
SUBPOOL AND KEY	Subpool is the area of virtual storage that contains the data area. Key is the storage protect key for the storage represented by the data area.
SIZE	Size of the data area in bytes (decimal).
POINTED TO BY	Registers or data area fields that contain the address of the data area.
SERIALIZATION	Method used to ensure that one user does not update a data area that is being updated or used by another user. The most common methods used are: <ul style="list-style-type: none">• Using a lock or locks.• Using ENQ/DEQ.• Using the compare and swap instruction (CS instruction).• Using disablement (which is disabling interruptions by setting bits in the PSW of the program using the data area).
FUNCTION	Brief description of what the data area is used for.

THE MAPPING OF THE DATA AREA

The data area is described field by field. These field descriptions are taken directly from the system code.

For each field in the data area, the table provides the following information:

OFFSETS The address of the field, shown in both decimal and hexadecimal (hexadecimal in parentheses), relative to the beginning of the data area.

TYPE The kind of program data defined for this field, as follows:

TYPE	DESCRIPTION
A-ADDRESS	A-type address constant
BAL STMT	Instruction
BITSTRING	Bitstring constant
CHARACTER	Character value
FLOATING	Floating-point binary value
HEX	Hexadecimal value
OFFSET	Q-type address constant
PACKED	Packed decimal value
S-ADDRESS	S-type address constant
SIGNED	Arithmetic signed value
STRUCTURE	Level 1 control block name
UNSIGNED	Unsigned value
V-ADDRESS	V-type address constant
Y-ADDRESS	Y-type address constant
ZONED	Zoned decimal value

LENGTH Size of the field in bytes (decimal)

NAME The name of the field, bit, or mask.

Bit or mask names are preceded by a description of bit position and value, as follows:

1...	Refers to bit 0.
.... ..11	Refers to bits 6 and 7.
...1	Refers to bit 3.
11.. 1111	Refers to bits 0, 1, 4, 5, 6, and 7.

NOTE ON LEVELS OF FIELDS IN DATA STRUCTURES:

For many data areas, field names are indented within the NAME column. The amount by which field names are indented indicates the level of DECLARATION of the field in its data structure, as shown in the following:

NAME	DESCRIPTION
FIELD1	LEVEL 1 DECLARATION
FIELD2	LEVEL 2 DECLARATION
FIELD3	LEVEL 2 DECLARATION
FIELD3A	LEVEL 3 DECLARATION
FIELD3B	LEVEL 3 DECLARATION
FIELD4	LEVEL 2 DECLARATION

DESCRIPTION A description of the purpose or meaning of the field, bit, or mask.

THE CROSS-REFERENCE TABLE

For each data area with more than 25 fields, a cross-reference table shows the following:

- **Hex Offset:** The hexadecimal offset of the field into the data area (for bits, the hexadecimal offset of the field containing the bit).
- **Hex Value:** Hex values are shown only for bits. The Hex Value shown implies the position of the bit in the field containing the bit. For an example illustrating how to use the Hex Value, see bit TCBACTIV in the TCB data area.

In the TCB data area, the cross-reference table for the TCBACTIV bit looks like this:

<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>
TCBACTIV	F0	80

In the mapping of the TCB, the TCBACTIV bit appears like this:

240	(F0)	FIXED	4	TCBX SCT	DISPATCHER INTERSECT CONTROL WORD
240	(F0)	BITSTRING	1	TCBX SCT1	FLAG BYTE (MDC323)
		1... ..		TCBACTIV	"X'80'" BIT ON MEANS THIS TCB . . .

Hex Offset F0 is the offset of field TCBX SCT, a 4-byte field, which contains a 1-byte field named TCBX SCT1. Both TCBX SCT and TCBX SCT1 have the same offset. The first bit in both fields is named TCBACTIV. Ignoring the other bits in the field TCBX SCT1, if the TCBACTIV bit is on, the value of field TCBX SCT1 would be 1000 0000, which is equivalent to hex 80. This value (hex 80) is shown both in the DESCRIPTION in the mapping of the data area and in the Hex Value column of the cross-reference table.

JCT

COMMON NAME: Job Control Table
 MACRO ID: IEFAJCTB
 DSECT NAME: INJMJCT
 CREATED BY: The interpreter (module IEFVJA)
 SUBPOOL AND KEY: 236 or 237 and Key 1
 SIZE: 352 bytes - 176 for IEFAJCTB
 POINTED TO BY: LCTJCTAD field of the LCT data area
 NELJCT field of the NEL data area
 JSCBJCT field of the JSCT 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					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	176	INJMJCT	NAME OF TABLE
0	(0)	ADDRESS	3	JCTDSKAD	SVA 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 Y02670
		..1.		JCTJSTPC	STEP CANCELLED BY CONDITION CODES
		...1		*	RESERVED Y02670
		.... 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.		INCMGL2	JCL MSGLEVEL=2
		...1		INCMGL1	JCL MSGLEVEL=1
		.... 1111		JCTJPRTY	JOB PRIORITY
8	(8)	CHARACTER	8	JCTJNAME	JOBNAME
16	(10)	CHARACTER	8	JCTJPTN	T/P TERMINAL NAME
24	(18)	ADDRESS	3	JCTPDIP	PDI CORE POINTER Y02670
27	(1B)	CHARACTER	1	*	RESERVED FOR FUTURE USE
28	(1C)	ADDRESS	3	JCTGDGNT	GDG NAME TABLE Y02670
31	(1F)	CHARACTER	1	JCTJCSMF	JOB CLASS SPECS FOR SMF TERMINATION ROUTINES Y02668
32	(20)	ADDRESS	3	JCTSDKAD	SVA OF FIRST SCT
35	(23)	CHARACTER	1	*	RESERVED FOR FUTURE USE
36	(24)	ADDRESS	3	JCTJCTX	SVA OF JCTX
39	(27)	CHARACTER	1	*	RESERVED FOR FUTURE USE
40	(28)	ADDRESS	3	JCTACTAD	SVA OF FIRST ACT
43	(2B)	CHARACTER	1	*	RESERVED FOR FUTURE USE
44	(2C)	CHARACTER	8	JCTSMRBA	RBA OF SYSTEM MSG DS Y02641
52	(34)	CHARACTER	1	JCTSCT	STEP # OF FAILING STEP Y02641
53	(35)	CHARACTER	1	*	RESERVED
54	(36)	CHARACTER	4	JCTCCODE (8)	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 Y02641
		...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
87	(57)	BITSTRING	1	JCTRSW2	CHECKPOINT/RESTART SWITCHES
		1... ..		JCTSYSCK	SYSCHK DD STMT PRESENT

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
		.1..		JCTNARST	JOB INELIGIBLE FOR AUTO RESTART Y02641
		..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		JCTSDRA	DSDR PROCESSING HAS NOT SUCCESS. ENDED
88	(58)	ADDRESS	3	JCTDETD	SVA OF DSENG 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	JCTSNMB	NUMBER OF STEPS RUN
96	(60)	ADDRESS	3	JCTSTIOT	SVA 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	SVA 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 Y02641
		1111		*	RESERVED Y02641
		.... 1..		JCTJSBIN	JOB ENTERED INTERPRETATION Y02641
		.... ..1.		JCTJSBAL	JOB ENTERED ALLOCATION Y02641
		.... ..1.		JCTJSBEX	JOB ENTERED EXECUTION Y02641
		.... ....1		JCTJSBTM	JOB ENTERED TERMINATION Y02641
112	(70)	ADDRESS	3	JCTSSTR	SVA OF SCT FOR 1ST STEP
115	(73)	CHARACTER	1	*	RESERVED FOR FUTURE USE
116	(74)	BITSTRING	1	JCTSTAT2	A25134
		1...		JCTSPSYS	SPOOLED SYSIN FOR JOB A25134
		..1.		JCTADSPC	ADDRSPC=REAL FOR JOB Y01029
		..1.		JCTENDIT	JOB TERM INDICATOR A25134
		.... 1..		JCTPERFM	INDICATES WARM START MESSAGE 'INIT=JOBNAME' IS TO BE SUPPRESSED FOR THIS JOB SET BY IEFVHH TESTED BY IEFSD305 M3144
		.... ..1.		JCTBLP	PERFORM SPECIF'D ON JOB CARD 0 BLP WILL BE TREATED AS NL 1 BLP WILL BE TREATED AS BYPASS LABEL PROCESSING Y02668
		.... ..1.		JCTSISO	SYSIN/SYSOUT SWA BELOW THE LINE INDICATOR
		.... ....1		JCTSNAUP	SWA ABOVE THE LINE INDICATOR
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	SVA 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 Y02652
156	(9C)	CHARACTER	1	*	RESERVED
157	(9D)	CHARACTER	3	JCTSSD	STEP START DATE Y02668
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 Y02670
172	(AC)	ADDRESS	3	JCTVULDP	PTR TO VOL UNLOAD TAB Y02670
175	(AF)	CHARACTER	1	*	RESERVED
0	(0)	STRUCTURE	176	IEFAACTB	
0	(0)	ADDRESS	3	ACTDSKAD	SVA OF THIS ACT
3	(3)	CHARACTER	1	ACTIDENT	ACT ID = 1
4	(4)	ADDRESS	3	ACTNEXT	SVA 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

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JCT

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
32	(20)	CHARACTER	144	ACTACCNT	SPACE FOR VARIABLE FIELDS

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
ACTACCNT	20		JCTDSOJB	57	02	JCTNARST	57	40
ACTDSKAD	0		JCTENDIT	74	20	JCTNOCKP	57	10
ACTIDENT	3		JCTEQREG	5C		JCTNORST	57	20
ACTJNFLD	1F		JCTGDGNT	1C		JCTNRCKP	6C	
ACTJTINE	1C		JCTIDENT	3		JCTNTRK	6B	
ACTNEXT	4		JCTJBLBS	5	80	JCTPDIP	18	
ACTPRGNM	8		JCTJBYTE	7		JCTPERFM	74	08
IEFAACTB	0		JCTJCSMF	1F		JCTPRFMF	A7	
INCMALL	7	80	JCTJCTX	24		JCTQIDNT	5E	
INCMCAT	5	02	JCTJDPCD	36		JCTRESTT	57	08
INCMGL1	7	10	JCTJDPOP	38		JCTRSW1	56	
INCMGL2	7	20	JCTJMGLO	7	80	JCTRSW2	57	
INCMNSET	5	01	JCTJMGPO	6		JCTSCT	34	
INCMSTS	5	04	JCTJMR	86		JCTSDKAD	20	
INDMCTLG	5	02	JCTJMRL	8B		JCTSISO	74	02
INJMCT	0		JCTJMRD	89		JCTSMRBA	2C	
JCTABEND	5	08	JCTJMRJD	95		JCTSNUMB	5F	
JCTACODE	A8		JCTJMRJT	92		JCTSPSYS	74	80
JCTACTAD	28		JCTJMROP	8A		JCTSRBT	98	
JCTADSPC	74	40	JCTJMRSS	8F		JCTSSD	9D	
JCTBLP	74	04	JCTJMRTL	8C		JCTSSTR	70	
JCTCCODE	36		JCTJNAME	8		JCTSTAT2	74	
JCTCKFT	56	10	JCTJPRTY	7	08	JCTSTEPR	56	04
JCTCKIDL	75		JCTJSB	6F		JCTSTERM	56	40
JCTCKIDT	76		JCTJSBAL	6F	04	JCTSTIOT	60	
JCTCKPTR	56	08	JCTJSBEX	6F	02	JCTSWAUP	74	01
JCTCKTTR	68		JCTJSBIN	6F	08	JCTSWSM	74	10
JCTCONTR	56	20	JCTJSBTM	6F	01	JCTSYSCK	57	80
JCTDETA	58		JCTJSRNO	4		JCTUSER	A0	
JCTDEVT	64		JCTJSTAT	5		JCTVOLSQ	6E	
JCTDSORA	57	01	JCTJSTPC	5	20	JCTVULDP	AC	
JCTDSKAD	0		JCTJTPTN	10		JCTWARMS	56	80
JCTDSOCR	57	04						

JCTX

COMMON NAME: JCT 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 data area
SERIALIZATION: None
FUNCTION: Contains job status information in addition to that contained in the JCT.

OFFSETS					
DEC	HEX	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	JCTXSNB	SCHEDULER WORK BLOCK (SWB) STRUCTURE POINTER
24	(18)	CHARACTER	1	JCTXRSV1	RESERVED
25	(19)	CHARACTER	3	JCTXRGSZ	REGION STORAGE SIZE IN K BYTES
28	(1C)	CHARACTER	24	JCTXTIME	TIMING FIELDS
28	(1C)	SIGNED	4	JCTXTCTT	JOB TCB CP TOTAL TIME
32	(20)	SIGNED	4	JCTXTATT	JOB TCB UNNORMALIZED AXP TIME TIME
36	(24)	SIGNED	4	JCTXSCTT	JOB SRB CP TOTAL TIME
40	(28)	SIGNED	4	JCTXSATT	JOB SRB UNNORMALIZED AXP TOTAL TIME
44	(2C)	SIGNED	4	JCTXVFUT	JOB VF USAGE TIME
48	(30)	SIGNED	4	JCTXVFAT	JOB VF AFFINITY TIME
52	(34)	CHARACTER	124	JCTXRESV	RESERVED FOR FUTURE USE

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
JCTXDSKA	0		JCTXRGSZ	19		JCTXTATT	20	
JCTXGROP	4		JCTXRSV1	18		JCTXTCTT	1C	
JCTXIDNT	3		JCTXSATT	28		JCTXTIME	1C	
JCTXIN	0		JCTXSCTT	24		JCTXVFAT	30	
JCTXJVTN	C		JCTXSMB	14		JCTXVFUT	2C	
JCTXRESV	34							

JESCT

COMMON NAME: JES Control Table
 MACRO ID: IEFJESCT
 DSECT NAME: JESCT and JESPEXT
 CREATED BY: Nucleus portion (JESCT): Created by IEFJESDM
 Pageable extension (JESPEXT): Created by IEFJSINT
 SUBPOOL AND KEY: Nucleus portion (JESCT): Nucleus ant key 0
 Pageable extension (JESPEXT): Subpool 241 and key 0
 SIZE: Nucleus portion (JESCT): 124 bytes
 Pageable extension (JESPEXT): 92 bytes
 POINTED TO BY: Nucleus portion (JESCT): CVTJESCT field of the CVT data area
 Pageable extension (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
DEC	HEX				
0	(0)	STRUCTURE	124	JESCT	
0	(0)	CHARACTER	4	JESCTID	ACRONYM: JEST
4	(4)	ADDRESS	4	JESUNITS	POINTER TO SYSRES UCB
8	(8)	ADDRESS	4	JESWAA	ADDRESS OF SWA MANAGER LOCATE MODE Y02668
12	(C)	ADDRESS	4	JESQMGR	ADDRESS OF SWA MANAGER MOVE MODE Y02668
16	(10)	ADDRESS	4	JESRESQM	ENTRY POINT USED TO INTERFACE BETWEEN THE QMNGRIO MACRO AND THE RESIDENT SWA MANAGER Y02668
20	(14)	ADDRESS	4	JESSSREQ	ADDR. OF THE IEFSSREQ ROUTINE Y02668
24	(18)	ADDRESS	4	JESSSCT	ADDRESS OF THE FIRST SUBSYSTEM COMMUNICATIONS TABLE Y02668
28	(1C)	CHARACTER	4	JESPJESN	NAME OF PRIMARY JOB ENTRY SUBSYSTEM SET AT SYSGEN Y02668
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 & DA UCBS IN THE 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)	BITSTRING	1	JESFLG	FLAG BYTE
		1...		JESJSSNT	IEFJSSNT EXISTS
		.1..		JESRSV13	RESERVED
		..1.		JESRSV14	RESERVED
		...1		JESRSV15	RESERVED
		.... 1..		JESRSV16	RESERVED
		.... .1..		JESRSV17	RESERVED
		.... ..1.		JESRSV18	RESERVED
		.... ...1		JESRSV19	RESERVED
71	(47)	BITSTRING	1	JESJESFG	PRIMARY SUBSYSTEM FLAGS
		1...		JESPSUBA	PRIMARY SUBSYSTEM ACTIVE INDICATOR
		.1..		JESPSUBI	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 COM MANDS. IF JESPSUBA=0 THEN ONLY MVS CONSOLE ALTERING COMMANDS MAY BE USED.
		..1.		JESRSV22	RESERVED
		...1		JESRSV23	RESERVED
		.... 1..		JESRSV24	RESERVED
		.... .1..		JESRSV25	RESERVED
		.... ..1.		JESRSV26	RESERVED
		.... ...1		JESRSV27	RESERVED
72	(48)	ADDRESS	4	JESALLOP	POINTER TO ALLOCATION DESCRIPTOR BLOCK
76	(4C)	SIGNED	2	JESALLOA	ASID OF ALLOCATION ADDRESS SPACE
78	(4E)	BITSTRING	1	JESALLOF	ALLOCATION FUNCTION FLAGS
		1...		JESUASR	UNIT ALLOCATION STATUS RECORDING IS ACTIVE
		.1..		JESUASF	UNIT ALLOCATION STATUS RECORDING HAS FAILED

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
		..1.		JESUPLER	UPL DOES NOT MATCH THE UCBS
		...1		JESALRDY	ALLOCATION READY
		.... 1...		JESV2EDT	EDT VERSION 2 OR LATER INDICATOR
		.... .1..		JESRSV05	RESERVED
		.... ..1.		JESRSV06	RESERVED
		.... ...1		JESRSV07	RESERVED
79	(4F)	BITSTRING	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)	ADDRESS	4	JESUPLP	UCB POINTER LIST ADDRESS
96	(60)	ADDRESS	4	JESMNTP	POINTER TO AN ARRAY OF 'MOUNTABLE' DEVICE TYPES
100	(64)	ADDRESS	4	JESCTEXT	POINTER TO THE PAGEABLE JESCT EXTENSION
104	(68)	ADDRESS	4	JESPPPT	POINTER TO THE PROGRAM PROPERTIES TABLE
108	(6C)	ADDRESS	4	JESRSTR	POINTER TO RESTART CODE TABLE
112	(70)	ADDRESS	4	JESPARSE	POINTER TO THE PARSER ROUTINE
116	(74)	ADDRESS	4	JESXB603	POINTER TO RESTART COMPONENT MESSAGE MODULE (IEFXB603)
120	(78)	ADDRESS	4	JESRSV21	RESERVED FIELD
0	(0)	STRUCTURE	2	JESMNTBL	ARRAY OF MOUNTABLE DEVICE CLASSES THIS ARRAY IS SET UP AND INITIALIZED IN CSA BY IEFAB4IO
0	(0)	SIGNED	2	JES#MNT	NUMBER OF DEV CLASSES IN ARRAY
2	(2)	BITSTRING	1	JESMNTDT (*)	AN INDIVIDUAL DEVICE CLASS
0	(0)	STRUCTURE	92	JESPEXT	PAGEABLE SECTION OF JESCT
0	(0)	CHARACTER	7	JESSID	IDENTIFIER 'JESPEXT'
7	(7)	UNSIGNED	1	JESSVERS	CONTROL BLOCK VERSION NUMBER
8	(8)	ADDRESS	4	JESSJCNL	ADDRESS OF SCHEDULER JCL FACILITY ROUTER ROUTINE
12	(C)	ADDRESS	4	JESSJDVT	ADDRESS OF JCL DEFINITION VECTOR TABLE CHAIN
16	(10)	ADDRESS	4	JESSJRNL	ADDRESS OF JOURNAL WRT RTNE
20	(14)	ADDRESS	4	JESDB401	IEFDB401 ENTRY POINT
24	(18)	ADDRESS	4	JESXVNSL	IEFXVNSL ENTRY POINT
28	(1C)	ADDRESS	4	JESGB4DC	IEFGB4DC ENTRY POINT
32	(20)	ADDRESS	4	JESGB4UV	IEFGB4UV ENTRY POINT
36	(24)	ADDRESS	4	JESAB445	IEFAB445 ENTRY POINT
40	(28)	ADDRESS	4	JESGB400	ALLOC PUT INTERFACE ROUTINE
44	(2C)	ADDRESS	4	JESQB551	IEFQB551 ENTRY POINT
48	(30)	ADDRESS	4	JESQB556	IEFQB556 ENTRY POINT
52	(34)	ADDRESS	4	JESXBPUT	JOURNAL PUT/GET INTERFACE ROUTINE
56	(38)	ADDRESS	4	JESIB650	IEFIB650 ENTRY POINT
60	(3C)	ADDRESS	4	JESSJF	ADDRESS OF SCHEDULER JCL FACILITY CONTROL ROUTINE
64	(40)	SIGNED	4	JESTIOTS	SIZE OF TASK I/O TABLE TIOT
68	(44)	SIGNED	4	JESMAXDD	MAXIMUM NUMBER OF SINGLE UNIT DD'S ALLOWED FOR A JOB STEP
72	(48)	ADDRESS	4	JESPMQST	ADDRESS OF THE SWA MANAGER STORAGE TABLE (QMST)
76	(4C)	ADDRESS	4	JESPQDIR	ADDRESS OF THE SWA MANAGER DIAGNOSTICS ROUTINE
80	(50)	ADDRESS	4	JESGDTOK	ADDRESS OF THE ALLOCATION GET DD TOKEN SERVICE
84	(54)	SIGNED	4	JESRSV01	RESERVED
88	(58)	ADDRESS	4	JESQBSVA	ADDRESS OF SPECIALIZED CROSS MEMORY SWA MANAGER SERVICE FOR THE EXCLUSIVE USE OF CAS

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
JES#MNT	0		JESNUCBS	2C		JESRSV19	46	01
JESAB445	24		JESPARSE	70		JESRSV21	78	
JESALLOA	4C		JESPCDP	50		JESRSV22	47	20
JESALLOC	20		JESPEXT	0		JESRSV23	47	10
JESALLOF	4E		JESPJESN	1C		JESRSV24	47	08
JESALLOP	48		JESPPT	68		JESRSV25	47	04
JESALRDY	4E	10	JES PQDIR	4C		JESRSV26	47	02
JESAUCBS	54		JES PQMST	48		JESRSV27	47	01
JESCATL	28		JESPSUBA	47	80	JESSASTA	30	
JESCT	0		JESPSUBI	47	40	JESSID	0	
JESCTEXT	64		JESQBSVA	58		JESSJCNL	8	
JESCTID	0		JESQB551	2C		JESSJDVT	C	
JESDB401	14		JESQB556	30		JESSJF	3C	
JESDUECB	58		JESQMGR	C		JESSJRNL	10	
JESEDT	34		JESREFC	3C		JESSSCT	18	
JESFLG	46		JESRECM	38		JESSSREQ	14	
JESGB4DC	1C		JESRESQM	10		JESSVERS	7	
JESGB4UV	20		JESRSTRT	6C		JESTIOTS	40	
JESGB400	28		JESRSV01	54		JESUASF	4E	40
JESGDTOK	50		JESRSV05	4E	04	JESUASR	4E	80
JESHASH	40		JESRSV06	4E	02	JESUNALC	24	
JESIB650	38		JESRSV07	4E	01	JESUNITS	4	
JESJESFG	47		JESRSV08	4F		JESUPLER	4E	20
JESJSSNT	46	80	JESRSV13	46	40	JESUPLP	5C	
JESMAXDD	44		JESRSV14	46	20	JESV2EDT	4E	08
JESMNTBL	0		JESRSV15	46	10	JESMAA	8	
JESMNTDT	2		JESRSV16	46	08	JESXBPUT	34	
JESMNTP	60		JESRSV17	46	04	JESXB603	74	
JESNRSS	44		JESRSV18	46	02	JESXVNSL	18	

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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 (modules IEFVDA and IEFVEA)
 SUBPOOL AND KEY: SWA (subpool 236 or 237) and key 1
 SIZE: 176 bytes
 POINTED TO BY: SCTPJFCB field of the SCT 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
DEC	HEX				
0	(0)	SIGNED	4 (0)		
		.... ....		INFMJFCB	"*"
0	(0)	CHARACTER	8	JFCBQNAM (0)	PROCESS QUEUE NAME SPECIFIED BY THE QNAME KEYWORD (TCAM)
0	(0)	CHARACTER	44	JFCBDSNM	DATA SET NAME
44	(2C)	CHARACTER	7	JFCIPLTX (0)	MODULE NAME OF NETWORK CONTROL PROGRAM (TCAM) ICB391
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.
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	SVA OF THE FORMAT 1 DSCB FOR DATA SET PART ON THE FIRST VOLUME OF THE DATA SET ICB398
56	(38)	CHARACTER	4	JFCFCBID (0)	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 MDC007
56	(38)	CHARACTER	4	JFCBFRID (0)	LAST 4 CHARACTERS OF A PDS MEMBER TO BE USED IN THE INTERPRETATION OF DOCUMENTS READ BY 3886 DEVICE FOR THIS STEP MDC024
56	(38)	CHARACTER	4	JFCRBIDO (0)	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 ICB438
58	(3A)	SIGNED	2	JFCAMSTR	NUMBER OF STRINGS ICB438
60	(3C)	SIGNED	2	JFCBADBF	NUMBER OF DATA BUFFERS ICB438
62	(3E)	SIGNED	2	JFCNLREC	LOGICAL RECORD LENGTH FOR VSAM ICB438
64	(40)	SIGNED	2	JFCVINDX	MASS STORAGE SYSTEM COMMUNICATOR (MSSC) VOLUME SELECTION INDEX (MDC308)
66	(42)	BITSTRING	1	JFCBLTYP	LABEL TYPE

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
		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. ICB398
		...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 (0)	DASD MOD DATA SET IF AUTOMATIC STEP RESTART WAS REQUESTED, SVA 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 (0)	FUNCTION INDICATORS FOR THE 3525 CARD PUNCH (SPECIFIED BY THE FUNC PARAMETER) ICB392
		1... ..		JFCFNCBI	"X'80'" I INTERPRET (PUNCH AND PRINT TWO LINES) ICB392
		.1.. ..		JFCFNCR	"X'40'" R READ ICB392
		..1.		JFCFNCRP	"X'20'" P PUNCH ICB392
		...1		JFCFNCRW	"X'10'" W PRINT ICB392
		.... 1.1.		JFCFNCRD	"X'08'" D DATA PROTECTION ICB392
		.... .1..		JFCFNCRX	"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. ICB392
		.... ..1.		JFCFNCRBT	"X'02'" T TWO LINE PRINT SUPPORT REQUEST. THE SECOND PRINT LINE IS LOCATED ON CARD LINE THREE. ICB392
		.... ...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 (0)	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		JFCBPWPB	"X'01'" PASSWORD BYPASS INDICATOR MDC010
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 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. ICB495

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
		...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 ICB398
		.... .1..		JFCTRACE	"X'04'" GTF TRACE IS TO OCCUR DURING OPEN/CLOSE/EOV AND DYNAMIC ALLOCATION PROCESSING OF DCB ICB392
		.... ..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 SVA 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 SVA IN JFCBOTTR (OFFSET 67), IN WHICH CASE OPEN WILL HAVE SET THIS BIT TO ZERO.
		.... ...1		JFCRCTLG	"X'01'" OPEN HAS UPDATED THE SVA. SCHEDULER STEP TERMINATION ROUTINE IS TO RECATALOG THIS DATA SET AND PLACE IN THE CATALOG ENTRY THE DSCB SVA CONTAINED IN JFCBDSCB IF THIS DATA SET IS CATALOGED. ICB398
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'CO'" 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 GENERATION 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'CO'" BIT PATTERN FOR NEW, MOD, OLD
		11..		JFCNEW	"X'CO'" 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 (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

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
88	(58)	ADDRESS	4	JFCAMPTR (0)	POINTER TO AMPBLK FOR ADDITIONAL VSAM PARAMETERS ICB438
88	(58)	BITSTRING	1	JFCBUFNO (0)	NUMBER OF BUFFERS REQUIRED FOR THIS DATA SET (ACCESS METHODS OTHER THAN TCAM AND QTAM)
88	(58)	BITSTRING	1	JFCBUFIN (0)	BITS 0 3 CONTAIN THE NUMBER OF BUFFERS ASSIGNED INITIALLY FOR RECEIVING OPERATIONS FOR EACH LINE IN A LINE GROUP (TCAM)
88	(58)	BITSTRING	1	JFCBFOUT (0)	BITS 4 7 CONTAIN THE NUMBER OF BUFFERS ASSIGNED INITIALLY FOR SENDING OPERATIONS FOR EACH LINE IN A LINE GROUP (TCAM)
88	(58)	BITSTRING	1	JFCBUFRQ	NUMBER OF BUFFERS REQUIRED FOR EACH LINE (QTAM)
89	(59)	SIGNED	1	JFCBGNCP (0)	FOR GAM, THIS FIELD IS USED FOR THE NUMBER OF IOB'S CONSTRUCTED BY THE OPEN ROUTINE. MAXIMUM NUMBER IS 99. MDC025
89	(59)	BITSTRING	1	JFCBHIAR (0)	BUFFER POOL LOCATION IN MAIN STORAGE (HIERARCHY)
89	(59)	BITSTRING	1	JFCBFALN (0)	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 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.		JFCWord	"X'02'" D DOUBLE WORD BOUNDARY
		.... ...1		JFCWord	"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		JFCOPT	"X'10'" ON LINE TERMINAL TEST (BTAM) ICB349
		.... 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 (0)	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
		...1 ..11		JFCCONV	"X'13'" C DATA CONVERSION
		..1. 1.11		JFCTREV	"X'2B'" ET EVEN PARITY AND TRANSLATION

OFFSETS						
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION	
93	(5D)	BITSTRING	1	JFCKEYLE (0)	DIRECT ACCESS KEY LENGTH	
93	(5D)	BITSTRING	1	JFCCODE (0)	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.		JFCASCI	"X'04'" A ASCII (8 TRACK)	
		.... .1.		JFCTTY	"X'02'" T TELETYPE	
		.... ...1		JFCRSV32	"X'01',,C'X'"RESERVED	
93	(5D)	BITSTRING	1	JFCMODE (0)	MODE OF OPERATION (CARD READER, CARD PUNCH) ICB394	
93	(5D)	BITSTRING	1	JFCSTACK (0)	STACKER SELECTION (CARD READER, CARD PUNCH)	
		1...		JFCBIN	"X'80'" C COLUMN BINARY MODE	
		.1.		JFCEBCD	"X'40'" E EBCDIC MODE	
		..1.		JFCMODE0	"X'20'" 0 OPTICAL MARK READ MODE (3505 ONLY) ICB394	
		...1		JFCMODER	"X'10'" R READ COLUMN ELIMINATE MODE (3505 AND 3525 WITH READ FEATURE) ICB394	
		.... 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		JFCSP TWO	"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 ICB474	
95	(5F)	SIGNED	3	JFCBABFS (0)	TOTAL BUFFER SIZE FOR ALL VSAM BUFFERS ICB438	
95	(5F)	CHARACTER	3	JFCLIMCT (0)	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 (0)	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		JFCORG CX	"X'10'" BTAM OR QTAM LINE GROUP MDC011	
		.... 1...		JFCORG CQ	"X'08'" QTAM DIRECT ACCESS MESSAGE QUEUE MDC012	
		.... .1.		JFCORGMQ	"X'04'" QTAM PROBLEM PROGRAM MESSAGE QUEUE MDC013	
		.... .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...		JFCORGGG	"X'80'" GRAPHICS	
		.1.		JFCORGTX	"X'40'" TCAM LINE GROUP MDC014	
		..1.		JFCORGTQ	"X'20'" TCAM MESSAGE QUEUE MDC015	
		...1		JFCRSV13	"X'10',,C'X'"RESERVED, BINARY ZERO	

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
		.... 1..		JFCORGAM	"X'08'" VSAM ICB438
		.... .1..		JFCORGTR	"X'04'" TCAM 3705 MDC016
		.... .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)
		.1.		JFCRFI	"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...	JFCMVCSP	"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 ICB398
.... 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 (MDC301)

BISAM - QISAM

1...	JFCMVCIS	"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...	JFCMVCBD	"X'80'" W WRITE VALIDITY CHECK
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OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
		.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/USASCTII

.... 1...	JFCOPTQ	"X'08'" EBCDIC TO ASCII OR ASCII TO EBCDIC TRANSLATION REQUIRED
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TCAM

1...	JFCSDNAM	"X'80'" SOURCE OR DESTINATION NAME PRECEDES MESSAGE (AFTER CONTROL BYTE)
.1..	JFCUMSG	"X'40'" WORK UNIT IS A MESSAGE (DEFAULT WORK UNIT IS A RECORD)
..1.	JFCCBWU	"X'20'" CONTROL BYTE PRECEDES WORK UNIT
102 (66) SIGNED 2	JFCBLKSI (0)	MAXIMUM BLOCK SIZE
102 (66) SIGNED 2	JFCBUFSI (0)	MAXIMUM BUFFER SIZE
102 (66) SIGNED 2	JFCBAXBF	NUMBER OF INDEX BUFFERS (VSAM) ICB438
104 (68) CHARACTER 8	JFCAMSYN (0)	MODULE NAME FOR SYNAD ROUTINE FOR VSAM ICB438
104 (68) SIGNED 2	JFCLRECL	LOGICAL RECORD LENGTH
106 (6A) SIGNED 1	JFCNCP (0)	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 (0)	TAPE POSITIONING INFORMATION FOR CHECKPOINT 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 CHECKPOINT WAS TAKEN. SA60703
107 (6B) SIGNED 1	JFCNTM (0)	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 ICB473
.1..	JFCPCIX2	"X'40'" PCI=(,X) SEND OPERATIONS X 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 REMAINS ALLOCATED AND ANOTHER IS ALLOCATED. ICB473
..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

OFFSETS
 DEC HEX TYPE LENGTH NAME DESCRIPTION

		....	..1.	JFCPCIR1	EMPTYING (ON SEND OPERATIONS) OF BUFFERS. BUFFERS ARE DEALLOCATED AT THE END OF TRANSMISSION.
		....	...1	JFCPCIR2	"X'02'" PCI=(R,) RECEIVE OPERATIONS
					"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 (0)	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 (0)	THE PHYSICAL LOCATION OF WHAT WILL BE THE FIRST STANDARD LABEL HEADER RECORDS OF THE NEXT DATASET ON THE TAPE VOLUME
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)	BITSTRING	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)	BITSTRING	1	JFCINTVL	INTENTIONAL DELAY, IN SECONDS, BETWEEN PASSES THROUGH A POLLING LIST (QTAM)

END OF NORMAL 108 SEGMENT
 108 PRINTER SEGMENT
 NOTE THIS SEGMENT REPLACES THE NORMAL 108 SEGMENT IF THE DD STATEMENT USES THE UCS PARAMETER.

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 (MDC302)
		.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

END OF 108 PRINTER SEGMENT

113	(71)	SIGNED	3	JFCOUTLI (0)	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. MDC017
113	(71)	SIGNED	1	JFCTHRSH (0)	RECORDS TO BE USED
113	(71)	BITSTRING	1	JFCCPRI	PRIORITY BETWEEN SEND AND RECEIVE OPERATIONS (TCAM)
		1... ..		JFCRSV53	"X'80'",,C'X'"RESERVED MDC020
		.1.. ..		JFCRSV54	"X'40'",,C'X'"RESERVED MDC019
		..1.		JFCRSV55	"X'20'",,C'X'"RESERVED MDC018
		...1		JFCRSV33	"X'10'",,C'X'"RESERVED
		.... 1...		JFCRSV34	"X'08'",,C'X'"RESERVED

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
		.... .1..		JFCRECV	"X'04'" RECEIVE PRIORITY MDC018
		.... ..1.		JFCEQUAL	"X'02'" EQUAL PRIORITY MDC019
		.... ...1		JFCSEND	"X'01'" SEND PRIORITY MDC020
114	(72)	SIGNED	2	JFCSOWA	LENGTH, IN BYTES, OF THE USER PROVIDED WORK AREA (QTAM)
116	(74)	BITSTRING	1	JFCBNTCS	NUMBER OF OVERFLOW TRACKS
117	(75)	BITSTRING	1	JFCBNVOL	NUMBER OF VOLUME SERIAL NUMBERS
118	(76)	CHARACTER	30	JFCBVOLS (0)	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 (MDC306)
148	(94)	BITSTRING	1	JFCBEXTL	LENGTH OF BLOCK OF EXTRA VOLUME SERIAL NUMBERS (BEYOND FIVE)
149	(95)	CHARACTER	3	JFCBEXAD	SYSTEM VIRTUAL ADDRESS (SVA) OF FIRST JFCB EXTENSION BLOCK FOR VOLUME SERIAL NUMBERS OR SVA OF JFCB EXTENSION BLOCK FOR 3800 (MDC303)
152	(98)	CHARACTER	3	JFCBPQTY (0)	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 FROM 1 TO 9 ICB387 SPACE PARAMETERS
155	(9B)	BITSTRING	1	JFCBCTRI	
		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 (MDC307)
		...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 (0)	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. ICB387
158	(9E)	BITSTRING	1		LAST BYTE OF JFCBSQTY (MDC304)
159	(9F)	BITSTRING	1	JFCFLGS1	FLAG BYTE (ICB488) SA53458
		1...		JFCBDLET	"X'80'" IF ONE, DELETE THE DATA SET USED WHEN EXTENDING THE JOB QUEUE OR SPOOL DATA SETS (OS/VS1) (MDC305)
		.1..		JFCTOPEN	"X'40'" TAPE DATA SET HAS BEEN OPENED MDC026
		..1.		JFCBADSP	"X'20'" AUTOMATIC DATA SET PROTECTION INDICATOR (MDC310)
		...1		JFCBPROT	"X'10'" RACF PROTECT REQUESTED (OS/VS2) (MDC314)
		.... 1...		JFCBCEOV	"X'08'" IF ONE, CHKPT=EOV SPECIFIED FOR THIS DATA SET (MDC312)
		.... .1..		JFCVRDS	"X'04'" VIO DATA SET MDC006
		.... ..1.		JFCBCKDS	"X'02'" DATA SET IS CHECKPOINT DATASET
		.... ...1		JFCBUAFF	"X'01'" UNIT AFFINITY SPECIFIED FOR THIS DATA SET (ICB488) SA53458
160	(A0)	CHARACTER	3	JFCBDQTY	QUANTITY OF DIRECT ACCESS STORAGE REQUIRED FOR A DIRECTORY OR AN EMBEDDED INDEX AREA
163	(A3)	ADDRESS	3	JFCBSPNM (0)	MAIN STORAGE ADDRESS OF THE JFCB WITH WHICH CYLINDERS ARE SPLIT (OS/VS1) (MDC315)
163	(A3)	BITSTRING	1	JFCBFLG3	FLAG BYTE (OS/VS2) (MDC316)
		1...		JFCDQDSP	"X'80'" REQUEST DEQUEUE OF TAPE VOLUME WHEN DEMOUNTED (MDC317)
		.1..		JFCBEXP	"X'40'" EXPIRATION DATE SPECIFIED (MDC318)
		..1.		JFCBBFTK	"X'20'" LRECL=NNNNK 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

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
		.... .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	JFCBDR LH	AVERAGE DATA BLOCK LENGTH
174	(AE)	BITSTRING	1	JFCBVLCT	VOLUME COUNT
175	(AF)	BITSTRING	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	"*"

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
INFMJFCB	0	0	JFCBNVOL	75		JFCFIX	64	80
JFCABN	5C	20	JFCBOPS1	48		JFCFLGS1	9F	
JFCACC	5C	80	JFCBOPS2	4F		JFCFMREC	64	C0
JFCACT	65	8	JFCBOTTR	43		JFCFN CBD	44	8
JFCADDED	56	C	JFCBPMEM	56	1	JFCFN CBI	44	80
JFCALLOW	65	40	JFCBPQTY	98		JFCFN CBP	44	20
JFCALX	9B	2	JFCBPROT	9F	10	JFCFN CBR	44	40
JFCAMCRO	38		JFCBPWBP	4D	1	JFCFN CBT	44	2
JFCAMPTR	58		JFCBQNAM	0		JFCFN CBW	44	10
JFCAMSTR	3A		JFCBR LSE	56	40	JFCFN CBX	44	4
JFCAMSYN	68		JFCBRV04	A3	8	JFCFOLD	70	40
JFCASA	54	4	JFCBRV05	A3	4	JFCFRI	5D	20
JFCASCII	5D	4	JFCBRV06	A3	2	JFCFUNC	44	
JFCBABFS	5F		JFCBRV07	A3	1	JFCFWORD	59	1
JFCBABS	9B	0	JFCBRV08	A4		JFCGDG	56	2
JFCBABST	A6		JFCBRWPW	57	30	JFCHIER	59	84
JFCBADBF	3C		JFCBSBNM	A8		JFCHIER1	59	4
JFCBADSP	9F	20	JFCBSCTY	57	10	JFCIND	65	10
JFCBAL	42	40	JFCBSPAC	9B	C0	JFCINOP	4E	80
JFCBAVR	9B	40	JFCBSPNM	A3		JFCINTVL	70	
JFCBAXBF	66		JFCBSPTN	AF		JFCIPLTX	2C	
JFCBBFTA	59	60	JFCBSQTY	9C		JFCKEYLE	5D	
JFCBBFTK	A3	20	JFCBSTAT	57	40	JFCLIMCT	5F	
JFCBBFTR	57	20	JFCBTRK	9B	80	JFCLOC	56	30
JFCBBUFF	4E	2	JFCBTSDM	34		JFCLRECL	68	
JFCBCD	5D	40	JFCBUAFF	9F	1	JFCMAC	64	2
JFCBCEOV	9F	8	JFCBUIFIN	58		JFCMAST	65	20
JFCBCKDS	9F	2	JFCBUFL	5A		JFCMIXG	9B	4
JFCBCKPT	65	10	JFCBUFMX	6A		JFCMOD	57	80
JFCBCRDT	50		JFCBUFNO	58		JFCMODE	5D	
JFCBCTRI	9B		JFCBUFOF	43		JFCMODEO	5D	20
JFCBCYL	9B	C0	JFCBUFRQ	58		JFCMODER	5D	10
JFCBDLET	9F	80	JFCBUFSI	66		JFCMODNM	4E	10
JFCBDQTY	A0		JFCBUR	5D	10	JFCMSVGP	8C	
JFCBDR LH	AB		JFCBVLCT	AE		JFCNCP	6A	
JFCBDSCB	35		JFCBVLSQ	46		JFCNCR	5D	8
JFCBDSNM	0		JFCBVOLS	76		JFCNDCB	34	2
JFCBELNM	2C		JFCBXPDT	53		JFCNDCSB	34	4
JFCBEND	AF	B0	JFCCAT	34	80	JFCNEW	57	C0
JFCBEXAD	95		JFCCBWU	65	20	JFCNL	42	1
JFCBEXP	A3	40	JFCCHAR	64	6	JFCNLREC	3E	
JFCBEXTL	94		JFCCODE	5D		JFCNOCC	64	0
JFCBEXTP	70	80	JFCCONV	5D	13	JFCNOCON	5D	80
JFCBFALN	59		JFCCPRI	71		JFCNRPS	4E	20
JFCBFLG1	4D		JFCCYL	65	8	JFCNSL	42	4
JFCBFLG2	4E		JFCCYLOF	6E		JFCNTM	6B	
JFCBFLG3	A3		JFCDBUFN	6F		JFCNWRT	34	8
JFCBFLSQ	44		JFCDEFER	4E	20	JFCOLD	57	40
JFCBFOFL	43	80	JFCDEL	65	2	JFCONE	5D	1
JFCBFOUT	58		JFCDEN	5E		JFCONTIG	9B	8
JFCBFRID	38		JFCDISP	57	C0	JFCOPEN	4D	F
JFCBFSEQ	6B		JFCDQDSP	A3	80	JFCOPTCD	65	
JFCBFTEK	59		JFCDSORG	62		JFCOPTJ	65	1
JFCBGDGA	57	4	JFCDSRG1	62		JFCOPTQ	65	8
JFCBGNCP	59		JFCDSRG2	63		JFCORGAM	63	8
JFCBHIAR	59		JFCDUAL	4D	10	JFCORGCQ	62	8
JFCBIN	5D	80	JFCDWORD	59	2	JFCORG CX	62	10
JFCBIND1	56		JFCDYN	59	8	JFCORGDA	62	20
JFCBIND2	57		JFCEBCD	5D	40	JFCORGGS	63	80
JFCBLGTH	AF	B0	JFCENT	57	4	JFCORGIS	62	80
JFCBLKSI	66		JFCEQUAL	71	2	JFCORGMQ	62	4
JFCBLOCT	56	10	JFCEROPT	5C		JFCORGPO	62	2
JFCBLP	42	10	JFCEVEN	5D	23	JFCORGPS	62	40
JFCBLTM	42	20	JFCEXC	59	10	JFCORGTQ	63	20
JFCBLTYP	42		JFCEXT	65	20	JFCORGTR	63	4
JFCBMASK	48		JFCFCBAL	70	8	JFCORGTX	63	40
JFCBMSGP	9B	20	JFCFCBID	38		JFCORGU	62	1
JFCBNEWV	56	4	JFCFCBVR	70	4	JFCOUTLI	71	
JFCBNTCS	74		JFCFEED	65	10	JFCOUTOP	4E	40

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
JFCOVER	65	40	JFCRSV06	5D	8	JFCSPONE	5D	9
JFCPAT	34	1	JFCRSV07	5D	4	JFCSPTHR	5D	19
JFCPCI	6B		JFCRSV13	63	10	JFCSP TWO	5D	11
JFCPCIA1	6B	20	JFCRSV15	63	2	JFCSRCHD	65	4
JFCPCIA2	6B	10	JFCRSV16	63	1	JFCSTACK	5D	
JFCPCIBT	65	20	JFCRSV17	65	40	JFCSTAND	40	80
JFCPCIN1	6B	8	JFCRSV18	65	8	JFCSUL	42	A
JFCPCIN2	6B	4	JFCRSV19	65	4	JFCTEMP	57	1
JFCPCIR1	6B	2	JFCRSV20	65	4	JFCTHRSH	71	
JFCPCIR2	6B	1	JFCRSV21	65	2	JFC TOPEN	9F	40
JFCPCIX1	6B	80	JFCRSV22	65	2	JFC TOPT	5C	10
JFCPCIX2	6B	40	JFCRSV25	70	20	JFC TRACE	4E	4
JFCPDS	56	1	JFCRSV26	70	2	JFC TRAN	5D	3B
JFCPOSID	A3	10	JFCRSV27	70	1	JFC TREV	5D	2B
JFCPRTSP	5D		JFCRSV29	9B	10	JFC TRKBL	60	
JFCRBIDC	6C		JFCRSV31	44	1	JFC TRTCH	5D	
JFCRBIDO	38		JFCRSV32	5D	1	JFC TTR	34	10
JFCRCFM	64	E0	JFCRSV33	71	10	JFC TTY	5D	2
JFCRCTLG	4E	1	JFCRSV34	71	8	JFC TWO	5D	2
JFCRECFM	64		JFCRSV38	42	80	JFCUCSID	6C	
JFCRECV	71	4	JFCRSV53	71	80	JFCUCSOP	70	
JFCREDUC	65	4	JFCRSV54	71	40	JFCUND	64	C0
JFCREL	65	1	JFCRSV55	71	20	JFCVAR	64	40
JFCREORG	65	7	JFCRUNIT	98		JFCVARD	64	20
JFCREQ	57	2	JFCSDNAM	65	80	JFCVER	70	10
JFCRESRV	6C		JFCSDRPS	4E	8	JFCVINDX	40	
JFCRFB	64	10	JFCSDS	34	20	JFCVRDS	9F	4
JFCRFO	64	20	JFCSEUR	57	10	JFCVSL	34	40
JFCRFS	64	8	JFCSEND	71	1	JFCNUMSG	65	40
JFCRKP	6C		JFCSHARE	57	8	JFCNVCBD	65	80
JFCRLSE	56	C0	JFCSIM	59	40	JFCNVCIS	65	80
JFCROUND	9B	1	JFCSKP	5C	40	JFCNVCSP	65	80
JFCRQID	9C		JFCSL	42	2	JFC1600	5E	C3
JFCRSV02	5C	8	JFCSLCRE	4D	40	JFC200	5E	3
JFCRSV03	5C	4	JFCSLDES	4D	20	JFC556	5E	43
JFCRSV04	5C	2	JFCSOMA	72		JFC6250	5E	D3
JFCRSV05	5C	1	JFCSPNU	5D	1	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						
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION	
0	(0)	CHARACTER	3	JFCBEXTR	SVA FOR NEXT EXTENSION BLOCK	
3	(3)	BITSTRING	1	JFCBETYP	TABLE ID OF JFCBE	
		..1. 1..1		JFCBEID	"41" JFCBE IDENTIFIER	
4	(4)	BITSTRING	1	JFCBFLAG	FLAG BYTE	
		1...		JFCBEOPN	"X'80'" USER OPEN EXIT MODIFIED THIS BLOCK (MDC304)	
		.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'" BURST FORM STACKING	
		.... ...1		JFCBE007	"X'01'",,C'X'" RESERVED	
5	(5)	SIGNED	1	JFCIDTRC	TABLE REFERENCE CHARACTER FOR COPY MODIFICATION PATTERN	
6	(6)	BITSTRING	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	
16	(10)	CHARACTER	4	JFCBE009	RESERVED (MDC301)	
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 (0)	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)	BITSTRING	132	JFCBE010	RESERVED	
		1.11		JFCBELEN	"*-JFCBE" LENGTH OF JFCB EXTENSION (MDC302)	
		..1. 11..		JFCBEULN	"JFCBE010-JFCBE"LENGTH OF USED FIELDS IN JFCB EXTENSION (MDC303)	

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
JFCBBST	4	2	JFCBE007	4	1	JFCGRP1	24	
JFCBCFS	4	4	JFCBE008	6		JFCGRP2	25	
JFCBEID	3	29	JFCBE009	10		JFCGRP3	26	
JFCBELEN	2C	B0	JFCBE010	2C		JFCGRP4	27	
JFCBEOPN	4	80	JFCBFLAG	4		JFCGRP5	28	
JFCBETYP	3		JFCBMAGT	8		JFCGRP6	29	
JFCBEULN	2C	2C	JFCBTRS1	14		JFCGRP7	2A	
JFCBEXTR	0		JFCBTRS2	18		JFCGRP8	2B	
JFCBE003	4	40	JFCBTRS3	1C		JFCIDTRC	5	
JFCBE004	4	20	JFCBTRS4	20		JFCIMTOT	7	
JFCBE005	4	10	JFCGROUP	24		JFCMODIF	C	
JFCBE006	4	8						

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					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	CHARACTER	3	JFCBXTTR	SVA 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 (MDC002) YM3584
140	(8C)	CHARACTER	4	JFCBXDEV	DEVICE TYPE RETRIEVED FROM CATALOG FOR RECATALOG (MDC003) YM3584
144	(90)	CHARACTER	28		RESERVED
172	(AC)	ADDRESS	4	JFCBXNXT	ADDRESS OF NEXT JFCB EXTENSION MDC001

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JMR

COMMON NAME: Job Management Record
 MACRO ID: IEFJMR
 DSECT NAME: JMR
 CREATED BY: JES
 SUBPOOL AND KEY: Subpool 0, 236 or 237 and key 1
 SIZE: 76 bytes
 POINTED TO BY: JCTJMR field of the JCT data area
 NELJMR field of the NEL data area
 CWAJMRPT field of the CWA work area

SERIALIZATION: None
 FUNCTION: Contains job information accumulated by IBM-supplied data collection routines; it is also an information source for JES and the user exit routines.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	76	JMR	JMR STRUCTURE
0	(0)	CHARACTER	8	JMRJOB	JOB NAME
8	(8)	CHARACTER	4	JMRENTRY	ENTRY TIME IN 1/100'S SEC
12	(C)	CHARACTER	4	JMREDATE	ENTRY DATE 00YYDDDF
16	(10)	CHARACTER	4	JMRCPUID	CPU SID AND MDL FROM SMCA
20	(14)	CHARACTER	8	JMRUSEID	USER ID, BLANK AT C/I TIME
28	(1C)	CHARACTER	1	JMRSTEP	STEP NUMBER
29	(1D)	BITSTRING	1	JMRINDC	INDICATOR SWITCHES
30	(1E)	BITSTRING	1	JMRFLG	JOB FLAGS
		1... ..		JMRSTRS	STEP RESTART
		.1.. ..		JMRCHRS	CHECKPOINT RESTART
		..1.		JMRCNRS	CONTINUE RESTART
		...1		*	RESERVED
		.... 1...		JMRWARM	WARMSTART JOB
		.... .111		*	RESERVED
31	(1F)	CHARACTER	1	JMRCLASS	JOB CLASS
32	(20)	SIGNED	4	JMRUCOM	USER COMMUNICATION FIELD
36	(24)	ADDRESS	4	JMRUTLP	POINTER TO USER TIME LIMIT EXIT ROUTINE PARAMETER AREA
40	(28)	CHARACTER	8	JMRDRSTP	RDR STOP TIME AND DATE
48	(30)	SIGNED	4	JMRJOBIN	JOB SYSIN COUNT
52	(34)	CHARACTER	2	JMRDRDR	RDR DEVICE CLASS AND TYPE
54	(36)	BITSTRING	1	JMROPT	OPTINS SWITCHES
		1... ..		JMRJOB SW	JOB FUNCTIONS REQUESTED
		.1.. ..		JMRSTPSW	STEP FUNCTIONS REQUESTED
		..1.		JMREXITS	USER EXITS REQUESTED
		...1		JMRXONLY	EXITS ONLY SPECIFIED
		.... 111.		*	RESERVED
		.... ...1		JMRFIN D	BACKGROUND INDICATOR
55	(37)	CHARACTER	1	*	RESERVED
56	(38)	CHARACTER	5	JMRSYSOC	SYSOUT CLASSES
61	(3D)	CHARACTER	1	JMRJCLCD	JCL CODE
		1... ..		*	
		.1.. ..		JMRJDTVB	JDT DEFINED JCL VERB CODE
62	(3E)	CHARACTER	2	*	RESERVED
64	(40)	ADDRESS	4	JMRJOBP	POINTER TO JOB LOG
68	(44)	ADDRESS	4	JMRJCLP	POINTER TO JCL CARD
72	(48)	ADDRESS	4	JMRJCLCP	POINTER TO JCL CODE

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
JMR	0		JMRINDC	1D		JMRRDR	34	
JMRCHRS	1E	40	JMRJLCD	3D		JMRSTEP	1C	
JMRCLASS	1F		JMRJCLCP	48		JMRSTPSW	36	40
JMRCNRS	1E	20	JMRJCLP	44		JMRSTRS	1E	80
JMRCPUID	10		JMRJDTV	3D	40	JMRSYSOC	38	
JMRDRSTP	28		JMRJOB	0		JMRUCOM	20	
JMREDATE	C		JMRJOBIN	30		JMRUSEID	14	
JMRENTY	8		JMRJOBP	40		JMRUTLP	24	
JMREXITS	36	20	JMRJOBSP	36	80	JMRWARM	1E	08
JMRFIN	36	01	JMROPT	36		JMRXONLY	36	10
JMRFLG	1E							

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					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION

SECTION 1 DATA ITEMS USED IN OS/VS1 AND OS/VS2
--

DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
		1.11	11..	JSCBSEC1	"*" START OF JSCB SECTION 1
188	(BC)	SIGNED	4	JSCRSV01	RESERVED
192	(C0)	ADDRESS	4	JSCHPCE (0)	ADDRESS OF OPTIONAL JOB ENTRY SUBSYSTEM (JES) PROCESSOR CONTROL ELEMENT ICB459
192	(C0)	BITSTRING	1	JSCRSV32	RESERVED ICB459
193	(C1)	ADDRESS	3	JSCHPCEA	ADDRESS OF OPTIONAL JOB ENTRY SUBSYSTEM (JES) PROCESSOR CONTROL ELEMENT ICB459
196	(C4)	ADDRESS	4	JSCBSHR	ADDRESS OF ASSEMBLY CHAIN (VSAM) ICB434
200	(C8)	ADDRESS	4	JSCBTCP	ADDRESS OF TIOT CHAINING ELEMENT CHAIN (VSAM) ICB434
204	(CC)	ADDRESS	4	JSCBPCC	ADDRESS OF PRIVATE CATALOG CONTROL BLOCK CHAIN (VSAM) ICB434
208	(D0)	ADDRESS	4	JSCBTCBP	ADDRESS OF INITIATOR'S TCB (VSAM) ICB434
212	(D4)	ADDRESS	4	JSCBIJSC	ADDRESS OF JSCB OF THE INITIATOR THAT ATTACHED THIS JOB STEP (OS/VS1) MDC003
216	(D8)	ADDRESS	4	JSCBDBTB	ADDRESS OF THE DEB TABLE FOR THIS JOB STEP (OS/VS1) MDC029
220	(DC)	CHARACTER	4	JSCBID	JOB SERIAL NUMBER
224	(E0)	ADDRESS	4	JSCBDCB (0)	ADDRESS OF DCB FOR DATA SET CONTAINING SCHEDULER TABLES FOR THIS JOB
224	(E0)	BITSTRING	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)	BITSTRING	3	JSCRSV03	RESERVED
232	(E8)	ADDRESS	4	JSCBSECB	ECB FOR COMMUNICATION BETWEEN MAIN STORAGE SUPERVISOR AND THE INITIATOR WHILE WAITING FOR A REGION. THIS ECB NEEDS TO BE IN STORAGE AND THE JSCB IS FIXED.
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) ICB351
		...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 MDC018
		....	....	JSCBAUTH	"X'01'" THE STEP REPRESENTED BY THIS JSCB IS AUTHORIZED TO ISSUE THE MODESET MACRO INSTRUCTION
237	(ED)	BITSTRING	3	JSCRSV10	RESERVED ICB351
240	(F0)	BITSTRING	3	JSCBTTR	JOB QUEUE ADDRESS (TTR) OF TIOT EXTENSION (OS/VS2) ICB351
243	(F3)	BITSTRING	1	JSCBSWT1	STATUS SWITCHES (OS/VS2) ICB351

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
		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) ICB351
		.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) ICB351
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) MDC005
252	(FC)	CHARACTER	4	JSCBWP (0)	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) ICB470
		..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
		.... ..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 ICB351
		.1.. 1..		JSCBS1LN	"(*-JSCBSEC1)" LENGTH OF SECTION 1

SECTION 2 DATA ITEMS USED ONLY IN OS/VS1

256 (100) JSCBSEC2 "*" START OF JSCB SECTION 2 ICB351

CURRENTLY NO OS/VS1 ONLY DATA ITEMS ICB351

.... JSCBS2LN "(*-JSCBSEC2)" LENGTH OF SECTION 2 ICB351

SECTION 3 DATA ITEMS USED ONLY IN OS/VS2

260 (104) JSCBSEC3 "*" START OF JSCB SECTION 3 ICB351

260	(104)	SIGNED	4	JSCBJCT (0)	TTR OF JOB'S JCT ICB351
260	(104)	BITSTRING	1	JSCRSV24	RESERVED ICB351
261	(105)	CHARACTER	3	JSCJCTP (0)	ALIAS FOR JSCBJCTA MDC025
261	(105)	CHARACTER	3	JSCBJCTA	TTR OF JOB'S JCT ICB351
264	(108)	ADDRESS	4	JSCBPSCB	ADDRESS OF TSO PROTECTED STEP CONTROL BLOCK
268	(10C)	SIGNED	2	JSCBASID (0)	ADDRESS SPACE IDENTIFIER (MDC028) YM0446
268	(10C)	SIGNED	2	JSCBTJID	TSO TERMINAL JOB IDENTIFIER
270	(10E)	BITSTRING	1	JSCBFBYT	FLAG BYTE (MDC300)

OFFSETS						
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION	
		1... ..		JSCBRV01	"X'80',,C'X'" RESERVED	
		.1..		JSCBADSP	"X'40'" AUTOMATIC DATA SET PROTECTION FOR THIS USER (MDC302)	
		..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)	BITSTRING	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) (MDC031) YM7086	
284	(11C)	ADDRESS	4	JSCBALOC	ADDRESS OF THE ALLOCATION WORK AREA	
288	(120)	ADDRESS	4	JSCBJNL (0)	INITIATOR JSCB ONLY ADDRESS OF JSCB FOR STEP BEING INITIATED. OTHERWISE, ZERO ICB431	
288	(120)	BITSTRING	1	JSCBJJSB	JOB JOURNAL STATUS INDICATORS ICB332	
		1... ..		JSCBJNLN	"X'80'" NOTHING SHOULD BE WRITTEN IN JOURNAL ICB332	
		.1..		JSCBJNLF	"X'40'" NO JOB JOURNAL MDC017	
		..1.		JSCBJNLE	"X'20'" ERROR IN JOURNAL, DO NOT WRITE ICB332	

EQU X'10' - RESERVED (WAS JSCBJSBJ) MDC001

		.... 1..		JSCBJSBI	"X'08'" JOB HAS NOT ENTERED ALLOCATION FOR THE FIRST TIME ICB332	
		.... .1..		JSCBJSBA	"X'04'" JOB HAS ENTERED ALLOCATION ICB332	
		.... ..1.		JSCBJSBX	"X'02'" JOB HAS COMPLETED ALLOCATION ICB332	
		.... ...1		JSCBJSBT	"X'01'" JOB HAS ENTERED TERMINATION ICB332	
289	(121)	ADDRESS	3	JSCBJNLA	INITIATOR JSCB ONLY ADDRESS OF JSCB FOR STEP BEING INITIATED. OTHERWISE, ZERO ICB431	
292	(124)	ADDRESS	4	JSCBJNLR	POINTER TO JOB JOURNAL RPL MDC023	
296	(128)	ADDRESS	4	JSCBSMLR	ADDRESS OF SYSTEM MESSAGE DATA SET RPL MDC024	
300	(12C)	ADDRESS	4	JSCBSUB (0)	ADDRESS OF JES S'JBTL FOR THIS JOB STEP ICB333	
300	(12C)	BITSTRING	1	JSCRSV31	RESERVED ICB333	
301	(12D)	ADDRESS	3	JSCBSUBA	ADDRESS OF JES SUBTL FOR THIS JOB STEP ICB333	
304	(130)	SIGNED	2	JSCBSONO	THE NUMBER OF SYSOUT DATA SETS PLUS ONE ICB335	
306	(132)	SIGNED	2	JSCRSV28	RESERVED	
308	(134)	CHARACTER	8	JSCBFRBA	RELATIVE BYTE ADDRESS (RBA) OF THE FIRST JOURNAL BLOCK (MDC032) YM7086	
316	(13C)	ADDRESS	4	JSCBSIB	ADDRESS OF THE SUBSYSTEM IDENTIFICATION BLOCK MDC021	
320	(140)	ADDRESS	4	JSCDSABQ	ADDRESS OF QDB FOR DSAB CHAIN MDC007	
324	(144)	ADDRESS	4	JSCRSV54	RESERVED MDC025	
328	(148)	SIGNED	4	JSCSCT (0)	TTR OF SCT MDC027	
328	(148)	BITSTRING	1	JSCRSV55	RESERVED	
329	(149)	CHARACTER	3	JSCSCTP	TTR OF SCT MDC026	
332	(14C)	ADDRESS	4	JSCMTCOR	ADDRESS OF TIOT MAIN STORAGE MANAGEMENT AREA MDC010	
336	(150)	ADDRESS	4	JSCBVATA	ADDRESS OF VAT USED DURING SYSTEM RESTART OR AUTOMATIC RESTART MDC011	
340	(154)	SIGNED	2	JSCDDNNO	COUNTER USED BY DYNAMIC ALLOCATION TO GENERATE DD NAMES MDC012	
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 MDC022	
346	(15A)	BITSTRING	1	JSCRSV33	RESERVED MDC019	
347	(15B)	SIGNED	1	JSCBSWSP	SWA SUBPOOL MDC015	
348	(15C)	ADDRESS	4	JSCBACT	POINTER TO ACTIVE JSCB MDC014	
352	(160)	ADDRESS	4	JSCBUFTP	ADDRESS OF ALLOCATION/UNALLOCATION WRITE TO PROGRAMMER BUFFER MDC030	
356	(164)	ADDRESS	4	JSCBASWA	POINTER TO THE LAST ALLOCATION ESTAE WORK AREA (MDC303)	
360	(168)	CHARACTER	8	JSCBPGMN (0)	JOB STEP PROGRAM NAME (MDC304)	
360	(168)	ADDRESS	4	JSCBECB1	ADDR OF CANCEL ECB WHILE WAITING FOR A REGION (IEFSD363)	

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
364	(16C)	ADDRESS	4	JSCBECB2	ADDR OF WAIT FOR REGION ECB WHILE WAITING FOR A REGION (IEFSD263)
368	(170)	ADDRESS	4	JSCRIUCP	ADDRESS OF DYNAMIC ALLOCATION COMMUNICATION TABLE
372	(174)	SIGNED	4	JSCRSV45 (0)	RESERVED
372	(174)	SIGNED	2	JSCRSV46 (0)	RESERVED
372	(174)	BITSTRING	1	JSCRSV48	RESERVED
373	(175)	BITSTRING	1	JSCRSV49	RESERVED
374	(176)	SIGNED	2	JSCRSV47 (0)	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 ICB351
		1.11 11..		JSCBDISP	"(260-JSCBS1LN)" DISPLACEMENT OF FIRST JSCB DATA BYTE
		.1.. 1...		JSCBAOS1	"JSCBS1LN+JSCBS2LN" OS/VS1 JSCB LENGTH ICB351
		11..		JSCBAOS2	"JSCBS1LN+JSCBS3LN" OS/VS2 JSCB LENGTH ICB332

END OF JSCB

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
JSCBACT	15C		JSCBPSCB	108		JSCRIUCP	170	
JSCBADSP	10E	40	JSCBQMPI	F4		JSCRSV01	BC	
JSCBALOC	11C		JSCBRET	FC	40	JSCRSV02	E0	
JSCBAOS1	178	48	JSCBRV01	10E	80	JSCRSV03	E5	
JSCBAOS2	178	C0	JSCBRV02	10E	20	JSCRSV04	EC	80
JSCBASID	10C		JSCBRV03	10E	10	JSCRSV05	EC	40
JSCBASMA	164		JSCBRV04	10E	8	JSCRSV06	EC	10
JSCBAUTH	EC	1	JSCBRV05	10E	4	JSCRSV07	EC	8
JSCBCSCB	100		JSCBRV06	10E	2	JSCRSV08	EC	4
JSCBDBTB	D8		JSCBRV07	10E	1	JSCRSV10	ED	
JSCBDCB	E0		JSCBRV08	10F		JSCRSV11	F3	40
JSCBDCBA	E1		JSCBSECB	E8		JSCRSV12	F3	20
JSCBDISP	178	BC	JSCBSEC1	0	BC	JSCRSV13	F3	10
JSCBECB1	168		JSCBSEC2	100	104	JSCRSV14	F3	8
JSCBECB2	16C		JSCBSEC3	104	104	JSCRSV15	F3	4
JSCBFBYT	10E		JSCBSHR	C4		JSCRSV16	F3	2
JSCBFRBA	134		JSCBSMLR	128		JSCRSV18	FC	20
JSCBID	DC		JSCBSONO	130		JSCRSV19	FC	10
JSCBIECB	110		JSCBSSIB	13C		JSCRSV20	FC	8
JSCBIJSC	D4		JSCBSTEP	E4		JSCRSV21	FC	4
JSCBIOFG	FC	80	JSCBSUB	12C		JSCRSV22	FC	2
JSCBJCT	104		JSCBSUBA	12D		JSCRSV23	FC	1
JSCBJCTA	105		JSCBSWSP	15B		JSCRSV24	104	
JSCBJJSB	120		JSCBSWT1	F3		JSCRSV28	132	
JSCBJNL	120		JSCBS1LN	100	48	JSCRSV31	12C	
JSCBJNLA	121		JSCBS2LN	100	0	JSCRSV32	C0	
JSCBJNLE	120	20	JSCBS3LN	178	78	JSCRSV33	15A	
JSCBJNLF	120	40	JSCBTCBP	D0		JSCRSV45	174	
JSCBJNLN	120	80	JSCBTCPC	C8		JSCRSV46	174	
JSCBJNLR	124		JSCBTJID	10C		JSCRSV47	176	
JSCBJRBA	114		JSCBTTTR	F0		JSCRSV48	174	
JSCBJSBA	120	4	JSCBUFPT	160		JSCRSV49	175	
JSCBJSBI	120	8	JSCBVATA	150		JSCRSV50	176	
JSCBJSBT	120	1	JSCBWTFG	FC		JSCRSV51	177	
JSCBJSBX	120	2	JSCBWTP	FC		JSCRSV52	178	
JSCBLONG	EC	20	JSCBWTSP	FD		JSCRSV53	156	
JSCBOPTS	EC		JSCDDNNO	154		JSCRSV54	144	
JSCBPASS	F3	80	JSCDDNUM	158		JSCRSV55	148	
JSCBPCC	CC		JSCDSABQ	140		JSCSCT	148	
JSCBPGMN	168		JSCHPCE	C0		JSCSCTP	149	
JSCBPMG	FE		JSCHPCEA	C1		JSCSIOTS	EC	2
JSCBPMSG	F3	1	JSCJCTP	105		JSCMTCOR	14C	

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LCCA

COMMON NAME: Logical Configuration Communication Area
 MACRO ID: IHALCCA
 DSECT NAME: LCCA
 CREATED BY: IEAVN1PO, IEEVCPR
 SUBPOOL AND KEY: 239 and Key 0
 SIZE: 1888 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 processor related data.

OFFSETS						
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION	
0	(0)	CHARACTER	4	LCCALCCA	CONTROL BLOCK ACRONYM IN EBCDIC	
4	(4)	SIGNED	2	LCCACPUA	LOGICAL CPU ADDRESS	
6	(6)	SIGNED	2	LCCACAFM	BIT MASK CORRESPONDING TO LOGICAL CPU ADDRESS	
8	(8)	SIGNED	4	LCCAPGR1 (16)	PROGRAM FLIH RECURSION REGISTER SAVE AREA 1	
72	(48)	SIGNED	4	LCCAPGR2 (16)	PROGRAM FLIH MAIN ENTRY REGISTER SAVE AREA (MDC346)	
136	(88)	BITSTRING	8	LCCAPPSW	PROGRAM FLIH MAIN ENTRY PSW SAVE AREA	
144	(90)	SIGNED	4	LCCAPINT	PROGRAM FLIH MAIN ENTRY ILC AND INTERRUPT CODE SAVE AREA	
148	(94)	SIGNED	4	LCCAPVAD	PROGRAM FLIH MAIN ENTRY TRANSLATION EXCEPTION ADDRESS SAVE AREA	
		1... ..		LCCAPVXM	"X'80'" TEA MODE STATE 0 = PRIMARY 1 = SECONDARY (MDC338)	
152	(98)	SIGNED	4	LCCAMCR1	MASTER MEMORY'S STOR REGISTER VALUE	
156	(9C)	SIGNED	4	LCCACRO	WORK AREA FOR TESTING BITS IN CONTROL REGISTER 0	
160	(A0)	SIGNED	4	LCCAPGR3 (16)	PROGRAM FLIH RECURSION 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 (MDC339)	
352	(160)	SIGNED	4	LCCARSGR (16)	RESTART FLIH REGISTER SAVE AREA	
416	(1A0)	BITSTRING	24	LCCAR1A0	RESERVED	
440	(1B8)	BITSTRING	8	LCCAPXM1 (0)	PROGRAM FLIH CROSS MEMORY CONTROL REGISTER SAVE AREA 1 (MDC346)	
440	(1B8)	SIGNED	2	LCCAPX1K	PROGRAM KEY MASK (MDC338)	
442	(1BA)	SIGNED	2	LCCAPX1S	SECONDARY ASID (MDC338)	
444	(1BC)	SIGNED	2	LCCAPX1A	AUTHORITY INDEX (MDC338)	
446	(1BE)	SIGNED	2	LCCAPX1P	PRIMARY ASID (MDC338)	
448	(1C0)	BITSTRING	8	LCCAPXM2 (0)	PROGRAM FLIH CROSS MEMORY CONTROL REGISTER SAVE AREA 2 (MDC346)	
448	(1C0)	SIGNED	2	LCCAPX2K	PROGRAM KEY MASK (MDC338)	
450	(1C2)	SIGNED	2	LCCAPX2S	SECONDARY ASID (MDC338)	
452	(1C4)	SIGNED	2	LCCAPX2A	AUTHORITY INDEX (MDC338)	
454	(1C6)	SIGNED	2	LCCAPX2P	PRIMARY ASID (MDC338)	
456	(1C8)	BITSTRING	8	LCCAPXM3 (0)	PROGRAM FLIH CROSS MEMORY CONTROL REGISTER SAVE AREA 3 (MDC346)	
456	(1C8)	SIGNED	2	LCCAPX3K	PROGRAM KEY MASK (MDC338)	
458	(1CA)	SIGNED	2	LCCAPX3S	SECONDARY ASID (MDC338)	
460	(1CC)	SIGNED	2	LCCAPX3A	AUTHORITY INDEX (MDC338)	
462	(1CE)	SIGNED	2	LCCAPX3P	PRIMARY ASID (MDC338)	
464	(1D0)	BITSTRING	8	LCCAR1D0	RESERVED	
472	(1D8)	BITSTRING	8	LCCAPSW3	PROGRAM FLIH PSW SAVE AREA (MDC346)	
480	(1E0)	SIGNED	4	LCCAINGR (8)	INTERSECT REGISTER SAVE AREA (MDC325)	

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
512	(200)	SIGNED	4	LCCASCRO	STOP RESTART CRO SAVE AREA (MDC311)
		...1		LCCASPEN	"X'10'" IF 0, PSA PROTECT DISABLED. IF 1, PSA PROTECT ENABLED. BIT IS IN HIGH ORDER BYTE OF LCCASCRO. (MDC314)
516	(204)	SIGNED	4	LCCAMCRO	MACHINE CHECK FLIH CRO SAVE AREA (MDC312)
		...1		LCCAMPEN	"X'10'" IF 0, PSA PROTECT DISABLED. IF 1, PSA PROTECT ENABLED. BIT IS IN HIGH ORDER BYTE OF LCCAMCRO. (MDC315)
520	(208)	BITSTRING	4	LCCAIHRC (0)	GENERAL FLIH RECURSION FLAGS
520	(208)	BITSTRING	1	LCCAIHR1	FIRST BYTE OF LCCAIHRC
		1...		LCCAXRC1	"X'80'" EXTERNAL FLIH RECURSION BIT 1
		.1...		LCCAXRC2	"X'40'" EXTERNAL FLIH RECURSION BIT 2
521	(209)	BITSTRING	1	LCCAIHR2	SECOND BYTE OF LCCAIHRC
522	(20A)	BITSTRING	1	LCCAIHR3	THIRD BYTE OF LCCAIHRC
523	(20B)	BITSTRING	1	LCCAIHR4	FOURTH BYTE OF LCCAIHRC
524	(20C)	BITSTRING	4	LCCASPIN (0)	PROCESSOR IS SPINNING INDICATORS
524	(20C)	BITSTRING	1	LCCASPN1	FIRST BYTE OF LCCASPIN
		1...		LCCASIGS	"X'80'" IEAVSIGP SPIN BIT
		.1...		LCCAERIS	"X'40'" IEAVERI 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 MDC035
		.... .1.		LCCAINT	"X'02'" INTERSECT FUNCTION SPIN BIT (MDC308)
		.... ...1		LCCAEXSN	"X'01'" SPIN BIT FOR EXCESSIVE SPIN NOTIFICATION ROUTINE IEEVEXSN (MDC330)
525	(20D)	BITSTRING	1	LCCASPN2	SECOND BYTE OF LCCASPIN
		1...		LCCAMSF	"X'80'" MSSFCALL SVC SPIN CONDITION.
		.1...		LCCACHAP	"X'40'" ASCBCHAP SPIN BIT
526	(20E)	BITSTRING	1	LCCASPN3	THIRD BYTE OF LCCASPIN
527	(20F)	BITSTRING	1	LCCASPN4	FOURTH BYTE OF LCCASPIN
528	(210)	BITSTRING	8	LCCAR210	RESERVED
536	(218)	ADDRESS	4	LCCACBUS	POINTER TO CPU WORK/SAVE AREA VECTOR TABLE
540	(21C)	BITSTRING	1	LCCADSF1	DISPATCHER STATUS INDICATOR BYTE 1
		1...		LCCAACR	"X'80'" ACR IN PROGRESS
		.1...		LCCAVCPU	"X'40'" VARY CPU IN PROGRESS
		...1		LCCATIMR	"X'10'" CPU'S TOD CLOCK IS TO BE OR IS BEING SYNCHRONIZED MDC011
541	(21D)	BITSTRING	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		LCCAETS	"X'10'" EUTSAVE SUBROUTINE FOOTPRINT
		.... 1...		LCCAETR	"X'08'" EUTREST SUBROUTINE FOOTPRINT
542	(21E)	BITSTRING	1	LCCAPSMK	STORE AREA FOR FLIH'S STOSM INSTRUCTION
543	(21F)	BITSTRING	1		RESERVED
544	(220)	BITSTRING	32	LCCADSON (0)	DISPATCHER CPU RELATED WORK AREA
544	(220)	ADDRESS	4	LCCAPASC	DISPATCHER SAVEAREA FOR PREVIOUS ADDRESS SPACE SEARCHED
548	(224)	SIGNED	4	LCCADBCT	DISPATCHER SAVEAREA FOR INTERNAL ASCB COUNTER. INITIALIZED TO SVTDSBCT AND DECREMENTED BY ONE FOR EACH ASCB SEARCHED.
552	(228)	ADDRESS	4	LCCADSV1	DISPATCHER SAVEAREA
556	(22C)	ADDRESS	4	LCCADSV2	DISPATCHER SAVEAREA
560	(230)	ADDRESS	4	LCCADSV3	DISPATCHER SAVEAREA
564	(234)	ADDRESS	4	LCCADSV4	DISPATCHER SAVEAREA
568	(238)	ADDRESS	4	LCCADSV5	DISPATCHER SAVEAREA
572	(23C)	ADDRESS	4	LCCADSV6	DISPATCHER SAVEAREA

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
576	(240)	ADDRESS	4	LCCAE1R	EXTERNAL FLIH MAINLINE RETRY ADDRESS
580	(244)	ADDRESS	4	LCCAE2R	EXTERNAL FLIH 1ST RECURSION RETRY ADDRESS
584	(248)	ADDRESS	4	LCCAE3R	EXTERNAL FLIH 2ND RECURSION RETRY ADDRESS
588	(24C)	BITSTRING	4	LCCAR24C	RESERVED
592	(250)	SIGNED	4	LCCATCR0	SAVE AREA FOR CONTROL REGISTER 0 FOR TIMER ROUTINES (MDC322)
596	(254)	BITSTRING	20	LCCAR254	RESERVED
616	(268)	DBL WORD	8 (0)		ALIGN LCCAWTIM TO DOUBLE WORD
616	(268)	BITSTRING	8	LCCAWTIM	ACCUMULATED CPU WAIT TIME
624	(270)	BITSTRING	48	LCCAR270	RESERVED
672	(2A0)	SIGNED	4	LCCASRBJ	SUSPENDED SERVICE REQUEST BLOCK (SRB) JOURNAL WORD USED BY SETLOCK MDC043
676	(2A4)	ADDRESS	4	LCCADCPU	VIRTUAL ADDRESS OF LCCA OF FAILING CPU
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)	BITSTRING	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 MDC038
693	(2B5)	BITSTRING	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'" SYSTEM TERMINATION EXIT FLAG MDC037
694	(2B6)	BITSTRING	1	LCCALKFG	LOCK FLAG BYTE MDC005
		...1		LCCALKRD	"X'10'" THIS IS A LOCK MANAGER RELEASE DISABLED REQUEST MDC047
695	(2B7)	BITSTRING	1		RESERVED
696	(2B8)	BITSTRING	4	LCCAR2B8	RESERVED
700	(2BC)	ADDRESS	4	LCCASLIP	POINTER TO SLIP/PER WORK AREA (MDC316)
704	(2C0)	DBL WORD	8 (0)		ALIGN LCCALWTM TO DOUBLE WORD MDC001
704	(2C0)	BITSTRING	8	LCCALWTM	VALUE OF LCCAWTIM AT THE END OF A MEASUREMENT INTERVAL MDC001
712	(2C8)	BITSTRING	8	LCCAR2C8	RESERVED
720	(2D0)	DBL WORD	8 (0)		ALIGN LCCASRBF TO DOUBLE WORD MDC009
720	(2D0)	CHARACTER	8	LCCASRBF (0)	SRB FIELDS MDC009
720	(2D0)	SIGNED	2	LCCASAFN	CPU AFFINITY IF IN SRB MODE MDC003
722	(2D2)	BITSTRING	6	LCCAPGTA	ASID/TCB IF IN SRB MODE MDC004
728	(2D8)	BITSTRING	8	LCCAR2D8	RESERVED
736	(2E0)	ADDRESS	4	LCCAIOWA	ADDRESS OF IOS WORKAREA (MDCXXX)
740	(2E4)	SIGNED	4	LCCAIOR1	RESERVED FOR IOS (MDCXXX)
744	(2E8)	SIGNED	4	LCCAIOR2	RESERVED FOR IOS (MDCXXX)
748	(2EC)	SIGNED	4	LCCAIOR3	RESERVED FOR IOS (MDCXXX)
752	(2F0)	BITSTRING	112	LCCAR2F0	RESERVED
864	(360)	SIGNED	4	LCCASMQJ	GLOBAL SERVICE MANAGER QUEUE (GSMQ) AND LOCAL SERVICE MANAGER QUEUE (LSMQ) JOURNAL WORD USED BY DISPATCHER AND SCHEDULE MDC044
868	(364)	SIGNED	4	LCCASPLJ	GLOBAL SYSTEM PRIORITY LIST (GSPL) AND LOCAL SYSTEM PRIORITY LIST (LSPL) JOURNAL WORD USED BY DISPATCHER MDC045
872	(368)	BITSTRING	4	LCCAR368	RESERVED
876	(36C)	SIGNED	4	LCCAFSSJ	SRB JOURNAL USED BY DISPATCHER FIND SRB SUBROUTINE (MDC309)
880	(370)	BITSTRING	16	LCCAR370	RESERVED
896	(380)	SIGNED	4	LCCASGPR (16)	SVC FLIH GENERAL REGISTER SAVE AREA (MDC301)
960	(3C0)	BITSTRING	2		RESERVED
962	(3C2)	BITSTRING	2	LCCAPERC	PROGRAM EVENT RECORDING CODE (MDC326)
964	(3C4)	ADDRESS	4	LCCAPERA	PER ADDRESS (MDC327)
968	(3C8)	BITSTRING	8	LCCAXM2	EXTERNAL FLIH CROSS MEMORY CONTROL REGISTER SAVE AREA 2 (MDC343)

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
976	(300)	BITSTRING	8	LCCAXXM3	EXTERNAL FLIH CROSS MEMORY CONTROL REGISTER SAVE AREA 3 (MDC343)
984	(308)	BITSTRING	8	LCCARXMR	RESTART FLIH CROSS MEMORY CONTROL REGISTER SAVE AREA (MDC338)
992	(3E0)	BITSTRING	8	LCCASXMR	SVC FLIH CROSS MEMORY CONTROL REGISTER SAVE AREA (MDC338)
1000	(3E8)	BITSTRING	72	LCCALKG1	LOCK MANAGER REGISTER SAVE AREA (MDC342)
1072	(430)	BITSTRING	64	LCCALKG2	LOCK MANAGER SUSPENSION REGISTER SAVE AREA (MDC342)
1136	(470)	BITSTRING	8	LCCAELKP	LOCK MANAGER PSM SAVE AREA (MDC342)
1144	(478)	SIGNED	4	LCCASTG1 (18)	STATUS REGISTER SAVE AREA (MDC338)
1216	(4C0)	SIGNED	4	LCCASCSA (5)	PCLINK SAVE AREA FOR REGISTERS 8 12 (CALLER'S REGISTERS) (MDC341)
1236	(4D4)	SIGNED	4	LCCASREG (13)	PCLINK SAVE AREA (MDC341)
1288	(508)	BITSTRING	1	LCCASMSK	PCLINK SYSTEM MASK (MDC341)
1289	(509)	BITSTRING	1	LCCARSMK	RESUME/TCTL SYSTEM MASK (MDC340)
1290	(50A)	BITSTRING	1	LCCAPGMM	PCLINK PROGRAM MASK (MDC341)
1291	(50B)	BITSTRING	1	LCCATCFB	RESUME/TCTL RECOVERY FOOTPRINT BYTE (MDC346)
		1...		LCCATCTL	"X'80'" TCTL IN CONTROL AT ABEND (MDC346)
		.1..		LCCATCAC	"X'40'" TCBACTIV AND TCBS3A SET (MDC346)
1292	(50C)	SIGNED	4	LCCARSME (0)	RESUME REGISTER SAVE AREA FOR REGISTERS 11 4 (MDC338)
1292	(50C)	SIGNED	4	LCCARES1 (7)	RESUME REGISTER SAVE AREA FOR REG 11 REG 1 (MDC338)
1320	(528)	SIGNED	4	LCCARES2 (3)	RESUME REGISTER SAVE AREA FOR REG 2 REG 4 (MDC338)
1332	(534)	BITSTRING	8	LCCAR534	RESERVED
1340	(53C)	ADDRESS	4	LCCAPRMT	ADDRESS OF THE ASCB ON WHOSE BEHALF A PRIORITY PROMOTION WAS INITIATED. (MDC347)
1344	(540)	ADDRESS	4	LCCAPTCB	ADDRESS OF THE TCB ON WHOSE BEHALF A PRIORITY PROMOTION WAS INITIATED. (MDC347)
1348	(544)	ADDRESS	4	LCCAPRTN	DISPATCHER RETURN POINT IF NO DISPATCHABLE WORK IS FOUND IN A PROMOTED ADDRESS SPACE. (MDC347)
1352	(548)	SIGNED	4	LCCACDXM (2)	CALLDISP XMEM SAVE AREA (MDC338)
1360	(550)	SIGNED	4	LCCASRXM (2)	CROSS MEMORY SAVE AREA FOR STOP/RESET AND SRB STATUS SAVE/RESTORE/MODIFY ROUTINES.
1368	(558)	BITSTRING	4	LCCAR558	RESERVED
1372	(55C)	BITSTRING	12	LCCAIOMUX (0)	IOS CROSS MEMORY SAVE AREA (MDC339)
1372	(55C)	SIGNED	4	LCCAIOSS	IOS PSM S BIT REGISTER SAVE AREA (MDC339)
1376	(560)	SIGNED	4	LCCAIOC3	IOS CONTROL REGISTER 3 SAVE AREA (MDC339)
1380	(564)	SIGNED	4	LCCAIOC4	IOS CONTROL REGISTER 4 SAVE AREA (MDC339)
1384	(568)	SIGNED	4	LCCABBRC	BIND BREAK COMMUNICATION BUFFER USED BY IEAVEBBR (MDC344)
1388	(56C)	CHARACTER	64	LCCACDSV (0)	CALLDISP SERVICE ROUTINE REGISTER SAVE AREA FOR REGISTERS 0 15 (MDC344)
1388	(56C)	SIGNED	4	LCCACDS0	CALLDISP REGISTER 0 SAVE AREA (MDC344)
1392	(570)	SIGNED	4	LCCACDS1	CALLDISP REGISTER 1 SAVE AREA (MDC344)
1396	(574)	SIGNED	4	LCCACDS2	CALLDISP REGISTER 2 SAVE AREA (MDC344)
1400	(578)	SIGNED	4	LCCACDS3	CALLDISP REGISTER 3 SAVE AREA (MDC344)
1404	(57C)	SIGNED	4	LCCACDS4	CALLDISP REGISTER 4 SAVE AREA (MDC344)
1408	(580)	SIGNED	4	LCCACDS5	CALLDISP REGISTER 5 SAVE AREA (MDC344)
1412	(584)	SIGNED	4	LCCACDS6	CALLDISP REGISTER 6 SAVE AREA (MDC344)
1416	(588)	SIGNED	4	LCCACDS7	CALLDISP REGISTER 7 SAVE AREA (MDC344)
1420	(58C)	SIGNED	4	LCCACDS8	CALLDISP REGISTER 8 SAVE AREA (MDC344)
1424	(590)	SIGNED	4	LCCACDS9	CALLDISP REGISTER 9 SAVE AREA (MDC344)
1428	(594)	SIGNED	4	LCCACDSA	CALLDISP REGISTER 10 SAVE AREA (MDC344)
1432	(598)	SIGNED	4	LCCACDSB	CALLDISP REGISTER 11 SAVE AREA (MDC344)
1436	(59C)	SIGNED	4	LCCACDSC	CALLDISP REGISTER 12 SAVE AREA (MDC344)
1440	(5A0)	SIGNED	4	LCCACDSD	CALLDISP REGISTER 13 SAVE AREA (MDC344)
1444	(5A4)	SIGNED	4	LCCACDSE	CALLDISP REGISTER 14 SAVE AREA (MDC344)
1448	(5A8)	SIGNED	4	LCCACDSF	CALLDISP REGISTER 15 SAVE AREA (MDC344)
1452	(5AC)	SIGNED	4	LCCASLSA (16)	LCCA SINGLE LEVEL SAVE AREA USED BY MACHINE CHECK HANDLER (MDC344)
1516	(5EC)	BITSTRING	4	LCCAR5EC	RESERVED

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
1520	(5F0)	SIGNED	4	LCCAPOST (10)	POST SAVE AREA FOR SRB POOL MANAGER
1560	(618)	DBL WORD	8	LCCAXPSM	EXTERNAL FLIH PSM SAVE AREA 1
1568	(620)	SIGNED	4	LCCAXXM1 (2)	EXTERNAL FLIH CROSS MEMORY SAVE AREA 1
1576	(628)	SIGNED	4	LCCAXTIM (2)	EXTERNAL FLIH TIMER SAVE AREA 1
1584	(630)	SIGNED	4	LCCAXGR1 (16)	EXTERNAL FLIH ENTRY REGISTER SAVE AREA 1
1648	(670)	SIGNED	4	LCCAEMSD (16)	MEMORY SWITCH DISABLED ENTRY REGISTER SAVE AREA
1712	(6B0)	DBL WORD	8	LCCAPPS1	PROGRAM FLIH RECURSION PSM SAVE AREA 1
1720	(6B8)	BITSTRING	4	LCCAPIC1	PROGRAM FLIH RECURSION ILC AND INTERRUPT CODE SAVE AREA 1
1724	(6BC)	BITSTRING	4	LCCAPTE1	PROGRAM FLIH RECURSION TRANSLATION EXCEPTION ADDRESS SAVE AREA 1
1728	(6C0)	SIGNED	4	LCCAPGR4 (16)	PROGRAM FLIH REGISTER SAVE AREA 4
1792	(700)	SIGNED	4	LCCAPSLI (18)	PROGRAM FLIH SAVE AREA TO PASS TO SLIH ROUTINES
1864	(748)	DBL WORD	8	LCCAXPS2	EXTERNAL FLIH PSM SAVE AREA 2
1872	(750)	DBL WORD	8	LCCAPPS3	PROGRAM FLIH RECURSION PSM SAVE AREA 3
1880	(758)	BITSTRING	4	LCCAPIC3	PROGRAM FLIH RECURSION ILC AND INTERRUPT CODE SAVE AREA 3
1884	(75C)	BITSTRING	4	LCCAPTE3	PROGRAM FLIH RECURSION TRANSLATION EXCEPTION ADDRESS SAVE AREA 3
1888	(760)	DBL WORD	8	LCCAEND (0)	END OF LCCA.

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
LCCAACR	21C	80	LCCAINGR	1E0	0	LCCARES2	528	0
LCCABBRC	568	0	LCCAINT	20C	2	LCCARSGR	160	0
LCCACAFM	6	0	LCCAI0C3	560	0	LCCARSME	50C	0
LCCACDSA	594	0	LCCAI0C4	564	0	LCCARSMK	509	0
LCCACDSB	598	0	LCCAI0R1	2E4	0	LCCARSTR	20C	8
LCCACDSC	59C	0	LCCAI0R2	2E8	0	LCCARXMR	3D8	0
LCCACDSD	5A0	0	LCCAI0R3	2EC	0	LCCAR1A0	1A0	0
LCCACDSE	5A4	0	LCCAI0SS	55C	0	LCCAR1D0	1D0	0
LCCACDSF	5A8	0	LCCAI0WA	2E0	0	LCCAR2B8	2B8	0
LCCACDSV	56C	0	LCCAI0XM	55C	0	LCCAR2C8	2C8	0
LCCACDS0	56C	0	LCCALCCA	0	D3C3	LCCAR2D8	2D8	0
LCCACDS1	570	0	LCCALCR0	2B0	0	LCCAR2F0	2F0	0
LCCACDS2	574	0	LCCALKFG	2B6	0	LCCAR210	210	0
LCCACDS3	578	0	LCCALKG1	3E8	0	LCCAR24C	24C	0
LCCACDS4	57C	0	LCCALKG2	430	0	LCCAR254	254	0
LCCACDS5	580	0	LCCALKRD	2B6	10	LCCAR270	270	0
LCCACDS6	584	0	LCCALOCK	20C	20	LCCAR368	368	0
LCCACDS7	588	0	LCCALWTM	2C0	0	LCCAR370	370	0
LCCACDS8	58C	0	LCCAMCR0	204	0	LCCAR5EC	5EC	0
LCCACDS9	590	0	LCCAMCR1	98	0	LCCAR534	534	0
LCCACDXM	548	0	LCCAMPEN	204	10	LCCAR558	558	0
LCCACHAP	20D	40	LCCAMSF	20D	80	LCCASAFN	2D0	0
LCCACLMS	2B4	40	LCCAPASC	220	0	LCCASCRO	200	0
LCCACPUA	4	0	LCCAPERA	3C4	0	LCCASCSA	4C0	0
LCCACBUS	218	0	LCCAPER0	3C2	0	LCCASGPR	380	0
LCCACRDP	2B5	2	LCCAPGMM	50A	0	LCCASIGS	20C	80
LCCACREF	2B5	80	LCCAPGR1	8	0	LCCASLIP	2BC	0
LCCACREX	2B5	0	LCCAPGR2	48	0	LCCASLSA	5AC	0
LCCACRFL	2B4	0	LCCAPGR3	A0	0	LCCASMJQ	360	0
LCCACRIN	2B5	8	LCCAPGR4	6C0	0	LCCASMSK	508	0
LCCACRLC	2AC	0	LCCAPGTA	2D2	0	LCCASPEN	200	10
LCCACRLE	2B5	20	LCCAPIC1	6B8	0	LCCASPIN	20C	0
LCCACRLM	2B5	4	LCCAPIC3	758	0	LCCASPLJ	364	0
LCCACRRM	2B5	40	LCCAPINT	90	0	LCCASPN1	20C	0
LCCACRRT	2B5	10	LCCAPOST	5F0	0	LCCASPN2	20D	0
LCCACRST	2B5	1	LCCAPPSW	88	0	LCCASPN3	20E	0
LCCACRTM	2B4	80	LCCAPPS1	6B0	0	LCCASPN4	20F	0
LCCACRO	9C	0	LCCAPPS3	750	0	LCCASRBF	2D0	0
LCCADBCT	224	0	LCCAPRMT	53C	0	LCCASRBJ	2A0	0
LCCADCPU	2A4	0	LCCAPRTN	544	0	LCCASRBM	21D	80
LCCADSF1	21C	0	LCCAPSLI	700	0	LCCASREG	4D4	0
LCCADSF2	21D	0	LCCAPSMK	21E	0	LCCASRXM	550	0
LCCADSV1	228	0	LCCAPSW3	1D8	0	LCCASSRB	21D	20
LCCADSV2	22C	0	LCCAPTCB	540	0	LCCASTG1	478	0
LCCADSV3	230	0	LCCAPTE1	6BC	0	LCCASXMR	3E0	0
LCCADSV4	234	0	LCCAPTE3	75C	0	LCCATCAC	50B	40
LCCADSV5	238	0	LCCAPVAD	94	0	LCCATCFB	50B	0
LCCADSV6	23C	0	LCCAPVXM	94	80	LCCATCR0	250	0
LCCADS0M	220	0	LCCAPXM1	1B8	0	LCCATCTL	50B	80
LCCAE1R	240	0	LCCAPXM2	1C0	0	LCCATIMR	21C	10
LCCAE2R	244	0	LCCAPXM3	1C8	0	LCCATSPN	20C	10
LCCAE3R	248	0	LCCAPX1A	1BC	0	LCCAVARY	2B4	1
LCCAELKP	470	0	LCCAPX1K	1B8	0	LCCAVCPU	21C	40
LCCAEMS0	670	0	LCCAPX1P	1BE	0	LCCAWTIM	268	0
LCCAEND	760	0	LCCAPX1S	1BA	0	LCCAXGR1	630	0
LCCAERIS	20C	40	LCCAPX2A	1C4	0	LCCAXGR2	E0	0
LCCAETR	21D	8	LCCAPX2K	1C0	0	LCCAXGR3	120	0
LCCAETS	21D	10	LCCAPX2P	1C6	0	LCCAXPSW	618	0
LCCAEXSN	20C	1	LCCAPX2S	1C2	0	LCCAXPS2	748	0
LCCAFSSJ	36C	0	LCCAPX3A	1CC	0	LCCAXRC1	208	80
LCCAGSRB	21D	40	LCCAPX3K	1C8	0	LCCAXRC2	208	40
LCCAIHRC	208	0	LCCAPX3P	1CE	0	LCCAXTIM	628	0
LCCAIHR1	208	0	LCCAPX3S	1CA	0	LCCAXXM1	620	0
LCCAIHR2	209	0	LCCARCPU	2A8	0	LCCAXXM2	3C8	0
LCCAIHR3	20A	0	LCCARES1	50C	0	LCCAXXM3	3D0	0
LCCAIHR4	20B	0						

LCCAVT

COMMON NAME: Logical Configuration Communication Area Vector Table
MACRO ID: IHALCCAT
DSECT NAME: LCCAVT
CREATED BY: IEAVNIPO
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					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
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
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

CROSS-REFERENCE TABLE

<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>	<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>	<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>
LCCAT00P	0		LCCAT06P	18		LCCAT11P	2C	
LCCAT01P	4		LCCAT07P	1C		LCCAT12P	30	
LCCAT02P	8		LCCAT08P	20		LCCAT13P	34	
LCCAT03P	C		LCCAT09P	24		LCCAT14P	38	
LCCAT04P	10		LCCAT10P	28		LCCAT15P	3C	
LCCAT05P	14							

LCT

COMMON NAME: Linkage Control Table
 MACRO ID: IEFALLCT
 DSECT NAME: LCT
 CREATED BY: IEFS0160
 SUBPOOL AND KEY: 236 or 237 and key 1
 SIZE: 512 bytes
 POINTED TO BY: IEFLLCTAD 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					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	512	LCT	
0	(0)	ADDRESS	4	LCTQDRTY	
0	(0)	BITSTRING	1	*	RESERVED Y02652
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 Y02652
12	(C)	ADDRESS	4	LCTQENTY	
12	(C)	BITSTRING	1	*	
		1...		LCTTIMAB	TIMER ABEND HAS OCCURRED
		.1..		*	USED IN CONJUNCTION WITH NOSEP
		..1.		*	DEVICE WAIT RECOVERY
		...1		*	SPACE WAIT RECOVERY
		.... 1...		LCTTIMNG	ERROR HAS OCCURED DURING INITIATOR TIMING CALCULATIONS
		.... .1..		*	UNUSED
		.... ..1.		*	UNUSED
		.... ...1		LCTTERM	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 Y02669
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 Y02670
		1...		LCTJFAIL	IF ON, JOB FAILED Y02670
		.1..		LCTSALCD	IF ON, AT LEAST ONE STEP WAS ALLOCATED Y02670
		..1.		LCTPALCD	IF ON, THIS STEP PARTIALLY ALLOCATED Y02670
		...1		LCTSFAIL	IF ON, STEP BYPASSED Y02670
		.... 1...		LCTACOMP	IF ON ALLOCATION HAS BEEN COMPLETED BUT UNALLOCATION IS YET TO RUN. USED TO TEST FOR RETRY IN THE INIT ESTAE YM07219
		.... .1..		LCTJCFAL	ON IF JOB FAILED BECAUSE CONDITION CODES
		.... ..1.		LCTVTERM	ON IF ALLOC FAILED AND MSS SELECTS DONE
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	

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
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 Y02641
68	(44)	ADDRESS	2	LCTCOMD1	WARMSTART COMP. CODE Y02641
70	(46)	ADDRESS	2	LCTCOMD2	WARMSTART COMP. CODE Y02641
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 Y02656
		.1... ..		LCTPRIV	PROGRAM IS PRIVILEGED Y02655
		..1.		LCTPPAA	ISSUE MESSAGE FOR 'PROBLEM PROG. ATTRIBURES ASSIGNED' Y02656
		...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' Y02652
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	LCTMWRK	TIMER WORK AREA Y02669
80	(50)	SIGNED	4	LCTTJTU4	TOTAL JOB TIME USED Y02669
80	(50)	BITSTRING	1	*	RESERVED Y02669
81	(51)	UNSIGNED	3	LCTTJTU3	TOTAL JOB TIME USED Y02669
84	(54)	SIGNED	4	LCTTSTL4	STEP TIME LIMIT Y02669
84	(54)	BITSTRING	1	*	RESERVED Y02669
85	(55)	UNSIGNED	3	LCTTSTL3	STEP TIME LIMIT Y02669
88	(58)	SIGNED	4	LCTTSTR4	STEP TIME REMAINING Y02669
88	(58)	CHARACTER	4	LCTSMF	FOR SMF, PTR. TO JMR OR DEVICES USED Y02669
88	(58)	BITSTRING	1	LCTTMBYT	FLAG Y02669
		1... ..		LCTTTIFJ	TIME LIMIT IS FOR JOB Y02669
89	(59)	UNSIGNED	3	LCTTSTR3	STEP TIME REMAINING Y02669
92	(5C)	SIGNED	4	LCTTSTU4	STEP TIME USED Y02669
92	(5C)	BITSTRING	1	*	RESERVED Y02669
93	(5D)	UNSIGNED	3	LCTTSTU3	STEP TIME REMAINING Y02669
96	(60)	ADDRESS	4	LCTJOB LB	
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	4	REGSAVE (36)	
					ALLOC/TERM REGISTER SAVE AREA
248	(F8)	SIGNED	4	QMGR1 (9)	QUEUE MGR PARAMETER AREA
284	(11C)	CHARACTER	4	LCTSMFLG	FOR SMF USE AT JOB TERM

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
288	(120)	CHARACTER	8	LCTVFWRK	VF TIMER WORK AREA
288	(120)	SIGNED	4	LCTTVFUT	STEP VF USAGE TIME
292	(124)	SIGNED	4	LCTTVFAT	STEP VF AFFINITY TIME
296	(128)	CHARACTER	24	*	RESERVED
320	(140)	ADDRESS	4	LCTASCBA	ADDR OF CURRENT ASCB Y02669
324	(144)	SIGNED	4	LCTJMRAD	JMR ADDRESS Y02668
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 Y02669
348	(15C)	BITSTRING	1	*	RESERVED Y02669
349	(15D)	UNSIGNED	3	LCTTSRB3	STEP SRB TIME USED Y02669
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
		1... ..		LCTDPSWA	DO NOT SET 'DO NOT SHARE SWA' ON ATTACH Y02621
		.1.. ..		LCTDWFF	DO NOT PROCESS DEDICATED WORK FILE
		..1.		*	RESERVED Y02652
		...1		*	RESERVED Y02652
		.... 1...		LCTCANF	ALLOW CANCEL ONLY AT ALLOC
		.... .1..		LCTONEJF	STARTED TASK INDICATOR
		.... ..1.		*	RESERVED Y02652
		.... ...1		*	RESERVED Y02652
353	(161)	ADDRESS	3	LCTIELP	ADDRESS OF IEL
356	(164)	ADDRESS	4	*	RESERVED Y02652
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
		...1		*	PROGRAM NAME IEFSTRST IN SCT AFTER PPT PROCESSING
		.... 1...		*	RESERVED Y02652
		.... .1..		LCTBPRAC	BYPASS RACINIT
		.... ..1.		LCTNORC	BYPASS ALLOC. RECOVERY Y02652
		.... ...1		LCTENQU	DO NOT WAIT FOR DATA SETS
				*	RESERVED Y02652
357	(165)	ADDRESS	3		
360	(168)	ADDRESS	4	LCTJSCB	
360	(168)	BITSTRING	1	LCTOPSW3	INITIATOR OPTION BYTE THREE
		1... ..		*	RESERVED Y02652
		.1.. ..		LCTRDER	SPECIAL A/T PROCESSING FOR IEFRDER DD CARD
		..1.		LCTNSYS	DO NOT ASSIGN SPECIAL PROPERTIES Y02652
		...1		*	UNUSED
		.... 1...		LCTJNLF	JOURNALING REQUESTED
		.... .1..		LCTALERR	ERROR DURING ALLOCATION
		.... ..1.		*	RESERVED Y02652
		.... ...1		*	UNUSED
361	(169)	ADDRESS	3	LCTJSCBP	ADDRESS OF JSCB
364	(16C)	SIGNED	4	LCTDATA1	MULTI USE DATA FIELD
368	(170)	SIGNED	4	LCTDATA2	MULTI USE DATA FIELD
372	(174)	BITSTRING	1	LCTDATA3	MULTI USE DATA FIELD
373	(175)	BITSTRING	1	LCTDATA4	MULTI USE DATA FIELD
374	(176)	SIGNED	2	*	RESERVED
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

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
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 Y02653
404	(194)	ADDRESS	4	LCTSSOBA	ADDR OF SSOB FOR THIS TASKY02668
408	(198)	ADDRESS	4	LCTJCTDA	JCT SWA ADDRESS Y02652
408	(198)	ADDRESS	3	LCTJCTVA	JCT SWA VIRTUAL ADDRESS Y02652
411	(19B)	ADDRESS	1	*	RESERVED Y02652
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
		.... .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 Y02641
		..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		LCTRFBND	NON DEFERRED RESTART BIT FOR USE BY SMF EXCLUSIVELY. SET IN RESTART INTERFACE AND TURNED OFF DURING JOB TERMINATION
419	(1A3)	BITSTRING	1	LCTRFB1	RESERVED FOR WARMSTART/RESTART
420	(1A4)	ADDRESS	4	*	RESERVED Y02652
420	(1A4)	ADDRESS	1	LCTTSIZ	TO INFORM ALLCOATION OF SIZE OF MASTER SCHED. TIOT Y02641
421	(1A5)	BITSTRING	1	LCTINTS2	INTERNAL SWITCHES, BYTE 2. IT WILL BE CLEARED FOR EVERY STEP BY IEFSD101. Y02652
		1...		LCTSYS	SYSTEM TASK REQUESTED Y02652
		.1..		LCTBPPAS	BYPASS PASSWD PROTECT.
		..1.		LCTTSWPC	TRANSWAP COMPLETED
		...1		LCTATTC	INITATT HAS BEEN ISSUED (RESET AT INITDET TIME)
		.... 1...		LCTJSRGN	A REGION HAS BEEN OBTAINED FOR THE JOB STEP
		.... .1..		LCTSPREM	SPECIAL PROPERTIES ASSIGNED BUT THEN REMOVED BECAUSE JOBLIB OR STEPLIB NOT AUTHORIZED.
		.... ...1		*	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 Y02652
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 TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
ECBLIST	148		LCTJSCB	168		LCTSFAIL	20	10
LCT	0		LCTJSCBP	169		LCTSMBAD	3C	
LCTABEND	4C	02	LCTJSRGN	1A5	08	LCTSMF	58	
LCTACOMP	20	08	LCTLABEL	1F8		LCTSMFLG	11C	
LCTACTON	3B		LCTLBWAP	1AC		LCTSNOWK	1A0	40
LCTALCFG	152		LCTMFTIO	1A1	01	LCTSNUMB	3A	
LCTALERR	168	04	LCTMINRG	4C	10	LCTSPIL	150	
LCTASCBA	140		LCTMSGWT	152	40	LCTSPREM	1A5	04
LCTATLST	64		LCTNDSI	4C	01	LCTSREG	48	
LCTATTC	1A5	10	LCTNECBL	1A0	10	LCTSRTAD	4	
LCTBATMN	40		LCTNOATC	1A1	20	LCTSSOBA	194	
LCTBPPAS	1A5	40	LCTNOGCB	1A0	02	LCTSTART	4C	08
LCTBPRAC	164	04	LCTNORC	164	02	LCTSTATA	1A0	
LCTBTJOB	1A0	20	LCTNOREG	1A1	40	LCTSTATB	1A1	
LCTCANF	160	08	LCTNOSDP	1A0	04	LCTSTEPL	190	
LCTCKRST	164	20	LCTNPKEY	1A1	02	LCTSTIME	178	
LCTCLASS	154		LCTNREAD	1A1	08	LCTSTIND	38	
LCTCMCBA	34		LCTNSPAD	38		LCTSTOP	4C	04
LCTCOMCD	44		LCTNSWP	4D	10	LCTSUSPD	1A0	80
LCTCOMD1	44		LCTNSYS	168	20	LCTSYS	1A5	80
LCTCOMD2	46		LCTN2LP	4D	20	LCTSYSPL	18C	
LCTCPART	1A0	01	LCTODSFL	152	80	LCTS2COP	39	40
LCTCRF	164	40	LCTONEJF	160	04	LCTS2FES	39	20
LCTDATA1	16C		LCTOPSW1	160		LCTS2PEM	39	80
LCTDATA2	170		LCTOPSW2	164		LCTTAXT	17C	
LCTDATA3	174		LCTOPSW3	168		LCTTCBAD	8	
LCTDATA4	175		LCTPALCD	20	20	LCTTCPT	178	
LCTDPSWA	160	80	LCTPARM1	24		LCTTIMAB	C	80
LCTDSABQ	184		LCTPARM2	28		LCTTIMEF	164	80
LCTDSBCT	150		LCTPARM3	2C		LCTTIMNG	C	08
LCTDNFF	160	40	LCTPARM4	30		LCTTIOTI	19C	
LCTECBAD	148		LCTPIB	14C		LCTTIOTP	1A8	
LCTECBPB	1A1	80	LCTPPAA	4C	20	LCTTJTU3	51	
LCTENQU	164	01	LCTPRIV	4C	40	LCTTJTU4	50	
LCTENR	160		LCTPSPAR	1C		LCTTMBYT	58	
LCTERR	20		LCTPUBYT	4D		LCTTMWRK	50	
LCTERRM	C	01	LCTQDRTY	0		LCTTSIZ	1A4	
LCTERROR	20		LCTQENTY	C		LCTTSRB3	15D	
LCTEXIT	160		LCTRDER	168	40	LCTTSRB4	15C	
LCTIDENT	14C		LCTRFB	1A2		LCTTSTL3	55	
LCTIELP	161		LCTRFBCR	1A2	40	LCTTSTL4	54	
LCTIMSG	180		LCTRFBCD	1A2	10	LCTTSTR3	59	
LCTINPPT	4C	80	LCTRFBEF	1A2	04	LCTTSTR4	58	
LCTINTSW	4C		LCTRFBMS	1A2	08	LCTTSTU3	5D	
LCTINTS2	1A5		LCTRFBND	1A2	01	LCTTSTU4	5C	
LCTIWORK	188		LCTRFBRP	1A2	02	LCTTSWPC	1A5	20
LCTJCFAL	20	04	LCTRFBRV	1A2	20	LCTTTIFJ	58	80
LCTJCPIB	1A0	08	LCTRFBSM	1A2	80	LCTTVFAT	124	
LCTJCTAD	10		LCTRFB1	1A3		LCTTVFUT	120	
LCTJCTDA	198		LCTRTRN	48		LCTVFWRK	120	
LCTJCTVA	198		LCTSALCD	20	40	LCTVTERM	20	02
LCTJCTXB	188		LCTSAXT	184		LCTWORKA	18	
LCTJFAIL	20	80	LCTSBPOL	1A1	04	LCTWRITE	1A1	10
LCTJFCBH	39		LCTSCPT	180		LCT1LPU	4D	40
LCTJMRAD	144		LCTSCTAD	14		LCT2LPU	4D	80
LCTJNLF	168	08	LCTSCTDA	18		QMGR1	F8	
LCTJOBLE	60		LCTSCTVA	18		REGSAVE	68	

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LDA

COMMON NAME: VSM Local Data Area
 MACRO ID: IHALDA
 DSECT NAME: LDA
 CREATED BY: IEAIPL04, IGVGCAS
 SUBPOOL AND KEY: 255 and Key 0 (Residence - above 16M line)
 SIZE: 264 bytes
 POINTED TO BY: ASCBLDA, VSMK LDA
 SERIALIZATION: LOCAL lock
 FUNCTION: Contains control information about address space related virtual storage and VSM control block pointers.

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
0	(0)	STRUCTURE	264	LDA	LOCAL DATA AREA
0	(0)	CHARACTER	4	LDAID	CONTROL BLOCK IDENTIFIER
4	(4)	CHARACTER	24	LDAQANC	LSQA QUEUE ANCHORS
4	(4)	ADDRESS	4	LDAQAT	ADDRESS OF THE LSQA SQAT
8	(8)	ADDRESS	4	LDAAQAT	ADDRESS OF THE LSQA AQAT
12	(C)	CHARACTER	16	LDADFEQ	LSQA DFE QUEUE HEADER
12	(C)	ADDRESS	4	LDAADF	ADDRESS OF FIRST DFE ON THE LSQA ADDRESS QUEUE
16	(10)	ADDRESS	4	LDAADL	ADDRESS OF LAST DFE ON THE LSQA ADDRESS QUEUE
20	(14)	ADDRESS	4	LDAZF	ADDRESS OF FIRST DFE ON LSQA SIZE QUEUE
24	(18)	ADDRESS	4	LDAZSL	ADDRESS OF LAST DFE ON LSQA SIZE QUEUE
28	(1C)	CHARACTER	24	LDAEANC	LSQA QUEUE ANCHORS EXTENDED
28	(1C)	ADDRESS	4	LDAESQAT	ADDRESS OF THE LSQA SQAT
32	(20)	ADDRESS	4	LDAEAQAT	ADDRESS OF THE LSQA AQAT
36	(24)	CHARACTER	16	LDAEDFEQ	LSQA DFE QUEUE HEADER
36	(24)	ADDRESS	4	LDAEADF	ADDRESS OF FIRST DFE ON THE LSQA ADDRESS QUEUE
40	(28)	ADDRESS	4	LDAEADL	ADDRESS OF LAST DFE ON THE LSQA ADDRESS QUEUE
44	(2C)	ADDRESS	4	LDAESZF	ADDRESS OF FIRST DFE ON LSQA SIZE QUEUE
48	(30)	ADDRESS	4	LDAESZL	ADDRESS OF LAST DFE ON LSQA SIZE QUEUE
52	(34)	CHARACTER	16	LDAARD	ADDRESS SPACE REGION DESCRIPTOR
52	(34)	ADDRESS	4	LDAFBQAF	ADDRESS OF FIRST FBQE ON THE ADDRESS SPACE FBQE QUEUE
56	(38)	ADDRESS	4	LDAFBQAL	ADDRESS OF LAST FBQE ON THE ADDRESS SPACE FBQE QUEUE
60	(3C)	ADDRESS	4	LDASTRTA	LOW ADDRESS OF ADDRESS SPACE REGION
64	(40)	SIGNED	4	LDAISZA	SIZE OF ADDRESS SPACE REGION
68	(44)	CHARACTER	16	LDAEARD	ADDRESS SPACE REGION DESCRIPTOR EXTENDED
68	(44)	ADDRESS	4	LDAEFBAF	ADDRESS OF FIRST FBQE ON THE ADDRESS SPACE FBQE QUEUE
72	(48)	ADDRESS	4	LDAEFBAL	ADDRESS OF LAST FBQE ON THE ADDRESS SPACE FBQE QUEUE
76	(4C)	ADDRESS	4	LDAESTRA	LOW ADDRESS OF ADDRESS SPACE REGION
80	(50)	SIGNED	4	LDAESIZA	SIZE OF ADDRESS SPACE REGION
84	(54)	CHARACTER	16	LDA SRD	SYSTEM REGION DESCRIPTOR
84	(54)	ADDRESS	4	LDAFBQSF	ADDRESS OF THE FIRST FBQE ON THE SYSTEM REGION FBQE
88	(58)	ADDRESS	4	LDAFBQSL	ADDRESS OF THE LAST FBQE ON THE SYSTEM REGION FBQE
92	(5C)	ADDRESS	4	LDASTRTS	LOW ADDRESS OF SYSTEM REGION
96	(60)	SIGNED	4	LDAISZS	SIZE OF SYSTEM REGION
100	(64)	CHARACTER	16	LDAESRD	SYSTEM REGION DESCRIPTOR EXTENDED
100	(64)	ADDRESS	4	LDAEFBSF	ADDRESS OF THE FIRST FBQE ON THE SYSTEM REGION FBQE
104	(68)	ADDRESS	4	LDAEFBSL	ADDRESS OF THE LAST FBQE ON THE SYSTEM REGION FBQE
108	(6C)	ADDRESS	4	LDAESTRS	LOW ADDRESS OF SYSTEM REGION
112	(70)	SIGNED	4	LDAESIZS	SIZE OF SYSTEM REGION
116	(74)	CHARACTER	16	LDARRD	V=R REGION DESCRIPTOR
116	(74)	ADDRESS	4	LDAFBQRF	ADDRESS OF THE FIRST FBQE ON THE V=R REGION FBQE QUEUE
120	(78)	ADDRESS	4	LDAFBQRL	ADDRESS OF THE LAST FBQE ON THE V=R REGION FBQE QUEUE
124	(7C)	ADDRESS	4	LDASTRTR	LOW ADDRESS OF THE V=R REGION
128	(80)	SIGNED	4	LDAISZR	SIZE OF THE V=R REGION
132	(84)	CHARACTER	16	LDAERRD	V=R REGION DESCRIPTOR EXTENDED
132	(84)	ADDRESS	4	LDAEFBRF	ADDRESS OF THE FIRST FBQE ON THE V=R REGION FBQE QUEUE
136	(88)	ADDRESS	4	LDAEFBRL	ADDRESS OF THE LAST FBQE ON THE V=R REGION FBQE QUEUE
140	(8C)	ADDRESS	4	LDAESTRR	LOW ADDRESS OF THE V=R REGION
144	(90)	SIGNED	4	LDAESIZR	SIZE OF THE V=R REGION
148	(94)	ADDRESS	4	LDAAQATAD	ADDRESS OF AQAT TABLE ARRAY
152	(98)	ADDRESS	4	LDACRGTP	CURRENT HIGH ADDRESS OF PRIVATE AREA REGION
156	(9C)	ADDRESS	4	LDAERGTP	CURRENT HIGH ADDRESS OF PRIVATE AREA REGION EXTENDED
160	(A0)	ADDRESS	4	LDADEFQ	ADDRESS OF DEFERRED RELEASE QUEUE
164	(A4)	ADDRESS	4	LDAAQST	AQAT STACK POINTER
168	(A8)	CHARACTER	12	LDACPANC	LSQA CELL POOL HEADER

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
168	(A8)	ADDRESS	4	LDACPADR	ADDRESS OF LSQA CELL POOL
172	(AC)	SIGNED	4	LDACPCNT	NUMBER OF FREE CELLS IN LSQA CELL POOL
176	(B0)	ADDRESS	4	LDAFCADR	ADDRESS OF FIRST FREE CELL IN LSQA CELL POOL
180	(B4)	ADDRESS	4	LDAWRKA	ADDRESS OF LOCAL WORK AREA
184	(B8)	ADDRESS	4	LDAASCB	ADDRESS OF ASCB FOR THIS ADDRESS SPACE
188	(BC)	ADDRESS	4	LDAPPD	ADDRESS OF LOCAL PPD QUEUE
192	(C0)	CHARACTER	4	*	RESERVED
196	(C4)	CHARACTER	1	LDAFLGS	MISC. FLAGS
		1... ..		LDADFER	IF ONE DEFERRED RELEASE CONDITION EXISTS
		.1... ..		LDADDEFD	IF ONE FREE ASSOCIATED PAGE EXISTS
197	(C5)	CHARACTER	3	*	RESERVED
200	(C8)	CHARACTER	24	LDASIZES	MISC. SIZES
200	(C8)	CHARACTER	1	LDAUFLGS	USER FLAGS
		1... ..		LDALIMCL	IF ZERO CALL IEALIMIT ROUTINE
		.1... ..		LDAULIM	IF ZERO DO FBQE CHECK BELOW 16M
		..1... ..		LDAEULIM	IF ONE DO FBQE CHECK ABOVE 16M
201	(C9)	CHARACTER	3	*	RESERVED
204	(CC)	SIGNED	4	LDAREGRQ	REGION SIZE REQUESTED
208	(D0)	ADDRESS	4	LDALIMIT	< 16M V=V REGION LIMIT VALUE
212	(D4)	ADDRESS	4	LDAVVRG	< 16M V=V REGION HIGH VALUE
216	(D8)	ADDRESS	4	LDAELIM	> 16M V=V REGION LIMIT VALUE
220	(DC)	ADDRESS	4	LDAEVVRG	> 16M V=V REGION HIGH VALUE
224	(E0)	CHARACTER	8	LDANONFM	NON FREEMAINABLE PRIVATE AREAS
224	(E0)	CHARACTER	8	LDASM	NON FREEMAINABLE STORAGE MANAGEMENT AREA
224	(E0)	ADDRESS	4	LDASMAD	ADDRESS OF AREA
228	(E4)	SIGNED	4	LDASMSZ	SIZE OF AREA
232	(E8)	CHARACTER	16	LDAALLOC	ALLOCATION VALUES
232	(E8)	UNSIGNED	4	LDALOAL	< 16M USER REGION ALLOC VALUE
236	(EC)	UNSIGNED	4	LDAHIAL	< 16M AUTH REGION ALLOC VALUE
240	(F0)	UNSIGNED	4	LDAELOAL	> 16M USER REGION ALLOC VALUE
244	(F4)	UNSIGNED	4	LDAEHIAL	> 16M AUTH REGION ALLOC VALUE
248	(F8)	CHARACTER	16	LDASMF	LIMIT VALUES SET BY SMF
248	(F8)	UNSIGNED	4	LDASMFL	< 16M V=V SMF LDALIMIT VALUE
252	(FC)	UNSIGNED	4	LDASMFR	< 16M V=V SMF LDAVVRG VALUE
256	(100)	UNSIGNED	4	LDASMFL	> 16M V=V SMF LDAELIM VALUE
260	(104)	UNSIGNED	4	LDASMFEL	> 16M V=V SMF LDAELIM VALUE
260	(104)	UNSIGNED	4	LDASMFEL	> 16M V=V SMF LDAEVVRG VALUE
264	(108)	CHARACTER		LDAEND	END OF LDA

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
LDA	0		LDAELIM	D8		LDALOAL	E8	
LDAADF	C		LDAELOAL	F0		LDANONFM	E0	
LDAADL	10		LDAEND	108		LDAPPD	BC	
LDAALLO	E8		LDAERGTP	9C		LDQANC	4	
LDAAQAT	8		LDAERRD	84		LDAREGRQ	CC	
LDAAQATD	94		LDAESIZA	50		LDARRD	74	
LDAAQST	A4		LDAESIZR	90		LDASIZA	40	
LDAARD	34		LDAESIZS	70		LDASIZES	C8	
LDAASCB	B8		LDAESQAT	1C		LDASIZR	80	
LDACPADR	A8		LDAESRD	64		LDASIZS	60	
LDACPANC	A8		LDAESTRA	4C		LDASM	E0	
LDACPCNT	AC		LDAESTRR	8C		LDASMAD	E0	
LDACRGTP	98		LDAESTRS	6C		LDASMF	F8	
LDADEFED	C4	40	LDAESZF	2C		LDASMFEL	100	
LDADEFER	C4	80	LDAESZL	30		LDASMFER	104	
LDADEFQ	A0		LDAEULIM	C8	20	LDASMFL	F8	
LDADFEQ	C		LDAEVVRG	DC		LDASMFR	FC	
LDAEADF	24		LDAFBQAF	34		LDASMSZ	E4	
LDAEADL	28		LDAFBQAL	38		LDASQAT	4	
LDAEANC	1C		LDAFBQRF	74		LDASRD	54	
LDAEAQAT	20		LDAFBQRL	78		LDASTRTR	3C	
LDAEARD	44		LDAFBQSF	54		LDASTRTR	7C	
LDAEDFEQ	24		LDAFBQSL	58		LDASTRTR	5C	
LDAEFBAF	44		LDAFCADR	B0		LDASZF	14	
LDAEFBAL	48		LDAFLGS	C4		LDASZL	18	
LDAEFBRF	84		LDAHIAL	EC		LDAUFLGS	C8	
LDAEFBRL	88		LDAID	0		LDAULIM	C8	40
LDAEFBSF	64		LDALIMCL	C8	80	LDAVVRG	D4	
LDAEFBSL	68		LDALIMIT	D0		LDAWRKA	B4	
LDAEHIAL	F4							

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LGE

COMMON NAME: ASM Logic Group Element
 MACRO ID: ILRLGE
 DSECT NAME: LGE
 CREATED BY: ILRGOS
 SUBPOOL AND KEY: 245 and Key 0 (Residence - above 16M line)
 SIZE: 32 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
 ASPLGE field of the ASPCT data area
 ACELGE field of the ACE data area
 AIALGE field of the AIA 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
DEC	HEX				
0	(0)	STRUCTURE	32	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 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)	CHARACTER	2	*	RESERVED
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 IDENTIFIER FOR THIS LGE
24	(18)	SIGNED	4	LGESLTCT	NUMBER OF SLOTS ASSIGNED TO THIS ADDRESS SPACE, OR FREED DURING GROUP OPERATION PROCESSING
28	(1C)	CHARACTER	4	*	RESERVED
32	(20)	CHARACTER		*	

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
LGE	0		LGEPROCF	0		LGERSV5	8	01
LGEASPCT	C		LGEPROCL	4		LGESAVRQ	8	10
LGEFLAG1	8		LGEPROCQ	0		LGESLTCT	18	
LGEGRINP	8	40	LGERELLG	8	20	LGEMRKP	8	80
LGELGID	14		LGERSV3	8	04	LGEXMLG	8	08
LGENEXT	10		LGERSV4	8	02			

LGVT

COMMON NAME: ASM Logical Group Vector Table
 MACRO ID: ILRLGVT
 DSECT NAME: LGVT
 CREATED BY: ILRASRIM
 SUBPOOL AND KEY: 245 and Key 0 (Residence - above 16M line)
 SIZE: 1024 bytes
 POINTED TO BY: ASMLGVT field of the ASMVT data area
 LGVLGVEP field of the LGVT data area points to a LGVTE
 LGVENEXT field of the LGVTE data area points to a LGVTE
 SERIALIZATION: The ASMGL 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					
DEC	HEX	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	LGVSZIE	CURRENT SIZE OF LGVT IN BYTES
16	(10)	CHARACTER	8	LGVENTRS (*)	
					LGVT ENTRIES
0	(0)	STRUCTURE	8	LGVTE	LOGICAL GROUP VECTOR TABLE ENTRY
0	(0)	CHARACTER	8	LGVLGVEP	LGVTE, THE NUMBER OF CONTIGUOUS LGVTES IS SPECIFIED BY THE LGVMAXLG FIELD
0	(0)	ADDRESS	4	LGVELGEP	ADDRESS OF LGE FOR THIS LG
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

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
LGVEASCB	4		LGVENTRS	10		LGVMAXLG	8	
LGVELGEP	0		LGVIDENT	0		LGVSIZE	C	
LGVELGID	4		LGVLGVEP	4		LGVT	0	
LGVENEXT	0		LGVLGVT	0		LGVTE	0	

LKPT

COMMON NAME: Lock Manager Parameter List Table
 MACRO ID: IHALKPT
 DSECT NAME: LKPT
 CREATED BY: IEAVELIT
 SUBPOOL AND KEY: Nucleus resident
 SIZE: 368 bytes
 POINTED TO BY: PSALKPT
 SERIALIZATION: Disablement if using the mapping macro in conjunction with the 'SETLOCK (TEST) TYPE (HIER)' option and testing for a disabled spin lock, also no disablement required.
 FUNCTION: To be used with the 'SETLOCK (TEST) TYPE (HIER)' request to determine if a lock higher than a user specified lock is held.

OFFSETS						
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION	
0	(0)	STRUCTURE	368	LKPT	SETLOCK'S PARAMETER LIST	
0	(0)	CHARACTER	16	LKPTDISP	DISPATCHER LOCK	
0	(0)	SIGNED	4	LKPTDSPC	CLHT OFFSET	
4	(4)	UNSIGNED	4	LKPTDSPO	OBTAIN MASK	
8	(8)	UNSIGNED	4	LKPTDSPH	HIERARCHY MASK	
12	(C)	UNSIGNED	4	LKPTDSPR	RELEASE MASK	
16	(10)	CHARACTER	16	LKPTUCB	IOSUCB LOCK	
16	(10)	SIGNED	4	LKPTUCBC	CLHT OFFSET	
20	(14)	UNSIGNED	4	LKPTUCBO	OBTAIN MASK	
24	(18)	UNSIGNED	4	LKPTUCBH	HIERARCHY MASK	
28	(1C)	UNSIGNED	4	LKPTUCBR	RELEASE MASK	
32	(20)	CHARACTER	16	LKPTSYN	IOSYNCH LOCK	
32	(20)	SIGNED	4	LKPTSYNC	CLHT OFFSET	
36	(24)	UNSIGNED	4	LKPTSYNO	OBTAIN MASK	
40	(28)	UNSIGNED	4	LKPTSYNH	HIERARCHY MASK	
44	(2C)	UNSIGNED	4	LKPTSYNR	RELEASE MASK	
48	(30)	CHARACTER	16	LKPTNCB	TPNCB LOCK	
48	(30)	SIGNED	4	LKPTNCBC	CLHT OFFSET	
52	(34)	UNSIGNED	4	LKPTNCBO	OBTAIN MASK	
56	(38)	UNSIGNED	4	LKPTNCBH	HIERARCHY MASK	
60	(3C)	UNSIGNED	4	LKPTNCBR	RELEASE MASK	
64	(40)	CHARACTER	16	LKPTDNC	TPDNCB LOCK	
64	(40)	SIGNED	4	LKPTDNCC	CLHT OFFSET	
68	(44)	UNSIGNED	4	LKPTDNCO	OBTAIN MASK	
72	(48)	UNSIGNED	4	LKPTDNCH	HIERARCHY MASK	
76	(4C)	UNSIGNED	4	LKPTDNCR	RELEASE MASK	
80	(50)	CHARACTER	16	LKPTACB	TPACBDEB LOCK	
80	(50)	SIGNED	4	LKPTACBC	CLHT OFFSET	
84	(54)	UNSIGNED	4	LKPTACBO	OBTAIN MASK	
88	(58)	UNSIGNED	4	LKPTACBH	HIERARCHY MASK	
92	(5C)	UNSIGNED	4	LKPTACBR	RELEASE MASK	
96	(60)	CHARACTER	16	LKPTASM	ASM LOCK	
96	(60)	SIGNED	4	LKPTASMC	CLHT OFFSET	
100	(64)	UNSIGNED	4	LKPTASMO	OBTAIN MASK	
104	(68)	UNSIGNED	4	LKPTASMH	HIERARCHY MASK	
108	(6C)	UNSIGNED	4	LKPTASMR	RELEASE MASK	
112	(70)	CHARACTER	16	LKPTSALL	SALLOC LOCK	
112	(70)	SIGNED	4	LKPTSALC	CLHT OFFSET	
116	(74)	UNSIGNED	4	LKPTSALO	OBTAIN MASK	
120	(78)	UNSIGNED	4	LKPTSALH	HIERARCHY MASK	
124	(7C)	UNSIGNED	4	LKPTSALR	RELEASE MASK	
128	(80)	CHARACTER	16	LKPTSARM	SRM LOCK	
128	(80)	SIGNED	4	LKPTSARMC	CLHT OFFSET	
132	(84)	UNSIGNED	4	LKPTSARMO	OBTAIN MASK	
136	(88)	UNSIGNED	4	LKPTSARMH	HIERARCHY MASK	
140	(8C)	UNSIGNED	4	LKPTSARMR	RELEASE MASK	
144	(90)	CHARACTER	16	LKPTLOCL	LOCAL LOCK	
144	(90)	SIGNED	4	LKPTLCLC	CLHT OFFSET	
148	(94)	UNSIGNED	4	LKPTLCLO	OBTAIN MASK	
152	(98)	UNSIGNED	4	LKPTLCLH	HIERARCHY MASK	
156	(9C)	UNSIGNED	4	LKPTLCLR	RELEASE MASK	
160	(A0)	CHARACTER	16	LKPTCML	CML LOCK	
160	(A0)	SIGNED	4	LKPTCMLC	CLHT OFFSET	

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
164	(A4)	UNSIGNED	4	LKPTCMLO	OBTAIN MASK
168	(A8)	UNSIGNED	4	LKPTCMLH	HIERARCHY MASK
172	(AC)	UNSIGNED	4	LKPTCMLR	RELEASE MASK
176	(B0)	CHARACTER	16	LKPTCMS	CMS LOCK
176	(B0)	SIGNED	4	LKPTCMSC	CLHT OFFSET
180	(B4)	UNSIGNED	4	LKPTCMSO	OBTAIN MASK
184	(B8)	UNSIGNED	4	LKPTCMSH	HIERARCHY MASK
188	(BC)	UNSIGNED	4	LKPTCMSR	RELEASE MASK
192	(C0)	CHARACTER	16	LKPTRACE	TRACE LOCK
192	(C0)	SIGNED	4	LKPTRCEC	CLHT OFFSET
196	(C4)	UNSIGNED	4	LKPTRCEO	OBTAIN MASK
200	(C8)	UNSIGNED	4	LKPTRCEH	HIERARCHY MASK
204	(CC)	UNSIGNED	4	LKPTRCER	RELEASE MASK
208	(D0)	CHARACTER	16	LKPTVPAG	VSMPAG LOCK
208	(D0)	SIGNED	4	LKPTVSPC	CLHT OFFSET
212	(D4)	UNSIGNED	4	LKPTVSPO	OBTAIN MASK
216	(D8)	UNSIGNED	4	LKPTVSPH	HIERARCHY MASK
220	(DC)	UNSIGNED	4	LKPTVSPR	RELEASE MASK
224	(E0)	CHARACTER	16	LKPTRSM	RSM LOCK
224	(E0)	SIGNED	4	LKPTRSMC	CLHT OFFSET
228	(E4)	UNSIGNED	4	LKPTRSMO	OBTAIN MASK
232	(E8)	UNSIGNED	4	LKPTRSMH	HIERARCHY MASK
236	(EC)	UNSIGNED	4	LKPTRSMR	RELEASE MASK
240	(F0)	CHARACTER	16	LKPTRSM A	RSMAD LOCK
240	(F0)	SIGNED	4	LKPTRADC	CLHT OFFSET
244	(F4)	UNSIGNED	4	LKPTRADO	OBTAIN MASK
248	(F8)	UNSIGNED	4	LKPTRADH	HIERARCHY MASK
252	(FC)	UNSIGNED	4	LKPTRADR	RELEASE MASK
256	(100)	CHARACTER	16	LKPTRSMX	RSMXM LOCK
256	(100)	SIGNED	4	LKPTRXMC	CLHT OFFSET
260	(104)	UNSIGNED	4	LKPTRXMO	OBTAIN MASK
264	(108)	UNSIGNED	4	LKPTRXMH	HIERARCHY MASK
268	(10C)	UNSIGNED	4	LKPTRXMR	RELEASE MASK
272	(110)	CHARACTER	16	LKPTRSMS	RSMST LOCK
272	(110)	SIGNED	4	LKPTRSTC	CLHT OFFSET
276	(114)	UNSIGNED	4	LKPTRSTO	OBTAIN MASK
280	(118)	UNSIGNED	4	LKPTRSTH	HIERARCHY MASK
284	(11C)	UNSIGNED	4	LKPTRSTR	RELEASE MASK
288	(120)	CHARACTER	16	LKPTASMG	ASMGL LOCK
288	(120)	SIGNED	4	LKPTASGC	CLHT OFFSET
292	(124)	UNSIGNED	4	LKPTASGO	OBTAIN MASK
296	(128)	UNSIGNED	4	LKPTASGH	HIERARCHY MASK
300	(12C)	UNSIGNED	4	LKPTASGR	RELEASE MASK
304	(130)	CHARACTER	16	LKPTVFIX	VSMFIX LOCK
304	(130)	SIGNED	4	LKPTVSFC	CLHT OFFSET
308	(134)	UNSIGNED	4	LKPTVSFO	OBTAIN MASK
312	(138)	UNSIGNED	4	LKPTVSFH	HIERARCHY MASK
316	(13C)	UNSIGNED	4	LKPTVSFR	RELEASE MASK
320	(140)	CHARACTER	16	LKPTRSMG	RSMGL LOCK
320	(140)	SIGNED	4	LKPTRGLC	CLHT OFFSET
324	(144)	UNSIGNED	4	LKPTRGLO	OBTAIN MASK
328	(148)	UNSIGNED	4	LKPTRGLH	HIERARCHY MASK
332	(14C)	UNSIGNED	4	LKPTRGLR	RELEASE MASK
336	(150)	CHARACTER	16	LKPTCPU	CPU LOCK
336	(150)	SIGNED	4	LKPTCPUC	CLHT OFFSET
340	(154)	UNSIGNED	4	LKPTCPUO	OBTAIN MASK
344	(158)	UNSIGNED	4	LKPTCPUH	HIERARCHY MASK
348	(15C)	UNSIGNED	4	LKPTCPUR	RELEASE MASK
352	(160)	CHARACTER	16	LKPTRCM	RSMCM LOCK
352	(160)	SIGNED	4	LKPTRCMC	CLHT OFFSET
356	(164)	UNSIGNED	4	LKPTRCMO	OBTAIN MASK
360	(168)	UNSIGNED	4	LKPTRCMH	HIERARCHY MASK
364	(16C)	UNSIGNED	4	LKPTRCMR	RELEASE MASK

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
LKPT	0		LKPTDSPO	4		LKPTRSTC	110	
LKPTACB	50		LKPTDSPR	C		LKPTRSTH	118	
LKPTACBC	50		LKPTLCLC	90		LKPTRSTO	114	
LKPTACBH	58		LKPTLCLH	98		LKPTRSTR	11C	
LKPTACBO	54		LKPTLCL0	94		LKPTRXMC	100	
LKPTACBR	5C		LKPTLCLR	9C		LKPTRXMH	108	
LKPTASGC	120		LKPTLOCL	90		LKPTRXMO	104	
LKPTASGH	128		LKPTNCB	30		LKPTRXMR	10C	
LKPTASGO	124		LKPTNCBC	30		LKPTSALC	70	
LKPTASGR	12C		LKPTNCBH	38		LKPTSALH	78	
LKPTASM	60		LKPTNCBO	34		LKPTSALL	70	
LKPTASMC	60		LKPTNCBR	3C		LKPTSALO	74	
LKPTASMG	120		LKPTRACE	C0		LKPTSALR	7C	
LKPTASMH	68		LKPTRADC	F0		LKPTSRM	80	
LKPTASMO	64		LKPTRADH	F8		LKPTSRMC	80	
LKPTASMR	6C		LKPTRADO	F4		LKPTSRMH	88	
LKPTCML	A0		LKPTRADR	FC		LKPTSRMO	84	
LKPTCMLC	A0		LKPTRCEC	C0		LKPTSRMR	8C	
LKPTCMLH	A8		LKPTRCEH	C8		LKPTSYN	20	
LKPTCMLO	A4		LKPTRCEO	C4		LKPTSYNC	20	
LKPTCMLR	AC		LKPTRCER	CC		LKPTSYNH	28	
LKPTCMS	B0		LKPTRCM	160		LKPTSYNO	24	
LKPTCMSC	B0		LKPTRCMC	160		LKPTSYNR	2C	
LKPTCMSH	B8		LKPTRCMH	168		LKPTUCB	10	
LKPTCMSO	B4		LKPTRCMO	164		LKPTUCBC	10	
LKPTCMSR	BC		LKPTRCMR	16C		LKPTUCBH	18	
LKPTCPU	150		LKPTRGLC	140		LKPTUCBO	14	
LKPTCPUC	150		LKPTRGLH	148		LKPTUCBR	1C	
LKPTCPUH	158		LKPTRGLO	144		LKPTVFIX	130	
LKPTCPUO	154		LKPTRGLR	14C		LKPTVPAG	D0	
LKPTCPUR	15C		LKPTRSM	E0		LKPTVSFC	130	
LKPTDISP	0		LKPTRSMA	F0		LKPTVSFH	138	
LKPTDNC	40		LKPTRSMC	E0		LKPTVSFO	134	
LKPTDNCC	40		LKPTRSMG	140		LKPTVSFR	13C	
LKPTDNCH	48		LKPTRSMH	E8		LKPTVSPC	D0	
LKPTDNCO	44		LKPTRSMO	E4		LKPTVSPH	D8	
LKPTDNCR	4C		LKPTRSMR	EC		LKPTVSP0	D4	
LKPTDSPC	0		LKPTRSMS	110		LKPTVSPR	DC	
LKPTDSPH	8		LKPTRSMX	100				

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LLE

COMMON NAME: Load List Element
MACRO ID: IHALLE
DSECT NAME: LLE
CREATED BY: Contents Supervisor (CSVSBRTN)
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					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	12	LLE	
0	(0)	ADDRESS	4	LLECHN	ADDRESS OF NEXT ELEMENT ON LOAD LIST
4	(4)	ADDRESS	4	LLECDPT	ADDRESS OF CDE FOR MODULE
8	(8)	ADDRESS	2	LLECOUNT	RESPONSIBILITY COUNT. THE TOTAL NUMBER OF REQUESTS FOR THE MODULE VIA THE LOAD MACRO INSTRUCTION.
10	(A)	ADDRESS	2	LLESYSCT	SYSTEM RESPONSIBILITY COUNT. THE NUMBER OF REQUESTS FOR THE MODULE VIA THE LOAD MACRO INSTRUCTION.

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LLT

COMMON NAME: Link List Table
 MACRO ID: IHALLT
 DSECT NAME: LLT
 CREATED BY: NIP Module IEAVNP03
 SUBPOOL AND KEY: Subpool 245 and key 0
 SIZE: 8 character header; variable number of 45 character entries
 POINTED TO BY: CVTLLTA field of the CVT data area
 SERIALIZATION: None
 FUNCTION: Provides a mapping for the table of data sets that comprise the link list concatenation.

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
0	(0)	STRUCTURE	8	LLT	
0	(0)	CHARACTER	8	LLTHEAD	TABLE HEADER
0	(0)	CHARACTER	4	LLTID	TABLE ID 'LLT '
4	(4)	SIGNED	4	LLTCOUNT	NUMBER OF ENTRIES IN TABLE
8	(8)	CHARACTER	45	LLTENTRY (*)	ENTRIES IN TABLE
8	(8)	UNSIGNED	1	LLTDSLTH	LENGTH OF DATASET NAME
9	(9)	CHARACTER	44	LLTDSN	DATASET NAME
0	(0)	STRUCTURE		LLTAPFTB	LNLKST APF libraries table.
0	(0)	CHARACTER	1	LLTANTRY (*)	LNLKST data set entries
0	(0)	CHARACTER	1	LLTAFLGS	Flag byte
		1...		LLTAPFIN	Library is in APF table
		.111 1111		LLTARSV1	Reserved

CROSS-REFERENCE TABLE

<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>	<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>	<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>
LLT	0		LLTAPFTB	0		LLTDSN	9	
LLTAFLGS	0		LLTARSV1	0	40	LLTENTRY	8	
LLTANTRY	0		LLTCOUNT	4		LLTHEAD	0	
LLTAPFIN	0	80	LLTDSLTH	8		LLTID	0	

LOGR

COMMON NAME Message Log Routine Input Parameter List
MACRO ID CBPZLOGR
CREATED BY Modules that call CBPMLGR (MVSCP Message Log Routine)
SUBPOOL AND KEY Contained within the calling module
SIZE 24 bytes
POINTED TO BY Upon entry to CBPMLGR, register 1 points to a two-word parameter list. The second word in
 the parameter list points to CBPZLOGR.
SERIALIZATION None
FUNCTION CBPZLOGR maps the input parameters of the message log routine (CBPMLGR).

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	24	LOGR	Message Log Routine Input Parameter List header
0	(0)	CHARACTER	7	LOGRMID	Message identifier
7	(7)	CHARACTER	1	LOGRSEV	Severity level (Informational, Warning, Error, Terminating)
8	(8)	CHARACTER	6	LOGRSTMT	MVSCP Statement number
14	(E)	SIGNED	2	LOGRMLN	Message text length
16	(10)	ADDRESS	4	LOGRTXTP	Message text pointer
20	(14)	UNSIGNED	1	LOGRFUNC	Function Code
21	(15)	CHARACTER	3	*	Reserved
24	(18)	CHARACTER		LOGREND	End of LOGR.

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LPAL

COMMON NAME LPA Device Support Module List
MACRO ID IOSDLPAL
CREATED BY IEAIPL40 (IRIM to Identify the Device Support Modules)
SUBPOOL AND KEY Built in the IPL work space
Copied into the extended SQA for NIP processing
SIZE Variable length
POINTED TO BY IVTLPALP field of the IVT data area during IPL processing
NVTLPALP field of the NVT data area during NIP processing
SERIALIZATION None
FUNCTION The LPA Device Support Module List contains the list of the LPA device support modules that are required to support the devices in the current I/O configuration.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	8	LPAL	LPA Device Support Module List
0	(0)	CHARACTER	4	LPALID	LPA List identifier ('LPAL')
4	(4)	SIGNED	4	LPALCNT	Count of module names in list
8	(8)	CHARACTER	8	LPALNAME (*)	List of LPA module names in ascending alpha numeric order

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LPAT

COMMON NAME: LPALST Table
MACRO ID: IHALPAT
DSECT NAME: LPAT
CREATED BY: Program Manager RIM (IEAVNP05)
SUBPOOL AND KEY: 252 and key 0
SIZE: 8 character header; variable number of 45 character entries.
POINTED TO BY: CVTEPLPS field of the CVT data area
SERIALIZATION: None
FUNCTION: The LPAT lists the data sets that are included in the LPALST concatenation.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	8	LPAT	
0	(0)	CHARACTER	8	LPATHDR	Header section
0	(0)	CHARACTER	4	LPATID	Table id 'LPAT'
4	(4)	SIGNED	4	LPATCNT	Number of entries in table
8	(8)	CHARACTER	45	LPATNTRY (*)	Table entry
8	(8)	UNSIGNED	1	LPATDSLN	Length of data set name
9	(9)	CHARACTER	44	LPATDSN	Data set name

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LPBT

COMMON NAME: Table of Logical Path Control Blocks
 MACRO ID: IRALPBT
 DSECT NAME: LPBT
 CREATED BY: IEAVNPIF
 SUBPOOL AND KEY: 245 and Key 0 (Residence - above 16M line)
 SIZE: 16 + 32 x (number of LPBs)
 POINTED TO BY: CMCTLPBT field of the CMCT data area
 SERIALIZATION: SRM lock
 FUNCTION: The LPBT is a contiguous storage area used by SRM to contain the logical path information.

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
0	(0)	STRUCTURE	12	LPBT	
0	(0)	CHARACTER	12	LPBTHDR	
0	(0)	CHARACTER	4	LPBTNAME	ACRONYM 'LPBT'
4	(4)	SIGNED	4	LPBTSIZE	NO. OF BYTES IN LPBT
8	(8)	SIGNED	2	LPBTLAST	OFFSET TO LAST USED LPB
10	(A)	CHARACTER	2	LPBTRSV1	RESERVED
0	(0)	STRUCTURE	36	LPB	LOGICAL PATH BLOCK
0	(0)	BITSTRING	8	LPBID	LOGICAL PATH BLOCK IDENTIFIER MASK
8	(8)	UNSIGNED	4	LPBWORK	WORK AREA
12	(C)	SIGNED	2	LPBCPUT	LPB UTILIZATION, DERIVED FROM CPID UTILIZATIONS IN PERCENT TIMES 100
14	(E)	SIGNED	2	LPBCONNP	PERCENT CONNECTION TIME FOR ALL DEVICES USING THIS LPB IN PERCENT TIMES 100
16	(10)	UNSIGNED	1	LPBCLASS	DEVICE CLASS INDEX TO SELECT LPB THRESHOLDS
17	(11)	BITSTRING	1	LPBFLG	FLAGS
		1... ..		LPBDAREQ	CHPID DATA REQUESTED
		.1.. ..		LPBOUTIL	LPB IS OVERUTILIZED
		..1.		LPBUUTIL	LPB IS UNDERUTILIZED
		...1		LPBDAVAL	DEVICE ALLOCATION DATA (LPB UTILIZATION) IS VALID
		.... 1...		LPBLBVAL	LOAD BALANCER DATA (PERCENT CONNECTION TIME) IS VALID
		.... .111		*	RESERVED
18	(12)	SIGNED	2	LPBRVUF	LPB UTILIZATION FACTOR FOR COMPUTING RECOMMENDATION VALUES
20	(14)	SIGNED	2	LPBCPIDO (8)	ARRAY OF 8, 2 BYTE ENTRIES HAVING OFFSETS INTO THE CPMT (0 VALUE MEANS NO ENTRY)

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
LPB	0		LPBFLG	11		LPBTLAST	8	
LPBCCLASS	10		LPBID	0		LPBTNAME	0	
LPBCONNP	E		LPBLBVAL	11	08	LPBTRSV1	A	
LPBCPIDO	14		LPBOUTIL	11	40	LPBTSIZE	4	
LPBCPUT	C		LPBRVUF	12		LPBUUTIL	11	20
LPBDAREQ	11	80	LPBT	0		LPBWORK	8	
LPBDAVAL	11	10	LPBTHDR	0				

LPDE

COMMON NAME: Link Pack Directory Entry
 MACRO ID: IHALPDE
 DSECT NAME: LPDE
 CREATED BY: Contents Supervisor RIM (IEAVNPC5)
 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)
 LLECDPT field of the LLE data area
 RBCDE1 field of the RB data area
 RBCDE field of the SVRB data area
 RBCDE field of the PRB data area
 LPDEMJP field of the LPDE data area

SERIALIZATION: None
 FUNCTION: Each LPDE represents a particular load module which is loaded into the pageable link pack area.

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
0	(0)	STRUCTURE	40	LPDE	
0	(0)	ADDRESS	4	LPDECHN	ADDRESS OF NEXT LPDE IN CHAIN OF LPDE SYNONYMS
4	(4)	ADDRESS	4	LPDERBP	RESERVED
8	(8)	CHARACTER	8	LPDENAME	EITHER MODULE NAME OR ALIAS NAME
16	(10)	ADDRESS	4	LPDENTP	RELOCATED ENTRY POINT ADDRESS
		1... ..		LPDEMODE	ROUTINE RUNS IN 31 BIT MODE
20	(14)	ADDRESS	4	LPDEMJP	POINTER TO THE MAJOR LPDE IF THIS IS A MINOR LPDE, OTHERWISE ZERO
24	(18)	ADDRESS	2	LPDEUSE	COUNT FIELD COUNT IS 1
26	(1A)	CHARACTER	1	LPDEATTB	ATTRIBUTE FLAGS
		1... ..		LPDEOM	END OF MEMORY OPTION FOR A CDE MUST BE ZERO FOR AN LPDE
		.111		*	RESERVED
		.... 1...		LPDELPDE	LPDE IDENTIFIER BIT MUST BE ON IN AN LPDE AND OFF IN A CDE
		.... .111		*	RESERVED
27	(1B)	CHARACTER	1	LPDESP	SUBPOOL FIELD FOR A CDE MUST BE ZERO FOR AN LPDE
28	(1C)	CHARACTER	1	LPDEATTR	ATTRIBUTE FLAGS
		1... ..		LPDENIP	MODULE LOADED BY NIP
		.1.		LPDENIC	NOT IN CORE BIT FOR A CDE MUST BE ZERO FOR AN LPDE
		..1.		LPDEREN	MODULE IS REENTERABLE
		...1		LPDESER	MODULE IS SERIALLY REUSABLE
		.... 1...		LPDENFN	NON FUNCTIONAL INDICATOR FLAG FOR A CDE MUST BE ZERO FOR AN LPDE
		.... .1..		LPDEMIN	THIS IS A MINOR LPDE
		.... ..1.		LPDEJPA	JOB PACK AREA MODULE INDICATOR MUST BE ZERO FOR AN LPDE
		.... ...1		LPDENLR	NOT LOADABLE ONLY
29	(1D)	CHARACTER	1	LPDEATT2	SECOND ATTRIBUTE FLAG BYTE
		1... ..		LPDESPZ	INDICATES A MODULE LOADED BY THE AOS LOADER MUST BE ZERO FOR AN LPDE
		.1.		LPDEREL	INDICATES A MODULE IS INACTIVE AND MAY BE RELEASED, MUST BE ZERO FOR AN LPDE
		..1.		LPDEXLE	EXTENT LIST BUILT MAIN STORAGE OCCUPIED BY MODULE IS DESCRIBED THEREIN
		...1		LPDERLC	LPDE CONTAINS A RELOCATED ALIAS ENTRY POINT ADDRESS
		.... 1...		LPDEANYM	ROUTINE RUNS IN ANY MODE
		.... .1..		LPDEOLY	MODULE IS IN OVERLAY FORMAT MUST BE ZERO FOR AN LPDE
		.... ..1.		LPDESYSL	AUTHORIZED LIBRARY MODULE
		.... ...1		LPDEAUTH	PROGRAM AUTHORIZATION FLAG ICB360
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

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
LPDE	0		LPDEMJP	14		LPDEREL	1D	40
LPDEANYM	1D	08	LPDEMODE	10	80	LPDEREN	1C	20
LPDEATTB	1A		LPDENAME	8		LPDERLC	1D	10
LPDEATTR	1C		LPDENFN	1C	08	LPDESER	1C	10
LPDEATT2	1D		LPDENIC	1C	40	LPDESP	1B	
LPDEATT3	1E		LPDENIP	1C	80	LPDESPZ	1D	80
LPDEAUTH	1D	01	LPDENLR	1C	01	LPDESYSL	1D	02
LPDECHN	0		LPDENTP	10		LPDEUSE	18	
LPDEJPA	1C	02	LPDEOLY	1D	04	LPDEXLE	1D	20
LPDELPDE	1A	08	LPDEOM	1A	80	LPDEXTAD	24	
LPDEMIN	1C	04	LPDERBP	4		LPDEXTLN	20	
LPDEMJNM	20							

LRB

COMMON NAME: LOGREC Buffer
 MACRO ID: IHALRB
 DSECT NAME: LRB
 CREATED BY: MCH - module, IGFPBUCR; MIH and DDR - module, IGFDRO (DDR component).
 SUBPOOL AND KEY: 239 and key 0 (Residence - above 16M line)
 SIZE: Variable
 POINTED TO BY: PCCALRBR field of the PCCA data area
 PCCALRBV field of the PCCA data area
 SERIALIZATION: MIH and DDR serialize dynamic storage subpool 245.
 FUNCTION: Holds log record information that is put on SYS1.LOGREC.

OFFSETS

DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
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COMMON HEADER SECTION

0	(0)	BITSTRING	1	LRBHTYPE	TYPE OF RECORD
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RECORD TYPE EQUATES

..1.	..11	LRBLSLH	"X'23'"	SUBCHANNEL LOGOUT RECORD
..1.	..1.1	LRBHCRW	"X'25'"	CHANNEL REPORT WORD RECORD
.11.	....	LRBHREC	"X'60'"	DDR RECORD
1..1	....	LRBHMDR	"X'90'"	MDR RECORD
..11	..1	LRBHMIH	"X'71'"	MIH RECORD
...1	..11	LRBHMCH	"X'13'"	MCH RECORD
1... ..1		LRBHTER	"X'81'"	SYSTEM TERMINATION RECORD
1... ..1.		LRBHRSRS	"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)	BITSTRING	1	LRBHREL	RELEASE NUMBER
....	...1	LRBHSYS	"LRBHREL"	SYSTEM TYPE	

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... ..1		LRBHVS2	"X'80'"	OS/VS2 SYSTEM

2	(2)	BITSTRING	1	LRBHSW0	INDEPENDENT SWITCH BYTE
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EQUATES FOR LRBHSW0

1... ..1		LRBHMORE	"X'80'"	MULTIPLE RECORDS
.1..	LRBHNS	"X'40'"	NS MACHINE
.1.	....	LRBNLOG	"X'20'"	NO LOG RECORD FLAG.
...1	....	LRBHEAB	"X'10'"	EXTENDED ADDRESSING
....	1...	LRBHMTM	"X'08'"	TIME MACRO USED

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
3	(3)	BITSTRING	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

MCH EQUATES FOR LRBHSW1

1...	....	LRBMNOIO	"X'80'"	1: IOSRMCH TELLING IGFPDSIG NOT TO PERFORM ANY I/O
.1..	....	LRBMNVF	"X'40'"	LRB MAY NOT BE VALID
..1.	....	LRBMSYST	"X'20'"	SYSTEM TERMINATED
...1	....	LRBTRACE	"X'10'"	SET TO 1 BY IGFPDCIH BEFORE ALTRTRC SUSPEND AND SET TO 0 AFTER
....	1...	LRBDAT	"X'08'"	SET TO 1 BY IGFPDCIH BEFORE LOADING THE DATON PSM TO GOTO IGFPMAIN
....	.1..	LRBMRECV	"X'04'"	SET TO 1 WHEN AN ERROR IS COMPLETELY RECOVERED

4	(4)	BITSTRING	1	LRBHSW2	DEPENDENT SWITCH BYTE 1
....	.1..	LRBMACT	"LRBHSW2"	MCH BUFFER ACTIVE FLAG	

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)	BITSTRING	1	LRBHSW3	DEPENDENT SWITCH BYTE 2
....	.1.1	LRBMCLB	"LRBHSW3"	LOGREC CLOBBER FLAG (INDICATES LOGREC BUFFER OVERLAYED)	
6	(6)	BITSTRING	1	LRBHCNT	PHYSICAL RECORDS PER LOGICAL REC CNT
7	(7)	BITSTRING	1		RESERVED
8	(8)	BITSTRING	4	LRBHDATE	DATE
12	(C)	BITSTRING	4	LRBHTIME	TIME
16	(10)	DBL WORD	8 (0)		
16	(10)	BITSTRING	8	LRBHCPID (0)	. STIDP OPERAND FIELD
16	(10)	BITSTRING	1		. RESERVED
17	(11)	BITSTRING	3	LRBHCSER	. CPU SERIAL NUMBER
20	(14)	BITSTRING	2	LRBHMDL	. CPU MODEL NUMBER
22	(16)	BITSTRING	2	LRBHMCEL	. MAXIMUM MCEL LENGTH
24	(18)	CHARACTER	1	LRBBASE (0)	. END OF HEADER

MACHINE CHECK HANDLER RECORD

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
24	(18)	SIGNED	4	LRBMLNH	. LENGTH OF LOGREC RECORD
28	(1C)	BITSTRING	4	LRBMWSC	. WAIT STATE CODE
32	(20)	BITSTRING	4	LRBMCEIA (0)	
32	(20)	BITSTRING	1	LRBMTERM	. MACHINE CHECK ERROR INDICATOR AREA . TERMINAL ERROR FLAGS
		1...		LRBMTIOS	"X'80"" IOSRMCH HAS REQUESTED THAT THIS BE TERMINATED
		..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)	BITSTRING	1	LRBMHARD	. HARD MACHINE ERROR FLAGS
		1...		LRBMHHRD	"X'80"" ASSUMED HARD ERROR FLAG
		..1.		LRBMHIO	"X'40"" IOSRMCH HAS EXAMINED THE MCIC AND DETERMINED THAT A HARD IO ERROR HAS OCCURRED
		..1.		LRBMHVS	"X'20"" VECTOR SOURCE FLAG
		...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)	BITSTRING	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		LRBMIVTE	"X'01"" VECTOR THRESHOLD EXCEEDED FLAG.
35	(23)	BITSTRING	1	LRBMSSFT	. SOFT MACHINE ERROR FLAGS
		1...		LRBMSSFT	"X'80"" ASSUMED SOFT ERROR FLAG
		..1.		LRBMSSPD	"X'40"" SERVICE PROCESSOR DAMAGE
		..1.		LRBMVSF	"X'20"" VECTOR FAILURE FLAG.
		.... ..1.		LRBMSDBE	"X'10"" DOUBLE BIT STORAGE ERROR FLAG
EQU X'08' . RESERVED					
		.... ..1.		LRBMSECC	"X'04"" ECC CORRECTED STORAGE ERROR FLAG
		.... ..1.		LRBMHIR	"X'02"" HIR CORRECTED PROCESSOR ERROR FLAG
		.... ...1		LRBMSDG	"X'01"" DG MACHINE CHECK OCCURRED
36	(24)	BITSTRING	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

OFFSETS
DEC HEX TYPE LENGTH NAME DESCRIPTION

EQU X'02' RESERVED
EQU X'01' RESERVED

37	(25)	BITSTRING	2	LRBMSRS	. STORAGE RECONFIGURATION STATUS
39	(27)	BITSTRING	1	LRBMPWL	. PHYSICAL WORD LENGTH (CHECKING BLOCK SIZE)
40	(28)	BITSTRING	8	LRBMOSW	. MACHINE CHECK OLD PSW (FROM STORAGE LOCATIONS 48 55)
48	(30)	BITSTRING	280	LRBMFLO (0)	. MACHINE CHECK FIXED LOGOUT AREA (MOVED FROM STORAGE LOCATIONS 232 511)
48	(30)	BITSTRING	8	LRBMCIC (0)	. MACHINE CHECK INTERRUPT CODE (MOVED FROM STORAGE LOCATIONS 232 239)
48	(30)	BITSTRING	1		. 1ST BYTE OF LRBMCIC
		1...		LRBMFSD	"X'80'". SYSTEM DAMAGE
		.1.		LRBMFPD	"X'40'". PROCESSING DAMAGE
		..1.		LRBMFSR	"X'20'". SYSTEM RECOVERY

EQU X'10' . RESERVED

		.... 1...		LRBMFCD	"X'08'". CLOCK DAMAGE
		.... .1.		LRBMFED	"X'04'". EXTERNAL DAMAGE
		.... ..1.		LRBMFVF	"X'02'". VECTOR FAILURE
		.... ...1		LRBMFDG	"X'01'". DEGRADATION
49	(31)	BITSTRING	1		. 2ND BYTE OF LRBMCIC
		1...		LRBMFWN	"X'80'". POWER WARNING
		.1.		LRBMFCP	"X'40'". AN AVAILABLE CRW IS PENDING
		..1.		LRBMFSPD	"X'20'". SERVICE PROCESSOR DAMAGE
		...1		LRBMFCK	"X'10'". CHANNEL SUBSYSTEM DAMAGE

EQU X'08' RESERVED

		.... .1.		LRBMFVS	"X'04'". VECTOR SOURCE
		.... ..1.		LRBMIBU	"X'02'". BACK UP INDICATOR
		.... ...1		LRBMIDY	"X'01'". DELAYED
50	(32)	BITSTRING	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 EMMP 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)	BITSTRING	1		. 4TH BYTE OF LRBMCIC
		1...		LRBMVFA	"X'80'". FAILING STORAGE ADDR VALIDITY

EQU X'40' . RESERVED

		..1.		LRBMVED	"X'20'". EXTERNAL DAMAGE CODE VALIDITY
		...1		LRBMVFP	"X'10'". FLOATING POINT REG VALIDITY

OFFSETS

DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
		.... 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)	BITSTRING	1		. 5TH BYTE OF LRBMCIC
EQU X'80' . RESERVED EQU X'40' . RESERVED					
		..1.		LRBMDAE	"X'20'". DELAYED ACCESS EXCEPTION
EQU X'10' RESERVED EQU X'08' RESERVED EQU X'04' RESERVED EQU X'02' RESERVED EQU X'01' RESERVED					
53	(35)	BITSTRING	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)	BITSTRING	2	LRBMCELL	. MACHINE CHECK EXTENDED LOGOUT LENGTH (ACTUAL LENGTH OF MCEL DATA STORED FOR THIS MACHINE CHECK INTERRUPTION)
56	(38)	BITSTRING	4		. DATA FROM 240 243
60	(3C)	BITSTRING	4	LRBMEDCD (0)	. DATA FROM 244 247, EXTERNAL DAMAGE CODE
60	(3C)	BITSTRING	1	LRBMEDC	. DATA FROM 244
EQU X'80' . RESERVED EQU X'40' . RESERVED EQU X'20' . RESERVED EQU X'10' . RESERVED EQU X'08' . RESERVED EQU X'04' . RESERVED EQU X'02' . RESERVED EQU X'01' . RESERVED					
61	(3D)	BITSTRING	1	LRBMEDC1	. DATA FROM 245
		1...		LRBMEDXN	"X'80'". EXTENDED STORAGE NOT OPERATIONAL
		.1..		LRBMEDXF	"X'40'". EXTENDED STORAGE CONTROL FAILURE

OFFSETS
DEC HEX TYPE LENGTH NAME DESCRIPTION

EQU X'20' . RESERVED
EQU X'10' . RESERVED
EQU X'08' . RESERVED
EQU X'04' . RESERVED
EQU X'02' . RESERVED
EQU X'01' . RESERVED

62	(3E)	BITSTRING	2		. RESERVED ALWAYS ZERO
64	(40)	ADDRESS	4	LRBMFSA	. FAILING STORAGE ADDRESS (MOVED FROM STORAGE LOCATIONS 248 251)
68	(44)	BITSTRING	4		. DATA FROM 252:255
72	(48)	BITSTRING	96		. DATA FROM 256:351
168	(A8)	BITSTRING	32		. DATA FROM 352:383
200	(C8)	BITSTRING	64	LRBGREGS	. DATA FROM 384:447, GENERAL PURPOSE REGISTERS
264	(108)	BITSTRING	64	LRBCREGS	. DATA FROM 448:511, CONTROL REGISTERS
328	(148)	BITSTRING	4		. RESERVED
332	(14C)	BITSTRING	1	LRBMCEL (0)	. 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	9	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
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

MISCELLANEOUS DATA RECORDER RECORD

24	(18)	CHARACTER	2	LRBDCUA1	PRIMARY CUA
26	(1A)	CHARACTER	6	LRBDVOL	VOLUME SERIAL NUMBER
32	(20)	CHARACTER	24	LRBDSNS	DEVICE SENSE DATA

SYSTEM TERMINATION RECORD

24	(18)	SIGNED	4	LRBTLNH	LOGREC RECORD LENGTH
28	(1C)	BITSTRING	4	LRBTWSC	WAIT STATE CODE
32	(20)	BITSTRING	1	LRBTUSR (0)	USER DATA FIELD NOTE THE VALUE IN LRBTLNH IS THE TOTAL LENGTH INCLUDING THE LRBTUSR, EXCLUDING THE HEADER.

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
LRBBASE	18		LRBMCEL	14C		LRBMRECV	3	4
LRBCREGS	108		LRBMCELL	36		LRBMRSRC	24	8
LRBDAT	3	8	LRBMCIC	30		LRBMRSRF	24	4
LRBDCUA1	18		LRBMCLB	5	5	LRBMRSRS	25	
LRBDICE	4	7	LRBMDAE	34	20	LRBMSDG	23	1
LRBDSSENS	20		LRBMDDBSE	23	10	LRBMSECC	23	4
LRBDVOL	1A		LRBMEDC	3C		LRBMSHIR	23	2
LRBD1006	4	F2	LRBMEDCD	3C		LRBMSOFT	23	
LRBD2703	4	F3	LRBMEDC1	3D		LRBMSST	23	80
LRBD2946	4	F0	LRBMEDXF	3D	40	LRBMSSPD	23	40
LRBD2948	4	F1	LRBMEDXN	3D	80	LRBMSVF	23	20
LRBD2969	4	F4	LRBMFCD	30	8	LRBMSYST	3	20
LRBD3211	4	4	LRBMFCK	31	10	LRBMTCK	20	8
LRBD3330	4	1	LRBMFCP	31	40	LRBMTDMG	20	2
LRBD3340	4	9	LRBMFDG	30	1	LRBMTERM	20	
LRBGREGS	C8		LRBMFDS	32	10	LRBMTINV	20	1
LRBHCCF	0	B0	LRBMFED	30	4	LRBMTIOS	20	80
LRBHCNT	6		LRBMFKE	32	20	LRBMTSEC	20	10
LRBHCPID	10		LRBMFLO	30		LRBMTTHR	20	20
LRBHCP67	1	60	LRBMFPD	30	40	LRBMTWRN	20	4
LRBHCRW	0	25	LRBMFSA	40		LRBMVCC	35	1
LRBHCSER	11		LRBMFSC	32	40	LRBMVCR	33	4
LRBHDATE	8		LRBMFSD	30	80	LRBMVED	33	20
LRBHDOS	1	20	LRBMFSE	32	80	LRBMVFA	33	80
LRBHEAB	2	10	LRBMFSPD	31	20	LRBMVFP	33	10
LRBHMCEL	16		LRBMFSR	30	20	LRBMVGR	33	8
LRBHMCF	0	A0	LRBMFVF	30	2	LRBMVIA	32	1
LRBHMCH	0	13	LRBMFVS	31	4	LRBMVLG	33	2
LRBHMDL	14		LRBMFWN	31	80	LRBMVMS	32	4
LRBHMDR	0	90	LRBMHARD	21		LRBMVPM	32	2
LRBHMIH	0	71	LRBMHHRD	21	80	LRBMVPT	35	2
LRBHMORE	2	80	LRBMHINV	21	8	LRBMVST	33	1
LRBHNS	2	40	LRBMHIO	21	40	LRBMVWP	32	8
LRBHOS	1	0	LRBMHIPD	21	1	LRBMWSC	1C	
LRBHREC	0	60	LRBMHSD	21	10	LRBNOLOG	2	20
LRBHREL	1		LRBMHSPF	21	2	LRBRCUA1	2D	
LRBHSFR	0	4F	LRBMHSTO	21	4	LRBRCUA2	35	
LRBHSFW	0	40	LRBMHVS	21	20	LRBRDEV1	30	
LRBHSFH	0	23	LRBMIBU	31	2	LRBRDEV2	38	
LRBHSRS	0	84	LRBMICKC	22	4	LRBRJOB	18	
LRBHSWO	2		LRBMICTM	22	2	LRBROPER	3	20
LRBHSW1	3		LRBMIDY	31	1	LRBRPH1	2C	
LRBHSW2	4		LRBMINTM	22		LRBRPH2	34	
LRBHSW3	5		LRBMINVP	24	10	LRBRPRIM	3	80
LRBHSYS	1	1	LRBMITOD	22	8	LRBRSEC	3	40
LRBHTER	0	81	LRBMIVTE	22	1	LRBRSYSI	3	10
LRBHTIME	C		LRBMLNH	18		LRBRVOL1	20	
LRBHTMC	2	8	LRBMOSW	28		LRBRVOL2	26	
LRBHTYPE	0		LRBMNOIO	3	80	LRBTLNH	18	
LRBHVS1	1	40	LRBMNVF	3	40	LRBTRACE	3	10
LRBHVS2	1	80	LRBMNDAR	24		LRBTUSR	20	
LRBMACT	4	4	LRBMNWL	27		LRBTWSC	1C	
LRBMCEIA	20							

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LRPL

The mapping macro for this control block is object code only (OCO). Therefore, only selected information is presented for it.

OWNING COMPONENT: MVS Configuration Program (MVSCP)
SUBPOOL AND KEY: Contained in the module that calls CBPMLOAD
SIZE: 32 bytes

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LXAT

COMMON NAME: Linkage Index Allocation Table
 MACRO ID: IHALXAT
 DSECT NAME: LXAT
 CREATED BY: IEAVXMAS, expanded by IEAVXLRE
 SUBPOOL AND KEY: 229 and key 0 (in PC/Auth private) (Residence - above 16M line)
 SIZE: An 8 byte header plus up to 1024 8 byte entries
 POINTED TO BY: XMDLXAT
 SERIALIZATION: Serialized by the local lock of the PC/Auth address space.
 FUNCTION: Contains ownership and usage information on linkage indexes.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	8	LXAT	LINKAGE INDEX ALLOCATION TABLE
0	(0)	CHARACTER	8	LXATHDR	LXAT HEADER
0	(0)	CHARACTER	4	LXATLXAT	LXAT ACRONYM
4	(4)	UNSIGNED	2	LXATHILX	HIGHEST LX CONTAINED IN LXAT
6	(6)	UNSIGNED	2	LXATMSLX	MAXIMUM SYSTEM LX IN LXAT

| LXATINCR = 32 = NUMBER OF ENTRIES PER LXAT EXPANSION.
| LXATMAX = 1023 = MAXIMUM LX VALUE SUPPORTED.

8	(8)	CHARACTER	8	LXATINDX (*)	ARRAY OF LINKAGE INDEXES
8	(8)	UNSIGNED	2	LXATASID	ASID OWNING THIS INDEX (VALID ONLY WHEN LXATOWND IS ON)
10	(A)	UNSIGNED	2	LXATBIND	COUNT OF ADDRESS SPACES USING THIS INDEX. (FOR A SYSTEM LX THAT WAS EVER CONNECTED THIS VALUE WILL BE X'FFFF')
12	(C)	UNSIGNED	2	LXATETCT	COUNT OF ENTRY TABLES CONNECTED TO THIS INDEX. (FOR A SYSTEM LX WHICH IS CONNECTED THIS VALUE WILL BE X'FFFF')
14	(E)	BITSTRING	1	LXATFLGS	FLAGS
		1...		LXATRIP	RESERVE IN PROCESS FOR THIS LX
		.1.		LXATOWND	THIS LX IS RESERVED (OWNED)
		..1.		LXATSYS	THIS IS A SYSTEM LX
		...1		LXATDORM	THIS SYSTEM LX IS DORMANT
15	(F)	UNSIGNED	1	LXATRSV2	RESERVED

CROSS-REFERENCE TABLE

<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>	<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>	<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>
LXAT	0		LXATFLGS	E		LXATMSLX	6	
LXATASID	8		LXATHDR	0		LXATOWND	E	40
LXATBIND	A		LXATHILX	4		LXATRIP	E	80
LXATDORM	E	10	LXATINDX	8		LXATRSV2	F	
LXATETCT	C		LXATLXAT	0		LXATSYS	E	20

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 (Residence - above 16M line)
 SIZE: 432 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					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	432	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
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 WITH LOW UICS
60	(3C)	SIGNED	2	MCCHSTLC	NO OF PAGES TO STEAL FROM EACH ADSPC OR COMMON FOR STEAL PASS WITH HIGH UICS
62	(3E)	SIGNED	2	MCCSIPRT	TIME BETWEEN PAGE IN RATE CALCULATIONS
64	(40)	SIGNED	2	MCCDFRPC	DOUBLE FRAME REPLENISH VALUE
66	(42)	SIGNED	2	MCCDFREC	DOUBLE FRAME RELEASE VALUE

STORAGE LOAD BALANCER CONSTANTS

68	(44)	SIGNED	2	MCCBSB SIG	MIN SIG USER FRAME THRESHOLD
70	(46)	SIGNED	2	MCCSBAF1	STC AVERAGING FACTOR
72	(48)	SIGNED	2	MCCSBAF2	MCCSBAF1+1
74	(4A)	SIGNED	2	MCCSBSTH	HIGH STC IMBALANCE THRESHOLD
76	(4C)	SIGNED	2	MCCSBSTL	LOW STC IMBALANCE THRESHOLD
78	(4E)	SIGNED	2	MCCSBATH	HIGH AFC THRESHOLD
80	(50)	SIGNED	2	MCCSBATL	LOW AFC THRESHOLD
82	(52)	SIGNED	2	MCCSBSCF	STOR CONTENTION SCALOR
84	(54)	SIGNED	2	MCCSBFCF	FRAME COUNT SCALOR
86	(56)	SIGNED	2	MCCSBMXR	MAX REC VAL
88	(58)	SIGNED	2	MCCSBMNR	MIN REC VAL
90	(5A)	SIGNED	2	MCCSIGRS	WORKING SET SIZE TARGET FOR ENQ/DEQ ADDRESS SPACE
92	(5C)	SIGNED	4	MCCSBMIN	MINIMUM INTERVAL FOR COMPUTING STC AVERAGE
96	(60)	SIGNED	4	MCCSBMSH	MINIMUM INTERVAL TO PRESERVE REC VAL TO CORRECT IMBALANCE
100	(64)	SIGNED	4	MCCSBETH	EXEC TIME THRESHOLD FOR SIGNIFICANT USER CHECK

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
AUX STORAGE MONITORING CONSTANTS					
104	(68)	SIGNED	2	MCCASMT1	FIRST AUX SHORTAGE THRESHOLD
106	(6A)	SIGNED	2	MCCASMT2	SECOND AUX SHORTAGE THRESHOLD
108	(6C)	CHARACTER		MCCEND	END OF MCT CONSTANTS
STORAGE CONTROL VARIABLES					
108	(6C)	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
109	(6D)	BITSTRING	1	MCVSIR8	RESERVED
110	(6E)	SIGNED	2	MCVTWSS	TARGET WSS FOR COMMON
112	(70)	SIGNED	2	MCVSIWL	CMN LOW WSS TARGET
114	(72)	SIGNED	2	MCVSIWH	CMN HI WSS TARGET
116	(74)	SIGNED	2	MCVSIPL	CMN LOW PAGE IN RATE
118	(76)	SIGNED	2	MCVSIPL	CMN HIGH PAGE IN RATE
120	(78)	SIGNED	4	MCVSIIP	CMN BASE PAGE IN CNT
124	(7C)	UNSIGNED	4	MCVSIPT	CMN BASE TIME FOR PAGE IN RATE CALCULATION
128	(80)	SIGNED	2	MCVSIPT	CMN RECENT PAGEIN RATE
130	(82)	SIGNED	2	MCVFMCT	CMN EFFECTIVE FMCT
132	(84)	SIGNED	2	MCVSTCRI	HIGHEST SYSTEM UIC
134	(86)	SIGNED	2	MCVFRCNT	SAVED AVAILABLE EXPANDED STORAGE OK THRESHOLD (RCEAFCHK)
136	(88)	SIGNED	4	MCVAVQC	COUNT OF AVQLOWS
STORAGE LOAD BALANCER VARIABLES					
140	(8C)	SIGNED	2	MCVSBCTR	STOR CONT SAMPLE COUNT
142	(8E)	SIGNED	2	MCVSBSCA	SHORT TERM STC AVE
144	(90)	SIGNED	2	MCVSBLTS	LONG TERM STC AVE
146	(92)	SIGNED	2	MCVSBFQA	AVAIL FRAME Q AVE
148	(94)	SIGNED	2	MCVSBRVF	STOR CONT FACTOR FOR LOAD BAL RECOMMENDATION
150	(96)	SIGNED	2	MCVSBBSIG	SIG USER THRESHOLD
152	(98)	SIGNED	4	MCVSBBT	BASE TOD FOR AVE STEAL CRI
156	(9C)	SIGNED	4	MCVSBSCC	STEAL CRI ACCUM
160	(A0)	SIGNED	4	MCVSBFQC	AVAIL FRAME Q ACCUM
164	(A4)	SIGNED	4	MCVSBIMT	TOD OF LAST STOR IMBAL
MEMORY CONTROL FLAGS					
168	(A8)	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
169	(A9)	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
170	(AA)	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

OFFSETS		DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
				.... 1...		MCTFXMPL	REDUCE MPL TO RELIEVE SHORTAGE
				.... .1.		MCTLPBBT	FOUND A DEVICE WITH LPB UTIL BELOW THRESHOLD
				.... ..1.		MCTLGAVQ	LOGICAL AVQLOW LEVEL 1
				.... ...1		MCTSCBT	STOLE CMN BELOW THRES
171	(AB)			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
				...1		MCTPVTI	PVT FIELDS INITIALIZED
				.... 1...		MCTERCFB	EXTENDED STORAGE RECONFIGURATION HAS BEGUN
				.... ..1.		MCTERCFE	EXTENDED STORAGE RECONFIGURATION HAS ENDED
				.... ...11		MCTCF04	RESERVED
172	(AC)			ADDRESS	4	MCCMS103	SQA EXPANDED MSG ADDR

TIME INTERVAL VALUES FOR PRI INVOCATION

176	(B0)	UNSIGNED	4	MCVTMINQ	TIME PRI LAST RAN IN QUEUE
180	(B4)	SIGNED	2	MCCFXUIC	FIXED FRAME SHORTAGE UIC THRESHOLD
182	(B6)	SIGNED	2	MCVCHUIC	HIGHEST UIC FOR CURRENTLY ALLOCATED COMMON AREA FRAMES
184	(B8)	SIGNED	2	MCVPVTRI	HIGHEST UIC PVT AREA
186	(BA)	SIGNED	2	MCCLPBUT	LPB UTIL THRESHOLD FOR DEVICE ALLOCATION
188	(BC)	SIGNED	2	MCCLSWUP	TSO LOGICAL SWAP WORKING SET ADJUSTMENT FACTOR
190	(BE)	SIGNED	2	MCVDFPGC	DEFERRED PAGE REQ CT
192	(C0)	SIGNED	4	MCCRSVF2	RESERVED
196	(C4)	SIGNED	2	MCCNCLIM	UIC LIMIT FOR NON SWAPPABLES AND COMMON BEFORE ADJUSTING UPDATE INTERVAL
198	(C6)	SIGNED	2	MCCNCDEL	DELTA IN NON SWAPPABLES AND COMMON UICS FOR INCREASING UPDATE INTERVAL
200	(C8)	SIGNED	2	MCCNCMAX	MAXIMUM INTERVAL BETWEEN UPDATES FOR NON SWAPPABLES AND COMMON
202	(CA)	SIGNED	2	MCCSWLIM	UIC LIMIT FOR SWAPPABLES BEFORE ADJUSTING UPDATE INTERVAL
204	(CC)	SIGNED	2	MCCSWDEL	DELTA IN SWAPPABLES UICS FOR INCREASING UPDATE INTERVAL
206	(CE)	SIGNED	2	MCCSWMAX	MAXIMUM INTERVAL BETWEEN UPDATES FOR SWAPPABLES
208	(D0)	SIGNED	4	MCVSMXCT	SWAPPABLE MAXIMUM COUNT
212	(D4)	SIGNED	4	MCVINC	PRI INTERVAL COUNT FOR SWAPPABLES
216	(D8)	SIGNED	4	MCVCURCT	PRI INTERVAL COUNT FOR COMMON AND NON SWAPPABLES
220	(DC)	SIGNED	4	MCVMAXCT	NON SWAPPABLES AND COMMON MAXIMUM COUNT
224	(E0)	SIGNED	2	MCCSIWDL	% OF WORKING SET SIZE TWSS IS TO BE LOWERED BY
226	(E2)	SIGNED	2	MCCSIWDI	% OF WORKING SET SIZE TWSS IS TO BE INCREASED BY
228	(E4)	SIGNED	4	MCCSIETH	EXEC TIME THRESHOLD FOR PAGING RATE CALCULATE
232	(E8)	SIGNED	2	MCCSBMXF	STOR LD BAL REC VAL MAPPED INTO ALLOWABLE RANGE AS PERCENT OF THIS CONSTANT
234	(EA)	SIGNED	2	MCCSBRND	ROUNDING FACTOR FOR LD BAL COMPUTATION.
236	(EC)	SIGNED	2	MCCSBMNC	MIN # USERS TO ADJUST SIG USER THRESHOLD
238	(EE)	SIGNED	2	MCCSBSGP	TARG PERCENT OF SIG USERS
240	(F0)	SIGNED	2	MCCSBINP	PERCENT TO INCREASE SIG USER THRESHOLD
242	(F2)	SIGNED	2	MCCSBDEP	PERCENT TO DECREASE SIG USER THRESHOLD
244	(F4)	ADDRESS	4	MCCASCB	ASCB PTR FOR PR5 TO UPDATE OUXBFMCT
248	(F8)	ADDRESS	4	MCCMS104	SQA NO LONGER EXPANDED MESSAGE ADDRESS

THE FOLLOWING TWO FIELDS ARE USED TO INITIALIZE THE RCE THRESHOLDS THAT CONTROL PAGE REPLACEMENT. THEY ARE ALSO USED TO CONTROL SWAP IN FAIL PROCESSING

252	(FC)	UNSIGNED	4	MCCAVQTH	AVAIL FRAME LOW THRESHOLD
252	(FC)	SIGNED	2	MCCAFCL0	AVAIL FRAME QUEUE LOW THRESHOLD
254	(FE)	SIGNED	2	MCCAFCHK	AVAIL FRAME QUEUE OK THRESHOLD
256	(100)	SIGNED	4	MCCUICTH	MIN TIME BEFORE UIC UPDATING
260	(104)	SIGNED	4	MCCFXTM1	FIXED FRAME SHORTAGE TIME THRESHOLD
264	(108)	SIGNED	4	MCCFXTM2	FIXED FRAME SHORTAGE TIME THRESHOLD
268	(10C)	SIGNED	4	MCVCSACV	PREV GDACSACV VALUE
272	(110)	SIGNED	2	MCCDEFFX	DEFER FIX THRESHOLD

EXTENDED REAL CONSTANTS

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
274	(112)	SIGNED	2	MCCFXTPR	% LOGICAL STORAGE THRESHOLD
276	(114)	SIGNED	2	MCCFXEPR	% PHYSICAL STORAGE THRESHOLD
278	(116)	SIGNED	2	MCCSBFTH	% LOAD BALANCE IMBALANCE THRESHOLD
280	(118)	SIGNED	2	MCCMEDUP	MEDIAN FIXED FRAME COUNT ADJUSTMENT UP
282	(11A)	SIGNED	2	MCCMEDDN	MEDIAN FIXED FRAME COUNT ADJUSTMENT DOWN
284	(11C)	SIGNED	2	MCCSPINT	TIME FOR DISABLED SPIN
286	(11E)	SIGNED	2	MCCFFCMP	FIXED FRAME COUNT MULTIPLIER FOR AVQ4 PROCESSING
288	(120)	SIGNED	4	MCCMAXFX	LOGICAL SHORTAGE THRESHOLD COUNT
292	(124)	SIGNED	4	MCCLGCRI	CRITICAL SHORTAGE THRESHOLD COUNT
296	(128)	SIGNED	4	MCCPHCRI	PHYSICAL CRITICAL SHORTAGE THRESHOLD COUNT
300	(12C)	SIGNED	4	MCCLGFOK	LOGICAL OK THRESHOLD
304	(130)	SIGNED	4	MCCPHFOK	PHYSICAL OK THRESHOLD

EXTENDED REAL VARIABLES

308	(134)	SIGNED	4	MCVSBFXC	FIX CNT ACCUMULATOR
312	(138)	SIGNED	2	MCVSBFXA	AVE FIX % BELOW 16MEG
314	(13A)	SIGNED	2	MCVSBLTF	LONG TERM FIX %
316	(13C)	SIGNED	2	MCVMEDFC	MEDIAN FIX FRAME COUNT READY USERS
318	(13E)	SIGNED	2	MCVMFCTI	MEDIAN FIX FRAME COUNT TSO IWAITS
320	(140)	SIGNED	4	MCVCAPHS	CAP WORKAREA WORKING SET SIZE ACCUMULATOR
324	(144)	SIGNED	2	MCCMS6L	MS6 INTERVAL LOWER LIMIT
326	(146)	SIGNED	2	MCVSWUPD	SNAP COUNTER UPDATE CTR
328	(148)	SIGNED	4	MCVRSVF4	RESERVED

EXTENDED STOORAGE VARIABLES

332	(14C)	SIGNED	4	MCVMGAGE	EXTENDED STORE MIGRATION AGE
336	(150)	SIGNED	4	MCVPR9TG	PR9 TARGET FOR TRIM AND BUILDING SECONDARY WORKING SETS
340	(154)	ADDRESS	4	MCVPR5OU	OUCBPTR FOR PR5 WHEN REAL THRESHOLDS RAISED
344	(158)	UNSIGNED	4	MCVMGTME	WAITING FOR MIGRATOR TIME STAMP
348	(15C)	UNSIGNED	4	MCVWRAPS	SAVED VALUE OF RCEWRAPS
352	(160)	SIGNED	4	MCVMGCNT	SRM MIGRATE TIME COUNTER
356	(164)	SIGNED	4	MCVSECHS	NUMBER OF SECONDARY WORKING SET PAGES FOR WHICH SWAP INS HAVE BEEN STARTED
360	(168)	SIGNED	4	MCVFRSNO	AVAIL FRAMES SCHEDULED FOR SWPAOUT TO AUX
364	(16C)	SIGNED	4	MCVSWPES	AVAIL EFRAMES SCHEDULED FOR SWPAOUT TO EXTENDED
368	(170)	SIGNED	4	MCVDEFSE	DEFER SWAP TO EXT IF AVAIL FRAME COUNT EXCEEDS THIS VALUE
372	(174)	SIGNED	4	MCCDEFAM	MULTIPLIER OF AFCOK THRESHOLD FOR DEFER SWAP TO EXT THRESHOLD
376	(178)	SIGNED	4	MCCMGTEX	MIGRATOR TIME EXCEEDED THRESHOLD
380	(17C)	SIGNED	4	MCCSWPET	EFRAMES RESERVED FOR PACEOUTS BY SWAPS
384	(180)	SIGNED	2	MCCETGHT	EXTENDED STORE LOW THRESHOLD MULTIPLIER TO DETERMINE IF EXTENDED STORE IS TIGHT
386	(182)	SIGNED	2	MCCAECLO	AVAIL EXTENDED FRAME QUEUE LOW THRESHOLD
388	(184)	SIGNED	2	MCCAECOK	AVAIL EXTENDED FRAME QUEUE OK THRESHOLD
390	(186)	SIGNED	2	MCCESBMP	SWAP TO EXTENDED WORKING SET ADJUSTMENT
392	(188)	SIGNED	2	MCCPPSBF	PAGABLE PAGE/SEGMENT BUFF
394	(18A)	SIGNED	2	MCCGROUP	TO INITIALIZE RCEGROUP
396	(18C)	SIGNED	2	MCCSWUPT	SWAP CTR UPDATE THRESHOLD
398	(18E)	UNSIGNED	1	MCCRSV5	RESERVED
399	(18F)	UNSIGNED	1	MCCFSIDI	% OF WORKING SET SIZE TWSS IS INCREASED FOR FWA USERS
400	(190)	UNSIGNED	1	MCCESOLO	LOW THRESHOLD FOR % OF TIME RUNNING OUT OF EXTENDED
401	(191)	UNSIGNED	1	MCCES0HI	HIGH THRESHOLD FOR % OF TIME RUNNING OUT OF EXTENDED
402	(192)	SIGNED	2	MCVESOCT	MCTESTOO SAMPLE COUNTER
404	(194)	SIGNED	2	MCVSSCT	EXTENDED STORE THRESHOLDS SAMPLE COUNTER
406	(196)	SIGNED	2	MCCESSTH	EXTENDED STORE THRESHOLDS SAMPLE THRESHOLD
408	(198)	SIGNED	4	MCVAECMN	MINIMUM RCEAEC SAMPLED
412	(19C)	BITSTRING	1	MCTEFLGS	EXTENDED STORE BITS
		1... ..		MCTMIGCN	MIGCNSTR SYSEVENT ISSUED
		.1.		MCTOVRMX	AT LEAST ONE STOR ISOL ADDR SP OVER MAX WSS EXISTS
		..1.		MCTOVRSI	OVERRIDE STOR ISOL IN MIGRATION
		...1		MCTESNA	EXTENDED STORE NOT AVAILABLE
		.... 1...		MCTESTOO	THE AMOUNT OF AVAILABLE EXTENDED STORAGE WENT TO 0
		.... .1..		MCTERCFP	EXTENDED STORE RECONFIGURATION IN PROGRESS
413	(19D)	BITSTRING	1	MCTEFLG1	FLAGS MODIFIED UNDER SRM LOCK
		1... ..		MCTAFCS1	AFC THRESHOLDS STORED IN ESTOR

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MCT

OFFSETS

DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
		.111 1111		MCTRV42D	RESERVED
414	(19E)	SIGNED	2	MCCRSV6	RESERVED
416	(1A0)	ADDRESS	4	MCCMS700	VECTOR WAIT MESSAGE ADDR
420	(1A4)	SIGNED	4	MCCRSVF6	RESERVED
424	(1A8)	SIGNED	4	MCCRSVF7	RESERVED
428	(1AC)	SIGNED	4	MCCRSVF8	RESERVED
432	(1B0)	CHARACTER		MCTEND	END OF MCT

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
MCCAECLO	182		MCCSBATL	50		MCTSFO5	A8	10
MCCAECOK	184		MCCSBDEP	F2		MCTSMS1	A9	08
MCCAFCL0	FC		MCCSBETH	64		MCTSMS2	A9	04
MCCAFCOK	FE		MCCSBFCF	54		MCTSQA2	AA	10
MCCASCB	F4		MCCSBFTH	116		MCTSQA1	A8	80
MCCASMT1	68		MCCSBINP	F0		MCTSQA2	A8	40
MCCASMT2	6A		MCCSBMIN	5C		MCTUICCA	AA	20
MCCAVQTH	FC		MCCSBMNC	EC		MCTUICXF	A9	20
MCCDEFAM	174		MCCSBMNR	58		MCVAECMN	198	
MCCDEFFX	110		MCCSBMSW	60		MCVAVQC	88	
MCCDFREC	42		MCCSBMXF	E8		MCVCAPWS	140	
MCCDFRPC	40		MCCSBMXR	56		MCVCHUIC	B6	
MCCEND	6C		MCCSBRND	EA		MCVCSACV	10C	
MCCESBMP	186		MCCSBSCF	52		MCVCURCT	D8	
MCCESSTH	196		MCCSBSGP	EE		MCVDEFSE	170	
MCCES0HI	191		MCCSBSIG	44		MCVDFPGC	BE	
MCCES0LO	190		MCCSBSTH	4A		MCVSSSCT	194	
MCCETGHT	180		MCCSBSTL	4C		MCVES0CT	192	
MCCFFCMP	11E		MCCSIETH	E4		MCVFMCT	82	
MCCFSIDI	18F		MCCSIGRS	5A		MCVFRCNT	86	
MCCFXEPR	114		MCCSIPRT	3E		MCVFRS0W	168	
MCCFXTM1	104		MCCSIWDI	E2		MCVINC	D4	
MCCFXTM2	108		MCCSIWDL	E0		MCVMAXCT	DC	
MCCFXTPR	112		MCCSPINT	11C		MCVMEDFC	13C	
MCCFXUIC	B4		MCCSTLCT	3A		MCVMFCTI	13E	
MCCGROUP	18A		MCCSHDEL	CC		MCVMGAGE	14C	
MCCHSTLC	3C		MCCSWLIM	CA		MCVMGCNT	160	
MCCLGCRI	124		MCCSHMAX	CE		MCVMGTME	158	
MCCLGFOK	12C		MCCSWPET	17C		MCVPR50U	154	
MCCLPBUT	BA		MCCSWUPT	18C		MCVPR9TG	150	
MCCLSWUP	BC		MCCUICTH	100		MCVPVTRI	B8	
MCCMAXFX	120		MCT	0		MCVRSVF4	148	
MCCMEDDN	11A		MCTAFCST	19D	80	MCVSBBT	98	
MCCMEDUP	118		MCTAMS2	A9	10	MCVSBCTR	8C	
MCCMGTEX	178		MCTASM1	A9	80	MCVSBFQA	92	
MCCMS100	4		MCTASM2	A9	40	MCVSBFQC	A0	
MCCMS101	8		MCTAVQ1	A8	20	MCVSBFXA	138	
MCCMS102	C		MCTCFLGS	AB		MCVSBFXC	134	
MCCMS103	AC		MCTCF04	AB	02	MCVSBIMT	A4	
MCCMS104	F8		MCTEFLGS	19C		MCVSBLTF	13A	
MCCMS200	10		MCTEFLG1	19D		MCVSBLTS	90	
MCCMS201	14		MCTEND	1B0		MCVSBRVF	94	
MCCMS202	18		MCTERCFB	AB	08	MCVSBSCA	8E	
MCCMS203	1C		MCTERCFE	AB	04	MCVSBSCC	9C	
MCCMS400	20		MCTERCFP	19C	04	MCVSBSIG	96	
MCCMS401	24		MCTESNA	19C	10	MCVSECWS	164	
MCCMS402	28		MCTEST00	19C	08	MCVSIBP	78	
MCCMS403	2C		MCTFAVQ	AB	80	MCVSIBT	7C	
MCCMS500	30		MCTFXMPL	AA	08	MCVSICM	6C	40
MCCMS501	34		MCTFX1	A9	02	MCVSIFLG	6C	
MCCMS6L	144		MCTFX2	A9	01	MCVSIPI	6C	10
MCCMS700	1A0		MCTLGAVQ	AA	02	MCVSIPL	74	
MCCNCDEL	C6		MCTLGPSS	AB	40	MCVSIPI	6C	10
MCCNCLIM	C4		MCTLPBBT	AA	04	MCVSIPL	74	
MCCNCMAX	C8		MCTMCT	0		MCVSIPL	80	
MCCPHCRI	128		MCTMIGCN	19C	80	MCVSIR4	6C	58
MCCPHFOK	130		MCTOFLGS	A9		MCVSIR8	6D	
MCCPLUS	38		MCTOFLG1	AA		MCVSIWH	72	
MCCPPSBF	188		MCTOVRMX	19C	40	MCVSIWL	70	
MCCRSVF2	C0		MCTOVRSI	19C	20	MCVSIWS	6C	20
MCCRSVF6	1A4		MCTPHRSS	AB	20	MCVSMXCT	D0	
MCCRSVF7	1A8		MCTPVTI	AB	10	MCVSTCRI	84	
MCCRSVF8	1AC		MCTRV42D	19D	40	MCVSNPES	16C	
MCCRSV5	18E		MCTSBACT	AA	80	MCVSNUPD	146	
MCCRSV6	19E		MCTSBOOB	AA	40	MCVTMINQ	B0	
MCCSBAF1	46		MCTSCBT	AA	01	MCVTWSS	6E	
MCCSBAF2	48		MCTSFLGS	A8		MCVWRAPS	15C	
MCCSBATH	4E							

MIR

COMMON NAME: Missing Interrupt Logrec Records
 MACRO ID: IOSDMIR
 DSECT NAME: MIR
 CREATED BY: IOSRMIHL
 SUBPOOL AND KEY: 245 and key 0 (Residence - above 16M line)
 SIZE: 164 bytes
 POINTED TO BY: N/A
 SERIALIZATION: None
 FUNCTION: Maps the Missing Interrupt Logrec Record.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	164	MIR	
0	(0)	CHARACTER	24	MIRHEADR	LOGREC header See IHAHDR mapping macro for field descriptions. The MIH record type is X'71'.
24	(18)	CHARACTER	140	MIRDATA	MIH record dependent area
24	(18)	CHARACTER	8	MIRJOBNM	JOBNAME from ASID initiating I/O request, or blank
32	(20)	CHARACTER	52	MIRSCHIB	Subchannel Information Block, (SCHIB), obtained from the Store Subchannel issued in IOSRMIHP.
84	(54)	CHARACTER	8	MIRINTVL	MIH detection interval (EBCDIC)

92	(5C)	CHARACTER	1	MIRTYPE	Type of missing interrupt
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MIH condition being recorded

- X'80' --- 1... - Missing CSCH interrupt
- X'40' --- .1.. - Missing HSCH interrupt
- X'20' --- ..1. - Idle device with work queued
- X'10' --- ...1 - Start pending in Subchannel
- X'08' --- 1... - (Reserved for future use)
- X'04' ---1. - Mount pending
- X'02' ---1. - Missing primary status (channel and device end)
- X'01' ---1 - Missing secondary status (device end)

93	(5D)	BITSTRING	1	MIRACTND	Default actions as set by IOSRMIHP (MIH detection).
94	(5E)	BITSTRING	1	MIRACTNA	Attempted actions passed to IOSRMIHR from IOSRMIHP (adjustments made by MIH exit).
95	(5F)	BITSTRING	1	MIRACTNS	Actually tried actions performed by IOSRMIHR.

MIH action bytes - following bit mapping apply to all three action fields.

- X'80' --- 1... - Halt or Clear Subchannel
- X'40' --- .1.. - Simulate an I/O interrupt
- X'20' --- ..1. - Redrive the device
- X'10' --- ...1 - Requeue the I/O request
- X'08' --- 1... - Issue message
- X'04' ---1. - LOG the condition (always ON)
- X'02' ---1. - (Reserved for future use)
- X'01' ---1 - (Reserved for future use)

Selected fields from the device UCB prefix area

96	(60)	CHARACTER	24	MIRUCBPX	UCB Prefix selected fields
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OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
96	(60)	SIGNED	4	MIRPSID	UCBSID
100	(64)	BITSTRING	2	MIRPPMCW	UCBPMCWI
102	(66)	BITSTRING	1	MIRPLPM	UCBLPM
103	(67)	BITSTRING	1	MIRPLPUM	UCBLPUM
104	(68)	BITSTRING	1	MIRPPIM	UCBPIM
105	(69)	UNSIGNED	1	MIRPCHPS (8)	UCBCHPID
113	(71)	UNSIGNED	1	MIRPLEVL	UCBLEVEL
114	(72)	BITSTRING	1	MIRPIOSF	UCBIOSF1
115	(73)	BITSTRING	4	MIRPLVMS	UCBLVMSK
119	(77)	BITSTRING	1	MIRPMIHT	UCBMIHTI

Selected fields from the device UCB common area

120	(78)	CHARACTER	10	MIRUCBCS	UCB Common area selected fields
120	(78)	BITSTRING	1	*	
		1...		MIRUALTC	UCBALTCU
121	(79)	BITSTRING	1	MIRUFLC	UCBFLC
122	(7A)	CHARACTER	2	MIRUCHAN	UCBCHAN
124	(7C)	CHARACTER	2	MIRUSFLS	UCBSFLS
126	(7E)	CHARACTER	4	MIRUTYPE	UCBTYP

Selected fields from the device UCB device dependent area.
Provided for DASD and TAPE only.

130	(82)	CHARACTER	8	MIRUCBDS	Device dependent UCB segment
130	(82)	CHARACTER	6	MIRDVOLI	UCBVOLI
136	(88)	BITSTRING	1	*	
		1...		MIRDMOUN	UCBMOUNT
137	(89)	BITSTRING	1	MIRDFL4	UCBFL4 (DASD only)

MIH record flag bytes

138	(8A)	BITSTRING	1	MIRFLAG1	MIH record flags
		1...		MIRADDL1	MIH record additional data flag bit 1.
		.111 1111		MIRRSVF1	MIH record reserved flags.
139	(8B)	BITSTRING	1	MIRFLAG2	MIH record reserved flags

MIH condition reason code associated with the MIH condition
field MIRTYPE.

140	(8C)	BITSTRING	1	MIRRSNC	MIH condition reason code
141	(8D)	CHARACTER	3	MIRRSV1	Reserved

IOS services return codes for the Store Subchannel,
Halt Subchannel and Clear Subchannel requests issued by MIH.
With field X'FF', the IOS service function not issued.

144	(90)	CHARACTER	1	MIRHLTRC	Halt request return code from IOSVHSCH.
145	(91)	CHARACTER	1	MIRCLRRC	Clear request return code from IOSVHSCH.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
146	(92)	CHARACTER	1	MIRSTRC1	Store Subchannel request return code from IOSVSTSQ, issued in IOSRMIHP.
147	(93)	CHARACTER	1	MIRSTRC2	Store Subchannel request return code from IOSVSSCQ, issued in IOSRMIHR for Start Pending.

The first word of the IRB from the CSCH interruption, which includes the subchannel control fields (which includes the clear pending bit).

148	(94)	CHARACTER	4	MIRCIRB1	CSCH IRB word 1.
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The first word of the IRB in the SCHIB as a result of the Store Subchannel in IOSRMIHR for Start Pending MIH condition.

152	(98)	CHARACTER	4	MIRSIRB1	STSCH SCHIB IRB word 1.
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Reserved for future data.

156	(9C)	CHARACTER	8	MIRRSV2	Reserved
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CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
MIR	0		MIRINTVL	54		MIRRSV2	9C	
MIRACTNA	5E		MIRJOBNM	18		MIRSCHIB	20	
MIRACTND	5D		MIRPCHPS	69		MIRSIRB1	98	
MIRACTNS	5F		MIRPIOSF	72		MIRSTRC1	92	
MIRADDL1	8A	80	MIRPLEVL	71		MIRSTRC2	93	
MIRCIRB1	94		MIRPLPM	66		MIRTYPE	5C	
MIRCLRRC	91		MIRPLPUM	67		MIRUALTC	78	80
MIRDATA	18		MIRPLVMS	73		MIRUCBCS	78	
MIRDFL4	89		MIRPMIHT	77		MIRUCBDS	82	
MIRDMOUN	88	80	MIRPPIM	68		MIRUCBPX	60	
MIRDVOLI	82		MIRPPMCH	64		MIRUCHAN	7A	
MIRFLAG1	8A		MIRPSID	60		MIRUFLC	79	
MIRFLAG2	8B		MIRRSNC	8C		MIRUSFLS	7C	
MIRHEADR	0		MIRRSVF1	8A	40	MIRUTYPE	7E	
MIRHLTRC	90		MIRRSV1	8D				

MLF

The mapping macro for this control block is object code only (OCO). Therefore, only selected information is presented for it.

OWNING COMPONENT: MVS Configuration Program (MVSCP)
SUBPOOL AND KEY: Subpool 1, user key
SIZE: Variable

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MLT

COMMON NAME Module Lists Table (MLT)
MACRO ID IOSDMLT
CREATED BY Assembler invocation of IOSDMLT
SUBPOOL AND KEY Loaded into the IPL work space during IPL
SIZE Variable length
POINTED TO BY Work field within IEAIPL40
SERIALIZATION None
FUNCTION The Module Lists Tables (MLTs) contain the lists of nucleus and LPA device support modules
 that are required to support the devices in an I/O configuration.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	76	MLT	Module Lists Table (MLT)
0	(0)	CHARACTER	4	MLTID	MLT identifier ('MLT ')
4	(4)	ADDRESS	4	MLTCHAIN	Address of next MLT or zero
8	(8)	CHARACTER	8	MLTCSECT	CSECT name of MLT
16	(10)	CHARACTER	8	MLTDATE	Date of assembly (mm/dd/yy)
24	(18)	SIGNED	4	*	Reserved, must be set to zero
28	(1C)	ADDRESS	4	MLTNUCP	Nucleus module list address
32	(20)	SIGNED	4	MLTNUCC	Nucleus module list count
36	(24)	ADDRESS	4	MLTLPAP	LPA module list address
40	(28)	SIGNED	4	MLTLPAC	LPA module list count
44	(2C)	CHARACTER	32	*	Reserved, must be zeros

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
MLT	0		MLTDATE	10		MLTLPAP	24	
MLTCHAIN	4		MLTID	0		MLTNUCC	20	
MLTCSECT	8		MLTLPAC	28		MLTNUCP	1C	

MMB

COMMON NAME: Monitor Message Block
 MACRO ID: IEAMMB
 DSECT NAME: MMB
 CREATED BY: IEAVMNSV
 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)
 MMBLINK field of the MMB data area (next MMB)
 SERIALIZATION: None
 FUNCTION: A monitor message block is created for each MQE queued for TPUT to monitoring terminals.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
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	MMBTYP1 (0)	MONITOR TYPE FLAGS
14	(E)	BITSTRING	1	MMBTYP1	FIRST BYTE OF MONITOR TYPE FLAGS
		1...		MMBJBNM	"BIT0" MONITOR JOB NAMES
		.1.		MMBSTAT	"BIT1" MONITOR STATUS
		..1.		MMBRV01	"BIT2" RESERVED
		...1		MMBRV02	"BIT3" RESERVED
		.... 1...		MMBRV03	"BIT4" RESERVED
		.... .1.		MMBSESS	"BIT5" MONITOR SESSIONS
		.... ..1.		MMBRV04	"BIT6" RESERVED
		.... ...1		MMBRV05	"BIT7" RESERVED
15	(F)	BITSTRING	1	MMBTYP2	SECOND BYTE OF MONITOR TYPE FLAGS
16	(10)	CHARACTER	128	MMBTEXT	MESSAGE TEXT
		1..1		MMBSIZE	"*-MMB" LENGTH OF MMB

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
MMBBKPTR	8		MMBRV03	E	8	MMBTEXT	10	
MMBJBNM	E	80	MMBRV04	E	2	MMBTXLN	C	
MMBLINK	4		MMBRV05	E	1	MMBTYP E	E	
MMBNAME	0		MMBSESS	E	4	MMBTYP E1	E	
MMBRV01	E	20	MMBSIZE	10	90	MMBTYP E2	F	
MMBRV02	E	10	MMBSTAT	E	40			

MPE

COMMON NAME: Modified Page Element
 MACRO ID: IARMPE
 DSECT NAME: MPE
 CREATED BY: IAREEMIG
 SUBPOOL AND KEY: 245 and key 0 (Residence - above 16M line)
 SIZE: 32 bytes
 POINTED TO BY: MPEBQPTR, MPEFQPTR, RABLMQF, RABLMQL
 SERIALIZATION: RSM locks
 FUNCTION: Represents a virtual page from the time it is migrated from extended storage until the time the page is made addressable.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	32	MPE	
0	(0)	ADDRESS	4	MPEFQPTR	FORWARD MPE QUEUE POINTER
4	(4)	ADDRESS	4	MPEBQPTR	BACKWARD MPE QUEUE POINTER
8	(8)	CHARACTER	4	MPEFWORD	FULL WORD DEFINITION
8	(8)	CHARACTER	1	MPEQID	QUEUE ID FOR CURRENT QUEUE 00=>UNQUEUED MPE E1=>THE LOCAL MPE QUEUE FD=>A FLAWED MPE
9	(9)	BITSTRING	1	MPEFLGS1	FLAG BYTE 1 NOTE THE FORMAT OF THIS FLAG BYTE IS THE SAME AS XPTFLGS1
		1...		MPEVLSID	LSID IN MPEDATA IS VALID
		.1..		MPEVLPID	LPID IN MPEDATA IS VALID
		..1.		MPEXAV	PAGE IS ON (OR IS GOING TO) A LOCATION OTHER THAN REAL STORAGE
		...1		*	RESERVED
		.... 1..		*	RESERVED CANNOT BE USED
		.... .111		*	RESERVED
10	(A)	BITSTRING	1	MPEFLGS2	FLAG BYTE 2
		1...		*	RESERVED
		.1..		MPEIOCUR	THE FRAME ASSOCIATED WITH THIS MPE HAS I/O IN PROGRESS
		..1.		MPEPAGNA	PAGE HAS BEEN LOST DUE TO SOME UNRECOVERABLE ERROR
		...1		MPEPESWS	THE PAGE ASSOCIATED WITH THIS MPE IS A SECONDARY WORKING SET PAGE.
		.... 1111		*	RESERVED
11	(B)	CHARACTER	1	MPEPESKEY	IF NON ZERO, THEN THIS IS THE NEW STORAGE KEY FOR THE PAGE. THE THREE LOW ORDER BITS MUST ALWAYS BE ZERO.
12	(C)	ADDRESS	4	*	RESERVED
16	(10)	ADDRESS	4	MPEVSA	THE VIRTUAL ADDRESS OF THE MIGRATED PAGE REPRESENTED BY THIS MPE
20	(14)	CHARACTER	8	MPEDATA	THE DATA THAT WAS COPIED FROM ESTDATA. NOTE THAT ESTDATA WAS COPIED FROM XPTDATA.
28	(1C)	ADDRESS	4	MPEPCB	THE VIRTUAL ADDRESS OF THE PCB ASSOCIATED WITH THIS MPE

CROSS-REFERENCE TABLE

<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>	<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>	<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>
MPE	0		MPEFWORD	8		MPESMS	A	10
MPEBQPTR	4		MPEIOCUR	A	40	MPEVLPID	9	40
MPEDATA	14		MPEPAGNA	A	20	MPEVLSID	9	80
MPEFLGS1	9		MPEPCB	1C		MPEVSA	10	
MPEFLGS2	A		MPEQID	8		MPEXAV	9	20
MPEFQPTR	0		MPEKEY	B				

MPFT

COMMON NAME: Message Processing Facility Table
 MACRO ID: IEEZB809
 DSECT NAME: MPFT, MPFTENTY
 CREATED BY: IE ECB805
 SUBPOOL AND KEY: Subpool 241 (CSA) and key 0
 SIZE: 32 bytes plus 24 bytes per entry.
 POINTED TO BY: UCMFMPFP field of the IE EUCM data area
 SERIALIZATION: None
 FUNCTION: Contains a sorted list of message ID's and/or prefixes that are eligible for processing by MPF.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	32	MPFT	MPF TABLE
0	(0)	CHARACTER	4	MPFTACRN	CHARACTERS 'MPFT'
4	(4)	UNSIGNED	1	MPFTVRSN	VERSION LEVEL
5	(5)	CHARACTER	1	MPFTRSV1	RESERVED
6	(6)	CHARACTER	2	MPFTSUFX	PARMLIB SUFFIX
8	(8)	UNSIGNED	1	MPFTSPN	SUBPOOL NUMBER
9	(9)	UNSIGNED	3	MPFTSIZE	SIZE OF MPF TABLE
12	(C)	UNSIGNED	2	MPFTNENT	NUMBER OF ENTRIES IN TABLE
14	(E)	UNSIGNED	2	MPFTENLN	LENGTH OF EACH ENTRY
16	(10)	ADDRESS	4	MPFTENTP	POINTER TO THE FIRST ENTRY
20	(14)	SIGNED	4	MPFTUCNT	USE COUNT
24	(18)	SIGNED	4	MPFTCECB	SET MPF COMMAND ECB
28	(1C)	ADDRESS	4	MPFTASCB	ASCB ADDRESS OF IE ECB805 TASK FOR IEAVM700 POST
0	(0)	STRUCTURE	24	MPFTENTY	MPF TABLE ENTRY MAPPING
0	(0)	CHARACTER	10	MPFMSGID	MESSAGE ID
10	(A)	UNSIGNED	1	MPFTIDLN	LENGTH OF MESSAGE ID
11	(B)	BITSTRING	1	MPFTEFLG	ENTRY FLAGS
		1... ..		MPFTPREF	PREFIX ENTRY
		.1..		MPFSUPMS	SUPPRESS THE MESSAGE
		..1.		MPFABEND	USER EXIT ROUTINE ABENDED
		...1		MPFNTFND	USER EXIT ROUTINE NOT FOUND
		.... 1...		MPFXACTV	EXIT IS ACTIVE
		.... .1..		MPFRETAN	AMRF SHOULD RETAIN THIS MSG
		.... ..11		*	RESERVED
12	(C)	CHARACTER	8	MPFEXNME	USER EXIT ROUTINE MODULE NAME
20	(14)	ADDRESS	4	MPFEXENT	ADDRESS OF ENTRY POINT

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
MPFABEND	B	20	MPFTASCB	1C		MPFTPREF	B	80
MPFEXENT	14		MPFTCECB	18		MPFTRSV1	5	
MPFEXNME	C		MPFTEFLG	B		MPFTSIZE	9	
MPFMSGID	0		MPFTENLN	E		MPFTSPN	8	
MPFNTFND	B	10	MPFTENTP	10		MPFTSUFY	6	
MPFRETAN	B	04	MPFTENTY	0		MPFTUCNT	14	
MPFSUPMS	B	40	MPFTIDLN	A		MPFTVRSN	4	
MPFT	0		MPFTNENT	C		MPFXACTV	B	08
MPFTACRN	0							

MPL

COMMON NAME: Monitor Parameter List
 MACRO ID: IEZMPL
 DSECT NAME: MPL
 CREATED BY: IEE7103D and IEE5503D
 SUBPOOL AND KEY: 229 and key 0 (part of SVC 34 XSA)
 SIZE: 8 bytes
 POINTED TO BY: N/A
 SERIALIZATION: None
 FUNCTION: Used as an interface between the monitor requester and the monitor queue manager (IEAVMNR).

OFFSETS						
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION	
0	(0)	SIGNED	2	MPLPROC (0)	PROCESSING FLAGS	
0	(0)	BITSTRING	1	MPLPROC1	FIRST BYTE OF PROCESSING FLAGS	
		1... ..		MPLCONS	"BIT0" MPLID IS A CONSOLE ID	
		.1.		MPLTERM	"BIT1" MPLID IS AN ASID FOR A TSO USER	
		..1.		MPLSTRT	"BIT2" START MONITOR	
		...1		MPLSTOP	"BIT3" STOP MONITOR	
		.... 1...		MPLRSV01	"BIT4,,C'X'" RESERVED	
		.... .1..		MPLRSV02	"BIT5,,C'X'" RESERVED	
		.... ..1.		MPLRSV03	"BIT6,,C'X'" RESERVED	
		.... ...1		MPLRSV04	"BIT7,,C'X'" RESERVED	
1	(1)	BITSTRING	1	MPLPROC2	SECOND BYTE OF PROCESSING FLAGS	
2	(2)	CHARACTER	2	MPLID	CONSOLE ID OR ASID	
4	(4)	SIGNED	2	MPLTYPE (0)	MONITOR TYPE FLAGS	
4	(4)	BITSTRING	1	MPLTYPE1	FIRST BYTE OF MONITOR TYPE FLAGS	
		1... ..		MPLJBNM	"BIT0" MONITOR JOB NAMES	
		.1.		MPLSTAT	"BIT1" MONITOR STATUS	
		..1.		MPLRSV05	"BIT2,,C'X'" RESERVED	
		...1		MPLRSV06	"BIT3,,C'X'" RESERVED	
		.... 1...		MPLRSV07	"BIT4,,C'X'" RESERVED	
		.... .1..		MPLSESS	"BIT5" MONITOR SESSIONS	
		.... ..1.		MPLRSV08	"BIT6,,C'X'" RESERVED	
		.... ...1		MPLRSV09	"BIT7,,C'X'" RESERVED	
5	(5)	BITSTRING	1	MPLTYPE2	SECOND BYTE OF MONITOR TYPE FLAGS	
		11.. .1..		MPLALL	"MPLJBNM+MPLSTAT+MPLSESS" ALL MONITOR FUNCTIONS	
6	(6)	CHARACTER	2	MPLRSV10	RESERVED	
		.... 1...		MPLSIZE	"*-MPL" LENGTH OF MPL	

CROSS-REFERENCE TABLE

<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>	<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>	<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>
MPLALL	5	C4	MPLRSV03	0	2	MPLSIZE	6	8
MPLCONS	0	80	MPLRSV04	0	1	MPLSTAT	4	40
MPLID	2		MPLRSV05	4	20	MPLSTOP	0	10
MPLJBNM	4	80	MPLRSV06	4	10	MPLSTRT	0	20
MPLPROC	0		MPLRSV07	4	8	MPLTERM	0	40
MPLPROC1	0		MPLRSV08	4	2	MPLTYPE	4	
MPLPROC2	1		MPLRSV09	4	1	MPLTYPE1	4	
MPLRSV01	0	8	MPLRSV10	6		MPLTYPE2	5	
MPLRSV02	0	4	MPLSESS	4	4			

MQE

COMMON NAME: IPL Message Queue Element
 MACRO ID: IHAMQE
 DSECT NAME: MQE
 CREATED BY: IEAIPL35 creates one MQE for each message it is requested to issue.
 NWTOTRAP (a subroutine of IEAVNIPM) creates one MQE for each message it is requested to issue.
 SUBPOOL AND KEY: MQEs are created in the IPL workspace. IEAIPL99 copies the MQEs to SQA (SP 245, below 16 megabytes) before the IPL workspace is deleted.
 SIZE:
 POINTED TO BY: MQH1ST (points to the first MQE on the IPL message queue)
 MQHNTH (points to the last MQE on the IPL message queue)
 FUNCTION: During IPL a console is not available. Messages issued during IPL are therefore saved in MQEs, which are queued on to the IPL Message Queue. Messages contained in MQEs are issued when the NIP console is initialized.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	10	MQE	IPL Message Queue Element.
0	(0)	CHARACTER	6	MQEM	Portion of the MQE used to manage the IPL Message Queue.
0	(0)	ADDRESS	4	MQENEXT	Pointer to the next younger MQE on the queue.
4	(4)	UNSIGNED	2	MQELEN	Length of this MQE. This length is the length of the entire MQE, including message text length and the length of both headers (MQEM & MQENWTOH).
6	(6)	CHARACTER	4	MQENWTOH	NIPWTO message header. This field is mapped by the structure NWTOHDR contained in the macro IEAPMNIP.
10	(A)	CHARACTER	*	MQETEXT	Variable length message text.

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MQH

COMMON NAME IPL Message Queue Header (MQH)
MACRO ID IHAMQH
CREATED BY IEAIPL30 creates one MQH.
SUBPOOL AND KEY Created in the IPL work space, copied to subpool 245.
SIZE 12 bytes
POINTED TO BY IVTMQHP during IPL
NVTMQHP during NIP
SERIALIZATION None
FUNCTION The MQH is the header for the IPL message queue. During IPL a console is not available. Messages issued during IPL are therefore saved in Message Queue Elements (MQEs), which are queued on to the IPL Message Queue. Messages contained in MQEs are issued when the NIP console is initialized.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	12	MQH	IPL Message Queue Header.
0	(0)	ADDRESS	4	MQH1ST	Pointer to the first (oldest) MQE.
4	(4)	ADDRESS	4	MQHCOUNT	Number of MQE's on the queue.
8	(8)	ADDRESS	4	MQHINTH	Pointer to the Nth (youngest) MQE.

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MRB

COMMON NAME: Message Request Block
 MACRO ID: ISGMRB
 DSECT NAME: None
 CREATED BY: All callers of ISGMSG00, ISGGDEQP, ISGGFRRO
 SUBPOOL AND KEY: 229 and Key 0
 SIZE: 88 bytes
 POINTED TO BY: GVT - GVTCDRQ, GVTCDWQ, GVTMDCQ; CRB - CRBNCRB, MRBPCRB; 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
DEC	HEX				
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
		.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 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

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
		.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 BEING PROCESSED ON THIS SYSTEM
46	(2E)	.... ..11 BITSTRING	1	* MRBSPFLG	RESERVED 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)
47	(2F)	..11 1111 BITSTRING	1	* MRBCNFLG	RESERVED 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		MRBASIDF *	ASID FLAG WHEN 1, MRB CONTAINS ASID VALUES 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)
56	(38)	SIGNED	2	MRBASID (4)	UP TO FOUR ASID VALUES FOR MRBASIDF MESSAGES
64	(40)	CHARACTER	24	MRBRNAME	RNAME FOR MESSAGE TEXT (VALID WHEN MRBRESNM = '1'B)
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		MRBEND	END OF MRB

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX- OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
MRB	0		MRBJOIN	2D	40	MRBRMSID	24	
MRBARSZ	A		MRBMSGID	1C		MRBRNAME	40	
MRBASID	38		MRBNMRB	0		MRBRPTCB	10	
MRBASIDF	2F	10	MRBNONE	2D	20	MRBRQCMP	9	80
MRBBDCST	2E	40	MRBORSYS	2E	80	MRBRQFLG	2D	
MRBCEPL	C		MRBPMRB	4		MRBRSTRQ	2D	10
MRBCMPCD	51		MRBPRGRQ	2D	04	MRBRTYPE	8	
MRBCNFLG	2F		MRBQNAME	38		MRBSPFLG	2E	
MRBCTCDA	55		MRBQSCRQ	2D	08	MRBSTART	2D	80
MRBECODE	4A		MRBQUECK	9	08	MRBSTFLG	9	
MRBEND	58		MRBRCODE	49		MRBSTPNM	40	
MRBFCODE	48		MRBRECNO	4E		MRBSUFNO	4C	
MRBHDR	0		MRBREPAR	28		MRBSYNM1	30	
MRBICNID	23		MRBREPLN	2C		MRBSYNM2	38	
MRBIMOPT	22		MRBRESNM	2F	40	MRBSYSNM	2F	80
MRBIMSID	20		MRBRMOPT	26		MRBTSKNM	2F	20
MRBJOBNM	38		MRBRMRB	18				

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MSG

COMMON NAME: RMS Message Content Block
MACRO ID: IGFMSG
DSECT NAME: MSG
SUBPOOL AND KEY: NUCLEUS and key 0 (Residence - above 16M line)
SIZE: 12 bytes (there are eight content blocks for each on-line CPU)
POINTED TO BY: RVTMSCPT field of the RVT data area.
FUNCTION: The information contained in the message content block is used by MCH module IGFPMMSG to put out an operator awareness message to the operator's console.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	12	MSG	
0	(0)	CHARACTER	1	MSGCTL	CONTROL BYTE USED BY IGFPMMSG TO RESERVE MCH MSG BUFFER
1	(1)	CHARACTER	1	MSGNUM	MSG NUMBER TO BE CONVERTED TO DECIMAL CHARACTERS TO REPLACE 'XX' IN THE MSG PREFIX IGF9XXI (THE VALUE X'00' INDICATES THAT THE MSG BUFFER IS NOT READY FOR RECORDING)
2	(2)	CHARACTER	1	MSGTAB1	CODE USED TO LOCATE DATA FOR A 1ST TABLE SUBSTITUTION INTO A MSG
3	(3)	CHARACTER	1	MSGTAB2	CODE USED TO LOCATE DATA FOR A 2ND TABLE SUBSTITUTION INTO A MSG
4	(4)	CHARACTER	8	MSGCHAR	EIGHT BYTE FIELD OF CHARACTER DATA TO BE MOVED INTO MSG FOR A CHARACTER SUBSTITUTION
4	(4)	CHARACTER	4	MSGVAR1	FOUR BYTE FIELD OF BINARY DATA TO BE CONVERTED TO DECIMAL OR HEX CHARACTERS AND TO BE MOVED INTO MSG FOR 1ST DECIMAL OR HEX SUBSTITUTION INTO A MSG
8	(8)	CHARACTER	4	MSGVAR2	FOUR BYTE FIELD OF BINARY DATA TO BE CONVERTED TO DECIMAL OR HEX CHARACTERS AND TO BE MOVED INTO MSG FOR 2ND DECIMAL OR HEX SUBSTITUTION INTO A MSG

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MSRASDCA

COMMON NAME: Master Scheduler RAS Data Communications Area
 MACRO ID: IEEZB808
 DSECT NAME: MSRASDCA
 CREATED BY: IE ECB860, IEE0003D
 SUBPOOL AND KEY: 230 and Key 0
 SIZE: 116 bytes
 POINTED TO BY: Register 3, on return from IE ECB860; XAMSRAS field of the SVC 34 extended save area.
 SERIALIZATION: None
 FUNCTION: Supplies command processor recovery routines with information to be inserted in the SDWA.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	CHARACTER	4	MSRCBID	CONTROL BLOCK ID MRAS
4	(4)	CHARACTER	1	MSRVERSN	VERSION LEVEL
		....	..1	MSRSP21	"1" VERSION LEVEL OS/VS2 HBB2102
		....	..1	MSRSP212	"2" VERSION LEVEL OS/VS2 JBB2125
		....	..1	MSRVERID	"MSRSP212" VERSION LEVEL UPDATED FOR SIZE OR INCOMPATIBLE CHANGE
5	(5)	BITSTRING	1	MSRFLGS1	FLAGS BYTE
		1...	....	MSRNOMSG	"X'80'" DO NOT ISSUE MESSAGE
6	(6)	CHARACTER	2	MSRES1	RESERVED
8	(8)	CHARACTER	8	MSRLNAME	FAILING LOAD MODULE NAME
16	(10)	CHARACTER	8	MSRCNAME	FAILING CSECT NAME
21	(15)	CHARACTER	1	MSREXITF	IF SET TO 'X' CSECT IS NOT IN CONTROL
		111.	..111	MSREXITI	"C'X'" USED TO INDICATE CSECT NOT IN CONTROL
24	(18)	CHARACTER	5	MSRCMPID	COMPONENT ID OF FAILING MODULE
29	(1D)	CHARACTER	23	MSRCMND	FAILING COMMAND
52	(34)	CHARACTER	16	MSRMODLV	LEVEL OF FAILING MODULE
68	(44)	CHARACTER	4	MSREASNC	REASON CODE OR RETURN CODE FOR ABEND
72	(48)	BITSTRING	2	MSRDSIZE	LENGTH OF VARIABLE DATA AREA
74	(4A)	BITSTRING	2	MSRDLEN	LENGTH OF VARIABLE DATA
76	(4C)	SIGNED	2	MSRDPVA (0)	FLAGS DESCRIBING MSRVRA, TO BE MOVED TO SDWAVRA
76	(4C)	BITSTRING	1	MSRDPVA1	BYTE ONE OF SDWADPVA
		1...	....	MSRHEX	"X'80'" MSRVRA DATA TO BE PRINTED BY EREP IN HEX
		..1.	....	MSREBC	"X'40'" MSRVRA DATA TO BE PRINTED BY EREP IN EBCDIC
		..1.	....	MSRVRA	"X'20'" MSRVRA DATA IS IN THE FORMAT MAPPED BY THE IHAVRA MACRO
77	(4D)	BITSTRING	1	MSRDPVA2	RESERVED
78	(4E)	SIGNED	2	MSRES2	RESERVED
80	(50)	SIGNED	4	MSRES3	RESERVED
84	(54)	ADDRESS	4	MSRVRAD	ADDRESS OF MSRVRA
88	(58)	ADDRESS	4	MSRRTYAD	ADDRESS OF RETRY ROUTINE WHERE AN SDWA IS AVAILABLE
92	(5C)	ADDRESS	4	MSRRTYNS	ADDRESS OF RETRY ROUTINE IN THE EVENT OF NO SDWA
96	(60)	ADDRESS	4	MSRCLPAD	ADDRESS OF CLEANUP ROUTINE
100	(64)	ADDRESS	4	MSRRUBAD	ADDRESS OF REGISTER UPDATE BLOCK MUST BE PROVIDED IF RETRY SPECIFIED
104	(68)	ADDRESS	4	MSRDMPEX	ADDRESS OF DUMP EXIT
108	(6C)	CHARACTER	8	MSRES4	RESERVED
0	(0)	CHARACTER	255	MSRVRA	VARIABLE DATA TO BE MOVED TO SDWAVRA

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
MSRCBID	0		MSREBC	4C	40	MSRNOMSG	5	80
MSRCLPAD	60		MSRES1	6		MSRRTYAD	58	
MSRCMND	1D		MSRES2	4E		MSRRTYNS	5C	
MSRCMPID	18		MSRES3	50		MSRRUBAD	64	
MSRCNAME	10		MSRES4	6C		MSRSP21	4	1
MSRDLEN	4A		MSREXITF	15		MSRSP212	4	2
MSRDMPEX	68		MSREXITI	15	E7	MSRVERID	4	2
MSRDPVA	4C		MSRFLGS1	5		MSRVERSN	4	
MSRDPVA1	4C		MSRHEX	4C	80	MSRVRA	0	
MSRDPVA2	4D		MSRLNAME	8		MSRVRAD	54	
MSRDSIZE	48		MSRMODLV	34		MSRVRAM	4C	20
MSREASNC	44							

MTT

COMMON NAME: Master Trace Table
 MACRO ID: IEEZB806
 DSECT NAME: MTTABLE
 CREATED BY: IEEMB809
 SUBPOOL AND KEY: Subpool 229 and Key 0
 SIZE: Header 128 bytes, entry 10 bytes plus data length; total size varies from 24K to 99K bytes.
 POINTED TO BY: BAMTTBL field of the BASEA data area
 SERIALIZATION: CMS and local locks
 FUNCTION: Contains the most recently issued operator messages.

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
0	(0)	STRUCTURE	128	MTTABLE	ALIGN MASTER TRACE TABLE MAPPING TO A DOUBLE WORD BOUNDARY
0	(0)	CHARACTER	128	MTTHDRA	HEADER AREA OF TABLE
0	(0)	CHARACTER	4	MTTID	MASTER TRACE TABLE IDENT.
4	(4)	ADDRESS	4	MTTCURPT	ADDR OF CURRENT ENTRY
8	(8)	ADDRESS	4	MTTENTPT	ADDR OF STORAGE AREA FOR TABLE ENTRIES
12	(C)	ADDRESS	4	MTTENDPT	ADDR OF FIRST BYTE BEYOND END OF TABLE
16	(10)	UNSIGNED	4	MTTSIZE	SUBPOOL AND LENGTH FOR FREEMAIN
16	(10)	UNSIGNED	1	MTTSP	SUBPOOL OF TABLE
17	(11)	UNSIGNED	3	MTTLEN	LENGTH OF TABLE
20	(14)	CHARACTER	12	MTTWRPTM	TIME TABLE INITIALIZED OR TIME LAST WRAPPED IN FORM IT/WHH:MM:SS.S, PRODUCED VIA THE USE OF THE CONTIME MACRO
32	(20)	ADDRESS	4	MTTWRPPT	ADDR OF LAST ENTRY STORED BEFORE TABLE WRAP
36	(24)	BITSTRING	4	MTTPFLAG	MASTER TRACE FACILITY PROCESSING INTERNAL TRACING FLAGS USED BY IEEMB808 AND IEEMB809
40	(28)	SIGNED	4	MTTDAREA	DATA AREA LENGTH
44	(2C)	CHARACTER	4	MTTRSVD1	RESERVED WORD TO ASSURE DWORD BDY FOR MTTWK808
48	(30)	CHARACTER	64	MTTWK808	WORK AREA FOR IEEMB808
112	(70)	CHARACTER	16	MTTRSVD2	RESERVED WORDS
128	(80)	CHARACTER	*	MTTENTA	STORAGE AREA FOR TABLE ENTRIES
0	(0)	STRUCTURE	10	MTENTRY	ALIGNS TO BYTE BNDRY
0	(0)	CHARACTER	10	MTENTHDR	TABLE ENTRY HEADER
0	(0)	BITSTRING	2	MTENTFLG	FLAGS SET BY CALLER
2	(2)	BITSTRING	2	MTENTTAG	IDENTIFIES CALLER
4	(4)	BITSTRING	4	MTENTIMM	CALLERS IMMEDIATE DATA
8	(8)	BITSTRING	2	MTENTLEN	LENGTH OF CALLER'S DATA
10	(A)	CHARACTER	*	MTENTDAT	DATA PASSED BY CALLER

CROSS-REFERENCE TABLE

<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>	<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>	<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>
MTENTDAT	A		MTTCURPT	4		MTTPFLAG	24	
MTENTFLG	0		MTTDAREA	28		MTTRSVD1	2C	
MTENTHDR	0		MTTENDPT	C		MTTRSVD2	70	
MTENTIMM	4		MTTENTA	80		MTTSIZE	10	
MTENTLEN	8		MTTENTPT	8		MTTSP	10	
MTENTRY	0		MTTHDRA	0		MTTWK808	30	
MTENTTAG	2		MTTID	0		MTTWRPPT	20	
MTTABLE	0		MTTLEN	11		MTTWRPTM	14	

NEL

COMMON NAME: Interpreter Entrance List
 MACRO ID: IEFNEL
 DSECT NAME: NEL
 CREATED BY: IEFIB600, JES2
 SUBPOOL AND KEY: 253 and key 0
 SIZE: 136 bytes
 POINTED TO BY: Input to the Interpreter from SWA Create Interface; input to the converter from JES2
 SERIALIZATION: None
 FUNCTION: Provides a symbolic mapping of the parameter lists required when invoking the Converter or Interpreter subroutines. Each list and its exit sublist must be constructed in dynamically allocated core prior to calling the Converter or Interpreter.

NOTE: The offsets of the NEL exits (IAM, FAM, QEP, SMF, TXT, RTN, IDV, QLP) will not always appear as shown. These offsets depend on the order and number at the time the NEL is expanded.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	DBL WORD	8	NELLIST (0)	
0	(0)	ADDRESS	4	NELQMPA	PTR TO QMPA PROVIDING ACCESS TO CALLER'S SWA
4	(4)	ADDRESS	4	NELEXLST	PTR TO C/I'S LIST OF SPECIAL EXITS
8	(8)	ADDRESS	4	NELCOMID	PTR TO CONSOLE IDENTIFIER
12	(C)	ADDRESS	4	NELTXTCB	PTR TO OPEN ACB FOR INTERNAL TEXT DATA SET
16	(10)	ADDRESS	4	NELMSGCB	PTR TO OPEN ACB FOR MESSAGE DATA SET
20	(14)	ADDRESS	4	NELJMR	PTR TO JOB MANAGEMENT RECORD

NEL OPTION SWITCHES COMMON TO CONVERTER AND INTERPRETER

24	(18)	BITSTRING	1	NELOPSWT	OPTION SWITCHES
		1...		NELSMF	"X'80'" IF ZERO, INDICATES A STARTED TASK
		.1..		NELTSOP	"X'40'" TERM=TS HAS BEEN SPECIFIED AND OVERRIDES ALL OTHER PARAMETERS ON THE DD STATEMENT
		..1.		NELRECVY	"X'20'" PROCESSING IS IN RECOVERY MODE AND MESSAGES ARE TO BE SUPPRESSED
		...1		NELCNDGM	"X'10'" USE CONDITIONAL GETMAINS
25	(19)	ADDRESS	3	NELSYSNP	POINTER TO NAME OF THE SUBSYSTEM THAT SELECTED THIS JOB

CONVERTER POINTERS

28	(1C)	ADDRESS	4	NELJCLCB	PTR TO OPEN ACB FOR SPOOLED JCL DATA SET
32	(20)	ADDRESS	4	NELPROCB	PTR TO OPEN DCB FOR PROCEDURE LIBRARY
36	(24)	ADDRESS	4	NELSTMCB	PTR TO OPEN ACB FOR STATEMENT IMAGE DATA SET

CONVERTER PARM FIELD MAPPING

40	(28)	CHARACTER	1	NELPARMO	PARAMETER OPTIONS
		.... ...1		NELPGMN	"X'01'" PROGRAMMER NAME REQUIRED
		.... ..1.		NELACCT	"X'02'" ACCOUNT NUMBER REQUIRED
		.... ..1..		NELXA2	"X'04'" USER SWA ABOVE INDICATOR
41	(29)		2	NELJPRTY	DEFAULT JOB PRIORITY
43	(2B)		6	NELTIME	DEFAULT FOR JOB TIME LIMIT
49	(31)		3	NELREG	DEFAULT REGION SIZE
52	(34)		1	NELCOMDS	COMMAND DISPOSITION 0 EXECUTE COMMAND 1 DISPLAY AND EXECUTE COMMAND 2 DISPLAY AND REQUEST DISPOSITION 3 IGNORE COMMAND LABEL PROCESSING 0 BLP WILL BE TREATED AS NL 1 BLP WILL BE TREATED AS BYPASS LABEL
53	(35)		1	NELLABEL	
54	(36)	CHARACTER	4	NELAUTH	MCS COMMAND AUTHORITY

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
58	(3A)	CHARACTER	1	NELMSGCL1	JCL MSGLEVEL DEFAULT
59	(3B)	CHARACTER	1	NELMSGCL2	ALLOCATION MSGLEVEL DEFAULT
60	(3C)	CHARACTER	1	NELMSGCL	DEFAULT SYSTEM OUTPUT CLASS(MSGCLASS)
61	(3D)	CHARACTER	5		RESERVED
		.1..	..1.	NELCSIZE	"*" USED TO DETERMINE SIZE OF CONVERTER DATA

INTERPRETER POINTERS

28	(1C)	ADDRESS	4	NELJCT	PTR TO JCT IN SWA
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INTERPRETER OPTION SWITCH

32	(20)	BITSTRING	1	NELOPSW2	OPTION SWITCHES BYTE 2
		1... ..		NELADSPC	"X'80'" FAIL JOB IF ADDRSPC=REAL CODED BY UNAUTHORIZED USER(E.G. LOGON PROC)
		.1.. ..		NELSWBSP	"X'40'" SWB SUPPORT IS TO BE PROVIDED
		..1.		NELXA1	"X'20'" CALLER SWA ABOVE INDICATOR
		...1		NELSISO	"X'10'" SYSIN/SYSOUT SWA BELOW INDICATOR
33	(21)	CHARACTER	7		RESERVED
		..1. 1...		NELISIZE	"*" USED TO DETERMINE SIZE OF INTERPRETER DATA

NEL EXIT LIST MAPPING

		.1..	1...	NELEXTLN	"72" SYMBOLIC LENGTH OF EXIT LIST
72	(48)	DBL WORD	8	NELEXITS (0)	
72	(48)	CHARACTER	8	NELEXHDR (0)	
72	(48)	SIGNED	2	NELEXLEN	EXIT LIST HEADER RECORD LIST LENGTH
74	(4A)	SIGNED	2	NELXRTCD	INTERPRETER RETURN CODE
76	(4C)	CHARACTER	4		
80	(50)	CHARACTER	8	IAMEXIT (0)	
80	(50)	BITSTRING	1	IAMEXLK	LINKAGE DEFINITION
81	(51)	BITSTRING	1	IAMEXID	EXIT IDENTIFICATION
82	(52)	CHARACTER	6	IAMEXEP	ENTRY POINT
88	(58)	CHARACTER	8	FAMEXIT (0)	
88	(58)	BITSTRING	1	FAMEXLK	LINKAGE DEFINITION
89	(59)	BITSTRING	1	FAMEXID	EXIT IDENTIFICATION
90	(5A)	CHARACTER	6	FAMEXEP	ENTRY POINT
96	(60)	CHARACTER	8	QEPEXIT (0)	
96	(60)	BITSTRING	1	QEPEXLK	LINKAGE DEFINITION
97	(61)	BITSTRING	1	QEPEXID	EXIT IDENTIFICATION
98	(62)	CHARACTER	6	QEPEXEP	ENTRY POINT
104	(68)	CHARACTER	8	SMFEXIT (0)	
104	(68)	BITSTRING	1	SMFEXLK	LINKAGE DEFINITION
105	(69)	BITSTRING	1	SMFEXID	EXIT IDENTIFICATION
106	(6A)	CHARACTER	6	SMFEXEP	ENTRY POINT
112	(70)	CHARACTER	8	TXTEXIT (0)	
112	(70)	BITSTRING	1	TXTEXLK	LINKAGE DEFINITION
113	(71)	BITSTRING	1	TXTEXID	EXIT IDENTIFICATION
114	(72)	CHARACTER	6	TXTEXEP	ENTRY POINT
120	(78)	CHARACTER	8	RTNEXIT (0)	
120	(78)	BITSTRING	1	RTNEXLK	LINKAGE DEFINITION
121	(79)	BITSTRING	1	RTNEXID	EXIT IDENTIFICATION
122	(7A)	CHARACTER	6	RTNEXEP	ENTRY POINT
128	(80)	CHARACTER	8	QLPEXIT (0)	
128	(80)	BITSTRING	1	QLPEXLK	LINKAGE DEFINITION
129	(81)	BITSTRING	1	QLPEXID	EXIT IDENTIFICATION

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
130	(82)	CHARACTER	6	QLPEXEP	ENTRY POINT
136	(88)	CHARACTER	8	JDVEXIT (0)	
136	(88)	BITSTRING	1	JDVEXLK	LINKAGE DEFINITION
137	(89)	BITSTRING	1	JDVEXID	EXIT IDENTIFICATION
138	(8A)	CHARACTER	6	JDVEXEP	ENTRY POINT

GENERAL EXIT LIST ENTRY MAPPING

144	(90)	CHARACTER	1	NELEXENT (0)	ORIGIN ZERO
144	(90)	CHARACTER	1	NELEXLK	LINKAGE IDENTIFICATION
145	(91)	CHARACTER	1	NELEXID	EXIT IDENTIFICATION
146	(92)	CHARACTER	6	NELEXEP	EXIT ENTRY POINT
	1..1	.1..		NELEXEPA	"NELEXEP+2" DISPL OF ADDR SPECIFIED

CONSTANTS USED IN EXIT LIST GENERATION

..1.	....	NELEXAD4	"X'20'"	ENTRY POINT SPECIFIED AS 4 BYTE ADDR
.1..	....	NELEXADD	"X'40'"	ENTRY POINT SPECIFIED AS 3 BYTE ADDRESS
1...	....	NELEXNAM	"X'80'"	ENTRY POINT SPECIFIED AS 6 BYTE MODULE NAME
11..	....	NELEXVCN	"X'C0'"	ENTRY POINT SPECIFIED AS V CON AT EXIT POINT
....	....	NELEXNOP	"X'00'"	EXIT ENTRY IS TO BE IGNORED
.1..	....	NELIAMEX	"X'40'"	SPECIAL INPUT ACCESS METHOD EXIT ID
..11	....	NELJDVEX	"X'30'"	SPECIAL DATA JDVT NAME POINTER ID
..1.	....	NELRTNEX	"X'20'"	SPECIAL RETURN EXIT ID
...1	....	NELFAMEX	"X'10'"	SPECIAL FIND ACCESS METHOD EXIT ID
....	1..	NELQEPEX	"X'08'"	SPECIAL QUEUE MANAGER ENTRY POINT ID
1...	....	NELTXTEX	"X'80'"	POST SCAN TEXT EXIT ID
....	.111	NELSMFEX	"X'07'"	SYSTEM MANAGEMENT FACILITIES EXIT ID
....	.1..	NELQLPEX	"X'04'"	SPECIAL QUEUE MANAGER FOR LOCATE MODE ENTRY POINT

ID

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
FAMEXEP	5A		NELEXNOP	92	0	NELSTMCB	24	
FAMEXID	59		NELEXTLN	28	48	NELSNBSP	20	40
FAMEXIT	58		NELEXVCN	92	C0	NELSYSNP	19	
FAMEXLK	58		NELFAMEX	92	10	NELTIME	2B	
IAMEXEP	52		NELIAMEX	92	40	NELTSOP	18	40
IAMEXID	51		NELISIZE	21	28	NELTXTCB	C	
IAMEXIT	50		NELJCLCB	1C		NELTXTEX	92	80
IAMEXLK	50		NELJCT	1C		NELXA1	20	20
JDVEXEP	8A		NELJDVEX	92	30	NELXA2	28	4
JDVEXID	89		NELJMR	14		NELXRTECD	4A	
JDVEXIT	88		NELJPRTY	29		QEPEXEP	62	
JDVEXLK	88		NELLABEL	35		QEPEXID	61	
NELACCT	28	2	NELLIST	0		QEPEXIT	60	
NELADSPC	20	80	NELMSGCB	10		QEPEXLK	60	
NELAUTH	36		NELMSGCL	3C		QLPEXEP	82	
NELCNDGM	18	10	NELMSG1	3A		QLPEXID	81	
NELCOMDS	34		NELMSG2	3B		QLPEXIT	80	
NELCOMID	8		NELOPSWT	18		QLPEXLK	80	
NELCSIZE	3D	42	NELOPSW2	20		RTNEXEP	7A	
NELEXADD	92	40	NELPARMO	28		RTNEXID	79	
NELEXAD4	92	20	NELPGMN	28	1	RTNEXIT	78	
NELEXENT	90		NELPROC8	20		RTNEXLK	78	
NELEXEP	92		NELQEPEX	92	8	SMFEXEP	6A	
NELEXEPA	92	94	NELQLPEX	92	4	SMFEXID	69	
NELEXHDR	48		NELQMPA	0		SMFEXIT	68	
NELEXID	91		NELRECVY	18	20	SMFEXLK	68	
NELEXITS	48		NELREG	31		TXTEXEP	72	
NELEXLEN	48		NELRTNEX	92	20	TXTEXID	71	
NELEXLK	90		NELSISO	20	10	TXTEXIT	70	
NELEXLST	4		NELSMF	18	80	TXTEXLK	70	
NELEXNAM	92	80	NELSMFEX	92	7			

NLLE

COMMON NAME: Nucleus load list element
 OWNING COMPONENT: IPL (SC1C9)
 MACRO ID: IEANLLE
 DSECT NAME: None
 CREATED BY: IEAIPL40 creates the NLLEs for the device support modules
 IEAIPL41 creates the NLLE for the base nucleus module (IEANUC0x)
 SUBPOOL AND KEY: Resides in the IPL work space
 SIZE: 48 bytes
 POINTED TO BY: IVTNLLEF field of IVT data area (points to first NLLE in chain)
 IVTNLLEL field of IVT data area (points to last NLLE in chain)
 NLLNEXT field of NLLE data area (points to next NLLE in chain)
 SERIALIZATION: None
 FUNCTION: An NLLE is built for each module that is loaded into the DAT-on nucleus region. Each NLLE contains the SYS1.NUCLEUS member name of the module as well as a work area for the nucleus loading and mapping routines (IEAIPL41, IEAIPL05 and IEAIPL02).

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	48	NLLE	Nucleus load list element
0	(0)	CHARACTER	4	NLLID	NLLE identifier ('NLLE')
4	(4)	ADDRESS	4	NLLNEXT	Pointer to next NLLE
8	(8)	CHARACTER	8	NLLNAME	SYS1.NUCLEUS member name of module
16	(10)	ADDRESS	4	NLLPDS	Pointer to PDS directory entry
20	(14)	ADDRESS	4	NLLCESDP	Pointer to CESD list
24	(18)	SIGNED	4	NLLCESDL	Length of CESD list
28	(1C)	ADDRESS	4	NLLRLOCP	Pointer to relocation tables
32	(20)	SIGNED	4	NLLRLOCL	Length of relocation tables
36	(24)	SIGNED	2	NLLDIMCE	Dimension of CESD list
38	(26)	SIGNED	2	NLLCSECT	Number of CSECTs in module
40	(28)	SIGNED	2	NLLESDID	ESDID of control section to which first block of text belongs
42	(2A)	SIGNED	2	*	Reserved
44	(2C)	SIGNED	4	NLLEPTAB	Position in the nucleus entry point table where the current load module ends and the next load module begins.

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
NLLCESDL	18		NLLEPTAB	2C		NLLNEXT	4	
NLLCESDP	14		NLLESID	28		NLLPDS	10	
NLLCSECT	26		NLLID	0		NLLRLOCL	20	
NLLDIMCE	24		NLLNAME	8		NLLRLOCP	1C	
NLLE	0							

NMSG

COMMON NAME: NIP Hardcopy Message Muffer
 OWNING COMPONENT: Comm Task (SC101)
 MACRO ID: IEZVM100
 DSECT NAME: NMSG
 CREATED BY: NIP
 SUBPOOL AND KEY: 245 and key 0
 SIZE: Variable (contained in field NMSGBUFS)
 POINTED TO BY: During NIP processing: NVTMBUP field of the NVT data area
 UCMNIPTR field of UCM Event Indication List
 SERIALIZATION: None
 FUNCTION: Contains the messages issued during NIP.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	32	NMSG	NIP Hardcopy Message Buffer
0	(0)	CHARACTER	32	NMSGHDR	Header information
0	(0)	CHARACTER	4	NMSGACRN	Acronym 'NMSG'
4	(4)	UNSIGNED	1	NMSGVRSN	Version level
5	(5)	UNSIGNED	1	NMSGSP	Subpool number
6	(6)	CHARACTER	2	*	Reserved
8	(8)	ADDRESS	4	NMSGNBUF	Pointer to the next NIP Hardcopy Message Buffer or zero if this is the last, or only, NIP Hardcopy Message Buffer
12	(C)	ADDRESS	4	NMSGFENT	Pointer to the first parameter list for NIP message (i.e. Address of NMSGENTA)
16	(10)	ADDRESS	4	NMSGLENT	Pointer to the last parameter list for NIP message
20	(14)	SIGNED	4	NMSGBUFS	Size of the entire NIP buffer, including the header
24	(18)	CHARACTER	8	*	Reserved

Storage area for NIP messages

32	(20)	CHARACTER	*	NMSGENTA	In the form of parameter lists for messages issued during NIP
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CROSS-REFERENCE TABLE

<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>	<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>	<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>
NMSG	0		NMSGFENT	C		NMSGNBUF	8	
NMSGACRN	0		NMSGHDR	0		NMSGSP	5	
NMSGBUFS	14		NMSGLENT	10		NMSGVRSN	4	
NMSGENTA	20							

NSSA

COMMON NAME: RTM Normal Stack Save Area
MACRO ID: IHANSSA
DSECT NAME: NSSA
SUBPOOL AND KEY: 239 and key 0
SIZE: 824 bytes
SERIALIZATION: None
FUNCTION: The NSSA contains a saved copy of the normal FRR Stack when an enabled unlocked task has established FRRs using the EUT=YES option of SETFRR macro.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	824	NSSA	
0	(0)	CHARACTER	4	NSSAID	CONTROL BLOCK ID NSSA
4	(4)	ADDRESS	4	NSSALINK	POINTER TO NEXT NSSA IN POOL
8	(8)	CHARACTER	816	NSSAFRRS	AREA LARGE ENOUGH TO HOLD ENTIRE NORMAL STACK MINUS 12 BYTES
824	(338)	CHARACTER		*	

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NUCMP

COMMON NAME: Nucleus Map Entry
 MACRO ID: IEANUCMP
 DSECT NAME: NUCMENT
 CREATED BY: IEAIPLO5
 SUBPOOL AND KEY: Subpool Nucleus and Key 0 (Residence - above 16M line)
 SIZE: 16 bytes each entry
 POINTED TO BY: CVTNUCMP
 SERIALIZATION: None
 FUNCTION: Describes the format of a Nucleus Map Entry.

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
0	(0)	STRUCTURE	16	NUCMENT	ENTRY IN THE NUCLEUS MAP
0	(0)	CHARACTER	8	NUCMNAME	CSECT OR ENTRY POINT NAME
8	(8)	ADDRESS	4	NUCMADDR	ADDRESS OF ENTRY POINT
12	(C)	CHARACTER	1	NUCMFLAG	VARIOUS ASSORTED FLAGS
		111.		*	UNUSED, MUST BE 0
		...1		NUCMSECT	1 IF CSECT
		.... 1...		NUCMRSEC	RSECT FLAG
		.... .1..		NUCMRMOD	RMODE FLAG, (0 24 BIT), (1 ANY)
		.... ..11		NUCMAMOD	AMODE FLAG, (00 24 BIT), (01 24 BIT), (10 31 BIT), (11 ANY)
13	(D)	UNSIGNED	3	NUCMLEN	LENGTH TO END OF CSECT

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
NUCMADDR	8		NUCMFLAG	C		NUCMRMOD	C	04
NUCMAMOD	C	02	NUCMLEN	D		NUCMRSEC	C	08
NUCMENT	0		NUCMNAME	0		NUCMSECT	C	10

NVT

COMMON NAME: NIP Vector Table
 MACRO ID: IHANVT
 DSECT NAME: NVT
 CREATED BY: IEAVNIPO, IEAVNIPM
 SUBPOOL AND KEY: Nucleus, then moved to subpool 245 and key 0
 SIZE: 588 bytes
 POINTED TO BY: CVTNVTO
 SERIALIZATION: None
 FUNCTION: The NVT is the basic control block used during NIP processing. It contains pointers to numerous NIP-associated control blocks and to various NIP service routines.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	588	NVT	BEGIN BASED NVT
0	(0)	CHARACTER	4	NVTID	CONTROL BLOCK ID
4	(4)	CHARACTER	8	NVTMODNM	NAME OF THE ACTIVE RIM
12	(C)	ADDRESS	4	NVTMODEP	ENTRY POINT ADDRESS OF THE ACTIVE RIM

PCINTER TO VSM NUCLEUS RESIDENT ROUTINES/TABLES

16	(10)	ADDRESS	4	NVTVSFMT	ADDRESS OF THE VSM CELL POOL FORMATTER
20	(14)	ADDRESS	4	NVTSPPT	ADDRESS OF THE VSM SPTTINDX
24	(18)	ADDRESS	4	NVTAAQAT	ADDRESS OF AQAT ROUTINE
28	(1C)	ADDRESS	4	NVTSDIR	ADDRESS OF SQAT DIRECTORY
32	(20)	ADDRESS	4	NVTVSP	ADDRESS OF VSM SUBPOOL TABLE
36	(24)	ADDRESS	4	NVTLPALP	ADDRESS OF THE LPA DEVICE SUPPORT MODULE LIST
40	(28)	SIGNED	4	NVTLPALL	LENGTH OF THE LPA DEVICE SUPPORT MODULE LIST
44	(2C)	ADDRESS	4	NVTMQHP	POINTER TO THE IPL MESSAGE QUEUE HEADER (MQH).
48	(30)	CHARACTER	6	*	RESERVED
54	(36)	CHARACTER	1	NVTNPATR	MOD. ATTRIB. THIS LOAD
		11..		NVTNPREN	REENTRANT
		1...		*	RESERVED
		.1..		NVTNPREU	REUSABLE
		..11 1111		*	RESERVED
55	(37)	CHARACTER	1	NVTFLLB	LIBRARY STATUS FLAGS
		1...		NVTFLSLB	SVCLIB, LOGREC DEFINED
		.111 1111		*	RESERVED

NVT POINTERS TO NUCLEUS CONTROL BLOCKS

56	(38)	ADDRESS	4	NVTMSTCB	NIP/MASTER SCHEDULER TCB
60	(3C)	ADDRESS	4	*	RESERVED
64	(40)	ADDRESS	4	NVTMASC	MASTERS ASCB ADDRESS
68	(44)	ADDRESS	4	NVTHCSVC	ADDRESS OF MSSF SVC BRANCH ENTRY POINT
72	(48)	ADDRESS	4	*	RESERVED
76	(4C)	ADDRESS	4	NVTSVCTB	ADDRESS OF SVC TABLE
80	(50)	ADDRESS	4	NVTRSV2	RESERVED (WAS: BLDL TABLE PTR ADDRESS)
84	(54)	ADDRESS	4	NVTIGCER	SVC ERROR ROUTINE ADDR
88	(58)	ADDRESS	4	NVTVMDI	LPA HASH VALUE ADDRESS
92	(5C)	ADDRESS	4	NVTMSLNK	LINK PARMLIST ADDRESS
96	(60)	ADDRESS	4	*(3)	RESERVED
108	(6C)	ADDRESS	4	NVTNPOAD	ADDRESS OF IEAVNIPO
112	(70)	SIGNED	4	NVTNPONO	LENGTH OF IEAVNIPO IN PAGES
116	(74)	ADDRESS	4	NVTIGXER	ESR ERROR ROUTINE
120	(78)	SIGNED	4	*	RESERVED
124	(7C)	ADDRESS	4	NVTLSQA	END OF MASTERS LSQA
128	(80)	SIGNED	2	NVTSQANO	NO. INITIAL SQA PAGES
130	(82)	SIGNED	2	NVTLSQNO	NO. OF LSQA PAGES TO FIX
132	(84)	SIGNED	2	*(3)	RESERVED
138	(8A)	SIGNED	2	NVTNVSQA	NUMBER OF VIRT SEG OF SQA

OFFSETS
 DEC HEX TYPE LENGTH NAME DESCRIPTION

NVT SAVE AREAS - NUCLEUS CONTROL BLOCKS

140	(8C)	CHARACTER	8	NVTABSAV	SVC TABLE SVC 13
140	(8C)	ADDRESS	4	NVTABFST	
144	(90)	CHARACTER	4	NVTABSEC	
148	(94)	CHARACTER	8	NVTSVC60	SAVEAREA FOR SVC 60
156	(9C)	SIGNED	4	*	RESERVED
160	(A0)	ADDRESS	4	NVTALSQA	LOW ADDR OF M.S. LSQA
164	(A4)	ADDRESS	4	NVTASQA	LOW ADDRESS OF SQA
168	(A8)	ADDRESS	4	*	RESERVED
172	(AC)	ADDRESS	4	NVTRTMSA	ADDR OF RTM BRANCH ENTRY
176	(B0)	CHARACTER	8	NVTNOPSW	PSW LOADED TO PASS CONTROL TO IEAVNIPO
184	(B8)	ADDRESS	4	NVTMBUP	POINTER TO THE START OF THE NIP HARDCOPY BUFFER. (ALSO REFERED TO AS THE MESSAGE BUFFER.)
188	(BC)	ADDRESS	4	*	RESERVED
192	(C0)	ADDRESS	4	NVTPPS	START ADDRESS OF MLPA TO BE PAGE PROTECTED.
196	(C4)	ADDRESS	4	NVTPE	END ADDRESS OF MLPA TO BE PAGE PROTECTED.
200	(C8)	ADDRESS	4	NVTEPPS	START ADDRESS OF EMLPA TO BE PAGE PROTECTED.
204	(CC)	ADDRESS	4	NVTEPPE	END ADDRESS OF EMLPA TO BE PAGE PROTECTED.
208	(D0)	CHARACTER	3	*	RESERVED

NVT STATUS FLAGS

211	(D3)	CHARACTER	1	NVTFLCN	MESSAGE HANDLING FLAGS
		1... ..		NVTFLAC	ACTIVE MASTER CONSOLE
		.1.. ..		NVTFLIOC	COMPOSITE MASTER
		..1.		NVTMP	MP SYSTEM IPLED
		...1		*	RESERVED
		.... 1...		NVTFLNHC	HARDCOPY DISCONTINUED
		.... .1..		NVTFLNCK	TOD CLOCK INOPERATIVE
		.... ..1.		NVTFLRAC	WTOR REPLY OUTSTANDING
		.... ...1		NVTCLKER	TOD CLOCK WAS IN ERROR STATE AT IPL AND HAS BEEN SET TO 0 BY NIPO
212	(D4)	ADDRESS	4	*	RESERVED
216	(D8)	CHARACTER	8	NVTMCPSM	SAVEAREA FOR M/C NEW PSW

NVT PSW DESCRIPTORS SYSTEM WAIT STATE PSW

224	(E0)	CHARACTER	8	NVTWTPSW	
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SYSTEM WAIT STATE PSW - WORD 1

224	(E0)	CHARACTER	4	NVTWPSW1	
228	(E4)	SIGNED	4	NVTWPSW2	PORTION NIP UPDATES
228	(E4)	CHARACTER	2	NVTIDPSW	PSW ID NIP MODULE NAME
230	(E6)	CHARACTER	1	NVTFLWS1	SYSTEM WSC BYTE 1
231	(E7)	CHARACTER	1	NVTFLWSC	SYSTEM WSC BYTE 2
231	(E7)	CHARACTER	1	NVTIX	ID END INITIAL NVT

NVT POINTERS TO IEAVNIPM ROUTINES

232	(E8)	ADDRESS	4	*	RESERVED
236	(EC)	ADDRESS	4	NVTSENSE	SENSE ROUTINE ADDRESS
240	(F0)	ADDRESS	4	NVTWAIT	SYSTEM WAIT ROUTINE ADDR
244	(F4)	ADDRESS	4	NVTTIME	TIME ROUTINE ADDRESS
248	(F8)	ADDRESS	4	NVTUCBFN	UCB FIND ROUTINE ADDR
252	(FC)	ADDRESS	4	NVTWTO	WTO ROUTINE ADDRESS
256	(100)	ADDRESS	4	NVTWTOR	WTOR ROUTINE ADDRESS
260	(104)	ADDRESS	4	NVTWTOR2	WTOR WAIT RTN
264	(108)	ADDRESS	4	NVTOPEN	NIPOPEN ROUTINE ADDRESS

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
268	(10C)	ADDRESS	4	NVTMOUNT	NIPMOUNT ROUTINE ADDRESS
272	(110)	ADDRESS	4	NVTPRMPT	NIPPRMPT ROUTINE
276	(114)	ADDRESS	4	* (3)	RESERVED
288	(120)	ADDRESS	4	NVTNPM5A	NIP CONSOLE ATTENTION EXIT ROUTINE ADDRESS.
292	(124)	ADDRESS	4	NVTNIPM (2)	IEAVNIPM BASE REGISTER SAVE AREA
300	(12C)	ADDRESS	4	NVTNPM4	NIP ROUTINE TO FIND AND READ TEXT RCDS
304	(130)	ADDRESS	4	NVTNCTAD	NIP CONSOLE TABLE ADDRESS
308	(134)	ADDRESS	4	NVTUCB	ACTIVE NIP CONSOLE UCB ADDRESS
312	(138)	SIGNED	4	NVTCODE	ACTIVE NIP CONSOLE DEVICE CODE
316	(13C)	ADDRESS	4	* (2)	RESERVED

NVT POINTERS TO IEAVNIPM DEFINED CONTROL BLOCKS AND POINTERS

324	(144)	ADDRESS	4	NVTDCBIC	INPUT CONSOLE DCB ADDR
328	(148)	ADDRESS	4	NVTDCBOC	OUTPUT CONSOLE DCB ADDR
332	(14C)	ADDRESS	4	NVTDCBSN	SYS1.NUCLEUS DCB ADDR

NVT POINTERS TO SQA BUFFERS/QUEUES

336	(150)	ADDRESS	4	NVTMBUF	MSG BUFFER NEXT BYTE
340	(154)	ADDRESS	4	NVTMBEND	END OF NIP MSG BUFFER
344	(158)	ADDRESS	4	NVTSPE (2)	NIPSPE QUEUE ORIGIN

NVT SAVE AREAS USED BY IEAVNIPM ROUTINES

352	(160)	SIGNED	4	NVTOD	TOD CLOCK HI 32 BITS
356	(164)	CHARACTER	2	NVTCPUAD	ADDRESS OF CPU WITH CLOCK
358	(166)	CHARACTER	2	*	RESERVED
360	(168)	SIGNED	2	NVTABCD1	LEVEL 1 ABEND CODE
362	(16A)	CHARACTER	1	NVTABWS1	NIPABEND ENTRY WS CODE
363	(16B)	CHARACTER	1	*	RESERVED

NVT SAVE AREAS USED BY IEAVNPXX ROUTINES

364	(16C)	ADDRESS	4	*	RESERVED
368	(170)	ADDRESS	4	NVTAREA	1ST PARM AREA POINTER
372	(174)	ADDRESS	4	NVTPTAB	ORIGIN OF PARM TABLE
376	(178)	ADDRESS	4	NVTQSBUF	QUICK START BUFFER ADDR
380	(17C)	ADDRESS	4	NVTSVCN	POINTER TO SVC TABLE WORK AREA
384	(180)	ADDRESS	4	* (4)	RESERVED FIELDS
400	(190)	ADDRESS	4	NVTVRBLD	LPA BLDL ENTRY ADDR (V=R)
404	(194)	ADDRESS	4	NVTRSV3	RESERVED (WAS BLDL TABLE BUILD AREA)
408	(198)	ADDRESS	4	NVTCSLIB	SYS1.LPALIB DCB ADDRESS
412	(19C)	ADDRESS	4	NVTCSLNM	CURRENT LPA NAME ADDR
416	(1A0)	ADDRESS	4	NVTCIOB	ADDR OF IOB FOR FAILING COLDSTART I/O REQUESTS
420	(1A4)	ADDRESS	4	NVTCSLPG	LAST ASSIGNED ADDRESS IN COLDSTART LPA
424	(1A8)	CHARACTER	1	NVTLPACT	COUNT OF LPA ROUTINES ADDED BY IEAVNIPM
425	(1A9)	CHARACTER	3	*	RESERVED
428	(1AC)	CHARACTER	8	NVTXCTL	SAVE XCTL ADDRESS
428	(1AC)	ADDRESS	4	NVTXFST	
432	(1B0)	CHARACTER	4	NVTXSEC	
436	(1B4)	CHARACTER	8	NVTLOCAT	SAVE LOCATE SVCENT
436	(1B4)	ADDRESS	4	NVTLFST	POINTER TO SVC ROUTINE
440	(1B8)	CHARACTER	4	NVTLSEC	FLAGS AND ATTRIBUTES
444	(1BC)	CHARACTER	8	NVTWTSVAV	SAVE WTO SVC TABLE ENTRY ADDRESS
444	(1BC)	ADDRESS	4	NVTWTFST	POINT TO SVC ROUTINE
448	(1C0)	CHARACTER	4	NVTWTSEC	FLAGS AND ATTRIBUTES
452	(1C4)	ADDRESS	4	* (4)	RESERVED

SAVE AREA FOR V=R TCB RD FIELD

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
468	(1D4)	ADDRESS	4	NVTVRRD	
472	(1D8)	ADDRESS	4	* (5)	RESERVED

ON A COLD START, THE FOLLOWING FIELDS ARE MEANINGLESS. ON A QUICK START, THE FIELDS CONTAIN THE START AND END ADDRESS OF THE DAT-ON NUCLEUS WHICH HAD PREVIOUSLY BEEN COLD STARTED. THE FIELDS ARE SET BY THE ILRARSIM

492	(1EC)	ADDRESS	4	NVTONUCS	NUCLEUS START ADDR
496	(1F0)	ADDRESS	4	NVTONUCE	NUCLEUS END ADDR

SYS1.PARMLIB DESCRIPTORS

500	(1F4)	ADDRESS	4	NVTPLDCB	PTR TO PARMLIB DCB
504	(1F8)	SIGNED	4	NVTPLBKL	PARMLIB BLOCK SIZE
508	(1FC)	ADDRESS	4	NVTPLBFS	PTR PARMLIB BUFFER
512	(200)	ADDRESS	4	NVTPLBFE	PTR TO END OF DATA IN THE PARMLIB BUFFER
516	(204)	ADDRESS	4	NVTPLRCD	PTR TO LAST RECORD PROCESSED IN PARMLIB BUFFER
520	(208)	CHARACTER	8	NVTPLNAM	NAME OF LAST PARMLIB MEMBER PROCESSED

SYSTEM PARAMETER OPTIONS

528	(210)	CHARACTER	1	NVTFLPO	PARAMETER OPTION FLAGS
		1... ..		NVTFLST	DISPLAY PARMLIB LISTS
		.1.. ..		NVTSYSP	NIP03 IN PROMPT MODE
		..1.		*	RESERVED
		...1		*	RESERVED (WAS: BLDLF SPECIFIED)
		.... 1...		NVTFLQS	LPA IS QUICK STARTABLE
		.... .1..		NVTFLWS	WARM START VAM DATA SETS
		.... ..1.		NVTNPFL	NOPROT WAS SPECIFIED FOR FLPA
		.... ...1		NVTNPML	NOPROT WAS SPECIFIED FOR MLPA
529	(211)	CHARACTER	3	*	RESERVED
532	(214)	ADDRESS	4	* (14)	RESERVED
588	(24C)	CHARACTER		*	END OF THE NVT

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
NVT	0		NVTLFST	1B4		NVTPLNAM	208	
NVTAAQAT	18		NVTLOCAT	1B4		NVTPLRCD	204	
NVTABCD1	168		NVTLPACT	1A8		NVTPE	C4	
NVTABFST	8C		NVTLPALL	28		NVTPPS	C0	
NVTABSAV	8C		NVTLPALP	24		NVTPRMPT	110	
NVTABSEC	90		NVTLSEC	1B8		NVTPTAB	174	
NVTABWS1	16A		NVTLSQAS	7C		NVTQSBUF	178	
NVTALSQA	A0		NVTLSQNO	82		NVTRSV2	50	
NVTASQA	A4		NVTMASC	40		NVTRSV3	194	
NVTCLKER	D3	01	NVTMBEND	154		NVTRTMSA	AC	
NVTCODE	138		NVTMBUF	150		NVTSDIR	1C	
NVTCPUAD	164		NVTMBUP	B8		NVTSENSE	EC	
NVTCIOB	1A0		NVTMCPSW	D8		NVTSPE	158	
NVTCSLIB	198		NVTMODEP	C		NVTSPTT	14	
NVTCSLNM	19C		NVTMODNM	4		NVTSQANO	80	
NVTCSLPG	1A4		NVTMOUNT	10C		NVTSVCN	17C	
NVTDCBIC	144		NVTMP	D3	20	NVTSVCTB	4C	
NVTDCBOC	148		NVTMQHP	2C		NVTSVC60	94	
NVTDCBSN	14C		NVTMSLNK	5C		NVTSWAIT	F0	
NVTEPPE	CC		NVTMSTCB	38		NVTSYSP	210	40
NVTEPPS	C8		NVTNCTAD	130		NVTTIME	F4	
NVTFLAC	D3	80	NVTNIPM	124		NVTTOD	160	
NVTFLCN	D3		NVTNPATR	36		NVTUCB	134	
NVTFLIOC	D3	40	NVTNPFL	210	02	NVTUCBFN	F8	
NVTFLLB	37		NVTNPML	210	01	NVTVRBLD	190	
NVTFLLLST	210	80	NVTNPM4	12C		NVTVRRD	1D4	
NVTFLNCK	D3	04	NVTNPM5A	120		NVTVSFMT	10	
NVTFLNHC	D3	08	NVTNPREN	36	80	NVTVSP	20	
NVTFLPO	210		NVTNPREU	36	40	NVTVMDI	58	
NVTFLQS	210	08	NVTNPOAD	6C		NVTWPSW1	E0	
NVTFLRAC	D3	02	NVTNPONO	70		NVTWPSW2	E4	
NVTFLSLB	37	80	NVTNVSQA	8A		NVTWTFST	1BC	
NVTFLWS	210	04	NVTNOPSW	B0		NVTWTO	FC	
NVTFLWSC	E7		NVTONUCE	1F0		NVTWTOR	100	
NVTFLWS1	E6		NVTONUCS	1EC		NVTWTOR2	104	
NVTHCSVC	44		NVTOPE	108		NVTWTPSW	E0	
NVTID	0		NVTPAREA	170		NVTWTSV	1BC	
NVTIDPSW	E4		NVTPLBFE	200		NVTWTSEC	1C0	
NVTIGCER	54		NVTPLBFS	1FC		NVTXCTL	1AC	
NVTIGXER	74		NVTPLBKL	1F8		NVTXFST	1AC	
NVTIX	E7		NVTPLDCB	1F4		NVTXSEC	1B0	

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ORB

COMMON NAME: Operation Request Block
 MACRO ID: IHAORB
 DSECT NAME: ORB
 CREATED BY: Start subchannel
 SUBPOOL AND KEY: 245 and key 0 (Residence above 16 megabytes)
 SIZE: 12 bytes
 POINTED TO BY: Resides within the IOWA which is pointed to by LCCA IOWA.
 SERIALIZATION: UCBLOCK
 FUNCTION: The IRB is the operand of the start subchannel instruction and contains the interruption parameter, the address of the first CCM and the status information.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	12	ORB	
0	(0)	BITSTRING	4	ORBIP	INTERRUPT PARAMETER
0	(0)	SIGNED	4	ORBIPA	INTERRUPT PARAMETER
0	(0)	ADDRESS	4	ORBIPP	INTERRUPT PARAMETER
4	(4)	BITSTRING	1	ORBFLG0	FLAGS
		1111		ORBKEY	KEY
		.... 1...		ORBS	CHANNEL PROGRAM HAS SUSPEND CAPABILITY
		.... .111		*	RESERVED
5	(5)	BITSTRING	1	ORBFLG1	FLAGS
		1...		ORBF	FORMAT OF CHANNEL PROGRAM IF 0, FORMAT 0 CCM'S IF 1, FORMAT 1 CCM'S
		.1..		ORBP	PREFETCH OF CCM'S IS ALLOWED
		..1.		ORBI	INITIAL STATUS RESPONSE REQUESTED
		...1		ORBA	ADDRESS LIMIT CHECK REQUIRED
		.... 1...		ORBSSPI	SUPPRESS SUSPEND INTERRUPT
		.... .111		*	RESERVED
6	(6)	BITSTRING	1	ORBLPM	LOGICAL PATH MASK TO USE FOR THIS REQUEST
7	(7)	BITSTRING	1	*	RESERVED
8	(8)	ADDRESS	4	ORBCPA	CHANNEL PROGRAM ADDRESS (ABSOLUTE)

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
ORB	0		ORBFLG1	5		ORBKEY	4	80
ORBA	5	10	ORBI	5	20	ORBLPM	6	
ORBCPA	8		ORBIP	0		ORBP	5	40
ORBF	5	80	ORBIPA	0		ORBS	4	08
ORBFLG0	4		ORBIPP	0		ORBSSPI	5	08

ORE

COMMON NAME: Operator Reply Element
 MACRO ID: IHAORE
 DSECT NAME: OREF
 CREATED BY: IEAVVWTO
 SUBPOOL AND KEY: 231 and key 0
 SIZE: 68 bytes
 POINTED TO BY: UCMRPYQ field of the UCM data area.
 ORELKP field of the next ORE data area
 SSWTORE field of the SSOB data area
 SERIALIZATION: Local and CMS locks
 FUNCTION: Contains information pertaining to the reply portion of a WTOR request.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	ADDRESS	4	ORELKP	LINKAGE POINTER
4	(4)	CHARACTER	2	OREID	REPLY IDENTIFICATION
6	(6)	BITSTRING	1	OREXA	FLAGS
		1... ..		OREFORGN	"BIT0" WTOR WAS NOT ISSUED ON THIS SYSTEM
		.1.		OREKEY0	"BIT1" WTOR ISSUED BY KEY 0 USER (BYPASS VALIDITY CHECK)
		.1.		ORESWAP	"BIT2" TASK SWAPPED OUT
		...1		ORESUSP	"BIT3" PROCESSING TEMPORARILY SUSPENDED (OS/V\$2) MDC001
		... 1..		ORERSV03	"BIT4,,C'X'" RESERVED
		.... .1..		ORERSV04	"BIT5,,C'X'" RESERVED
		.... .1.		ORERSV05	"BIT6,,C'X'" RESERVED
		.... ...1		ORERSV06	"BIT7,,C'X'" RESERVED
7	(7)	BITSTRING	1	OREXC	BUFFER STATUS FLAGS
		1... ..		OREBUFA	"BIT0" BUFFER IS AVAILABLE
		.1.		OREBUFB	"BIT1" BUFFER IN USE
		.1.		OREBUFC	"BIT2" ORE IS TO BE DELETED, DO NOT PROCESS REPLY (OS/V\$2) MDC002
		...1		OREBUFD	"BIT3" BUFFER OBTAINED DYNAMICALLY
		... 1..		OREBUFE	"BIT4" BUFFER SERVICED
		.... .1..		ORERSV08	"BIT5,,C'X'" RESERVED
		.... .1.		ORERSV09	"BIT6,,C'X'" RESERVED
		.... ...1		ORERSV10	"BIT7,,C'X'" RESERVED
8	(8)	ADDRESS	4	ORETCB (0)	POINTER TO TCB
8	(8)	ADDRESS	4	ORETCBA	ADDRESS OF TCB
12	(C)	ADDRESS	4	OREWQE	ADDRESS OF ASSOCIATED DUMMY WQE (USED BY THE SUBSYSTEM)
16	(10)	ADDRESS	4	ORERPYP (0)	POINTER TO REPLY BUFFER
16	(10)	ADDRESS	4	ORERPYA	ADDRESS OF REPLY BUFFER
20	(14)	ADDRESS	4	OREECB (0)	POINTER TO REQUESTOR'S REPLY ECB
20	(14)	ADDRESS	4	OREECBA	ADDRESS OF REQUESTOR'S REPLY ECB
24	(18)	SIGNED	2	OREASID	ADDRESS SPACE IDENTIFIER (OS/V\$2) MDC003
26	(1A)	SIGNED	2	ORERSV11	RESERVED (OS/V\$2) MDC004
28	(1C)	ADDRESS	4	OREOPBUF	POINTER TO OPERATOR REPLY BUFFER (OS/V\$2) MDC005
32	(20)	CHARACTER	4	ORECBID	CONTROL BLOCK ID 'ORE '
36	(24)	SIGNED	1	OREVRSN	VERSION LEVEL
		.... ...1		ORESP13	"1" ORE IS AT JBB1326 LEVEL
		.... .1.		ORESP22	"2" ORE IS AT JBB2220 LEVEL
		.... .1.		OREVRID	"ORESP22" VERSION LEVEL VALUE
37	(25)	CHARACTER	2	ORERSV07	RESERVED WAS 16 ROUTING CODES
39	(27)	SIGNED	1	ORERCID	REPLY ISSUER CONSOLE ID
40	(28)	ADDRESS	4	ORERWQE	ADDRESS OF ASSOCIATED REAL WQE
44	(2C)	SIGNED	4	ORED0MID (0)	DOM ID
44	(2C)	SIGNED	1	ORES\$Y\$ID	SYSTEM ID
45	(2D)	SIGNED	3	ORESEQN	24 BIT ORED0MID
48	(30)	SIGNED	1	ORELNTH	MAXIMUM LENGTH OF REPLY
49	(31)	CHARACTER	3	ORERSV12	RESERVED BYTES
52	(34)	CHARACTER	16	ORERTCDE (0)	16 BYTES OF ROUTING CODES

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
52	(34)	BITSTRING	1	ORERTA	FIRST BYTE OF ROUTING CODES
		1... ..		ORERT001	"X'80'" MASTER CONSOLE ACTION
		.1... ..		ORERT002	"X'40'" MASTER CONSOLE INFORMATION
		..1... ..		ORERT003	"X'20'" TAPE POOL
		...1... ..		ORERT004	"X'10'" DIRECT ACCESS POOL
		.... 1... ..		ORERT005	"X'08'" TAPE LIBRARY
		.... .1... ..		ORERT006	"X'04'" DISK LIBRARY
		.... ..1... ..		ORERT007	"X'02'" UNIT RECORD POOL
		.... ...1... ..		ORERT008	"X'01'" TELEPROCESSING CONTROL
53	(35)	BITSTRING	1	ORERTB	SECOND BYTE OF ROUTING CODES
		1... ..		ORERT009	"X'80'" SYSTEM SECURITY
		.1... ..		ORERT010	"X'40'" SYSTEM/ERROR MAINTENANCE
		..1... ..		ORERT011	"X'20'" PROGRAMMER INFORMATION
		...1... ..		ORERT012	"X'10'" EMULATOR INFORMATION
		.... 1... ..		ORERT013	"X'08'" USER ROUTING CODE
		.... .1... ..		ORERT014	"X'04'" USER ROUTING CODE
		.... ..1... ..		ORERT015	"X'02'" USER ROUTING CODE
		.... ...1... ..		ORERT016	"X'01'" USER ROUTING CODE
54	(36)	BITSTRING	1	ORERTC	THIRD BYTE OF ROUTING CODES
		1... ..		ORERT017	"X'80'" USER ROUTING CODE
		.1... ..		ORERT018	"X'40'" USER ROUTING CODE
		..1... ..		ORERT019	"X'20'" USER ROUTING CODE
		...1... ..		ORERT020	"X'10'" USER ROUTING CODE
		.... 1... ..		ORERT021	"X'08'" RESERVED FOR JES USAGE
		.... .1... ..		ORERT022	"X'04'" RESERVED FOR JES USAGE
		.... ..1... ..		ORERT023	"X'02'" RESERVED FOR JES USAGE
		.... ...1... ..		ORERT024	"X'01'" RESERVED FOR JES USAGE
55	(37)	BITSTRING	1	ORERTD	FOURTH BYTE OF ROUTING CODES
		1... ..		ORERT025	"X'80'" RESERVED FOR JES USAGE
		.1... ..		ORERT026	"X'40'" RESERVED FOR JES USAGE
		..1... ..		ORERT027	"X'20'" RESERVED FOR JES USAGE
		...1... ..		ORERT028	"X'10'" RESERVED FOR JES USAGE
		.... 1... ..		ORERT029	"X'08'" RESERVED
		.... .1... ..		ORERT030	"X'04'" RESERVED
		.... ..1... ..		ORERT031	"X'02'" RESERVED
		.... ...1... ..		ORERT032	"X'01'" RESERVED
56	(38)	BITSTRING	1	ORERTE	FIFTH BYTE OF ROUTING CODES
		1... ..		ORERT033	"X'80'" RESERVED
		.1... ..		ORERT034	"X'40'" RESERVED
		..1... ..		ORERT035	"X'20'" RESERVED
		...1... ..		ORERT036	"X'10'" RESERVED
		.... 1... ..		ORERT037	"X'08'" RESERVED
		.... .1... ..		ORERT038	"X'04'" RESERVED
		.... ..1... ..		ORERT039	"X'02'" RESERVED
		.... ...1... ..		ORERT040	"X'01'" RESERVED
57	(39)	BITSTRING	1	ORERTF	SIXTH BYTE OF ROUTING CODES
		1... ..		ORERT041	"X'80'" RESERVED
		.1... ..		ORERT042	"X'40'" GENERAL INFO. ABOUT JES2 OR JES3
		..1... ..		ORERT043	"X'20'" RESERVED FOR JES USAGE
		...1... ..		ORERT044	"X'10'" RESERVED FOR JES USAGE
		.... 1... ..		ORERT045	"X'08'" RESERVED FOR JES USAGE
		.... .1... ..		ORERT046	"X'04'" RESERVED FOR JES USAGE
		.... ..1... ..		ORERT047	"X'02'" RESERVED FOR JES USAGE
		.... ...1... ..		ORERT048	"X'01'" RESERVED FOR JES USAGE
58	(3A)	BITSTRING	1	ORERTG	SEVENTH BYTE OF ROUTING CODES
		1... ..		ORERT049	"X'80'" RESERVED FOR JES USAGE
		.1... ..		ORERT050	"X'40'" RESERVED FOR JES USAGE
		..1... ..		ORERT051	"X'20'" RESERVED FOR JES USAGE

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
		...1		ORERT052	"X'10'" RESERVED FOR JES USAGE
		.... 1..		ORERT053	"X'08'" RESERVED FOR JES USAGE
		.... .1.		ORERT054	"X'04'" RESERVED FOR JES USAGE
		.... ..1.		ORERT055	"X'02'" RESERVED FOR JES USAGE
		.... ...1		ORERT056	"X'01'" RESERVED FOR JES USAGE
59	(3B)	BITSTRING	1	ORERTH	EIGHTH BYTE OF ROUTING CODES
		1...		ORERT057	"X'80'" RESERVED FOR JES USAGE
		.1..		ORERT058	"X'40'" RESERVED FOR JES USAGE
		..1.		ORERT059	"X'20'" RESERVED FOR JES USAGE
		...1		ORERT060	"X'10'" RESERVED FOR JES USAGE
		.... 1..		ORERT061	"X'08'" RESERVED FOR JES USAGE
		.... .1.		ORERT062	"X'04'" RESERVED FOR JES USAGE
		.... ..1.		ORERT063	"X'02'" RESERVED FOR JES USAGE
		.... ...1		ORERT064	"X'01'" RESERVED FOR JES USAGE
60	(3C)	BITSTRING	1	ORERTI	NINTH BYTE OF ROUTING CODES
		1...		ORERT065	"X'80'" PROCESSOR RELATED MESSAGE
		.1..		ORERT066	"X'40'" PROCESSOR RELATED MESSAGE
		..1.		ORERT067	"X'20'" PROCESSOR RELATED MESSAGE
		...1		ORERT068	"X'10'" PROCESSOR RELATED MESSAGE
		.... 1..		ORERT069	"X'08'" PROCESSOR RELATED MESSAGE
		.... .1.		ORERT070	"X'04'" PROCESSOR RELATED MESSAGE
		.... ..1.		ORERT071	"X'02'" PROCESSOR RELATED MESSAGE
		.... ...1		ORERT072	"X'01'" PROCESSOR RELATED MESSAGE
61	(3D)	BITSTRING	1	ORERTJ	TENTH BYTE OF ROUTING CODES
		1...		ORERT073	"X'80'" PROCESSOR RELATED MESSAGE
		.1..		ORERT074	"X'40'" PROCESSOR RELATED MESSAGE
		..1.		ORERT075	"X'20'" PROCESSOR RELATED MESSAGE
		...1		ORERT076	"X'10'" PROCESSOR RELATED MESSAGE
		.... 1..		ORERT077	"X'08'" PROCESSOR RELATED MESSAGE
		.... .1.		ORERT078	"X'04'" PROCESSOR RELATED MESSAGE
		.... ..1.		ORERT079	"X'02'" PROCESSOR RELATED MESSAGE
		.... ...1		ORERT080	"X'01'" PROCESSOR RELATED MESSAGE
62	(3E)	BITSTRING	1	ORERTK	ELEVENTH BYTE OF ROUTING CODES
		1...		ORERT081	"X'80'" PROCESSOR RELATED MESSAGE
		.1..		ORERT082	"X'40'" PROCESSOR RELATED MESSAGE
		..1.		ORERT083	"X'20'" PROCESSOR RELATED MESSAGE
		...1		ORERT084	"X'10'" PROCESSOR RELATED MESSAGE
		.... 1..		ORERT085	"X'08'" PROCESSOR RELATED MESSAGE
		.... .1.		ORERT086	"X'04'" PROCESSOR RELATED MESSAGE
		.... ..1.		ORERT087	"X'02'" PROCESSOR RELATED MESSAGE
		.... ...1		ORERT088	"X'01'" PROCESSOR RELATED MESSAGE
63	(3F)	BITSTRING	1	ORERTL	TWELFTH BYTE OF ROUTING CODES
		1...		ORERT089	"X'80'" PROCESSOR RELATED MESSAGE
		.1..		ORERT090	"X'40'" PROCESSOR RELATED MESSAGE
		..1.		ORERT091	"X'20'" PROCESSOR RELATED MESSAGE
		...1		ORERT092	"X'10'" PROCESSOR RELATED MESSAGE
		.... 1..		ORERT093	"X'08'" PROCESSOR RELATED MESSAGE
		.... .1.		ORERT094	"X'04'" PROCESSOR RELATED MESSAGE
		.... ..1.		ORERT095	"X'02'" PROCESSOR RELATED MESSAGE
		.... ...1		ORERT096	"X'01'" PROCESSOR RELATED MESSAGE
64	(40)	BITSTRING	1	ORERTM	THIRTEENTH BYTE OF ROUTING CODES
		1...		ORERT097	"X'80'" DEVICE RELATED MESSAGE
		.1..		ORERT098	"X'40'" DEVICE RELATED MESSAGE
		..1.		ORERT099	"X'20'" DEVICE RELATED MESSAGE
		...1		ORERT100	"X'10'" DEVICE RELATED MESSAGE
		.... 1..		ORERT101	"X'08'" DEVICE RELATED MESSAGE
		.... .1.		ORERT102	"X'04'" DEVICE RELATED MESSAGE
		.... ..1.		ORERT103	"X'02'" DEVICE RELATED MESSAGE
		.... ...1		ORERT104	"X'01'" DEVICE RELATED MESSAGE

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
65	(41)	BITSTRING	1	ORERTN	FOURTEENTH BYTE OF ROUTING CODES
		1... ..		ORERT105	"X'80'" DEVICE RELATED MESSAGE
		.1.. ..		ORERT106	"X'40'" DEVICE RELATED MESSAGE
		..1. ..		ORERT107	"X'20'" DEVICE RELATED MESSAGE
		...1 ..		ORERT108	"X'10'" DEVICE RELATED MESSAGE
		.... 1..		ORERT109	"X'08'" DEVICE RELATED MESSAGE
		.... .1..		ORERT110	"X'04'" DEVICE RELATED MESSAGE
		.... ..1.		ORERT111	"X'02'" DEVICE RELATED MESSAGE
		.... ...1		ORERT112	"X'01'" DEVICE RELATED MESSAGE
66	(42)	BITSTRING	1	ORERTO	FIFTEENTH BYTE OF ROUTING CODES
		1... ..		ORERT113	"X'80'" DEVICE RELATED MESSAGE
		.1.. ..		ORERT114	"X'40'" DEVICE RELATED MESSAGE
		..1. ..		ORERT115	"X'20'" DEVICE RELATED MESSAGE
		...1 ..		ORERT116	"X'10'" DEVICE RELATED MESSAGE
		.... 1..		ORERT117	"X'08'" DEVICE RELATED MESSAGE
		.... .1..		ORERT118	"X'04'" DEVICE RELATED MESSAGE
		.... ..1.		ORERT119	"X'02'" DEVICE RELATED MESSAGE
		.... ...1		ORERT120	"X'01'" DEVICE RELATED MESSAGE
67	(43)	BITSTRING	1	ORERTP	SIXTEENTH BYTE OF ROUTING CODES
		1... ..		ORERT121	"X'80'" DEVICE RELATED MESSAGE
		.1.. ..		ORERT122	"X'40'" DEVICE RELATED MESSAGE
		..1. ..		ORERT123	"X'20'" DEVICE RELATED MESSAGE
		...1 ..		ORERT124	"X'10'" DEVICE RELATED MESSAGE
		.... 1..		ORERT125	"X'08'" DEVICE RELATED MESSAGE
		.... .1..		ORERT126	"X'04'" DEVICE RELATED MESSAGE
		.... ..1.		ORERT127	"X'02'" DEVICE RELATED MESSAGE
		.... ...1		ORERT128	"X'01'" DEVICE RELATED MESSAGE
		.1.. .1..		OREL	"*" END OF OPERATOR REPLY ELEMENT (OS/VS2) MDC006
		.1.. .1..		ORESIZE	"OREL-OREF" LENGTH OF OPERATOR REPLY ELEMENT (OS/VS2) MDC007

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
OREASID	18		ORERT018	36	40	ORERT081	3E	80
OREBUFA	7	80	ORERT019	36	20	ORERT082	3E	40
OREBUFB	7	40	ORERT020	36	10	ORERT083	3E	20
OREBUFC	7	20	ORERT021	36	8	ORERT084	3E	10
OREBUFD	7	10	ORERT022	36	4	ORERT085	3E	8
OREBUFE	7	8	ORERT023	36	2	ORERT086	3E	4
ORECBID	20		ORERT024	36	1	ORERT087	3E	2
OREDID	2C		ORERT025	37	80	ORERT088	3E	1
OREECB	14		ORERT026	37	40	ORERT089	3F	80
OREECBA	14		ORERT027	37	20	ORERT090	3F	40
OREFORGN	6	80	ORERT028	37	10	ORERT091	3F	20
OREID	4		ORERT029	37	8	ORERT092	3F	10
OREKEYO	6	40	ORERT030	37	4	ORERT093	3F	8
OREL	43	44	ORERT031	37	2	ORERT094	3F	4
ORELKP	0		ORERT032	37	1	ORERT095	3F	2
ORELNTH	30		ORERT033	38	80	ORERT096	3F	1
OREOPBUF	1C		ORERT034	38	40	ORERT097	40	80
ORERCID	27		ORERT035	38	20	ORERT098	40	40
ORERPYP	10		ORERT036	38	10	ORERT099	40	20
ORERPYA	10		ORERT037	38	8	ORERT100	40	10
ORERSV03	6	8	ORERT038	38	4	ORERT101	40	8
ORERSV04	6	4	ORERT039	38	2	ORERT102	40	4
ORERSV05	6	2	ORERT040	38	1	ORERT103	40	2
ORERSV06	6	1	ORERT041	39	80	ORERT104	40	1
ORERSV07	25		ORERT042	39	40	ORERT105	41	80
ORERSV08	7	4	ORERT043	39	20	ORERT106	41	40
ORERSV09	7	2	ORERT044	39	10	ORERT107	41	20
ORERSV10	7	1	ORERT045	39	8	ORERT108	41	10
ORERSV11	1A		ORERT046	39	4	ORERT109	41	8
ORERSV12	31		ORERT047	39	2	ORERT110	41	4
ORERTA	34		ORERT048	39	1	ORERT111	41	2
ORERTB	35		ORERT049	3A	80	ORERT112	41	1
ORERTC	36		ORERT050	3A	40	ORERT113	42	80
ORERTCDE	34		ORERT051	3A	20	ORERT114	42	40
ORERTD	37		ORERT052	3A	10	ORERT115	42	20
ORERTE	38		ORERT053	3A	8	ORERT116	42	10
ORERTF	39		ORERT054	3A	4	ORERT117	42	8
ORERTG	3A		ORERT055	3A	2	ORERT118	42	4
ORERTH	3B		ORERT056	3A	1	ORERT119	42	2
ORERTI	3C		ORERT057	3B	80	ORERT120	42	1
ORERTJ	3D		ORERT058	3B	40	ORERT121	43	80
ORERTK	3E		ORERT059	3B	20	ORERT122	43	40
ORERTL	3F		ORERT060	3B	10	ORERT123	43	20
ORERTM	40		ORERT061	3B	8	ORERT124	43	10
ORERTN	41		ORERT062	3B	4	ORERT125	43	8
ORERTO	42		ORERT063	3B	2	ORERT126	43	4
ORERTP	43		ORERT064	3B	1	ORERT127	43	2
ORERT001	34	80	ORERT065	3C	80	ORERT128	43	1
ORERT002	34	40	ORERT066	3C	40	ORERWQE	28	
ORERT003	34	20	ORERT067	3C	20	ORESEQN	2D	
ORERT004	34	10	ORERT068	3C	10	ORESIZ	43	44
ORERT005	34	8	ORERT069	3C	8	ORESP13	24	1
ORERT006	34	4	ORERT070	3C	4	ORESP22	24	2
ORERT007	34	2	ORERT071	3C	2	ORESUSP	6	10
ORERT008	34	1	ORERT072	3C	1	ORESWAP	6	20
ORERT009	35	80	ORERT073	3D	80	ORESUSID	2C	
ORERT010	35	40	ORERT074	3D	40	ORETCB	8	
ORERT011	35	20	ORERT075	3D	20	ORETCBA	8	
ORERT012	35	10	ORERT076	3D	10	OREVRID	24	2
ORERT013	35	8	ORERT077	3D	8	OREVRSN	24	
ORERT014	35	4	ORERT078	3D	4	OREWQE	C	
ORERT015	35	2	ORERT079	3D	2	OREXA	6	
ORERT016	35	1	ORERT080	3D	1	OREXC	7	
ORERT017	36	80						

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OUCB

COMMON NAME: SRM User Control Block
 MACRO ID: IRAOUCB
 DSECT NAME: OUCB
 CREATED BY: IRARMEVT
 SUBPOOL AND KEY: 245 and Key 0 (Residence - above 16M line)
 SIZE: 264 bytes
 POINTED TO BY: ASCBOUCB field of the ASCB data area
 RMQHFWD field of the RMQH data area
 RMQHBCK field of the RMQH data area
 OUCBFWD field of the OUCB data area
 OUCBBCK field of the OUCB data area
 RMCTAGHD field of the RMCT data area
 OUCBACT field of the OUCB data area
 SERIALIZATION: SRM lock, Compare and Swap (CS) instruction
 FUNCTION: Contains a description of the status of the associated address space for use by the SRM.
 The OUCB is located in SQA.

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
0	(0)	STRUCTURE	264	OUCB	
0	(0)	CHARACTER	256	OUCBIBLK	FIRST 256 BYTE BLOCK OF OUCB
0	(0)	CHARACTER	4	OUCBNAME	BLOCK IDENTIFICATION 'OUCB'
4	(4)	ADDRESS	4	OUCBFWD	SWAP CHAIN FORWARD POINTER
8	(8)	ADDRESS	4	OUCBBCK	SWAP CHAIN BACKWARD POINTER
12	(C)	UNSIGNED	4	OUCBTMA	TIME OF LAST ANALYSIS
16	(10)	BITSTRING	1	OUCBQFL	SWAP TRANSITION FLAGS
		1... ..		OUCBGOO	TRANSITIONING OUT OF CORE
		.1.. ..		OUCBGOI	TRANSITIONING INTO CORE
		.1.		OUCBGOB	TRANSITIONING BETWEEN STATES
		...1		OUCBQSFL	QSCEFL RECURSION FLAG
		.... 1...		OUCBOFF	REQUEST ENTER WAIT STATE
		.... .1..		OUCBOUT	REQUEST ENTER OUT STATE
		.... .1.		OUCBLSW	LOGICALLY SWAPPED
		.... ..1		OUCBDLYB	DELAY BY RTO ON OUTQ
17	(11)	BITSTRING	1	OUCBSFL	SWAPOUT CONTINUATION FLAGS
		1... ..		OUCBNSW	NON SWAPPABLE STATUS
		.1..		OUCBCTI	CTL INHIBITS QUIESCE
		.1.		OUCBBIB	BRING IN FOR CANCEL
		...1		OUCBINV	=1 IF OUCB IS INVALID
		.... 1...		OUCBNSWI	PREVENT SWAP IN
		.... .1..		OUCBPVL	USER PROGRAM PRIVILEGED
		.... .1.		OUCBENQ	ENQ RESIDENT STATUS
		.... ..1		OUCBSCN	SWAP CHAIN TERMINATION MARK
18	(12)	BITSTRING	1	OUCBYFL	USER TYPE FLAGS
		1... ..		OUCBPSTE	POST ERROR
		.1..		OUCBSTT	START CREATED USER
		.1.		OUCBLOG	LOGON CREATED USER
		...1		OUCBMNT	MOUNT CREATED USER
		.... 1...		OUCBPSTR	IF POST ERROR, RECOVER
		.... .1..		OUCBAXS	AUX SHORTAGE FORCED SWAP
		.... .1.		OUCBDTA	DATA ACCUMULATION IMPACTED
		.... ..1		OUCBFXS	FIXED STOR FORCED SWP
19	(13)	BITSTRING	1	OUCBAFL	ALGORITHM STATUS FLAGS
		1... ..		OUCBSDPS	DPRTY IS SPEC'D ON JCL
		.1..		OUCBAPG	APG ALGORITHM APPLICABLE
		.1.		OUCBREPT	RPGNS ARE PRESENT
		...1		OUCBCPL	SIGNIFICANT CPU USER
		.... 1...		OUCBJSR	JOBSELECT RECEIVED
		.... .1..		OUCBIDPS	INITIAL PROC HAS DPRTY
		.... .1.		OUCBNWT	M50 DETECTED NONSWAPP WAIT
		.... ..1		OUCBASW	AUTHORIZED FOR DONTSWAP
20	(14)	BITSTRING	1	OUCBTFL	TRANSACTION STATUS FLAGS
		1... ..		OUCBATR	TRANSACTION IN EXISTENCE
		.1..		OUCBSTR	TRANSACTION START PENDING
		.1.		OUCBNTR	TRANSACTION STOP PENDING
		...1		OUCBRTR	TRANSACTION RESUME PENDING
		.... 1...		OUCBPCH	PG PERIOD CHANGE PENDING

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
		.... .1.		OUCBMAR	ACTIVITY RECORDING MINUS
		.... .1.		OUCBINP	INITIATOR ATTACH PENDING
		.... .1.		OUCBINC	INITIATOR ATTACH CURRENT
21	(15)	BITSTRING	1	OUCBEFL	EVENT STATUS FLAGS
		1...		OUCBLWT	LONG WAIT STATUS
		.1..		OUCBTRM	TERMINAL WAIT STATUS
		.1..		OUCBOWT	OUTPUT TERMINAL WAIT
		.... .1..		OUCBCIM	COMPOSITE INPUT MESSAGE
		.... 1... .		OUCBNQF	ENQHOLD PROCESSED
		.... .1..		OUCBQSS	QSCEST PROCESSED
		.... .1..		OUCBQSC	QSCECMP PROCESSED
		.... .1..		OUCBMWT	MSO DETECTED WAIT STATUS
22	(16)	UNSIGNED	1	OUCBNQC	NO. OF OUTSTANDING ENQHOLDS
23	(17)	BITSTRING	1	OUCBUFL	USER TYPE FLAGS
		1...		OUCBJSFS	JOB SELECT DELAYED DUE TO PAGEABLE FRAME SHORTAGE
		.1..		OUCBJSAS	JOB SELECT DELAYED DUE TO AUXILIARY SLOT SHORTAGE
		.1..		OUCBRSWP	REQSWAP IN PROGRESS
		.... 1... .		OUCBTSWP	TRANSWAP IN PROGRESS
		.... 1... .		OUCBTSWC	TRANSWAP COMPLETE
		.... .1..		OUCBSI	STORAGE ISOL CONTROL ACTIVE
		.... .1..		OUCBSBSU	SIGNIFICANT STORAGE USER
		.... .1..		OUCBSBET	EXEC TIME THRESHOLD PASSED FOR SIG STOR CHECK
24	(18)	BITSTRING	1	OUCBLFL	ALGORITHM STATUS FLAGS
		1...		OUCBCTB	CPU LOAD BAL APPLICABLE
		.1..		OUCBITB	I/O LOAD BAL APPLICABLE
		.1..		OUCBSTB	STORAGE LOAD BAL APPL
		.... 1... .		OUCBFWA	FAST WORKLOAD ACCEPT APPL
		.... 1111		*	RESERVED
25	(19)	BITSTRING	1	OUCBRFL	MORE USER FLAGS
		1...		OUCBCSFS	SWAP IN FAIL DEFER BIT USER ON WAIT QUEUE
		.1..		OUCBCSFM	SWAP IN MESSAGE REQUIRED
		.1..		OUCBEASI	EARLY ADDRESS SPACE
		.... 1... .		OUCBHIDP	EARLY A.S. NEEDS HIGH PRTY
		.... 1... .		OUCBSIFX	FIXED TARGET WORKING SET SIZE FOR STORAGE ISOLATION
		.... .1..		OUCBLGFX	LOGICAL FIXED FRAME SHORTAGE CAUSED SWAP OUT
		.... .1..		OUCBDFSW	SWAP IN FAIL SPECIAL PROCESSING PVT THRESHOLDS INCREASED
		.... .1..		OUCBLLSN	LAST SWAP WAS LOGICAL
26	(1A)	UNSIGNED	1	OUCBNDP	NEW DISPATCHING PRIORITY
27	(1B)	UNSIGNED	1	OUCBTNDP	NEW TSDSP PRIORITY
28	(1C)	BITSTRING	1	OUCBMFL	MISCELLANEOUS
		1...		OUCBSBT	STOLE BELOW THRESHOLD
		.1..		OUCBAFAP	AUX SWAPIN FRAME ALLOCATION IS PENDING
		.1..		OUCBDFS2	THRESHOLD WERE RAISED BY SEC WORKING SET SIZE
		.... 1... .		OUCBMGSW	SELECTED FOR MIG SWAP
		.... 1... .		OUCBSWSB	SEC WORKING SET BUILT
		.... .1..		OUCBASAP	SECONDARY WORKING SET ALLOCATION PENDING
		.... .1..		OUCBMPUR	SELECTED FOR MIG PURGE
		.... .1..		OUCBACNT	JOB HAD ACCOUNT NUMBER
29	(1D)	UNSIGNED	1	OUCBIAC	INIT ATTACH COUNT
30	(1E)	UNSIGNED	1	OUCBIDP	INITIAL PROC'S DPRTY
31	(1F)	ADDRESS	1	OUCBPGP	WMPGP OFFSET
32	(20)	ADDRESS	4	OUCBWMG	WMPGD OFFSET
36	(24)	BITSTRING	1	OUCBMFL2	MORE MISCELLANEOUS FLAGS
		1...		OUCBVFMG	MESSAGE ISSUED ON BEHALF OF ADDRESS SPACE SWAPPED OUT DUE TO VECTOR WAIT
		.1..		OUCBSTA	SWAP TURNED AROUND
		..11 1111		*	RESERVED
37	(25)	BITSTRING	1	OUCBR025	RESERVED
38	(26)	ADDRESS	2	OUCBDMO	OFFSET INTO DOMAIN TABLE
40	(28)	ADDRESS	1	OUCBDMN	DOMAIN NUMBER
41	(29)	ADDRESS	1	OUCBSRC	SWAP OUT REASON CODE
42	(2A)	SIGNED	2	OUCBSWC	TRANSACTION SWAP COUNT
44	(2C)	ADDRESS	4	OUCBASCB	ASCB ADDRESS
48	(30)	ADDRESS	4	OUCBIMCB	IMCB ADDRESS
52	(34)	UNSIGNED	4	OUCBTMW	WLM INTERVAL START TIME
56	(38)	SIGNED	4	OUCBWMs	INTERVAL SERVICE ACCUMULATOR
60	(3C)	SIGNED	4	OUCBCPU	INTERVAL CPU SERVICE ACCUM
64	(40)	SIGNED	4	OUCBIOC	INTERVAL I/O SERVICE ACCUM
68	(44)	SIGNED	4	OUCBMSO	INTERVAL MSO SERVICE ACCUM
72	(48)	UNSIGNED	4	OUCBTMS	TIME OF LAST SWAP ACTION
76	(4C)	UNSIGNED	4	OUCBTMO	TRANSACTION START TIME

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
80	(50)	UNSIGNED	4	OUCBSWPC	FIELD FOR SWAP PG CTS
80	(50)	SIGNED	2	OUCBPSO	PAGES SWPPD AT LAST SWAP OUT
82	(52)	SIGNED	2	OUCBWSS	WORKING SET SIZE AT SWAP IN
84	(54)	ADDRESS	4	OUCBACT	ACTION QUE FORWD POINTER
88	(58)	UNSIGNED	4	OUCBCSM	FIELD FOR COMPARE AND SWAP
88	(58)	BITSTRING	2	OUCBACN	DEFERRED ACTION FLAGS
90	(5A)	BITSTRING	1	OUCBCFL	MULTIPROCS CONDITION FLGS
		1... ..		OUCBRDY	USERRDY SYSEVENT RECEIVED
		.1... ..		OUCBRSM	RSM SERVICE OUTSTANDING
		..1.		OUCBESSS	SUSPENDED FOR SWAPOUT TO EXTENDED
		...1		OUCBESSM	HAS BEEN OR WILL BE SWAPPED TO EXTENDED
		.... 1111		OUCBCF1	RESERVED
91	(5B)	BITSTRING	1	OUCBRSV1	RESERVED
92	(5C)	SIGNED	4	OUCBCMRV	COMPOSITE RECOM VALUE
96	(60)	SIGNED	4	OUCBWMR	WLM RECOMMENDATION VALUE
100	(64)	SIGNED	2	OUCBIRV	IOM RECOMM. VALUE
102	(66)	SIGNED	2	OUCBCRV	CPM RECOMM. VALUE
104	(68)	SIGNED	2	OUCBIOR	I/O USAGE PROFILE
106	(6A)	SIGNED	2	OUCBTWSS	TARGET WORKING SET SIZE
108	(6C)	SIGNED	4	OUCBRV4	RESERVED
112	(70)	BITSTRING	1	OUCBDSPC	CURRENT DISPATCHING CONTROL
		1... ..		OUCBMTW	CURRENT CTL IS MTW
		.1... ..		*	RESERVED
		..1.		OUCBTS	CURRENT CTL IS TS
		...1		OUCBTSC3	WORKAREA FOR TS
		.... 1... ..		OUCBTSC4	WORKAREA FOR TS
		.... .1.. ..		OUCBTSC5	WORKAREA FOR TS
		.... ..1. ..		OUCBTSC6	WORKAREA FOR TS
		.... ...1 ..		OUCBTSC7	WORKAREA FOR TS
113	(71)	BITSTRING	1	OUCBDSPN	NEW DISPATCHING CONTROL
		1... ..		OUCBNMTW	NEW CONTROL IS MTW
		.1... ..		*	RESERVED
		..1.		OUCBNTS	NEW CONTROL IS TS
		...1		OUCBTSN3	WORKAREA FOR TS
		.... 1... ..		OUCBTSN4	WORKAREA FOR TS
		.... ..1. ..		OUCBTSN5	WORKAREA FOR TS
		.... ...1 ..		OUCBTSN6	WORKAREA FOR TS
		.... ...1 ..		OUCBTSN7	WORKAREA FOR TS
114	(72)	SIGNED	2	OUCBNTSP	NUM OF ADD'L TRANSWAPS PENDING
116	(74)	BITSTRING	8	OUCBPSS	CPU PAGE SECONDS
116	(74)	UNSIGNED	4	OUCBPS1	HIGH WORD PAGE SECS
120	(78)	UNSIGNED	4	OUCBPS2	LOW WORD PAGE SECONDS
124	(7C)	UNSIGNED	4	OUCBPST	TIME OF LAST WORKING SET CHANGE
128	(80)	UNSIGNED	4	OUCBTCP	TIME OF CPU USAGE EVALUATION
132	(84)	UNSIGNED	4	OUCBTIO	TIME OF I/O USAGE EVALUATION
136	(88)	SIGNED	2	OUCBND5	NUM OF DONTSWAPS
138	(8A)	UNSIGNED	1	OUCBNTSG	NEW TS GROUP NUMBER
139	(8B)	UNSIGNED	1	OUCBSDP	SPECIFIED DP
140	(8C)	SIGNED	4	OUCBTME	LAST RESPONSE TIME
144	(90)	SIGNED	4	OUCBTML	TIME OF LAST TERMWAIT
148	(94)	UNSIGNED	4	OUCBDWMS	INTVL DMN SVCE ACCU
152	(98)	SIGNED	4	OUCBSRB	INTVL SRB SVCE ACCUM
156	(9C)	UNSIGNED	4	OUCBHOLD	HOLD COUNT
160	(A0)	UNSIGNED	4	OUCBTMP	PG PERIOD START
164	(A4)	UNSIGNED	4	OUCBDLYT	RTO DELAY END TIME
168	(A8)	SIGNED	2	OUCBSBRV	STM RECOMM. VALUE
170	(AA)	SIGNED	2	OUCBSBFC	RECENT FRAME COUNT FOR STOR LOAD BALANCING
172	(AC)	UNSIGNED	4	OUCBSBTE	TIME OF STM USAGE EVALUATION
176	(B0)	CHARACTER	4	OUCBSUBN	SUBSYSTEM NAME USED BY SMF
180	(B4)	SIGNED	2	OUCBRPG	RESET PERFORMANCE GROUP NUMBER
182	(B6)	SIGNED	2	OUCBSPG	SPECIFIED PERFORMANCE GROUP NUMBER
184	(B8)	CHARACTER	12	OUCBFPGO	FPG OUTPUT AREA
184	(B8)	SIGNED	2	OUCBNPG	CONTROL PERF. GROUP
186	(BA)	SIGNED	2	OUCBSRPG	SUBSYSTEM RPGN
188	(BC)	SIGNED	2	OUCBNRPG	TRXNAME RPGN
190	(BE)	SIGNED	2	OUCBURPG	USERID RPGN
192	(C0)	SIGNED	2	OUCBCRPG	TRXCLASS RPGN
194	(C2)	SIGNED	2	OUCBARPG	ACCOUNT NUMBER RPGN
196	(C4)	SIGNED	4	OUCBRV5	RESERVED
200	(C8)	CHARACTER	8	OUCBTRXN	TRANSACTION NAME
208	(D0)	CHARACTER	8	OUCBUSRD	USERID

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
216	(D8)	CHARACTER	8	OUCBCLS	TRANSACTION CLASS NAME
224	(E0)	SIGNED	2	OUCBSWFC	SWAP IN FAIL COUNT
226	(E2)	SIGNED	2	OUCBSFEC	SWAP IN FAIL EVALUATION COUNT
228	(E4)	SIGNED	2	OUCBSEEC	SWAP TO EXTENDED EVALUATION FAILURE COUNT
230	(E6)	SIGNED	2	OUCBMTRM	COUNT OF TERMAITS DETECTED BY MS6
232	(E8)	UNSIGNED	4	OUCBTMC	TIME OF SWAPOUT STAT CHG
236	(EC)	SIGNED	4	OUCBSWSS	SEC WORKING SET SIZE
240	(F0)	SIGNED	4	OUCBPSUM	BASE VALUE FOR PAGEIN COUNT
244	(F4)	SIGNED	2	OUCBFIXB	CNT OF BELOW FRAMES NEEDED FOR FIXED/LSQA PAGES
246	(F6)	SIGNED	2	OUCBFIX	CNT OF REQUIRED FIXED/LSQA FRAMES
248	(F8)	BITSTRING	8	OUCBRST	PAGE RESIDENCY TIME IN 1024 MICROSECOND UNITS
248	(F8)	UNSIGNED	4	OUCBRST1	HIGH WORD PG RES SEC
252	(FC)	UNSIGNED	4	OUCBRST2	LOW WORD PG RES SEC
256	(100)	CHARACTER	8	OUCB2BLK	SECOND 256 BYTE BLOCK OF OUCB
256	(100)	SIGNED	2	OUCBLGWS	LOGICAL WSS FOR LOGICAL PAGEABLE STORAGE SHORTAGE
258	(102)	SIGNED	2	OUCBR102	RESERVED
260	(104)	UNSIGNED	4	OUCBRSTB	BASE TIME FOR PAGE RES SECS
264	(108)	CHARACTER		OUCBEND	END OF OUCB

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
OUCB	0		OUCBJSFS	17	80	OUCBSBET	17	01
OUCBACN	58		OUCBJSR	13	08	OUCBSBFC	AA	
OUCBACNT	1C	01	OUCBLFL	18		OUCBSBRV	A8	
OUCBACT	54		OUCBLGFX	19	04	OUCBSBSU	17	02
OUCBAFAP	1C	40	OUCBLGWS	100		OUCBSBT	1C	80
OUCBAFL	13		OUCBLLSW	19	01	OUCBSBTE	AC	
OUCBAPG	13	40	OUCBLOG	12	20	OUCBSCN	11	01
OUCBARPG	C2		OUCBLSW	10	02	OUCBDSP	88	
OUCBASAP	1C	04	OUCBLWT	15	80	OUCBSDPS	13	80
OUCBASCB	2C		OUCBMAR	14	04	OUCBSEEC	E4	
OUCBASW	13	01	OUCBMFL	1C		OUCBSFEC	E2	
OUCBATR	14	80	OUCBMFL2	24		OUCBSFL	11	
OUCBAXS	12	04	OUCBMGSW	1C	10	OUCBSI	17	04
OUCBBCK	8		OUCBMNT	12	10	OUCBSIFX	19	08
OUCBBIB	11	20	OUCBMPUR	1C	02	OUCBSPG	B6	
OUCBCFL	5A		OUCBMSO	44		OUCBSRB	98	
OUCBCF1	5A	08	OUCBMTRM	E6		OUCBSRC	29	
OUCBCIM	15	10	OUCBMTW	70	80	OUCBSRPG	BA	
OUCBCLS	D8		OUCBMT	15	01	OUCBSTA	24	40
OUCBCMRV	5C		OUCBNAME	0		OUCBSTB	18	20
OUCBCPL	13	10	OUCBNDP	1A		OUCBSTR	14	40
OUCBCPU	3C		OUCBNDS	88		OUCBSTT	12	40
OUCBCRPG	C0		OUCBNMTW	71	80	OUCBSUBN	B0	
OUCBCRV	66		OUCBNPG	B8		OUCBSHC	2A	
OUCBCSFM	19	40	OUCBNQC	16		OUCBSWFC	E0	
OUCBCSFS	19	80	OUCBNQF	15	08	OUCBSWPC	50	
OUCBCSW	58		OUCBNRPG	BC		OUCBSWSB	1C	08
OUCBCTB	18	80	OUCBNSW	11	80	OUCBSWSS	EC	
OUCBCTI	11	40	OUCBNSWI	11	08	OUCBTCP	80	
OUCBDFS	19	02	OUCBNTR	14	20	OUCBTFL	14	
OUCBDFS2	1C	20	OUCBNTS	71	20	OUCBTIO	84	
OUCBDLYB	10	01	OUCBNTSG	8A		OUCBTMA	C	
OUCBDLYT	A4		OUCBNTSP	72		OUCBTMC	E8	
OUCBDMN	28		OUCBNWT	13	02	OUCBTME	8C	
OUCBDMO	26		OUCBOFF	10	08	OUCBTML	90	
OUCBDSPC	70		OUCBOUT	10	04	OUCBTMO	4C	
OUCBDSPN	71		OUCBOWT	15	20	OUCBTMP	A0	
OUCBDTA	12	02	OUCBPCH	14	08	OUCBTMS	48	
OUCBDWMS	94		OUCBPGP	1F		OUCBTMW	34	
OUCBEASI	19	20	OUCBPSO	50		OUCBTNDP	1B	
OUCBEFL	15		OUCBPSS	74		OUCBTRM	15	40
OUCBEND	108		OUCBPST	7C		OUCBTRXN	C8	
OUCBENQ	11	02	OUCBPSTE	12	80	OUCBTS	70	20
OUCBESS	5A	20	OUCBPSTR	12	08	OUCBTSC3	70	10
OUCBESSW	5A	10	OUCBPST	F0		OUCBTSC4	70	08
OUCBFIX	F6		OUCBPS1	74		OUCBTSC5	70	04
OUCBFIXB	F4		OUCBPS2	78		OUCBTSC6	70	02
OUCBFPGO	B8		OUCBPVL	11	04	OUCBTSC7	70	01
OUCBFWA	18	10	OUCBQFL	10		OUCBTSN3	71	10
OUCBFWD	4		OUCBQSC	15	02	OUCBTSN4	71	08
OUCBFXS	12	01	OUCBQSF	10	10	OUCBTSN5	71	04
OUCBGOB	10	20	OUCBQSS	15	04	OUCBTSN6	71	02
OUCBGOI	10	40	OUCBRDY	5A	80	OUCBTSN7	71	01
OUCBGOO	10	80	OUCBREPT	13	20	OUCBTSWC	17	08
OUCBHIDP	19	10	OUCBRFL	19		OUCBTSWP	17	10
OUCBHOLD	9C		OUCBRPG	B4		OUCBTWSS	6A	
OUCBIAC	1D		OUCBRSM	5A	40	OUCBUFL	17	
OUCBIDP	1E		OUCBRST	F8		OUCBURPG	BE	
OUCBIDPS	13	04	OUCBRSTB	104		OUCBUSRD	D0	
OUCBIMCB	30		OUCBRST1	F8		OUCBVFMG	24	80
OUCBINC	14	01	OUCBRST2	FC		OUCBWMG	20	
OUCBINP	14	02	OUCBRV1	5B		OUCBWMR	60	
OUCBINV	11	10	OUCBRV4	6C		OUCBWMMS	38	
OUCBIOC	40		OUCBRV5	C4		OUCBWSS	52	
OUCBIOR	68		OUCBRVWP	17	20	OUCBYFL	12	
OUCBIRV	64		OUCBRTR	14	10	OUCB1BLK	0	
OUCBITB	18	40	OUCBR025	25		OUCB2BLK	100	
OUCBJSAS	17	40	OUCBR102	102				

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OUSB

COMMON NAME: SRM User Swappable Block
 MACRO ID: IHAOUSB
 DSECT NAME: OUSB
 CREATED BY: IEAVEMIN
 SUBPOOL AND KEY: 255 and Key 0
 SIZE: 208 bytes
 POINTED TO BY: ASXBOUSB field of the ASXB data area
 SERIALIZATION: SRM lock
 FUNCTION: Used by system resources manager to save information from the OUXB, so that the OUXB may be freed when the described address space is swapped out. Also used to accumulate user paging statistics for the SRM. It resides in LSQA.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	208	OUSB	
0	(0)	CHARACTER	4	OUSBNAME	BLOCK IDENTIFICATION 'OUSB'
4	(4)	CHARACTER	56	OUSBPAGE	OUSB PAGING INFO
4	(4)	SIGNED	4	OUSBPIN	SESSION PAGE IN ACCUMULATOR
8	(8)	SIGNED	4	OUSBPOUT	SESSION PAGE OUT ACCUMULATOR
12	(C)	SIGNED	4	OUSBPREC	SESSION RECLAIM ACCUMULATOR
16	(10)	SIGNED	4	OUSBVAMI	SESS VAM PAGE IN ACCUMULATOR
20	(14)	SIGNED	4	OUSBVAMO	SESS VAM PAGE OUT ACCUMULATOR
24	(18)	SIGNED	4	OUSBVAMR	SESS VAM RECLAIM ACCUMULATOR
28	(1C)	CHARACTER	12	OUSBSSWAP	SWAPPING INFO FOR SMF
28	(1C)	SIGNED	4	OUSBSPIN	SWAPPING PAGE IN ACCUMULATOR
32	(20)	SIGNED	4	OUSBSPOT	SWAPPING PAGE OUT ACCUMULATOR
36	(24)	SIGNED	4	OUSBSWCT	SESSION SWAP CNT ACCUMULATOR
40	(28)	SIGNED	4	OUSBCAPI	COMMON PAGE IN ACCUM
44	(2C)	SIGNED	4	OUSBCAPR	COMMON RECLAIM ACCUM
48	(30)	SIGNED	4	OUSBSTCT	PAGES STOLEN ACCUM
52	(34)	SIGNED	4	OUSBPAI	LPA PAGE IN
56	(38)	SIGNED	4	OUSBPAR	LPA PAGE RECLAIMS
60	(3C)	CHARACTER	146	OUSBSAVE	OUSBFLDS SAVEAREA
206	(CE)	SIGNED	2	OUSBRS0	RESERVED
208	(D0)	CHARACTER		OUSBEND	END OF OUSB

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
OUSB	0		OUSBPAGE	4		OUSBSPOT	20	
OUSBCAPI	28		OUSBPIN	4		OUSBSTCT	30	
OUSBCAPR	2C		OUSBPOUT	8		OUSBMAP	1C	
OUSBEND	D0		OUSBPREC	C		OUSBMCT	24	
OUSBLPAI	34		OUSBR80	CE		OUSBVAMI	10	
OUSBLPAR	38		OUSBSAVE	3C		OUSBVAMO	14	
OUSBNAME	0		OUSBSPIN	1C		OUSBVAMR	18	

OUBX

COMMON NAME: SRM User Extension Block
 MACRO ID: IHAOUBX
 DSECT NAME: OUBX
 CREATED BY: IRARMEVT
 SUBPOOL AND KEY: 245 and key 0 (Residence - above 16M line)
 SIZE: 264 bytes
 POINTED TO BY: ASCBOUBX field of the ASCB data area
 SERIALIZATION: SRM lock
 FUNCTION: Contains such system resources manager data about an address space that is not required by the SRM while the address space is swapped out. The OUBX is located in the ESQA.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	264	OUBX	
0	(0)	CHARACTER	256	OUBIBLK	FIRST 256 BYTE BLOCK OUBX OUBX
0	(0)	CHARACTER	4	OUBBNAME	BLOCK IDENTIFICATION 'OUBX'
4	(4)	UNSIGNED	4	OUBBPET	PAGE STEAL BASE CPU INTERVAL
8	(8)	UNSIGNED	4	OUBBMET	MSO BASE CPU MEASUREMENT
12	(C)	ADDRESS	4	OUBBRWS	REQSWAP ECB ADDRESS OR, IF HIGH ORDER BIT IS ON, ADDRESS OF A LIST.
16	(10)	CHARACTER	56	OUBBPAGE	PAGING INFO REPORTED BY SMF
16	(10)	SIGNED	4	OUBBPIN	INTERVAL PAGE IN ACCUMULATOR
20	(14)	SIGNED	4	OUBBPOUT	INTERVAL PAGE OUT ACCUMULATOR
24	(18)	SIGNED	4	OUBBPREC	INTERVAL RECLAIM ACCUMULATOR
28	(1C)	SIGNED	4	OUBBVAMI	NTVL VAM PAGE IN ACCUMULATOR
32	(20)	SIGNED	4	OUBBVAMO	NTVL VAM PAGE OUT ACCUMULATOR
36	(24)	SIGNED	4	OUBBVAMR	NTVL VAM RECLAIM ACCUMULATOR
40	(28)	CHARACTER	12	OUBBSWAP	SWAP INFORMATION
40	(28)	SIGNED	4	OUBBSPIN	SWAP PAGES IN COUNT
44	(2C)	SIGNED	4	OUBBSPOT	SWAP PAGES OUT COUNT
48	(30)	SIGNED	4	OUBBSWCT	SWAP COUNT
52	(34)	SIGNED	4	OUBBCAPI	COMMON PAGE IN ACCUM
56	(38)	SIGNED	4	OUBBCAPR	COMMON RECLAIM ACCUM
60	(3C)	SIGNED	4	OUBBSTCT	PAGES STOLEN ACCUM
64	(40)	SIGNED	4	OUBBLPAI	LPA PAGE IN
68	(44)	SIGNED	4	OUBBLPAR	LPA PAGE RECLAIMS
72	(48)	SIGNED	2	OUBBIOS	RESERVED
74	(4A)	SIGNED	2	OUBBSTC	INTERVAL STEAL CALL COUNT
76	(4C)	BITSTRING	4	OUBBEJST	BASE EXEC TIME ,101%
80	(50)	ADDRESS	4	OUBBTWS	TRANSWAP ECB ADDRESS OR, IF HIGH ORDER BIT IS ON, ADDRESS OF A LIST. (
84	(54)	CHARACTER	146	OUBBFLDS	OUBX INFORMATION SAVED AT QSCECMP(QUIESCE COMPLETE)
84	(54)	UNSIGNED	4	OUBBNQT	ENQ RESIDENCY START TIME
88	(58)	CHARACTER	60	OUBBACNT	OUBX "ACCOUNTING"
88	(58)	UNSIGNED	4	OUBBTRC	SESSION TRANSACTION COUNT
92	(5C)	UNSIGNED	4	OUBBJBS	SESSION SERVIC ACCUMULATOR
96	(60)	UNSIGNED	4	OUBBJBT	SESSION TIME ACCUMULATOR
100	(64)	UNSIGNED	4	OUBBTRS	TRANSACTION SRVC ACCUMULATOR
104	(68)	UNSIGNED	4	OUBBTRT	TRANSACTION TIME ACCUMULATOR
108	(6C)	UNSIGNED	4	OUBBJBR	SESSION RESIDENT ACCUMULATOR
112	(70)	UNSIGNED	4	OUBBTRR	TRANSACT RESIDENT ACCUMULATOR
116	(74)	UNSIGNED	4	OUBBJCPU	SESSION CPU SERVICE ACCUM
120	(78)	UNSIGNED	4	OUBBTCPU	TRANSACTION CPU SERVICE ACCUM
124	(7C)	UNSIGNED	4	OUBBJIOC	SESSION I/O SERVICE ACCUM
128	(80)	UNSIGNED	4	OUBBTIOC	TRANSACTION I/O SERVICE ACCUM
132	(84)	UNSIGNED	4	OUBBJMSO	SESSION STORAGE SERVICE ACCUM
136	(88)	UNSIGNED	4	OUBBTMSO	TRANSACTION STORAGE SERVICE ACCUM
140	(8C)	UNSIGNED	4	OUBBJSRB	SESSION SRB SERVICE ACCUM
144	(90)	UNSIGNED	4	OUBBTSRB	TRANSACTION SRB SERVICE ACCUM
148	(94)	UNSIGNED	4	OUBBILS	IOL BASE I/O MEASUREMENT
152	(98)	UNSIGNED	4	OUBBIOSM	SMF BASE EXCP COUNT
156	(9C)	UNSIGNED	4	OUBBDCTI	DEVICE CONN TIME BASE
160	(A0)	BITSTRING	8	OUBBCPS	WLM BASE CPU MSRM
168	(A8)	BITSTRING	8	OUBBMSS	WLM BASE MSO SERVICE VALUE
176	(B0)	BITSTRING	8	OUBBSBS	WLM SRB BASE SERVICE VALUE
184	(B8)	UNSIGNED	4	OUBBITD	IOL BASE START TIME
188	(BC)	UNSIGNED	4	OUBBSTD	AUX BASE START TIME

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
192	(C0)	SIGNED	4	OUBPRS	PG PERIOD STARTING SERVICE
196	(C4)	SIGNED	2	OUBWCT	APG BASE SHORT WAIT COUNT
198	(C6)	UNSIGNED	1	OUBRSV1	RESERVED
199	(C7)	BITSTRING	1	OUBFLGS	FLAG BYTE
		1...		OUBWMO	TSO COMMAND ENDED
		.1...		OUBCLST	TSO IN CLIST MODE
		..11 1111		*	RESERVED
200	(C8)	UNSIGNED	4	OUBVSC	AUX BASE VAM SLOT
204	(CC)	UNSIGNED	4	OUBNVC	AUX BASE NONVAM SLOT
208	(D0)	SIGNED	2	OUBFIXC	BASE USER FIXED FRAME COUNT
210	(D2)	SIGNED	2	OUBUIC	HIGHEST UNREF FRAME COUNT
212	(D4)	SIGNED	4	OUBSIBP	BASE PAGE IN COUNT
216	(D8)	UNSIGNED	4	OUBSIBR	BASE RESIDENCY TIME
220	(DC)	UNSIGNED	4	OUBSIBE	BASE EXECUTION TIME
224	(E0)	SIGNED	2	OUBSIPR	RECENT PAGE IN RATE
226	(E2)	CHARACTER	4	*	RESERVED
230	(E6)	SIGNED	2	OUBFMCT	EFFECTIVE FMCT
232	(E8)	BITSTRING	8	OUBAET	APG BASE CPU MEASUREMENT
240	(F0)	UNSIGNED	4	OUBUICT	TIME OF LAST UIC UPDT
244	(F4)	UNSIGNED	4	OUBTSIO	TRANSACTION RESIDENT INTERVAL I/O SERVICE
248	(F8)	SIGNED	2	OUBRSV2	RESERVED
250	(FA)	SIGNED	2	OUBDSCN	Dispatchable count: the number of times that this address space has been found in subroutine CPUTLCK to be dispatchable yet no CPU time has accumulated for it.
252	(FC)	UNSIGNED	4	OUBEJT2	LOWER HALF OF ASCBEJST AT SWAP IN
256	(100)	CHARACTER	8	OUB2BLK	SECOND 256 BYTE BLOCK OF OUBX
256	(100)	BITSTRING	8	OUBEWST	ASCBWST AT SWAP IN
264	(108)	CHARACTER		OUBEND	END OF OUBX

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
OUXB	0		OUXBJMSO	84		OUXBSTC	4A	
OUXBACNT	58		OUXBJSRB	8C		OUXBSTCT	3C	
OUXBAET	E8		OUXBLPAI	40		OUXBSTD	BC	
OUXBCAPI	34		OUXBLPAR	44		OUXBSWAP	28	
OUXBCAPR	38		OUXBMET	8		OUXBSWCT	30	
OUXBCLST	C7	40	OUXBMSS	A8		OUXBTCPU	78	
OUXBCPS	A0		OUXBNAME	0		OUXBTIOC	80	
OUXBDCTI	9C		OUXBNQT	54		OUXBTMSO	88	
OUXBDSCN	FA		OUXBNVC	CC		OUXBTRC	58	
OUXBEJST	4C		OUXBPAGE	10		OUXBTRR	70	
OUXBEJT2	FC		OUXBPET	4		OUXBTRS	64	
OUXBEND	108		OUXBPIN	10		OUXBTRT	68	
OUXBEWST	100		OUXBPOUT	14		OUXBTSTIO	F4	
OUXBFIXC	D0		OUXBPRES	18		OUXBTSTRB	90	
OUXBFLDS	54		OUXBPRS	C0		OUXBTSTW	50	
OUXBFLGS	C7		OUXBRSV1	C6		OUXBUIC	D2	
OUXBFMCT	E6		OUXBRSV2	F8		OUXBUICT	F0	
OUXBILS	94		OUXBRSW	C		OUXBVAMI	1C	
OUXBIOS	48		OUXBSBS	B0		OUXBVAMD	20	
OUXBIOSM	98		OUXBSIBE	DC		OUXBVAMR	24	
OUXBITD	B8		OUXBSIBP	D4		OUXBVSC	C8	
OUXBJBR	6C		OUXBSIBR	D8		OUXBNCT	C4	
OUXBJBS	5C		OUXBSIPR	E0		OUXBMO	C7	80
OUXBJBT	60		OUXBSPIN	28		OUXB1BLK	0	
OUXBJCPU	74		OUXBSPOT	2C		OUXB2BLK	100	
OUXBJIOC	7C							

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PARS

COMMON NAME: Global Resource Serialization Parse Setup Macro
 MACRO ID: ISGNPARS
 DSECT NAME: None
 CREATED BY: The caller of ISGNPARS
 SUBPOOL AND KEY: Caller's
 SIZE: 42 bytes
 POINTED TO BY: Maintained by the caller or ISGNPARS
 SERIALIZATION: None
 FUNCTION: Maps the parameter list for the Global Resource Serialization Parse Setup Module (ISGNPARS).

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	42	PARS	PARSE SETUP ENTRY
0	(0)	CHARACTER	4	PARSID	CONTROL BLOCK ACRONYM 'PARS'
4	(4)	ADDRESS	4	PARSBUFF	ADDRESS OF MULTI RECORD BUFFER
8	(8)	ADDRESS	4	PARSEOR	ADDRESS OF READ ROUTINE ERROR ROUTINE
12	(C)	ADDRESS	4	PARSTAB	ADDRESS OF PARSE TABLE
16	(10)	ADDRESS	4	PARSSCL	ADDRESS OF SCL PARAMETER LIST
20	(14)	SIGNED	4	PARSCNT	NUMBER OF RECORDS READ
24	(18)	SIGNED	4	PARSRNRC	RETURN CODE FROM READ ROUTINE
28	(1C)	UNSIGNED	2	PARSBUFL	DATA AREA FOR LENGTH OF MULTI RECORD BUFFER
30	(1E)	CHARACTER	8	PARSMEM	PARMLIB MEMBER TO BE READ
38	(26)	CHARACTER	1	PARSFLG	QUIT OPTION FLAGS
		1...		PARSNSUC	IN THE RDRTNEOR THIS QUIT FLAG IS INDICATED, WHEN 1 UNSUCCESSFUL, ISGNPARS STOPS PROCESSING
		.1..		PARSSUC	IN THE RDRTNEOR THIS QUIT FLAG IS INDICATED, WHEN 1 SUCCESSFUL, ISGNPARS STOPS PROCESSING
		..11 1111		*	RESERVED
39	(27)	CHARACTER	1	PARSPFLG	PROCESS OPTION FLAGS
		1...		PARSMLTR	INDICATES MULTI RECORD PROCESSING
		.111 1111		*	RESERVED
40	(28)	CHARACTER	2	*	USED FOR FULLWORD BOUNDARY ALIGNMENT
42	(2A)	CHARACTER		PARSEND	END OF PARS

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
PARS	0		PARSFLG	26		PARSPFLG	27	
PARSBUFL	1C		PARSID	0		PARSRNRC	18	
PARSBUFP	4		PARSMEM	1E		PARSSCL	10	
PARSCNT	14		PARSMLTR	27	80	PARSSUC	26	40
PARSEND	2A		PARSNSUC	26	80	PARSTAB	C	
PARSEOR	8							

PART

COMMON NAME: ASM Paging Activity Reference Table
 MACRO ID: ILRPART
 DSECT NAME: PART
 CREATED BY: ILRASRM1
 SUBPOOL AND KEY: 245 and Key 0 (Residence - above 16M line)
 SIZE: Header is 80 bytes; each entry (PARTE) is 96 bytes; there can be up to 96 PARTES.
 POINTED TO BY: ASMPART field of the ASMVT data area.
 IORPARTE field of the IORB points to a PART entry ("PARTENT")
 PAREPARE field of the PARTE points to the next PARTE in use
 PATPART field of the PAT points to the PARTE associated with that PAT.
 SERIALIZATION: The ASMGML lock is used to serialize this control block.
 FUNCTION: PART is the map relating the collection of logical slots of auxiliary storage to identifiable page data sets (VSAM data spaces).

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	4656	PART	PAGING ACTIVITY REFERENCE TABLE
0	(0)	CHARACTER	80	PARTHDR	PART HEADER WHICH CONTAINS GENERAL INFORMATION ABOUT THE PAGE DATA SETS
0	(0)	CHARACTER	4	PARTIDEN	'PART' IDENTIFIER
4	(4)	SIGNED	4	PARTSIZE	TOTAL NUMBER OF ENTRIES IN THE PART, USED OR UNUSED
8	(8)	SIGNED	2	PARTEUSE	TOTAL NUMBER OF PART ENTRIES IN USE
10	(A)	SIGNED	2	PARTLAST	INDEX NUMBER OF THE LAST PARTE WHICH IS IN USE (ZERO BASED)

THE FOLLOWING THREE QUEUES POINT TO CIRCULAR PARTE QUEUES FOR LOCAL PAGE DATA SETS.

12	(C)	ADDRESS	4	PARTCIRO	POINTER TO NEXT PARTE FROM WHICH TO ALLOCATE SLOTS FOR BPF FILES
16	(10)	ADDRESS	4	PARTCIR1	POINTER TO NEXT PARTE FROM WHICH TO ALLOCATE SLOTS FOR FIXED HEAD FILES
20	(14)	ADDRESS	4	PARTCIR2	POINTER TO NEXT PARTE FROM WHICH TO ALLOCATE SLOTS FOR MOVABLE HEAD FILES
24	(18)	ADDRESS	4	PARTTPAR	ADDRESS OF TPARTBLE FOR USE BY TASK MODE INITIALIZATION
24	(18)	ADDRESS	4	PARTDSNL	ADDRESS OF DATA SET NAME LIST IN CSA FOR PAGE DATA SETS. THIS ADDRESS REPLACES THE TPARTBLE POINTER WHEN THE DATA SET NAME LIST IS BUILT AT TMI TIME.
28	(1C)	ADDRESS	4	PARTPCTQ	ADDRESS OF FIRST IN CHAIN OF ONE OR MORE PCT'S THAT HAVE BEEN BUILT FOR THE DEVICE TYPES CONTAINING OPEN PAGE DATA SETS

THE FOLLOWING FIELDS ARE UNIQUE FOR THE PART HEADER

32	(20)	SIGNED	2	PARTLCNT	COUNT OF ACTIVE LOCAL PAGE DATA SETS
34	(22)	BITSTRING	1	PARTFLG1	PART FLAGS
		1... ..		PARTNVIO	1 = NO VIO ACCEPTING DATA SETS ARE IN USE, 0 = AT LEAST ONE VIO ACCEPTING DATA SET IS IN USE
		.111 1111		*	RESERVED
35	(23)	CHARACTER	1	*	RESERVED
36	(24)	CHARACTER	8	PARTNPCW	CHAIN OF AIAS FOR WHICH THERE WERE NO PCCWS
36	(24)	ADDRESS	4	PARTNPCF	FIRST AIA ON NO PCCW QUEUE
40	(28)	ADDRESS	4	PARTNPCL	LAST AIA ON NO PCCW QUEUE
44	(2C)	UNSIGNED	4	PARTTIME	SUM OF TOTAL SERVICE TIMES FOR ALL LOCAL PAGE DATASETS
48	(30)	ADDRESS	4	PARTPLPA	ADDRESS OF THE PARTE FOR THE PLPA DATASET
52	(34)	ADDRESS	4	PARTLOCA	ADDRESS OF THE PARTE FOR THE FIRST LOCAL PAGE DATASET
56	(38)	ADDRESS	4	PARTLSTA	ADDRESS OF THE PARTE FOR THE LAST LOCAL PAGE DATASET IN USE
60	(3C)	CHARACTER	19	PARTRSV2	RESERVED
79	(4F)	BITSTRING	1	PARTLVL	PART LEVEL ID
80	(50)	CHARACTER	96	PARTENTS (255)	THE PART ENTRIES. ONE PARTE REPRESENTS ONE PAGE DATA SET. A PARTE IS BUILT FOR EACH PAGE DATA SET OPENED AT IPL TIME

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
					AND FOR EACH POTENTIAL DATA SET THAT CAN BE ADDED LATER UP TO A MAXIMUM OF 256 TOTAL ENTRIES.
0	(0)	STRUCTURE	96	PARTENT	PART ENTRY
0	(0)	ADDRESS	4	PAREPARE	POINTER TO NEXT PARTE IN USE
4	(4)	UNSIGNED	1	PAREBRST	BURST SIZE FOR THIS DATASET
5	(5)	UNSIGNED	1	PAREIORN	NUMBER OF IORB'S BUILT FOR THIS PARTE
6	(6)	CHARACTER	2	PARERSV4	RESERVED
8	(8)	CHARACTER	1	PARETYPE	PAGE DATA SET TYPE FLAGS
		1... ..		PAREPLPA	PARTE FOR PLPA DATA SET
		.1.. ..		PARECOMM	PARTE FOR COMMON DATA SET
		..1.		PAREDPLX	PARTE FOR DUPLEX DATA SET
		...1		PARELOCL	PARTE FOR LOCAL DATA SET
		.... 1..		PAREBPF	1 => ASSOCIATED WITH BPF CACHE
		.... .1..		PARESPP	1 => USE SET PAGING PARAMETERS CCM
		.... ..11		*	UNUSED
9	(9)	CHARACTER	1	PAREFLG1	PARTE FLAGS
		1... ..		PARENUSE	PARTE NOT IN USE FLAG 1=PARTE NOT IN USE 0=PARTE IN USE
		.1..		PAREDSBD	DATA SET BAD FLAG 1=ASM HAS DETECTED ERRORS INDICATING THIS PAGE DATA SET IS NOT USEFUL FOR PAGING. IT IS EFFECTIVELY NOT IN USE. 0=PAGE DATA SET SATISFACTORY FOR USE.
		..1.		PAREINCP	INTERCEPTED FLAG. MEANINGFUL ONLY IF DUPLEXING ACTIVE 1=PLPA OR COMMON DATA SET TEMPORARILY NOT AVAILABLE, READ REQUESTS SHOULD BE DIRECTED TO DUPLEX DATA SET 0=NORMAL PROCESSING IN EFFECT
		...1		PARENVI0	NO VIO ALLOWED ON THIS DATASET
		.... 1..		PARERSET	1 = THE BPF ASSOCIATED WITH THIS PAGE DATA SET HAS BEEN RESET BY ILRASRIM THIS IPL. CONSEQUENTLY, IF ILRTMIO0 DETERMINES THAT JOURNALLED VIO PAGES ARE THIS PAGE DATA SET (AND THEREFORE WERE LOST WHEN THE BPF WAS RESET) IT WILL FORCE A QUICK START ON A WARM START. 0 = THE BPF ASSOCIATED WITH THIS PAGE DATA SET HAS NOT BEEN RESET BY ILRASRIM THIS IPL.
		.... .11.		*	RESERVED
		.... ...1		PARECKD	ON=EXTENDED CKD ARCHITECTURE ALLOWED FOR DATASET. OFF=NOT ALLOWED
10	(A)	SIGNED	2	PARENEN	PART NUMBER FOR THIS PARTE
12	(C)	ADDRESS	4	PAREDEIB	POINTER TO THE DEIB WHICH DESCRIBES THIS DATASET
16	(10)	SIGNED	4	PARESZSL	SIZE OF PAGE DATA SET IN NUMBER OF SLOTS
20	(14)	SIGNED	4	PARESLTA	NUMBER OF SLOTS AVAILABLE FOR ALLOCATION
24	(18)	SIGNED	4	PARERRCT	COUNT OF THE NUMBER OF PERMANENT I/O ERRORS SUFFERED ON THIS PAGE DATA SET.
28	(1C)	ADDRESS	4	PAREIORB	POINTER TO FIRST IORB FOR THIS PAGE DATA SET.
32	(20)	ADDRESS	4	PAREPATP	POINTER TO PAT FOR THIS PAGE DATA SET
36	(24)	ADDRESS	4	PAREPCTP	POINTER TO PCT FOR THIS PAGE DATA SET TYPE
40	(28)	ADDRESS	4	PAREEDBP	POINTER TO EDB FOR PAGE DATA SET
44	(2C)	ADDRESS	4	PAREUCBP	POINTER TO UCB FOR PAGE DATA SET

THE FOLLOWING ARE UNIQUE FOR THE PARTE

48	(30)	ADDRESS	4	PARETIOR	THIS FIELD IS NON ZERO ONLY FOR BPF PLPA, BPF COMMON AND BPF DUPLEX PAGE DATA SETS AND THEN ONLY DURING SYSTEM INITIALIZATION . WHEN IT IS NON ZERO IT IS THE ADDRESS OF THE FIRST IORB FOR THIS DATA SET TO USE THE BPF STORE IN CACHE.
52	(34)	UNSIGNED	4	PARETIME	TOTAL SERVICE TIME FOR THIS DATASET USED FOR LOCALS ONLY
56	(38)	UNSIGNED	4	PARERQTM	LATEST CALCULATION OF SINGLE REQUEST SERVICE TIME FOR THIS DATASET USED FOR LOCALS ONLY
60	(3C)	UNSIGNED	2	PARELSLT	LAST SLOT REFERENCED WHEN BLOCKING REQUESTS
62	(3E)	SIGNED	2	PAREREQS	NUMBER OF OUTSTANDING I/O REQUESTS USED FOR ALL PAGE DATASETS

THE FOLLOWING FIELDS ARE COMMON TO BOTH PART AND SART ENTRIES. OFFSETS MUST MATCH.

64	(40)	BITSTRING	1	PAREFLG2	FLAG BYTE
		1... ..		PAREBPFQ	1 = DATASET IS ON THE QUEUE OF BPF DATASETS

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
		.1..		PAREFIXQ	1 = DATASET IS ON THE QUEUE OF FIXED HEAD DATASETS
		..1.		PAREMOVQ	1 = DATASET IS ON THE QUEUE OF MOVEABLE HEAD DATASETS
		...1 1111		*	RESERVED
65	(41)	CHARACTER	31	PARERSV1	RESERVED

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
PAREBPF	8	08	PAREPATP	20		PARTENT	0	
PAREBPFQ	40	80	PAREPCTP	24		PARTENTS	50	
PAREBRST	4		PAREPLPA	8	80	PARTEUSE	8	
PARECKD	9	01	PAREREQS	3E		PARTFLG1	22	
PARECOMM	8	40	PARERQTM	38		PARTHDR	0	
PAREDEIB	C		PARERRCT	18		PARTIDEN	0	
PAREDPLX	8	20	PARERSET	9	08	PARTLAST	A	
PAREDSBD	9	40	PARERSV1	41		PARTLCNT	20	
PAREEDBP	28		PARERSV4	6		PARTLOCA	34	
PAREFIXQ	40	40	PARESLTA	14		PARTLSTA	38	
PAREFLG1	9		PARESPP	8	04	PARTLVL	4F	
PAREFLG2	40		PARESZSL	10		PARTNPCF	24	
PAREINCP	9	20	PARETIME	34		PARTNPCL	28	
PAREIORB	1C		PARETIOR	30		PARTNPCW	24	
PAREIORN	5		PARETYPE	8		PARTNVIO	22	80
PARELOCL	8	10	PAREUCBP	2C		PARTPCTQ	1C	
PARELSLT	3C		PART	0		PARTPLPA	30	
PAREMOVQ	40	20	PARTCIRO	C		PARTRSV2	3C	
PARENN	A		PARTCIR1	10		PARTSIZE	4	
PARENUSE	9	80	PARTCIR2	14		PARTTIME	2C	
PARENvio	9	10	PARTDSNL	18		PARTTPAR	18	
PAREPARE	0							

PAT

COMMON NAME: ASM Page Allocation Table
MACRO ID: ILRPAT
DSECT NAME: PAT
CREATED BY: ILRASRIM, ILRPGEXP
SUBPOOL AND KEY: 245 and Key 0 (Residence - above 16M line)
SIZE: 24 plus number of slots in the paging space
POINTED TO BY: PAREPATP field of the PARTE data area
SERIALIZATION: The PATMAPs are serialized by the ASMGL lock.
FUNCTION: The PAT is an exact representation of allocated slots within a paging space.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	24	PAT	PAGE ALLOCATION TABLE
0	(0)	CHARACTER	24	PATHDR	PAT HEADER
0	(0)	CHARACTER	4	PATIDENT	'PAT ' IDENTIFIER
4	(4)	ADDRESS	4	PATPART	POINTER TO THE PART ENTRY
8	(8)	SIGNED	2	PATCYLNO	NBR OF CYLINDER MAPS IN THIS PAT
10	(A)	SIGNED	2	PATCYLSZ	NBR OF SLOTS PER CYLINDER
12	(C)	SIGNED	2	PATCYLMW	NBR OF WORDS REQUIRED TO MAP ONE CYLINDER
14	(E)	CHARACTER	2	PATRSV1	RESERVED
16	(10)	CHARACTER	4	PATCCHB	CCHH OF THE BEGINNING OF DATA SET
20	(14)	CHARACTER	4	PATCCHHE	CCHH OF THE END OF THE DATA SET
24	(18)	CHARACTER		PATMAP	SLOT ALLOCATION BIT MAP SIZE DETERMINED BY RIM
24	(18)	CHARACTER	4	PATCYLS (*)	CYLINDER MAP WORDS

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
PAT	0		PATCYLNO	8		PATIDENT	0	
PATCCHHB	10		PATCYLS	18		PATMAP	18	
PATCCHHE	14		PATCYLSZ	A		PATPART	4	
PATCYLMM	C		PATHDR	0		PATRSV1	E	

PCB

COMMON NAME: Page Control Block
 MACRO ID: IARPCB
 DSECT NAME: PCB
 CREATED BY: RSM (as needed)
 SUBPOOL AND KEY: Subpool 245 and Key 0 (Residence - above 16M line)
 SIZE: 96 bytes
 POINTED TO BY: PFTPCB, RABLDPPQF, RABLDPQL, RABNPQF, RABNPQL, RITDPQF, RITDPQL, PCBPCBQ, PCBFQPTR,
 PCBBQPTR, PCBPTR
 SERIALIZATION: RSMGL, RSMAD, RSMXM and RSMST locks.
 FUNCTION: Control paging I/O for a single page.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	96	PCB	
0	(0)	ADDRESS	4	PCBFQPTR	FORWARD PCB QUEUE POINTER
4	(4)	ADDRESS	4	PCBBQPTR	BACKWARD PCB QUEUE POINTER
8	(8)	CHARACTER	1	PCBQID	QUEUE ID FOR CURRENT QUEUE 00=>UNQUEUED PCB 10=>LOCAL DEFERRED PCB QUEUE 11=>DEFERRED PCB QUEUE 12=>NOTIFICATION PCB QUEUE 13=>ADDRESS SPACE CREATE QUEUE 14=>COMMIT PCB QUEUE FD=>FLAWED PCB
9	(9)	BITSTRING	1	PCBFLGS1	FLAG BYTE 1
		1... ..		PCBFCBA	PCB IS ASSOCIATED WITH AN FCB
		.1.		PCBFAIL	REQUEST HAS FAILED
		..1.		PCBIOERR	FAILURE DUE TO AN I/O ERROR
		...1		PCBXMERR	FAILURE DUE TO XMEM ACCESS ERR
		.... 1...		PCBASBO	ASSOCIATE FAILURE
		.... .111		*	RESERVED
10	(A)	BITSTRING	1	PCBFLGS2	FLAG BYTE 2
		1... ..		PCBONFRQ	PCB IS ON THE FREE RPB QUEUE
		.1.		PCBOUT	PCB IS FOR OUTPUT I/O
		..1.		PCBNOITV	WHEN PCB IS ON THE DPQ, THERE IS NO INTENT TO VALIDATE THE PAGE
		...1		PCBFFCB	INDICATES RPB WAS LAST USED AS AN FCB
		.... 1...		PCBFIX	PCB IS FOR AN ACTIVE PAGE FIX
		.... .1..		PCBBELOW	NEED REAL STORAGE BELOW 16M
		.... .1.		PCBPREF	NEED PREFERRED AREA REAL STG
		.... ...1		PCBIONST	I/O HAS NOT BEEN STARTED BY ASM. THIS BIT IS ONLY VALID DURING SWAP OUT PROCESSING.
11	(B)	BITSTRING	1	PCBFLGS3	FLAG BYTE 3
		1... ..		PCBVDISC	PCB DISCONNECTED FROM VIRTUAL
		.1.		PCBRDISC	PCB DISCONNECTED FROM REAL
		..1.		PCBFRAUX	FREE AUX STG WHEN I/O COMPLETES
		...1		PCBFREAL	FREE FRAME WHEN I/O COMPLETES
		.... 1...		PCBXPTNA	XPTLPID FIELD SHOULD NOT BE ACCESSED WHEN I/O COMPLETES
		.... .1..		PCBNOTRS	I/O COMPLETION SHOULD NOT TRAS
		.... ...1		PCBNODFR	PCB SHOULD BE SENT TO THE I/O CANCEL ROUTINE BY GENERAL DEFER
		.... ...1		PCBTOP	WHEN PCBREAL=1, THE PFTE ASSOCIATED WITH THIS PCB SHOULD BE SENT TO THE TOP OF THE AFQ AFTER ZEROING OUT THE PFTASID
12	(C)	CHARACTER	1	PCBFID	FUNCTION ID FOR THIS REQUEST 11=PAGE FAULT, 12=SEG FAULT, 21=PAGE FIX, 22=PAGE FREE, 23=PAGE LOAD, 24=PAGE=OUT, 25=PAGE RELEASE, 31=SWAP IN, 32=SWAP OUT, 55=DBL FRAME STEAL, 57=FREE FRAME SRB, 58=USLOT, 59=UEPAG PAGE OUT, 72=MIGRATION 81=VIO, 82=V=R, 84=STEAL, 85=RECONFIGURATION, C1=DISASSOCIATE, C2=COMMIT, F1=ADDR SPACE CREATE
13	(D)	BITSTRING	1	PCBFLGSA	FUNCTION FLAG BYTE A MEANINGS DEPEND ON FUNCTION SEE BELOW
14	(E)	BITSTRING	1	PCBFLGS4	FLAG BYTE 4
		1... ..		PCBCHGON	THE CHANGE BIT FOR THIS PAGE SHOULD BE SET ON WHEN THE PAGE IS VALIDATED. (INPUT ONLY)
		.1.		PCBVDIA	THIS PCB HAS A VDI
		..1.		PCBCOM	PCB IS FOR A COMMIT
		...1		PCBDIS	PCB IS FOR A DISASSOCIATE
		.... 11..		*	RESERVED.
		.... .1.		PCBINNVP	DO NOT VALIDATE PAGE WHEN INPUT I/O COMPLETES.
		.... ...1		PCBNOVAL	DO NOT VALIDATE PAGE IF THERE IS AN OUTPUT I/O ERROR.
15	(F)	CHARACTER	1	*	RESERVED
16	(10)	UNSIGNED	4	PCBEXITS	PCB EXIT INDEXES

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
16	(10)	ADDRESS	1	PCBDEFRX	DEFER EXIT ROUTINE INDEX
17	(11)	ADDRESS	1	PCBIOCMX	I/O COMPLETION EXIT RTN INDEX. IF THIS INDEX IS FOR THE SWAP PURGE I/O COMPLETION EXIT AND THE ORIGINAL I/O COMPLETION ROUTINE MUST ALSO RUN, THEN THE ORIGINAL INDEX WILL BE FOUND IN THE PCBSWAPX FIELD.
18	(12)	ADDRESS	1	PCBTERMX	TERMINATION EXIT ROUTINE INDEX
19	(13)	ADDRESS	1	PCBSWAPX	SWAP OUT EXIT ROUTINE INDEX IF SWAP PURGE HAS NOT RUN. IF SWAP PURGE HAS RUN, THEN THIS FIELD WILL CONTAIN 0 OR, IF THE ORIGINAL I/O COMPLETION EXIT MUST ALSO RUN, THE ORIGINAL I/O COMPLETION INDEX.
20	(14)	ADDRESS	4	PCBRPCBQ	ADDRESS OF RELATED PCB OR ZERO
24	(18)	ADDRESS	4	PCBPRAB	ADDR OF PAGE RAB
28	(1C)	ADDRESS	4	PCBHRAB	ADDR OF HOME RAB REQUESTING I/O
32	(20)	UNSIGNED	4	PCBTCB	ADDR OF TCB REQUESTING I/O
32	(20)	UNSIGNED	4	PCBSSRB	ADDR OF SSRB REQUESTING I/O
36	(24)	ADDRESS	4	PCBRB	ADDR OF RB REQUESTING I/O OR 0
36	(24)	ADDRESS	4	PCBFCB	ADDR OF FCB IF PCBFCBA=1
36	(24)	ADDRESS	4	PCBSFTE	ADDRESS OF THIS PAGE'S SFTE IF SWAP IN OR SWAP OUT PCB
40	(28)	ADDRESS	4	PCBVSA	VIRTUAL ADDRESS OF PAGE
44	(2C)	ADDRESS	4	PCBPFTE	ADDRESS OF PFTE BACKING VIRTUAL
48	(30)	ADDRESS	4	PCBPGTE	ADDRESS OF PGTE FOR PAGE
52	(34)	ADDRESS	4	PCBXPT	ADDRESS OF XPT FOR PAGE
56	(38)	CHARACTER	4	PCBFUNAR	FUNCTION AREA MAPPED AS REQUIRED BY EACH FUNCTION
60	(3C)	CHARACTER	4	PCBRESV2	RESERVED
64	(40)	CHARACTER	32	PCBAIA	AIA AREA
64	(40)	CHARACTER	32	PCBVDI	VDI AREA
13	(D)	STRUCTURE	8	PCBSFFLA	SEGMENT FAULT FLAGS
		1... ..		PCBSFINT	INTERNAL RSM CALLER STOPPED
		.111 1111		*	RESERVED
13	(D)	STRUCTURE	8	PCBMGFLA	MIGRATION FLAGS
		1... ..		PCBMGMPA	THERE IS AN MPE ASSOCIATED WITH THIS PCB.
		.111 1111		*	RESERVED
13	(D)	STRUCTURE	8	PCBDSFLA	DISASSOC. FLAGS
		1... ..		PCBDSVDS	I/O IS EXPECTED TO BE VIRTUALLY DISCONNECTED.
		.111 1111		*	RESERVED
13	(D)	STRUCTURE	8	PCBCMFLA	COMMIT FLAGS
		1... ..		PCBCMALL	THIS PAGE IS PART OF A COMMIT ALL REQUEST.
		.1.		PCBCM PFR	THE FRAME BACKING THIS PAGE WAS ASSIGNED BY COMMIT.
		..1.		PCBCMFG	THE PAGE IS IN A FRESHLY GETMAINED STATE.
		...1 1111		*	RESERVED
56	(38)	STRUCTURE	4	PCBMGFUN	MIGRATION FUNCTION AREA
56	(38)	ADDRESS	4	PCBMGPE	MPE POINTER
56	(38)	STRUCTURE	4	PCBCM FUN	COMMIT FUNCTION AREA
56	(38)	ADDRESS	4	PCBCMRVR	ADDRESS OF THE RVR ASSOCIATED WITH THIS PAGE.

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
PCB	0		PCBFLGSA	D		PCBPFTE	2C	
PCBAIA	40		PCBFLGS1	9		PCBPGTE	30	
PCBASBO	9	08	PCBFLGS2	A		PCBPRAB	18	
PCBBELOW	A	04	PCBFLGS3	B		PCBPREF	A	02
PCBBQPTR	4		PCBFLGS4	E		PCBQID	8	
PCBCHGON	E	80	PCBFQPTR	0		PCBRB	24	
PCBCMALL	D	80	PCBFRAUX	B	20	PCBRDISC	B	40
PCBCMFG	D	20	PCBFREAL	B	10	PCBRESV2	3C	
PCBCMFLA	D		PCBFUNAR	38		PCBRPCBQ	14	
PCBCMFUN	38		PCBHRAB	1C		PCBSFFLA	D	
PCBCMPFR	D	40	PCBINNVP	E	02	PCBSFINT	D	80
PCBCMRVR	38		PCBIOCMX	11		PCBSFTE	24	
PCBCOM	E	20	PCBIOERR	9	20	PCBSSRB	20	
PCBDEFRX	10		PCBIONST	A	01	PCBSWAPX	13	
PCBDIS	E	10	PCBMGFLA	D		PCBTCB	20	
PCBDSFLA	D		PCBMGFUN	38		PCBTERMX	12	
PCBDSVDS	D	80	PCBMGMPA	D	80	PCBTOP	B	01
PCBEXITS	10		PCBMGMPE	38		PCBVDI	40	
PCBFAIL	9	40	PCBNODFR	B	02	PCBV DIA	E	40
PCBFCB	24		PCBNOITV	A	20	PCBV DISC	B	80
PCBFCBA	9	80	PCBNOTRS	B	04	PCBVSA	28	
PCBFFCB	A	10	PCBNOVAL	E	01	PCBXMERR	9	10
PCBFID	C		PCBONFRQ	A	80	PCBXPTE	34	
PCBFIX	A	08	PCBOUT	A	40	PCBXPTNA	B	08

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PCCA

COMMON NAME: Physical Configuration Communication Area
 MACRO ID: IHAPCCA
 DSECT NAME: PCCA
 CREATED BY: IEAVNIPO, IEEVCPR
 SUBPOOL AND KEY: 245 and key 0
 SIZE: 584 bytes
 POINTED TO BY: PCCAV... field of the PCCAVT data area
 PSAPCCA field of the PSA data area
 PSAPCCAR field of the PSA data area
 PCCAEMSA field of the PCCA data area (receiving routine's PCCA)
 SERIALIZATION: Disablement
 FUNCTION: Contains information about the physical facilities associated with each processor in the system.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	CHARACTER	4	PCCAPCCA	CONTROL BLOCK ACRONYM IN EBCDIC
4	(4)	BITSTRING	12	PCCACPID	CPU ID (CONTAINS SERIAL NUMBER)
16	(10)	SIGNED	2	PCCACPUA	PHYSICAL CPU ADDRESS
18	(12)	SIGNED	2	PCCACAFM	BIT MASK CORRESPONDING TO PHYSICAL CPU ADDRESS
20	(14)	ADDRESS	4	PCCATQEP	TQE POINTER
24	(18)	ADDRESS	4	PCCAPSAV	VIRTUAL ADDRESS OF PSA
28	(1C)	ADDRESS	4	PCCAPSAR	ABSOLUTE ADDRESS OF PSA
32	(20)	BITSTRING	1	PCCAISCE	INTERRUPT SUB CLASSES TO ENABLE
33	(21)	ADDRESS	3	PCCARV81	RESERVED
36	(24)	SIGNED	4	PCCACRG6 (0)	CONTROL REGISTER 6
36	(24)	BITSTRING	1	PCCAISCM	INTERRUPTION SUBCLASS MASK
37	(25)	ADDRESS	3	PCCACR6L	LOW ORDER THREE BYTES OF CR 6
40	(28)	SIGNED	4	PCCASLIH	NUMBER OF ENTRIES TO THE I/O SLIH
44	(2C)	SIGNED	4	PCCASTPI	NUMBER OF TPI WITH CC=1
48	(30)	SIGNED	4	PCCAXSLF	EXCESSIVE SPIN LENGTH FACTOR.
52	(34)	SIGNED	4	PCCARSPR	RELATIVE SPEED (X4096) OF THIS PROCESSOR.
56	(38)	ADDRESS	4	PCCARV87	RESERVED
60	(3C)	ADDRESS	4	PCCARV88	RESERVED
64	(40)	ADDRESS	4	PCCARV89	RESERVED
68	(44)	ADDRESS	4	PCCARV90	RESERVED
72	(48)	ADDRESS	4	PCCARV91	RESERVED
76	(4C)	ADDRESS	4	PCCARV92	RESERVED
80	(50)	ADDRESS	4	PCCARV93	RESERVED
84	(54)	ADDRESS	4	PCCARV94	RESERVED
88	(58)	ADDRESS	4	PCCARV95	RESERVED
92	(5C)	ADDRESS	4	PCCARV96	RESERVED
96	(60)	ADDRESS	4	PCCARV97	RESERVED
100	(64)	ADDRESS	4	PCCARV98	RESERVED
104	(68)	ADDRESS	4	PCCARV99	RESERVED
108	(6C)	ADDRESS	4	PCCARV9A	RESERVED
112	(70)	ADDRESS	4	PCCARV9B	RESERVED
116	(74)	ADDRESS	4	PCCARV9C	RESERVED
120	(78)	ADDRESS	4	PCCARV9D	RESERVED
124	(7C)	ADDRESS	4	PCCARV9E	RESERVED
128	(80)	BITSTRING	4	PCCATMST (0)	TIMER STATUS BYTES
128	(80)	BITSTRING	1	PCCATMFL	FIRST BYTE OF PCCATMST
		1... ..		PCCAINIT	"X'80'" ENTRY HAS BEEN INITIALIZED
		.1.. ..		PCCASYNC	"X'40'" CLOCK OUT OF SYNCHRONIZATION
		..1.		PCCAVKIL	"X'20'" CONFIG CPU SHOULD BE CANCELLED
		...1		PCCAMCC	"X'10'" PROCESSING FOR PERMANENTLY DAMAGED CLOCK
		.... 1...		PCCAMINT	COMPARATOR MUST BE DONE
		.... .1..		PCCARV02	"X'08'" PROCESSING FOR CPU TIMER MUST BE DONE
		.... ..1.		PCCARV03	"X'04',,C'X'" RESERVED
		.... ...1		PCCARV04	"X'02',,C'X'" RESERVED
				PCCARV04	"X'01',,C'X'" RESERVED
129	(81)	BITSTRING	1	PCCATODE	TOD CLOCK ERROR FLAGS

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
		1... ..		PCCANJTD	"X'80'" CLOCK CANNOT BE USED
		.1.		PCCANFTD	"X'40'" CLOCK SHOULD NOT BE RESET
		..11 1111		PCCACTTD	"X'3F'" ERROR COUNT (6 BITS)
130	(82)	BITSTRING	1	PCCACCE	FLAGS FOR CLOCK COMPARATOR
		1... ..		PCCANUCC	"X'80'" CLOCK COMPARATOR CANNOT BE USED
		.1.		PCCANFCC	"X'40'" CLOCK COMPARATOR SHOULD NOT BE RESET
		..11 1111		PCCACTCC	"X'3F'" ERROR COUNT (6 BITS)
131	(83)	BITSTRING	1	PCCAINTE	FLAGS FOR CPU TIMER
		1... ..		PCCANJIN	"X'80'" CPU TIMER CANNOT BE USED
		.1.		PCCANFIN	"X'40'" CPU TIMER SHOULD NOT BE RESET
		..11 1111		PCCACTIN	"X'3F'" ERROR COUNT (6 BITS)
132	(84)	SIGNED	4	PCCARPB	EXTERNAL CALL SIGP BUFFER
		1... ..		PCCASWTH	"X'80'" SWITCH REQUEST
		.1.		PCCARV4A	"X'40'" RESERVED
		..1.		PCCARQCK	"X'20'" RQCHECK REQUEST
		...1		PCCAGTFR	"X'10'" GTF REQUEST
		.... 1...		PCCARV4B	"X'08'" RESERVED
		.... .1..		PCCAMODE	"X'04'" MODE REQUEST
		.... ..1		PCCARV4C	"X'02'" RESERVED
		.... ...1		PCCAMEMS	"X'01'" MEMSWT REQUEST
136	(88)	CHARACTER	16	PCCAEMSB (0)	EMERGENCY SIGNAL SIGP BUFFER
136	(88)	BITSTRING	4	PCCAEMSI (0)	FIRST WORD OF EMS BUFFER
136	(88)	BITSTRING	1	PCCARISP	CONTAINS PARALLEL/SERIAL REQUEST INDICATOR FOR REMOTE IMMEDIATE SIGNAL
		1... ..		PCCAPARL	"X'80'" PARALLEL REQUEST
		.1.		PCCASERL	"X'40'" SERIAL REQUEST
		..1.		PCCARV06	"X'20',,C'X'" RESERVED
		...1		PCCARV07	"X'10',,C'X'" RESERVED
		.... 1...		PCCARV08	"X'08',,C'X'" RESERVED
		.... .1..		PCCARV09	"X'04',,C'X'" RESERVED
		.... ..1		PCCARV10	"X'02',,C'X'" RESERVED
		.... ...1		PCCARV11	"X'01',,C'X'" RESERVED
137	(89)	BITSTRING	1	PCCAEMS2	SECOND BYTE OF PCCAEMSI
		1... ..		PCCASERP	"X'80'" SERIAL PENDING INDICATOR
		.1.		PCCARV13	"X'40',,C'X'" RESERVED
		..1.		PCCARV14	"X'20',,C'X'" RESERVED
		...1		PCCARV15	"X'10',,C'X'" RESERVED
		.... 1...		PCCARV16	"X'08',,C'X'" RESERVED
		.... .1..		PCCARV17	"X'04',,C'X'" RESERVED
		.... ..1		PCCARV18	"X'02',,C'X'" RESERVED
		.... ...1		PCCARV19	"X'01',,C'X'" RESERVED
138	(8A)	BITSTRING	1	PCCAEMS3	THIRD BYTE OF PCCAEMSI
		1... ..		PCCASERF	"X'80'" SERIAL REQUEST FAILED
		.1.		PCCARV21	"X'40',,C'X'" RESERVED
		..1.		PCCARV22	"X'20',,C'X'" RESERVED
		...1		PCCARV23	"X'10',,C'X'" RESERVED
		.... 1...		PCCARV24	"X'08',,C'X'" RESERVED
		.... .1..		PCCARV25	"X'04',,C'X'" RESERVED
		.... ..1		PCCARV26	"X'02',,C'X'" RESERVED
		.... ...1		PCCARV27	"X'01',,C'X'" RESERVED
139	(8B)	BITSTRING	1	PCCARMSB	CONTAINS RMS INDICATOR
		1... ..		PCCARV28	"X'80',,C'X'" RESERVED
		.1.		PCCARV29	"X'40',,C'X'" RESERVED
		..1.		PCCARV30	"X'20',,C'X'" RESERVED
		...1		PCCARV31	"X'10',,C'X'" RESERVED

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
		.... 1...		PCCARV32	"X'08',,C'X'" RESERVED
		.... .1..		PCCARV33	"X'04',,C'X'" RESERVED
		.... ..1.		PCCARV34	"X'02',,C'X'" RESERVED
		.... ...1		PCCARMS	"X'01'" SIGP WAS ISSUED VIA RMS
140	(8C)	ADDRESS	4	PCCAEMSP	REMOTE IMMEDIATE SIGNAL PARAMETER ADDRESS
144	(90)	ADDRESS	4	PCCAEMSE	REMOTE IMMEDIATE SIGNAL RECEIVING ROUTINE ENTRY POINT ADDRESS
148	(94)	ADDRESS	4	PCCAEMSA	PCCA ADDRESS OF THE RECEIVING ROUTINE
152	(98)	ADDRESS	4	PCCAPWAV	VIRTUAL ADDRESS OF MCH PROCESSOR WORK AREA
156	(9C)	ADDRESS	4	PCCAPWAR	REAL ADDRESS OF MCH PROCESSOR WORK AREA
160	(A0)	ADDRESS	4	PCCALRBV	VIRTUAL ADDRESS OF MCH LOGREC BUFFER
164	(A4)	ADDRESS	4	PCCALRBR	REAL ADDRESS OF MCH LOGREC BUFFER
168	(A8)	BITSTRING	1	PCCARIOS (208)	RESERVED FOR IOS USE
376	(178)	BITSTRING	1	PCCAATTR	PROCESSOR ATTRIBUTES
		1...		PCCACPUM	"X'80'" INDICATOR THAT DEAD CPU HAD A MALFUNCTION
		.1..		PCCAIO	"X'40'" PROCESSOR HAS I/O CAPABILITY
		..1.		PCCANPFA	"X'20'" WHEN SET, PAGE FAULT ASSIST SHOULD NOT BE USED
		...1		PCCAR101	"X'10',,C'X'" RESERVED
		.... 1...		PCCAR102	"X'08',,C'X'" RESERVED
		.... .1..		PCCAR103	"X'04',,C'X'" RESERVED
		.... ..1.		PCCAR104	"X'02',,C'X'" RESERVED
		.... ...1		PCCAR105	"X'01',,C'X'" RESERVED
377	(179)	BITSTRING	1	PCCAMFA	MALFUNCTION ALERT FLAGS
		1...		PCCASMFA	"X'80'" SIMULATED MALFUNCTION ALERT
378	(17A)	SIGNED	2	PCCARV35	RESERVED
380	(17C)	SIGNED	4	PCCARV36	RESERVED
384	(180)	BITSTRING	200		RESERVED

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
PCCAATTR	178	0	PCCAPHAR	9C		PCCARV4A	84	40
PCCACAFM	12	0	PCCAPHAV	98		PCCARV4B	84	8
PCCACACE	82	0	PCCARIOS	A8		PCCARV4C	84	2
PCCACPID	4	0	PCCARISP	88	0	PCCARV81	21	
PCCACPUA	10	0	PCCARMS	8B	1	PCCARV87	38	
PCCACPUM	178	80	PCCARMSB	8B	0	PCCARV88	3C	
PCCACRG6	24		PCCARPB	84	0	PCCARV89	40	
PCCACR6L	25		PCCARQCK	84	20	PCCARV9A	6C	
PCCACTCC	82	3F	PCCARSPR	34	0	PCCARV9B	70	
PCCACTIN	83	3F	PCCARV02	80	4	PCCARV9C	74	
PCCACTTD	81	3F	PCCARV03	80	2	PCCARV9D	78	
PCCAEMSA	94		PCCARV04	80	1	PCCARV9E	7C	
PCCAEMSB	88		PCCARV06	88	20	PCCARV90	44	
PCCAEMSE	90		PCCARV07	88	10	PCCARV91	48	
PCCAEMSI	88		PCCARV08	88	8	PCCARV92	4C	
PCCAEMSP	8C		PCCARV09	88	4	PCCARV93	50	
PCCAEMS2	89	0	PCCARV10	88	2	PCCARV94	54	
PCCAEMS3	8A	0	PCCARV11	88	1	PCCARV95	58	
PCCAGTFR	84	10	PCCARV13	89	40	PCCARV96	5C	
PCCAINIT	80	30	PCCARV14	89	20	PCCARV97	60	
PCCAINTE	83	0	PCCARV15	89	10	PCCARV98	64	
PCCAI0	178	40	PCCARV16	89	8	PCCARV99	68	
PCCAISCE	20	0	PCCARV17	89	4	PCCAR101	178	10
PCCAISCM	24	0	PCCARV18	89	2	PCCAR102	178	8
PCCALRBR	A4		PCCARV19	89	1	PCCAR103	178	4
PCCALRBV	A0		PCCARV21	8A	40	PCCAR104	178	2
PCCAMCC	80	10	PCCARV22	8A	20	PCCAR105	178	1
PCCAMEMS	84	1	PCCARV23	8A	10	PCCASERF	8A	80
PCCAMFA	179	0	PCCARV24	8A	8	PCCASERL	88	40
PCCAMINT	80	8	PCCARV25	8A	4	PCCASERP	89	80
PCCAMODE	84	4	PCCARV26	8A	2	PCCASLIH	28	0
PCCANFCC	82	40	PCCARV27	8A	1	PCCASMFA	179	80
PCCANFIN	83	40	PCCARV28	8B	80	PCCASTPI	2C	0
PCCANFTD	81	40	PCCARV29	8B	40	PCCASWTH	84	80
PCCANPFA	178	20	PCCARV30	8B	20	PCCASYNC	80	40
PCCANUCC	82	80	PCCARV31	8B	10	PCCATMFL	80	0
PCCANUIN	83	80	PCCARV32	8B	8	PCCATMST	80	
PCCANUTD	81	80	PCCARV33	8B	4	PCCATODE	81	0
PCCAPARL	88	80	PCCARV34	8B	2	PCCATQEP	14	
PCCAPCCA	0	D7C3	PCCARV35	17A	0	PCCAVKIL	80	20
PCCAPSAR	1C		PCCARV36	17C	0	PCCAXSLF	30	0
PCCAPSAV	18							

PCCAVT

COMMON NAME: Physical Configuration Communication Area Vector Table
MACRO ID: IHAPCCAT
DSECT NAME: PCCAVT
CREATED BY: IEAVNIPO
SUBPOOL AND KEY: 245 and key 0
SIZE: 64 bytes
POINTED TO BY: CVTPCCAT field of the CVT data area.
FUNCTION: Contains the address of a PCCA for each CPU.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	ADDRESS	4	PCCAT00P	ADDRESS OF PCCA FOR CPU 0
4	(4)	ADDRESS	4	PCCAT01P	ADDRESS OF PCCA FOR CPU 1
8	(8)	ADDRESS	4	PCCAT02P	ADDRESS OF PCCA FOR CPU 2
12	(C)	ADDRESS	4	PCCAT03P	ADDRESS OF PCCA FOR CPU 3
16	(10)	ADDRESS	4	PCCAT04P	ADDRESS OF PCCA FOR CPU 4
20	(14)	ADDRESS	4	PCCAT05P	ADDRESS OF PCCA FOR CPU 5
24	(18)	ADDRESS	4	PCCAT06P	ADDRESS OF PCCA FOR CPU 6
28	(1C)	ADDRESS	4	PCCAT07P	ADDRESS OF PCCA FOR CPU 7
32	(20)	ADDRESS	4	PCCAT08P	ADDRESS OF PCCA FOR CPU 8
36	(24)	ADDRESS	4	PCCAT09P	ADDRESS OF PCCA FOR CPU 9
40	(28)	ADDRESS	4	PCCAT10P	ADDRESS OF PCCA FOR CPU 10
44	(2C)	ADDRESS	4	PCCAT11P	ADDRESS OF PCCA FOR CPU 11
48	(30)	ADDRESS	4	PCCAT12P	ADDRESS OF PCCA FOR CPU 12
52	(34)	ADDRESS	4	PCCAT13P	ADDRESS OF PCCA FOR CPU 13
56	(38)	ADDRESS	4	PCCAT14P	ADDRESS OF PCCA FOR CPU 14
60	(3C)	ADDRESS	4	PCCAT15P	ADDRESS OF PCCA FOR CPU 15

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
PCCAT00P	0		PCCAT06P	18		PCCAT11P	2C	
PCCAT01P	4		PCCAT07P	1C		PCCAT12P	30	
PCCAT02P	8		PCCAT08P	20		PCCAT13P	34	
PCCAT03P	C		PCCAT09P	24		PCCAT14P	38	
PCCAT04P	10		PCCAT10P	28		PCCAT15P	3C	
PCCAT05P	14							

PCCB

COMMON NAME: Private Catalog Control Block
 MACRO ID: IEFPCCB
 DSECT NAME: IEFPCCB
 CREATED BY: IEFAB4EF
 SUBPOOL AND KEY: 236 or 237 and Key 1
 SIZE: 176 bytes
 POINTED TO BY: JSCBPCC field of the JSCB data area
 SERIALIZATION: The major name is SYSZPCCB and the minor name is PCCB. The scope of the resource is step.
 FUNCTION: Contains information relating to a private catalog of a job.

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
0	(0)	STRUCTURE	176	IEFPCCB	PVT CAT CONTROL BLOCK
0	(0)	CHARACTER	4	PCCACRO	ACRONYM OF BLOCK 'PCCB'
4	(4)	ADDRESS	4	PCCNEXTP	ADDR OF NEXT PCCB OR ZERO
8	(8)	ADDRESS	4	PCCPREVP	ADDR OF PREVIOUS PCCB OR 0
12	(C)	CHARACTER	4	PCCSTATS	PCCB INDICATORS
12	(C)	CHARACTER	1	PCCSTAT1	STATUS BYTE NUMBER 1
		1... ..		PCCSTEP	CATALOG IS A STEPCAT
		.1.. ..		PCCALIAS	CTLG CON ALIAS FOR DSNAME
		..1.		PCCACTIV	CATALOG ALLOCATED ACTIVE
		...1		PCOSCVOL	CATALOG IS AN OS CVOL
		.... 1...		PCCTCL	TEMPORARILY CLOSED
		.... .111		*	NOT USED
13	(D)	BITSTRING	1	PCCSTAT2	NOT USED
14	(E)	BITSTRING	1	PCCSTAT3	NOT USED
15	(F)	BITSTRING	1	PCCSTAT4	NOT USED
16	(10)	ADDRESS	4	PCCACBP	ADDR OF ACB FOR PVT CAT
20	(14)	CHARACTER	8	PCCDDNAM	DD NAME FOR DYN ALLOC CTLG
28	(1C)	CHARACTER	44	PCCDSNAM	CATALOG DATA SET NAME
72	(48)	CHARACTER	44	PCCTGCON	CATALOG CONNECTOR (ALIAS)
116	(74)	CHARACTER	6	PCVOLSER	CVOL VOLUME SERIAL
122	(7A)	CHARACTER	2	PCCRSVD1	NOT USED
124	(7C)	ADDRESS	4	PCCLACBP	ACB ADDRESS OF TEMPORARILY CLOSED CATALOG
128	(80)	CHARACTER	48	PCCRSVD2	NOT USED

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
IEFPCCB	0		PCCNEXTP	4		PCCSTAT3	E	
PCCACBP	10		PCCPREVP	8		PCCSTAT4	F	
PCCACRO	0		PCCRSVD1	7A		PCCSTEPC	C	80
PCCACTIV	C	20	PCCRSVD2	80		PCCTCL	C	08
PCCALIAS	C	40	PCCSTATS	C		PCCTGCON	48	
PCCDDNAM	14		PCCSTAT1	C		PCOSCVOL	C	10
PCCDSNAM	1C		PCCSTAT2	D		PCVOLSER	74	
PCCLACBP	7C							

PCCW

COMMON NAME: ASM Paging Channel Command Work Area
 MACRO ID: ILRPCCW
 DSECT NAME: PCCW
 CREATED BY: ILROPS00
 SUBPOOL AND KEY: 245 and key 0 (Residence - above 16M line)
 SIZE: 128 bytes
 POINTED TO BY: IORPCCW field of the IORB data area
 PCCWPCCW field of the PCCW data area
 ASMPCCWQ field of the ASMTV data area
 SERIALIZATION: The PCCW is serialized by the PCCW available queue. The PCCW is kept on an available queue and removed when needed.
 FUNCTION: PCCW describes the string of channel command words which are passed by the I/O supervisor to the channel for I/O processing of a page.

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
0	(0)	STRUCTURE	128	PCCW	DCL PCCW LEVEL 1
0	(0)	CHARACTER	4	PCCWID	PCCW IDENTIFIER 'PCCW'
4	(4)	UNSIGNED	1	PCCWSECT	SECTOR FOR SET SECTOR COMMAND
5	(5)	CHARACTER	1	PCCWFLGS	INTERNAL FLAGS
		1...		PCCWFERR	'X'80' = I/O ERROR
		.111 1111		*	RESERVED
6	(6)	CHARACTER	6	PCCWRSV1	RESERVED
12	(C)	ADDRESS	4	PCCWPCCW	NEXT PCCW ADDRESS
16	(10)	ADDRESS	4	PCCWAIA	ASSOCIATED AIA ADDRESS
20	(14)	ADDRESS	4	PCCWIORB	IORB ADDRESS
24	(18)	ADDRESS	4	PCCWREAL	REAL ADDR THIS PCCW
28	(1C)	CHARACTER	4	PCCWRSV2	RESERVED
32	(20)	CHARACTER	8	PCCWRSV3	RESERVED USED BY EXTENDED CKD FORMAT, NOT BY THIS FORMAT
40	(28)	CHARACTER	8	PCCWCHHR	FULL SEEK ADDRESS MBBCCHHR
40	(28)	CHARACTER	1	PCCWM	EXTENT NUMBER
41	(29)	CHARACTER	2	PCCWBB	BIN NUMBER
43	(2B)	CHARACTER	2	PCCWCC	CYLINDER NUMBER
45	(2D)	CHARACTER	2	PCCWHH	TRACK (HEAD) NUMBER
47	(2F)	CHARACTER	1	PCCWR	RECORD NUMBER
48	(30)	CHARACTER	8	PCCWSEEK	SEEK CCM
48	(30)	CHARACTER	1	PCCWSK	SEEK OP CODE
49	(31)	CHARACTER	1	PCCWSKFG	SEEK FLAGS
50	(32)	CHARACTER	2	PCCWSKCT	SEEK COUNT
52	(34)	ADDRESS	4	PCCWSKAD	SEEK CCM ADDRESS
56	(38)	CHARACTER	8	PCCWSSEC	SET SECTOR CCM
56	(38)	CHARACTER	1	PCCWSS	SET SECTOR OP CODE
57	(39)	CHARACTER	1	PCCWSSFG	SET SECTOR FLAGS
58	(3A)	CHARACTER	2	PCCWSSCT	SET SECTOR COUNT
60	(3C)	ADDRESS	4	PCCWSSAD	SET SECTOR CCM ADDRESS
64	(40)	CHARACTER	8	PCCWSRCH	SEARCH CCM
64	(40)	CHARACTER	1	PCCWSIDE	SEARCH ID EQUAL OP CODE
65	(41)	CHARACTER	1	PCCWSIFG	SEARCH ID EQUAL FLGS
66	(42)	CHARACTER	2	PCCWSICT	SEARCH ID EQUAL CNT
68	(44)	ADDRESS	4	PCCWSIAD	SEARCH ID EQUAL CCM ADDRESS
72	(48)	CHARACTER	8	PCCWTIC	TIC CCM
72	(48)	CHARACTER	1	PCCWT	TIC OP CODE
73	(49)	CHARACTER	1	PCCWTFG	TIC FLAGS
74	(4A)	CHARACTER	2	PCCWTCT	TIC COUNT
76	(4C)	ADDRESS	4	PCCWTAD	TIC CCM ADDRESS
80	(50)	CHARACTER	8	PCCWRW	READ/WRITE CCM
80	(50)	CHARACTER	1	PCCWRDWT	R/W OP CODE
81	(51)	CHARACTER	1	PCCWRWFG	R/W FLAGS
82	(52)	CHARACTER	2	PCCWCNT	R/W COUNT
84	(54)	ADDRESS	4	PCCWADDR	R/W CCM ADDRESS
88	(58)	CHARACTER	8	PCCWNOP	NOP (OR TIC) CCM
88	(58)	CHARACTER	1	PCCWN	NOP OP CODE
89	(59)	CHARACTER	1	PCCWNFG	NOP FLAGS
90	(5A)	CHARACTER	2	PCCWNCT	NOP COUNT
92	(5C)	ADDRESS	4	PCCWNAD	NOP CCM ADDRESS
96	(60)	CHARACTER	10	PCCWSPPD	SET PAGING PARAMETERS DATA
96	(60)	CHARACTER	1	PCCWSPFL	SET PAGING PARAMETER FLAG BYTE

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
		1... ..		PCCWSPSQ	SEQUENTIAL FLAG
		.1... ..		PCCWSPR1	READ ONCE FLAG
97	(61)	CHARACTER	1	PCCWSPBC	SET PAGING PARAMETER BLOCK COUNT USED WHEN SEQUENTIAL FLAG IS SET. ELSE IS ZERO.
98	(62)	CHARACTER	2	PCCWSPCA	SET PAGING PARAMETER BASE CYLINDER ADDRESS ALWAYS ZERO
100	(64)	CHARACTER	2	PCCWRSV4	RESERVED
102	(66)	CHARACTER	4	PCCWSPSK	SET PAGING PARAMETER SEEK ADDRESS
106	(6A)	CHARACTER	22	PCCWRSVD	RESERVED
128	(80)	CHARACTER		*	
32	(20)	STRUCTURE	48	PCCWCKCD	PCCW FOR EXTENDED ARCHITECTURE
32	(20)	CHARACTER	16	PCCWDEFD	DEFINE EXTENT DATA
32	(20)	CHARACTER	1	PCCWDMASK	DEFINE EXTENT MASK BYTE
33	(21)	CHARACTER	1	PCCWDATR	DEFINE EXTENT ATTRIBUTE BYTE
34	(22)	UNSIGNED	2	PCCWDSZ	DEFINE EXTENT RECORD SIZE
36	(24)	CHARACTER	4	PCCWDRSV	RESERVED
40	(28)	CHARACTER	4	PCCWCCHB	BEGINNING CCHH OF DEFINE EXTENT
44	(2C)	CHARACTER	4	PCCWCCHC	ENDING CCHH OF DEFINE EXTENT
48	(30)	CHARACTER	16	PCCWLOCD	LOCATE RECORD DATA
48	(30)	CHARACTER	1	PCCWLOPB	LOCATE RECORD OPERATION BYTE
49	(31)	CHARACTER	1	PCCWLAUX	LOCATE RECORD AUXILIARY BYTE
50	(32)	UNSIGNED	2	PCCWLREC	NUMBER OF RECORDS
52	(34)	CHARACTER	4	PCCWLSEK	SEEK ADDRESS
56	(38)	CHARACTER	5	PCCWLSRC	SEARCH ARGUMENT
61	(3D)	CHARACTER	1	PCCWLSEC	SECTOR NUMBER
62	(3E)	UNSIGNED	2	PCCWLTRN	TRANSFER LENGTH FACTOR
64	(40)	CHARACTER	8	PCCWDEFE	DEFINE EXTENT CCH
64	(40)	CHARACTER	1	PCCWDEOP	DEFINE EXTENT OP CODE
65	(41)	CHARACTER	1	PCCWDEFG	DEFINE EXTENT FLAG
66	(42)	UNSIGNED	2	PCCWDECT	DEFINE EXTENT COUNT
68	(44)	ADDRESS	4	PCCWDEAD	DEFINE EXTENT DATA ADDRESS
72	(48)	CHARACTER	8	PCCWLOCR	LOCATE RECORD CCH
72	(48)	CHARACTER	1	PCCWLROP	LOCATE RECORD OP CODE
73	(49)	CHARACTER	1	PCCWLRFG	LOCATE RECORD FLAG
74	(4A)	CHARACTER	2	PCCWLRCT	LOCATE RECORD COUNT
76	(4C)	ADDRESS	4	PCCWLRAD	LOCATE RECORD DATA ADDRESS
48	(30)	STRUCTURE	8	PCCWSETP	SET PAGING PARAMETERS CCH
48	(30)	CHARACTER	1	PCCWSPOP	SET PAGING PARAMETER OP CODE
49	(31)	CHARACTER	1	PCCWSPFG	SET PAGING PARAMETER FLAG
50	(32)	CHARACTER	2	PCCWSPCT	SET PAGING PARAMETER COUNT
52	(34)	ADDRESS	4	PCCWSPAD	SET PAGING PARAMETER ADDRESS

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
PCCW	0		PCCWLRCT	4A		PCCWSICT	42	
PCCWADDR	54		PCCWLREC	32		PCCWSIDE	40	
PCCWAI	10		PCCWLRFG	49		PCCWSIFG	41	
PCCWBB	29		PCCWLROP	48		PCCWSK	30	
PCCWCC	2B		PCCWLSEC	3D		PCCWSKAD	34	
PCCWCCHB	28		PCCWLSEK	34		PCCWSKCT	32	
PCCWCHE	2C		PCCWLSRC	38		PCCWSKFG	31	
PCCWCHHR	28		PCCWLTRN	3E		PCCWSPAD	34	
PCCWCNT	52		PCCWM	28		PCCWSPBC	61	
PCCWDATR	21		PCCWM	58		PCCWSPCA	62	
PCCWDEAD	44		PCCWNAD	5C		PCCWSPCT	32	
PCCWDECT	42		PCCWNCT	5A		PCCWSPFG	31	
PCCWDEFD	20		PCCWNFG	59		PCCWSPFL	60	
PCCWDEFE	40		PCCWNOP	58		PCCWSPOP	30	
PCCWDEFG	41		PCCWPCCW	C		PCCWSPPD	60	
PCCWDEOP	40		PCCWR	2F		PCCWSPR1	60	40
PCCWDMK	20		PCCWRDWT	50		PCCWSPSK	66	
PCCWDRSV	24		PCCWREAL	18		PCCWSPSQ	60	80
PCCWDSZ	22		PCCWRSVD	6A		PCCWSRCH	40	
PCCWCKD	20		PCCWRSV1	6		PCCWSS	38	
PCCWFERR	5	80	PCCWRSV2	1C		PCCWSSAD	3C	
PCCWFLGS	5		PCCWRSV3	20		PCCWSSCT	3A	
PCCWHH	2D		PCCWRSV4	64		PCCWSSSEC	38	
PCCWID	0		PCCWRW	50		PCCWSSFG	39	
PCCWIORB	14		PCCWRWFG	51		PCCWT	48	
PCCWLAUX	31		PCCWSECT	4		PCCWTAD	4C	
PCCWLOCD	30		PCCWSEEK	30		PCCWTCT	4A	
PCCWLOCR	48		PCCWSETP	30		PCCWTFG	49	
PCCWLOPB	30		PCCWSIAD	44		PCCWTIC	48	
PCCWLRAD	4C							

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PCP

COMMON NAME Parameter Checker Parameter List (PCP)
 MACRO ID CBPZPCP
 CREATED BY Unit Information Modules
 SUBPOOL AND KEY Contained within the UIM load modules
 SIZE 28 bytes
 POINTED TO BY Upon entry to CBPIPARM, Register 1 points to a two-word parameter list. The second word in the parameter list points to the PCP data area.
 SERIALIZATION None
 FUNCTION Maps the parameters of the parameter checker. The Parameter Checker Parameter List contains two mask fields. One mask designates the parameters that are required for the particular device, the other mask designates the parameters that are recognized for the particular device. These bit masks map the parameters in the same order as in the IODEVICE internal text record.

OFFSETS						
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION	
0	(0)	STRUCTURE	28	PCP	Parameter Checker Parm List	
0	(0)	CHARACTER	4	PCPID	Parameter Checker Parm ('PCP')	
4	(4)	BITSTRING	8	PCPREQD	Map of parameters that are required (maps the parameters in the same way as they are mapped in the internal text record field IODVPRMS)	
12	(C)	BITSTRING	8	PCPSUPP	Map of parameters that are supported by this device (maps the parameters in the same way as they are mapped in the internal text record field IODVPRMS)	
20	(14)	CHARACTER	8	*	Reserved	
28	(1C)	CHARACTER		PCPEND	End of PCP.	

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PCRA

COMMON NAME: Program Call Recovery Area
 MACRO ID: IHAPCRA
 DSECT NAME: PCRA
 CREATED BY: PC/Auth service routines issuing SETFRR
 SUBPOOL AND KEY: None, key 0
 SIZE: 24 bytes
 POINTED TO BY: PCRAPTR in each PC/Auth service routine; PCRAMAIN
 SERIALIZATION: Serialized (input) by the PC/Auth local lock. Accessable only when the PC/Auth recovery environment exists.
 FUNCTION: Describes the FRR parameter area returned by the SETFRR macro (as used by the Program Call/Authorization services).

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	24	PCRA	
MAPS THE 6 WORD FRR PARAMETER AREA RETURNED BY SETFRR. USED BY PC/AUTH SERVICES AND THEIR FRR.					
0	(0)	UNSIGNED	2	PCRAEERC	ENVIRONMENTAL ERROR REASON CODE
0	(0)	UNSIGNED	1	PCRASERV	ONE BYTE IDENTIFIER OF THE SERVICE ROUTINE IN CONTROL. SEE CONSTANTS THAT FOLLOW.

. | 1 - LXRES LINKAGE INDEX RESERVE | 2 - LXFRE LINKAGE INDEX FREE | 3 - ETCRE ENTRY TABLE CREATE | 4 - ETDES ENTRY TABLE DESTROY | 5 - ETCON ENTRY TABLE CONNECT | 6 - ETDIS ENTRY TABLE DISCONNECT | 7 - AXRES AUTHORIZATION INDEX RESERVE | 8 - AXFRE AUTHORIZATION INDEX FREE | 9 - AXEXT AUTHORIZATION INDEX EXTRACT | A - AXSET AUTHORIZATION INDEX SET | B - ATSET AUTHORIZATION TABLE SET | C - PCARM PC/AUTH RESOURCE MANAGER | D - XPCR PC/AUTH FRR FINDS PCRASERV INVALID | E-10 - AVAILABLE FOR FUTURE USAGE | 11-13 - USED BY PCLINK - (UNAVAILABLE) | 14 - USED BY IEAVXMAS (UNAVAILABLE)					
--	--	--	--	--	--

1	(1)	UNSIGNED	1	PCRAREAS	ABEND REASON CODE. CODES COMMON TO ALL SERVICES FOLLOW.
---	-----	----------	---	----------	---

OFFSETS
 DEC HEX TYPE LENGTH NAME DESCRIPTION

```

. | 00 - UNEXPECTED ERROR.
    | 01 - GETMAIN FOR DYNAMIC WORKAREA
    | (XMDDASP SUBPOOL) FAILED.
    | 02 - GETMAIN FOR SQA (S.P 245) FAILED.
    | 03 - GETMAIN FOR PC/AUTH LSQA (S.P. 255) FAILED.
    | 05 - GETMAIN FOR PC/AUTH PAGEABLE STORAGE
    | (XMDPSP SUBPOOL) FAILED.
    | 06 - FREEMAIN FOR SQA (S.P 245) FAILED.
    | 07 - FREEMAIN FOR PC/AUTH LSQA (S.P. 255) FAILED.
    | 09 - FREEMAIN FOR PC/AUTH PAGEABLE STORAGE
    | (XMDPSP SUBPOOL) FAILED.
    | 0A - FREEMAIN FOR DYNAMIC WORKAREA
    | (XMDDASP SUBPOOL) FAILED.
    | 97 - UNEXPECTED ERROR.
    | 98 - PC/AUTH SERVCIES ARE INOPERABLE
    | (SVTXMSOP HAS BEEN TURNED OFF).
    | 99 - PC/AUTH CONTROL BLOCK DAMAGE DETECTED.
    
```

DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
2	(2)	BITSTRING	1	*	FIRST FLAG BYTE
		1... ..		PCRARSB1	RESERVED
		.1.. ..		PCRACML	PC/AUTH LOCAL LOCK HELD
		..1. ..		PCRACMS	CMS LOCK HELD
		...1 ..		PCRAKCL	CALLER HELD PC/AUTH LOCAL LOCK (THEREFORE, DONT RELEASE IT)
		.... 1..		PCRACLUP	SERVICE ROUTINE'S FRR CLEANUP EXIT INVOCATION IS REQUESTED
		.... .1..		PCRARCUR	RETRY RECURSION INDICATOR
		.... ..1.		PCRAFRRE	FRR WAS ENTERED AS AN FRR
		.... ...1		PCRARMGR	FRR ENTERED AS RESOURCE MGR
3	(3)	BITSTRING	1	*	SECOND FLAG BYTE
		1... ..		PCRA1ST	THIS PCRA IS FOR 1ST LEVEL FRR
		.1.. ..		PCRA2ND	THIS PCRA IS FOR 2ND LEVEL FRR (THIS IS THE MAIN PCRA)
		..1. ..		PCRANTH	THIS PCRA IS FOR NTH LEVEL FRR
		...1 ..		PCRAPERC	PERCOLATE TO CALLER FLAG
		.... 1..		PCRAREC2	IEAVXPCR RECURSION FLAG
		.... .1..		PCRAFRRG	FRR GETMAIN IN PROGRESS
		.... ..1.		PCRADUMP	AN SDUMP HAS BEEN REQUESTED
		.... ...1		PCRARSB2	RESERVED
4	(4)	ADDRESS	4	PCRASTK	PCLINK STACK TOKEN
8	(8)	ADDRESS	4	PCRARSV1	RESERVED WORD (3RD WORD)
12	(C)	UNSIGNED	1	PCRAFOOT	PRIMARY FRR FOOTPRINT
13	(D)	BITSTRING	1	PCRARSV2	RESERVED
14	(E)	SIGNED	2	PCRARSV3	RESERVED
16	(10)	ADDRESS	4	PCRARDA	FRR DYNAMIC DATA AREA ADDRESS
20	(14)	ADDRESS	4	PCRASRA	ADDRESS OF SERVICE ROUTINE RECOVERY AREA (VALID ONLY FOR THE MAIN PCRA ASSOCIATED WITH THE 2ND LEVEL FRR).
20	(14)	ADDRESS	4	PCRAMAIN	ADDRESS OF MAIN PCRA (VALID FOR A PCRA ASSOCIATED WITH THE 1ST OR AN NTH LEVEL FRR).

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
PCRA	0		PCRAMAIN	14		PCRARSB2	3	01
PCRACLUP	2	08	PCRANTH	3	20	PCRARSV1	8	
PCRACML	2	40	PCRAPERC	3	10	PCRARSV2	D	
PCRACMS	2	20	PCRARCUR	2	04	PCRARSV3	E	
PCRADUMP	3	02	PCRAREAS	1		PCRASERV	0	
PCRAEERC	0		PCRAREC2	3	08	PCRASRRA	14	
PCRAFOOT	C		PCRARMGR	2	01	PCRASTTK	4	
PCRAFRRE	2	02	PCRARRDA	10		PCRA1ST	3	80
PCRAFRRG	3	04	PCRARSB1	2	80	PCRA2ND	3	40
PCRAKML	2	10						

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PCT

COMMON NAME: ASM Performance Characteristics Table
 MACRO ID: ILRPCT
 DSECT NAME: PCT
 CREATED BY: ILRASRIM, ILRPGEXP
 SUBPOOL AND KEY: 245 and Key 0
 SIZE: 40 plus 8 times the number of records on one cylinder
 POINTED TO BY: PARTPCTQ field of the PART data area
 PCTNEXT field of the PCT data area
 PAREPCTP field of the PARTE data area
 SERIALIZATION: None
 FUNCTION: The PCT provides a single location for device-dependent information used by ASM. One PCT exists for each of the eight devices supported by ASM.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	40	PCT	PERFORMANCE CHARACTERISTICS TABLE
0	(0)	CHARACTER	4	PCTID	'PCT ' IDENTIFIER
4	(4)	CHARACTER	6	PCTDTYPE	DEVICE TYPE (EBCDIC)
10	(A)	UNSIGNED	2	PCTSMAX	DEVICE MAX SLOTS
12	(C)	CHARACTER	2	PCTDTYPX	DEVICE TYPE
14	(E)	SIGNED	2	PCTCYLSZ	SLOTS PER CYLINDER
16	(10)	ADDRESS	4	PCTNEXT	CHAIN PTR FOR QUEUE OF PCTS BASED IN PART.
20	(14)	CHARACTER	4	PCTDMASK	MASK TO PRESET NON EXISTING SLOTS
24	(18)	CHARACTER	1	PCTDUSE	DEVICE USAGE CODE.
25	(19)	UNSIGNED	1	PCTPCCWM	PCCW MULTIPLIER
26	(1A)	UNSIGNED	1	PCTBRST	BURST SIZE
27	(1B)	CHARACTER	1	PCTRSV1	RESERVED
28	(1C)	SIGNED	2	PCTDPGWT	PAGING WEIGHT FOR THIS DEVICE TYPE
30	(1E)	SIGNED	2	PCTSSECN	NUMBER OF UNIQUE SET SECTOR VALUES
32	(20)	SIGNED	4	PCTRQTIM	MIN TIME TO READ OR WRITE ONE 4096 BYTE SLOT
36	(24)	UNSIGNED	2	PCTMAXTK	MAXIMUM RELATIVE TRACK POSITION
38	(26)	UNSIGNED	2	PCTMSSB	MINIMUM BYTE VARIANCE TO INSERT SET SECTOR
40	(28)	CHARACTER	*	PCTTABLE	SECTOR VALUE TABLE
40	(28)	STRUCTURE	8	PCTSECT (*)	SECTOR VALUES
40	(28)	CHARACTER	1	PCTSLTNM	RELATIVE SLOT NUMBER ON CYL
		1... ..		PCTFOVFL	1 = OVERFLOW TRACK
		.111 1111		PCTSLOT	SLOT NUMBER
41	(29)	CHARACTER	1	PCTSECNM	SECTOR VALUE CORRESPONDING TO SLOT NUMBER
42	(2A)	CHARACTER	2	PCTTRBA	REL BYTE ON TRACK
44	(2C)	CHARACTER	3	PCTHHR	HEAD AND RECORD FOR THIS SLOT ON THE CYLINDER
47	(2F)	CHARACTER	1	PCTRSV2	RESERVED

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
PCT	0		PCTHHR	2C		PCTSECNM	29	
PCTBRST	1A		PCTID	0		PCTSECT	28	
PCTCYLSZ	E		PCTMAXTK	24		PCTSLOT	28	40
PCTDMASK	14		PCTMSSB	26		PCTSLTNM	28	
PCTDPGWT	1C		PCTNEXT	10		PCTSMAX	A	
PCTDTYPE	4		PCTPCCWM	19		PCTSSECN	1E	
PCTDTPX	C		PCTRQTIM	20		PCTTABLE	28	
PCTDUSE	18		PCTRSV1	1B		PCTTRBA	2A	
PCTFOVFL	28	80	PCTRSV2	2F				

PDS

COMMON NAME: Partitioned Data Set Directory Entry
 MACRO ID: IHAPDS
 DSECT NAME: PDS2
 CREATED BY: STOW
 SUBPOOL AND KEY: N/A
 SIZE: Variable (12-60 bytes)
 POINTED TO BY: N/A
 SERIALIZATION: None
 FUNCTION: Describes a member of a Partitioned Data Set. Contains the name or alias name, the relative address of the first record, concatenation number, the originating library, length of the user data, and variable length user data. This macro is for load module's user data only.

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
0	(0)	CHARACTER	8	PDS2NAME	LOAD MODULE MEMBER NAME OR ALIAS
8	(8)	CHARACTER	3	PDS2TTRP	TTR OF FIRST BLOCK OF NAMED MEMBER
11	(B)	BITSTRING	1	PDS2INDC	INDICATOR BYTE
		1... ..		PDS2ALIS	"BIT0" NAME IN THE FIRST FIELD IS AN ALIAS
		1... ..		DEALIAS	"BIT0" ALIAS FOR PDS2ALIS
		.11.		PDS2NTR	"BIT1+BIT2" NUMBER OF TTR'S IN THE USER DATA FIELD
		...1 1111		PDS2LUSR	"BIT3+BIT4+BIT5+BIT6+BIT7" LENGTH OF USER DATA FIELD IN HALF WORDS
12	(C)	CHARACTER	1	PDS2USRD (0)	START OF VARIABLE LENGTH USER DATA FIELD
12	(C)	CHARACTER	3	PDS2TTRT	TTR OF FIRST BLOCK OF TEXT
15	(F)	CHARACTER	1	PDS2ZERO	ZERO
16	(10)	CHARACTER	3	PDS2TTRN	TTR OF NOTE LIST OR SCATTER/TRANSLATION TABLE. USED FOR MODULES IN SCATTER LOAD FORMAT OR OVERLAY STRUCTURE ONLY.
19	(13)	SIGNED	1	PDS2NL	NUMBER OF ENTRIES IN NOTE LIST FOR MODULES IN OVERLAY STRUCTURE
20	(14)	BITSTRING	2	PDS2ATR (0)	TWO BYTE MODULE ATTRIBUTE FIELD
20	(14)	BITSTRING	1	PDS2ATR1	FIRST BYTE OF MODULE ATTRIBUTE FIELD
		1... ..		PDS2RENT	"BIT0" REENTERABLE
		1... ..		DEREEN	"BIT0" ALIAS FOR PDS2RENT
		.1.		PDS2REUS	"BIT1" REUSABLE
		.1.		PDS2OVLY	"BIT2" IN OVERLAY STRUCTURE
		.1.		DEOVLY	"BIT2" ALIAS FOR PDS2OVLY
		...1		PDS2TEST	"BIT3" MODULE TO BE TESTED TESTRAN
		.... 1..		PDS2LOAD	"BIT4" ONLY LOADABLE
		.... 1..		DELODY	"BIT4" ALIAS FOR PDS2LOAD
		.... .1..		PDS2SCTR	"BIT5" SCATTER FORMAT
		.... .1..		DESCAT	"BIT5" ALIAS FOR PDS2SCTR
		.... .1.		PDS2EXEC	"BIT6" EXECUTABLE
		.... .1.		DEXCUT	"BIT6" ALIAS FOR PDS2EXEC
		.... ...1		PDS21BLK	"BIT7" IF ZERO, MODULE CONTAINS MULTIPLE RECORDS WITH AT LEAST ONE BLOCK OF TEXT. IF ONE, MODULE CONTAINS NO RLD ITEMS AND ONLY ONE BLOCK OF TEXT.
21	(15)	BITSTRING	1	PDS2ATR2	SECOND BYTE OF MODULE ATTRIBUTE FIELD
		1... ..		PDS2FLVL	"BIT0" IF ZERO, MODULE CAN BE PROCESSED BY ALL LEVELS OF LINKAGE EDITOR. IF ONE, MODULE CAN BE PROCESSED ONLY BY F LEVEL OF LINKAGE EDITOR.
		.1.		PDS2ORGO	"BIT1" LINKAGE EDITOR ASSIGNED ORIGIN OF FIRST BLOCK OF TEXT IS ZERO.
		..1.		PDS2EPO	"BIT2" ENTRY POINT ASSIGNED BY LINKAGE EDITOR IS ZERO
		...1		PDS2NRLD	"BIT3" MODULE CONTAINS NO RLD ITEMS
		.... 1..		PDS2NREP	"BIT4" MODULE CANNOT BE REPROCESSED BY LINKAGE EDITOR
		.... .1..		PDS2TSTN	"BIT5" MODULE CONTAINS TESTRAN SYMBOL CARDS
		.... .1.		PDS2LEF	"BIT6" MODULE CREATED BY LINKAGE EDITOR F
		.... ...1		PDS2REFR	"BIT7" REFRESHABLE MODULE
22	(16)	SIGNED	3	PDS2STOR	TOTAL CONTIGUOUS MAIN STORAGE REQUIREMENT OF MODULE

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
25	(19)	SIGNED	2	PDS2FTBL	LENGTH OF FIRST BLOCK OF TEXT
27	(1B)	ADDRESS	3	PDS2EPA	ENTRY POINT ADDRESS ASSOCIATED WITH MEMBER NAME OR WITH ALIAS NAME IF ALIAS INDICATOR IS ONE
30	(1E)	ADDRESS	3 (0)		LINKAGE EDITOR ASSIGNED ORIGIN OF FIRST BLOCK OF TEXT (OS USE OF FIELD)
30	(1E)	BITSTRING	3	PDS2FTBO (0)	FLAG BYTES (AOS USE OF FIELD) ICB269
30	(1E)	BITSTRING	1	PDS2FTB1	BYTE 1 OF PDS2FTBO ICB269
		1... ..		PDSAOSLE	"BIT0" MODULE HAS BEEN PROCESSED BY AOS LINKAGE EDITOR ICB410

BIT1 IS RESERVED TO INDICATE ANOTHER EXPANSION WHEN IT BECOMES NECESSARY ICB410

		..1.		PDS2PAGA	"BIT2" PAGE ALIGNMENT REQUIRED FOR LOAD MODULE ICB410
		...1		PDS2SSI	"BIT3" SSI INFORMATION PRESENT ICB410
		.... 1...		PDSAPFLG	"BIT4" INFORMATION IN PDSAPF IS VALID ICB360
31	(1F)	BITSTRING	1	PDS2FTB2	BYTE 2 OF PDS2FTBO ICB269
		...1		PDSLRCMOD	"BIT3" LOAD MODULE RESIDENCE MODE
		.... 11..		PDSAAMOD	"BIT4+BIT5" ALIAS ENTRY POINT ADDRESSING MODE
		.... ..11		PDSMAMOD	"BIT6+BIT7" MAIN ENTRY POINT ADDRESSING MODE
32	(20)	BITSTRING	1	PDS2RLDS (0)	NUMBER OF RLD/CONTROL RECORDS WHICH &L6A FOLLOW THE FIRST BLOCK OF TEXT &L6A
32	(20)	BITSTRING	1	PDS2FTB3	NOW USED BY LINKAGE EDITOR &L6C
		..1. ...1		PDSBCEND	"*" END OF BASIC SECTION
		..1. ...1		PDSBCLN	"PDSBCEND-PDS2" LENGTH OF BASIC SECTION

THE FOLLOWING SECTION IS FOR LOAD MODULES WITH SCATTER LOAD

		..1. ...1		PDSS01	"*" START OF SCATTER LOAD SECTION
33	(21)	SIGNED	2	PDS2SLSZ	NUMBER OF BYTES IN SCATTER LIST
35	(23)	SIGNED	2	PDS2TTSZ	NUMBER OF BYTES IN TRANSLATION TABLE
37	(25)	CHARACTER	2	PDS2ESDT	IDENTIFICATION OF ESD ITEM (ESDID) OF CONTROL SECTION TO WHICH FIRST BLOCK OF TEXT BELONGS
39	(27)	CHARACTER	2	PDS2ESDC	IDENTIFICATION OF ESD ITEM (ESDID) OF CONTROL SECTION CONTAINING ENTRY POINT
		..1. 1..1		PDSS01ND	"*" END OF SCATTER LOAD SECTION
		.... 1...		PDSS01LN	"PDSS01ND-PDSS01" LENGTH OF SCATTER LOAD SECTION

THE FOLLOWING SECTION IS FOR LOAD MODULES WITH ALIAS NAMES

		..1. 1..1		PDSS02	"*" START OF ALIAS SECTION
41	(29)	ADDRESS	3	PDS2EPM	ENTRY POINT FOR MEMBER NAME
		..1. 1..1		DEENTBK	"PDS2EPM" ALIAS
44	(2C)	CHARACTER	8	PDS2MNM	MEMBER NAME OF LOAD MODULE. WHEN THE FIRST FIELD (PDS2NAME) IS AN ALIAS NAME, THIS FIELD CONTAINS THE ORIGINAL NAME OF THE MEMBER EVEN AFTER THE MEMBER HAS BEEN RENAMED. (MDC302)

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
		..11	.1..	PDSS02ND	"*" END OF ALIAS SECTION
		1.11	PDSS02LN	"PDSS02ND-PDSS02" LENGTH OF ALIAS SECTION

THE FOLLOWING SECTION IS FOR SSI INFORMATION AND IS ON
 A HALF-WORD BOUNDARY

52	(34)	SIGNED	2	PDSS03 (0)	FORCE HALF WORD ALIGNMENT FOR SSI SECTION
52	(34)	CHARACTER	4	PDSSSIWD (0)	SSI INFORMATION WORD
52	(34)	SIGNED	1	PDSCHLVL	CHANGE LEVEL OF MEMBER
53	(35)	BITSTRING	1	PDSSSIFB	SSI FLAG BYTE
		.1..	....	PDSFORCE	"BIT1" A FORCE CONTROL CARD WAS USED WHEN EXECUTING THE IHGUAP PROGRAM
		..1.	....	PDSUSRCH	"BIT2" A CHANGE WAS MADE TO MEMBER BY THE INSTALLATION, AS OPPOSED TO AN IBM DISTRIBUTED CHANGE
		...1	....	PDSEMFIX	"BIT3" SET WHEN AN EMERGENCY IBM AUTHORIZED PROGRAM 'FIX' IS MADE, AS OPPOSED TO CHANGES THAT ARE INCLUDED IN AN IBM DISTRIBUTED MAINTENANCE PACKAGE
		....	1...	PDSDEPCH	"BIT4" A CHANGE MADE TO THE MEMBER IS DEPENDENT UPON A CHANGE MADE TO SOME OTHER MEMBER IN THE SYSTEM
		....	.11.	PDSSYSGN	"BIT5+BIT6" FLAGS THAT INDICATE WHETHER OR NOT A CHANGE TO THE MEMBER WILL NECESSITATE A PARTIAL OR COMPLETE REGENERATION OF THE SYSTEM
		....	....	PDSNOSGN	"X'00'" NOT CRITICAL FOR SYSTEM GENERATION
		....	..1.	PDSCMSGN	"BIT6" MAY REQUIRE COMPLETE REGENERATION
		....	.1..	PDSPTSGN	"BIT5" MAY REQUIRE PARTIAL REGENERATION
		....	...1	PDSIBMMB	"BIT7" MEMBER IS SUPPLIED BY IBM
54	(36)	CHARACTER	2	PDSMBRSN	MEMBER SERIAL NUMBER
		..11	1...	PDSS03ND	"*" END OF SSI SECTION
		....	.1..	PDSS03LN	"PDSS03ND-PDSS03" LENGTH OF SSI SECTION

THE FOLLOWING SECTION IS FOR APF INFORMATION ICB360

		..11	1...	PDSS04	"*" START OF APF SECTION ICB360
56	(38)	CHARACTER	2	PDSAPF (0)	PROGRAM AUTHORIZATION FACILITY (APF) FIELD ICB360
56	(38)	SIGNED	1	PDSAPFCT	LENGTH OF PROGRAM AUTHORIZATION CODE (PDSAPFAC) IN BYTES ICB360
57	(39)	CHARACTER	1	PDSAPFAC	PROGRAM AUTHORIZATION CODE ICB360
		..11	1.1.	PDSS04ND	"*" END OF APF SECTION ICB360
		....	..1.	PDSS04LN	"PDSS04ND-PDSS04" LENGTH OF APF SECTION ICB360

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
DEALIAS	B	80	PDSS01LN	27	8	PDS2LEF	15	2
DEENTBK	29	29	PDSS01ND	27	29	PDS2LOAD	14	8
DELODY	14	8	PDSS02	27	29	PDS2LUSR	B	1F
DEOVLY	14	20	PDSS02LN	2C	B	PDS2MNM	2C	
DEREEN	14	80	PDSS02ND	2C	34	PDS2NAME	0	
DESCAT	14	4	PDSS03	34		PDS2NL	13	
DEXCUT	14	2	PDSS03LN	36	4	PDS2NREP	15	8
PDSAAMOD	1F	C	PDSS03ND	36	38	PDS2NRD	15	10
PDSAOSLE	1E	80	PDSS04	36	38	PDS2NTTR	B	60
PDSAPF	38		PDSS04LN	39	2	PDS2ORGO	15	40
PDSAPFAC	39		PDSS04ND	39	3A	PDS2OVLY	14	20
PDSAPFCT	38		PDSUSRCH	35	20	PDS2PAGA	1E	20
PDSAPFLG	1E	8	PDS2ALIS	B	80	PDS2REFR	15	1
PDSBCEND	20	21	PDS2ATR	14		PDS2RENT	14	80
PDSBCLN	20	21	PDS2ATR1	14		PDS2REUS	14	40
PDSCHLVL	34		PDS2ATR2	15		PDS2RLDS	20	
PDSCMSGN	35	2	PDS2EPA	1B		PDS2SCTR	14	4
PDSDEPCH	35	8	PDS2EPM	29		PDS2SLSZ	21	
PDSEMFIX	35	10	PDS2EPO	15	20	PDS2SSI	1E	10
PDSFORCE	35	40	PDS2ESDC	27		PDS2STOR	16	
PDSIBMMB	35	1	PDS2ESDT	25		PDS2TEST	14	10
PDSLRMOD	1F	10	PDS2EXEC	14	2	PDS2TSTN	15	4
PDSMAMOD	1F	3	PDS2FLVL	15	80	PDS2TTRN	10	
PDSMBSRN	36		PDS2FTBL	19		PDS2TTRP	8	
PDSNOSGN	35	0	PDS2FTBO	1E		PDS2TTRT	C	
PDSPTSGN	35	4	PDS2FTB1	1E		PDS2TTSZ	23	
PDSSIFB	35		PDS2FTB2	1F		PDS2USRD	C	
PDSSIND	34		PDS2FTB3	20		PDS2ZERO	F	
PDSSYSGN	35	6	PDS2INDC	B		PDS2IBLK	14	1
PDSS01	20	21						

PDS2

COMMON NAME: Partitioned Data Set Directory Entry
 MACRO ID: IHAPDS
 DSECT NAME: PDS2
 CREATED BY: BLDL
 SUBPOOL AND KEY: User defined
 SIZE: User defined (12-60 bytes)
 POINTED TO BY: N/A
 SERIALIZATION: None
 FUNCTION: Describes a member of a Partitioned Data Set (PDS). Contains the name or alias name, the relative address of the first record, concatenation number, the originating library, length of the user data, and variable length user data. This macro is for a load module's user data only. The first 14 bytes can be used to map any type of PDS directory entry. All sections after the first are optional, and the section which maps SSI data (PDSS03) is halfword aligned. An extra byte may be added to the end to make the total length an even number of bytes.

OFFSETS						
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION	
0	(0)	CHARACTER	8	PDS2NAME	LOAD MODULE MEMBER NAME OR ALIAS	
8	(8)	CHARACTER	3	PDS2TTRP	TTR OF FIRST BLOCK OF NAMED MEMBER	
11	(B)	SIGNED	1	PDS2CNCT	CONCATENATION NUMBER OF THE DATA SET	
12	(C)	CHARACTER	1	PDS2LIBF	LIBRARY FLAG FIELD	
		....	....	PDS2LNRM	"X'00'" NORMAL CASE	
		....	...1	PDS2LLNK	"X'01'" IF DCB OPERAND IN BLDL MACRO INTRUCTION WAS SPECIFIED AS ZERO, NAME WAS FOUND IN LINK LIBRARY	
		....	..1.	PDS2LJOB	"X'02'" IF DCB OPERAND IN BLDL MACRO INTRUCTION WAS SPECIFIED AS ZERO, NAME WAS FOUND IN JOB LIBRARY	
		....	11..	DEZBYTE	"PDS2LIBF" ALIAS	
13	(D)	BITSTRING	1	PDS2INDC	INDICATOR BYTE	
		1...	....	PDS2ALIS	"BIT0" NAME IN THE FIRST FIELD IS AN ALIAS	
		1...	....	DEALIAS	"BIT0" ALIAS FOR PDS2ALIS	
		.11.	....	PDS2NTTR	"BIT1+BIT2" NUMBER OF TTR'S IN THE USER DATA FIELD	
		...1	1111	PDS2LUSR	"BIT3+BIT4+BIT5+BIT6+BIT7" LENGTH OF USER DATA FIELD IN HALF WORDS	
14	(E)	CHARACTER	1	PDS2USRD (0)	START OF VARIABLE LENGTH USER DATA FIELD	
14	(E)	CHARACTER	3	PDS2TTRT	TTR OF FIRST BLOCK OF TEXT	
17	(11)	CHARACTER	1	PDS2ZERO	ZERO	
18	(12)	CHARACTER	3	PDS2TTRN	TTR OF NOTE LIST OR SCATTER/TRANSLATION TABLE. USED FOR MODULES IN SCATTER LOAD FORMAT OR OVERLAY STRUCTURE ONLY.	
21	(15)	SIGNED	1	PDS2NL	NUMBER OF ENTRIES IN NOTE LIST FOR MODULES IN OVERLAY STRUCTURE	
22	(16)	BITSTRING	2	PDS2ATR (0)	TWO BYTE MODULE ATTRIBUTE FIELD	
22	(16)	BITSTRING	1	PDS2ATR1	FIRST BYTE OF MODULE ATTRIBUTE FIELD	
		1...	....	PDS2RENT	"BIT0" REENTERABLE	
		1...	....	DEREEN	"BIT0" ALIAS FOR PDS2RENT	
		.1.	....	PDS2REUS	"BIT1" REUSABLE	
		..1.	....	PDS2OVLY	"BIT2" IN OVERLAY STRUCTURE	
		..1.	....	DEOVLY	"BIT2" ALIAS FOR PDS2OVLY	
		...1	....	PDS2TEST	"BIT3" MODULE TO BE TESTED TESTRAN	
		....	1...	PDS2LOAD	"BIT4" ONLY LOADABLE	
		....	1...	DELODY	"BIT4" ALIAS FOR PDS2LOAD	
		....	.1..	PDS2SCTR	"BIT5" SCATTER FORMAT	
		....	.1..	DESCAT	"BIT5" ALIAS FOR PDS2SCTR	
		....	..1.	PDS2EXEC	"BIT6" EXECUTABLE	
		....	..1.	DEXCUT	"BIT6" ALIAS FOR PDS2EXEC	
		....	...1	PDS2IBLK	"BIT7" IF ZERO, MODULE CONTAINS MULTIPLE RECORDS WITH AT LEAST ONE BLOCK OF TEXT. IF ONE, MODULE CONTAINS NO RLD ITEMS AND ONLY ONE BLOCK OF TEXT.	
23	(17)	BITSTRING	1	PDS2ATR2	SECOND BYTE OF MODULE ATTRIBUTE FIELD	

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
		1...		PDS2FLVL	"BIT0" IF ZERO, MODULE CAN BE PROCESSED BY ALL LEVELS OF LINKAGE EDITOR. IF ONE, MODULE CAN BE PROCESSED ONLY BY F LEVEL OF LINKAGE EDITOR.
		.1..		PDS2ORGO	"BIT1" LINKAGE EDITOR ASSIGNED ORIGIN OF FIRST BLOCK OF TEXT IS ZERO.
		..1.		PDS2EPO	"BIT2" ENTRY POINT ASSIGNED BY LINKAGE EDITOR IS ZERO
		...1		PDS2NRLD	"BIT3" MODULE CONTAINS NO RLD ITEMS
		.... 1...		PDS2NREP	"BIT4" MODULE CANNOT BE REPROCESSED BY LINKAGE EDITOR
		.... .1..		PDS2TSTN	"BIT5" MODULE CONTAINS TESTRAN SYMBOL CARDS
		.... ..1.		PDS2LEF	"BIT6" MODULE CREATED BY LINKAGE EDITOR F
		.... ...1		PDS2REFR	"BIT7" REFRESHABLE MODULE
24	(18)	SIGNED	3	PDS2STOR	TOTAL CONTIGUOUS MAIN STORAGE REQUIREMENT OF MODULE
27	(1B)	SIGNED	2	PDS2FTBL	LENGTH OF FIRST BLOCK OF TEXT
29	(1D)	ADDRESS	3	PDS2EPA	ENTRY POINT ADDRESS ASSOCIATED WITH MEMBER NAME OR WITH ALIAS NAME IF ALIAS INDICATOR IS ONE
32	(20)	ADDRESS	3 (0)		LINKAGE EDITOR ASSIGNED ORIGIN OF FIRST BLOCK OF TEXT (OS USE OF FIELD)
32	(20)	BITSTRING	3	PDS2FTBO (0)	FLAG BYTES (AOS USE OF FIELD) ICB269
32	(20)	BITSTRING	1	PDS2FTB1	BYTE 1 OF PDS2FTBO ICB269
		1...		PDSAOSLE	"BIT0" MODULE HAS BEEN PROCESSED BY AOS LINKAGE EDITOR ICB410

BIT1 IS RESERVED TO INDICATE ANOTHER EXPANSION WHEN IT BECOMES NECESSARY ICB410

		..1.		PDS2PAGA	"BIT2" PAGE ALIGNMENT REQUIRED FOR LOAD MODULE ICB410
		...1		PDS2SSI	"BIT3" SSI INFORMATION PRESENT ICB410
		.... 1...		PDSAPFLG	"BIT4" INFORMATION IN PDSAPP IS VALID ICB360
33	(21)	BITSTRING	1	PDS2FTB2	BYTE 2 OF PDS2FTBO ICB269
		...1		PDSLRMOD	"BIT3" LOAD MODULE RESIDENCE MODE
		.... 11..		PDSAAAMOD	"BIT4+BIT5" ALIAS ENTRY POINT ADDRESSING MODE
		.... ..11		PDSMAMOD	"BIT6+BIT7" MAIN ENTRY POINT ADDRESSING MODE
34	(22)	BITSTRING	1	PDS2RLDS (0)	NUMBER OF RLD/CONTROL RECORDS WHICH &L6A FOLLOW THE FIRST BLOCK OF TEXT &L6A
34	(22)	BITSTRING	1	PDS2FTB3	NOW USED BY LINKAGE EDITOR &L6C
		..1. ..11		PDSBCEND	"*" END OF BASIC SECTION
		..1. ..11		PDSBCLN	"PDSBCEND-PDS2" LENGTH OF BASIC SECTION

THE FOLLOWING SECTION IS FOR LOAD MODULES WITH SCATTER LOAD

		..1. ..11		PDSS01	"*" START OF SCATTER LOAD SECTION
35	(23)	SIGNED	2	PDS2SLSZ	NUMBER OF BYTES IN SCATTER LIST
37	(25)	SIGNED	2	PDS2TTSZ	NUMBER OF BYTES IN TRANSLATION TABLE
39	(27)	CHARACTER	2	PDS2ESDT	IDENTIFICATION OF ESD ITEM (ESDID) OF CONTROL SECTION TO WHICH FIRST BLOCK OF TEXT BELONGS
41	(29)	CHARACTER	2	PDS2ESDC	IDENTIFICATION OF ESD ITEM (ESDID) OF CONTROL SECTION CONTAINING ENTRY POINT
		..1. 1.11		PDSS01ND	"*" END OF SCATTER LOAD SECTION
		.... 1...		PDSS01LN	"PDSS01ND-PDSS01" LENGTH OF SCATTER LOAD SECTION

OFFSETS
 DEC HEX TYPE LENGTH NAME DESCRIPTION

THE FOLLOWING SECTION IS FOR LOAD MODULES WITH ALIAS NAMES

		..1.	1.11		PDSS02	"*" START OF ALIAS SECTION
43	(2B)	ADDRESS	3		PDS2EPM	ENTRY POINT FOR MEMBER NAME
		..1.	1.11		DEENTBK	"PDS2EPM" ALIAS
46	(2E)	CHARACTER	8		PDS2MNM	MEMBER NAME OF LOAD MODULE. WHEN THE FIRST FIELD (PDS2NAME) IS AN ALIAS NAME, THIS FIELD CONTAINS THE ORIGINAL NAME OF THE MEMBER EVEN AFTER THE MEMBER HAS BEEN RENAMED. (MCC302)
		..11	.11.		PDSS02ND	"*" END OF ALIAS SECTION
		....	1.11		PDSS02LN	"PDSS02ND-PDSS02" LENGTH OF ALIAS SECTION

THE FOLLOWING SECTION IS FOR SSI INFORMATION AND IS ON A HALF-WORD BOUNDARY

54	(36)	SIGNED	2		PDSS03 (0)	FORCE HALF WORD ALIGNMENT FOR SSI SECTION
54	(36)	CHARACTER	4		PDSSSIWD (0)	SSI INFORMATION WORD
54	(36)	SIGNED	1		PDSCHLVL	CHANGE LEVEL OF MEMBER
55	(37)	BITSTRING	1		PDSSSIFB	SSI FLAG BYTE
		..1..	....		PDSFORCE	"BIT1" A FORCE CONTROL CARD WAS USED WHEN EXECUTING THE IHGUAP PROGRAM
		..1.	....		PDSUSRCH	"BIT2" A CHANGE WAS MADE TO MEMBER BY THE INSTALLATION, AS OPPOSED TO AN IBM DISTRIBUTED CHANGE
		...1	....		PDSEMFIX	"BIT3" SET WHEN AN EMERGENCY IBM AUTHORIZED PROGRAM 'FIX' IS MADE, AS OPPOSED TO CHANGES THAT ARE INCLUDED IN AN IBM DISTRIBUTED MAINTENANCE PACKAGE
		....	1...		PDSDEPCH	"BIT4" A CHANGE MADE TO THE MEMBER IS DEPENDENT UPON A CHANGE MADE TO SOME OTHER MEMBER IN THE SYSTEM
		....	.11.		PDSSYSGN	"BITS+BIT6" FLAGS THAT INDICATE WHETHER OR NOT A CHANGE TO THE MEMBER WILL NECESSITATE A PARTIAL OR COMPLETE REGENERATION OF THE SYSTEM
		....	....		PDSNOSGN	"X'00'" NOT CRITICAL FOR SYSTEM GENERATION
		....	..1.		PDSCMSGN	"BIT6" MAY REQUIRE COMPLETE REGENERATION
		....	.1..		PDSPTSGN	"BITS" MAY REQUIRE PARTIAL REGENERATION
		....	...1		PDSIBMMB	"BIT7" MEMBER IS SUPPLIED BY IBM
56	(38)	CHARACTER	2		PDSMBRSN	MEMBER SERIAL NUMBER
		..11	1.1.		PDSS03ND	"*" END OF SSI SECTION
		....	.1..		PDSS03LN	"PDSS03ND-PDSS03" LENGTH OF SSI SECTION

THE FOLLOWING SECTION IS FOR APF INFORMATION ICB360

		..11	1.1.		PDSS04	"*" START OF APF SECTION ICB360
58	(3A)	CHARACTER	2		PDSAPF (0)	PROGRAM AUTHORIZATION FACILITY (APF) FIELD ICB360
58	(3A)	SIGNED	1		PDSAPFCT	LENGTH OF PROGRAM AUTHORIZATION CODE (PDSAPFAC) IN BYTES ICB360
59	(3B)	CHARACTER	1		PDSAPFAC	PROGRAM AUTHORIZATION CODE ICB360
		..11	11..		PDSS04ND	"*" END OF APF SECTION ICB360
		....	..1.		PDSS04LN	"PDSS04ND-PDSS04" LENGTH OF APF SECTION ICB360

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
DEALIAS	D	80	PDSS01ND	29	2B	PDS2LJOB	C	2
DEENTBK	2B	2B	PDSS02	29	2B	PDS2LLNK	C	1
DELODY	16	8	PDSS02LN	2E	B	PDS2LNRM	C	0
DEOVLY	16	20	PDSS02ND	2E	36	PDS2LOAD	16	8
DEREEN	16	80	PDSS03	3E		PDS2LUSR	D	1F
DESCAT	16	4	PDSS03LN	38	4	PDS2MNM	2E	
DEXCUT	16	2	PDSS03ND	38	3A	PDS2NAME	0	
DEZBYTE	C	C	PDSS04	38	3A	PDS2NL	15	
PDSAAMOD	21	C	PDSS04LN	3B	2	PDS2NREP	17	8
PDSAOSLE	20	80	PDSS04ND	3B	3C	PDS2NRLD	17	10
PDSAPF	3A		PDSUSRCH	37	20	PDS2NTTR	D	60
PDSAPFAC	3B		PDS2ALIS	D	80	PDS2ORGO	17	40
PDSAPFCT	3A		PDS2ATR	16		PDS2OVLY	16	20
PDSAPFLG	20	8	PDS2ATR1	16		PDS2PAGA	20	20
PDSBCEND	22	23	PDS2ATR2	17		PDS2REFR	17	1
PDSBCLN	22	23	PDS2CNCT	B		PDS2RENT	16	80
PDSCHLVL	36		PDS2EPA	1D		PDS2REUS	16	40
PDSCMSGN	37	2	PDS2EPM	2B		PDS2RLDS	22	
PDSDEPCH	37	8	PDS2EPO	17	20	PDS2SCTR	16	4
PDSEMFIX	37	10	PDS2ESDC	29		PDS2SLSZ	23	
PDSFORCE	37	40	PDS2ESDT	27		PDS2SSI	20	10
PDSIBMB	37	1	PDS2EXEC	16	2	PDS2STOR	18	
PDSLROMD	21	10	PDS2FLVL	17	80	PDS2TEST	16	10
PDSMAMOD	21	3	PDS2FTBL	1B		PDS2TSTN	17	4
PDSMBRSN	38		PDS2FTBO	20		PDS2TTRN	12	
PDSNOSGN	37	0	PDS2FTB1	20		PDS2TTRP	8	
PDSPTSGN	37	4	PDS2FTB2	21		PDS2TTRT	E	
PDSSSIFB	37		PDS2FTB3	22		PDS2TTSZ	25	
PDSSSIWD	36		PDS2INDC	D		PDS2USRD	E	
PDSSYSGN	37	6	PDS2LEF	17	2	PDS2ZERO	11	
PDSS01	22	23	PDS2LIBF	C		PDS21BLK	16	1
PDSS01LN	29	8						

PEL

COMMON NAME: Parameter Element List
 MACRO ID: ISGPEL
 DSECT NAME: PEL
 CREATED BY: ENQ/DEQ/RESERVE macro expansion
 SUBPOOL AND KEY: Any valid subpool in the private or common area; user's key.
 SIZE: Variable length (52 + length of RNAME)
 POINTED TO BY: The pointer is maintained by the user of the macro.
 SERIALIZATION: None
 FUNCTION: Contains the necessary information to process an ENQ/DEQ/RESERVE macro.

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
0	(0)	STRUCTURE	52	PEL	PARAMETER ELEMENT LIST
0	(0)	CHARACTER	8	PELPREFX	PARAMETER ELEMENT PREFIX
0	(0)	ADDRESS	4	PELTCB	IF BOTH TCB AND ECB ARE CODED, CONTAINS THE TCB ADDRESS
4	(4)	ADDRESS	4	PELDUAL	PEL PREFIX WORK (TCB ADDRESS OR ECB ADDRESS)
8	(8)	CHARACTER	12	PELBASIC	PARAMETER ELEMENT BASIC SECTION
8	(8)	BITSTRING	1	PELLAST	FLAG BYTE 1
		1...		PELEOL	LAST ELEMENT OF LIST
		.1..		PELIGNOR	IGNORE REMAINING BITS OF THIS BYTE
		..1.		PELRES1	RESERVED
		...1		PELSHR	SHARED RESOURCE REQUEST
		.... 1...		PELSAVE	NEW FORMAT PEL PREFIX PRECEDES FIRST PEL OF LIST. MUST BE ZERO FOR A DEQ.
		.... .1..		PELGEN1	SEE COMMENTS BELOW
		.... .1.		PELGEN2	SEE COMMENTS BELOW
		.... ...1		PELTCBF	TCB= WAS SPECIFIED. PELTCBF IS IGNORED IN THE USER PEL IF PELSVAE IS ON. THE TCB= OPERAND IS CONSIDERED TO BE PRESENT IF THE TCB FIELD OF THE NEW FORMAT PEL PREFIX IS NON ZERO.

PELGEN1 AND PELGEN2
 00- NO GENERIC
 01- GENERIC=YES
 10- GENERIC=COND (VS1 ONLY)
 11- GENERIC=ALL (VS1 ONLY)

9	(9)	UNSIGNED	1	PELMIEN	RNAME LENGTH
10	(A)	BITSTRING	1	PELFLAG	FLAG BYTE 2
		1...		PELSHARE	0=EXCLUSIVE, 1=SHARE
		.1..		PELSCPE1	SEE COMMENTS BELOW
		..1.		PELSYMC	OBSOLETE (SET/RESET SYSTEM MUST COMPLETE)
		...1		PELSTPMC	SET/RESET STEP MUST COMPLETE SPECIFIED
		.... 1...		PELSCPE2	SEE COMMENTS BELOW
		.... .1..		PELRET1	SEE COMMENTS BELOW
		.... .1.		PELRET2	SEE COMMENTS BELOW
		.... ...1		PELRET3	SEE COMMENTS BELOW

PELRET1, PELRET2 AND PELRET3
 000- RET=NONE (NO RETURN CODE)
 001- RET=HAVE
 010- RET=CHNG
 011- RET=USE
 100- ECB=
 101- RESERVED
 110- RESERVED
 111- RET=TEST
 PELSCPE1 AND PELSCPE2
 00- STEP
 01- SYSTEMS AND UCB
 10- SYSTEM
 11- SYSTEMS

11	(B)	UNSIGNED	1	PELRET	RETURN CODE AREA IN USER S PEL
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OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
12	(C)	ADDRESS	4	PELMAJA	ADDRESS OF QNAME NOT USED WHEN QNAME HAS BEEN MOVED TO THE PELX
16	(10)	ADDRESS	4	PELMINA	ADDRESS OF RNAME NOT USED WHEN RNAME HAS BEEN MOVED TO THE PELX
20	(14)	ADDRESS	4	PELUCBAA	ADDRESS OF POINTER TO UCB. THIS FIELD ONLY EXISTS FOR RESERVE REQUESTS. WHEN MAPPED TO A QWBPEL, THIS FIELD IS NOT USED. THE UCB ADDRESS, HOWEVER, IS FOUND IN THE PELX. EXTENSION. NOTE THAT THIS SECTION IS VARIABLE IN SIZE. THE SIZE REPRESENTED ON THE STATEMENT IS THE SMALLEST SIZE OF THE PELX. THE LENGTH OF THE RNAME MUST BE ADDED TO THIS LENGTH TO COMPUTE THE LENGTH OF THE PELX ENTRY.
24	(18)	CHARACTER	28	PELX	
24	(18)	UNSIGNED	1	PELXRET	RETURN CODE AREA IN QWB
25	(19)	BITSTRING	1	PELXFLG1	PEL EXTENSION FLAGS
		1... ..		PELXSIEX	SYSTEM SCOPE INCLUDED IN GLOBAL SHARING
		.1.. ..		PELXRCEX	RESERVE CONVERTED TO GLOBAL ENQ
		..1. ..		PELXSEEX	SYSTEMS SCOPE EXCLUDED FROM GLOBAL SHARING
		...1 ..		PELXGLBL	WHEN 1, INDICATES GLOBAL RESOURCE WHEN 0, INDICATES LOCAL RESOURCE
		.... 1..		PELXLAST	LAST ENTRY IN QWBPEL
		.... .1..		PELXRESV	RESERVE REQUEST
		.... ..1.		PELXERR	THIS ENTRY IN ERROR
		.... ...1		PELXREQF	1 => ASCBCREQ HAS BEEN INCREASED FOR THIS REQUEST, BUT NO QEL HAS BEEN INSERTED. IF A FAILURE OCCURS, ISGGFRRO MUST REDUCE THE COUNT BY 1. 0 => NO ADJUSTMENT OF ASCBCREQ IS REQUIRED FOR THIS REQUEST.
26	(1A)	BITSTRING	1	PELXFLAG	COPY OF PELFLAG (ONLY FOR GLOBAL REQUESTS)
27	(1B)	BITSTRING	1	PELXFLG2	FLAG BYTE
		1... ..		PELXERSV	EARLY RESERVE FLAG. RESOURCE NAME MATCHES THE NAME USED IN AN EARLY GLOBAL RESERVE THAT WAS CONVERTED TO A LOCAL RESERVE.
		.1.. ..		PELXRS27	RESERVED.
		..1. ..		PELXRS26	RESERVED.
		...1 ..		PELXRS25	RESERVED.
		.... 1..		PELXRS24	RESERVED.
		.... .1..		PELXRS23	RESERVED.
		.... ..1.		PELXRS22	RESERVED.
		.... ...1		PELXRS21	RESERVED.
28	(1C)	SIGNED	4	PELXPELE	IDENTIFIES THE REQUESTOR S PEL ENTRY IN WHICH THE RETURN CODE SHOULD BE STORED.
32	(20)	SIGNED	2	PELXSIZE	SIZE OF THIS PEL ENTRY
34	(22)	SIGNED	2	PELXRNMW	RNAME SIZE ROUNDED TO WORD BOUNDARY
36	(24)	ADDRESS	4	PELXUCBA	ADDRESS OF UCB
40	(28)	ADDRESS	4	PELXQCBE	ADDRESS OF SMPL QCB ENTRY CONTAINING THE QCB FOR THIS RESOURCE. THIS FIELD IS ONLY VALID ON ENQ/RESERVE REQUESTS
44	(2C)	CHARACTER	8	PELXQNAME	QNAME OF THE RESOURCE
52	(34)	CHARACTER		PELEND	END OF PEL (FIXED LEN SECTION
52	(34)	CHARACTER	*	PELXRNME	RNAME OF THE RESOURCE (VARIABLE LENGTH) NOTE RNAME IS PADDED TO WORD BOUNDARY WITH ZEROS

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
PEL	0		PELSAVE	8	08	PELXQCB	28	
PELBASIC	8		PELSCPE1	A	40	PELXQNM	2C	
PELDUAL	4		PELSCPE2	A	08	PELXRCEX	19	40
PELEND	34		PELSHARE	A	80	PELXREQF	19	01
PELEOL	8	80	PELSHR	8	10	PELXRESV	19	04
PELFLAG	A		PELSTPMC	A	10	PELXRET	18	
PELGEN1	8	04	PELSYSMC	A	20	PELXRNM	34	
PELGEN2	8	02	PELTCB	0		PELXRMM	22	
PELIGNOR	8	40	PELTCBF	8	01	PELXRS21	1B	01
PELLAST	8		PELUCBAA	14		PELXRS22	1B	02
PELMAJA	C		PELX	18		PELXRS23	1B	04
PELMILEN	9		PELXERR	19	02	PELXRS24	1B	08
PELMINA	10		PELXERSV	1B	80	PELXRS25	1B	10
PELPREFX	0		PELXFLAG	1A		PELXRS26	1B	20
PELRES1	8	20	PELXFLG1	19		PELXRS27	1B	40
PELRET	B		PELXFLG2	1B		PELXSEEX	19	20
PELRET1	A	04	PELXGLBL	19	10	PELXSIEX	19	80
PELRET2	A	02	PELXLAST	19	08	PELXSIZE	20	
PELRET3	A	01	PELXPELE	1C		PELXUCBA	24	

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PEXB

COMMON NAME: Pool Extent Block
 MACRO ID: ISGPEXB
 DSECT NAME: PEXB and PEXCELL
 CREATED BY: ISGNCBIM and ISGSALC
 SUBPOOL AND KEY: 229 for PEXB in the Resource Queue Area (RQA)
 127 for PEXB in the Extended Resource Queue Area (ERQA)
 Key 0
 SIZE: 4096 bytes
 POINTED TO BY: RPT - RPTFFPXB, RPTFLPXB or RPTFIAPQ; PEXB - PEXNPEXB or PEXPPPEXB
 SERIALIZATION: Local PEXBs are serialized by the CMS ENQ/DEQ Class Lock; Global PEXBs are serialized by the global resource serialization local lock; QWB PEXBs are serialized by the CMS ENQ/DEQ Class Lock.
 FUNCTION: A PEXB maps a 4K page in the Resource Queue Area (RQA) for QWB, MRB, CRB, TMKA or HMKA cell type; or 4K page in the ERQA for QCB, QEL, QXB or PQCB cell type. Each PEXB begins on a 4K boundary and consists of cells that are all of the same cell type.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	48	PEXB	POOL EXTENT BLOCK
0	(0)	CHARACTER	48	PEXHDR	POOL EXTENT BLOCK HEADER
0	(0)	CHARACTER	16	PEXCOMM	THIS STRUCTURE CORRESPONDS TO THE FIRST 16 BYTES OF AN RPT ENTRY
0	(0)	CHARACTER	4	PEXID	CONTROL BLOCK ACRONYM (PEXB)
4	(4)	ADDRESS	4	PEXNPEXB	ADDRESS OF THE NEXT POOL EXTENT BLOCK
8	(8)	ADDRESS	4	PEXPPPEXB	ADDRESS OF THE PREVIOUS POOL EXTENT BLOCK
12	(C)	SIGNED	2	PEXAVAIL	NUMBER OF CELLS AVAILABLE IN THIS POOL EXTENT BLOCK
14	(E)	SIGNED	2	PEXTOTAL	TOTAL NUMBER OF CELLS IN THIS POOL EXTENT BLOCK
16	(10)	CHARACTER	4	PEXTYPE	CONTROL BLOCK ACRONYM FOR THE CELLS CONTAINED IN THIS PEXB
20	(14)	BITSTRING	1	PEXFLAGS	PEXB RESIDENCY FLAGS
		1...		PEXSQA	SQA RESIDENCY FLAG 0 = PEXB RESIDES IN GRS ADDRESS SPACE 1 = PEXB RESIDES IN SQA
		.1..		PEXGLIND	RQA OR ERQA RESIDENCY FLAG 0 = PEXB RESIDES IN THE LOW END OF THE RQA OR ERQA AND CONTAINS LOCAL RESOURCE CONTROL BLOCKS. 1 = PEXB RESIDES IN THE HIGH END OF THE RQA OR ERQA AND CONTAINS GLOBAL RESOURCE CONTROL BLOCKS.
		..11 1111		*	RESERVED
21	(15)	CHARACTER	1	*	RESERVED
22	(16)	UNSIGNED	2	PEXINDEX	INDEX OF THE ASSOCIATED RPT ENTRY
24	(18)	ADDRESS	4	PEXRPTEP	ADDRESS OF THE ASSOCIATED RPT ENTRY
28	(1C)	CHARACTER	4	*	RESERVED
32	(20)	ADDRESS	4	PEXFRST	ADDRESS OF THE FIRST AVAILABLE CELL IN THIS PEXB
36	(24)	ADDRESS	4	PEXLAST	ADDRESS OF THE LAST AVAILABLE CELL IN THIS PEXB
40	(28)	CHARACTER	8	*	RESERVED
48	(30)	CHARACTER	*	PEXHEND	END OF PEXB HEADER SECTION
48	(30)	CHARACTER	*	PEXCELLS	CELL POOL FOR THIS PEXB
0	(0)	STRUCTURE	4	PEXCELL	POOL EXTENT BLOCK CELL
0	(0)	ADDRESS	4	PEXNCELL	ADDRESS OF NEXT CELL IN CHAIN
4	(4)	CHARACTER	*	*	REMAINDER OF CELL

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
PEXAVAIL	C		PEXGLIND	14	40	PEXNPEXB	4	
PEXB	0		PEXHDR	0		PEXPPEXB	8	
PEXCELL	0		PEXHEND	30		PEXRPTEP	18	
PEXCELLS	30		PEXID	0		PEXSQA	14	80
PEXCOMM	0		PEXINDEX	16		PEXTOTAL	E	
PEXFLAGS	14		PEXLAST	24		PEXTYPE	10	
PEXFRST	20		PEXNCELL	0				

PFK

COMMON NAME: Program function key table
 OWNING COMPONENT: DIDOCS (SC1C4)
 MACRO ID: IEEVC103
 CREATED BY: IEECB817
 SUBPOOL AND KEY: 230 and key 0 (Residence - above|below 16 megabytes)
 SIZE: PFK table header: 16 bytes
 PFK table: 3108 bytes
 POINTED TO BY: UCMPPFKT in the UCM pageable extension
 SERIALIZATION: Comm task local lock
 FUNCTION: Maps the PFK table to be used by operator consoles.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	16	PFKSTAB	PFK TABLE
0	(0)	CHARACTER	16	PFKHEADR	PFK TABLE HEADER
0	(0)	CHARACTER	4	PFKACRO	ACRONYM "PFKT"
4	(4)	UNSIGNED	1	PFKVERSN	VERSION LEVEL
5	(5)	UNSIGNED	1	*	RESERVED
6	(6)	SIGNED	2	PFKTBNUM	NUMBER OF PFK TABLE DEFINITIONS
8	(8)	SIGNED	4	PFKLEN	LENGTH OF PFK TABLE
12	(C)	CHARACTER	2	PFKMEMB	SUFFIX OF PARMLIB MEMBER
14	(E)	CHARACTER	2	*	RESERVED
16	(10)	CHARACTER	12	PFKENTRY (*)	
					PFK TABLE ENTRIES
16	(10)	CHARACTER	8	PFKTABNM	PFK TABLE NAME
24	(18)	ADDRESS	4	PFKTABPT	PTR TO PFK TABLE DEFINITION
0	(0)	STRUCTURE	3096	PFKTABLE	
0	(0)	CHARACTER	8	PFKTNAME	NAME OF PFK TABLE
8	(8)	UNSIGNED	4	PFKTLEN	LENGTH OF PFK DEFINITIONS
12	(C)	CHARACTER	8	PFKTWORK	WORK AREA FOR THE K N,PFK CMD PROCESSOR
20	(14)	CHARACTER	128	PFKTAB (24)	
20	(14)	UNSIGNED	1	PFKTKEY	PFK NUMBER
21	(15)	BITSTRING	1	PFKTFLGS	PFK FLAGS
		1...		PFKTDEF	PFK IS DEFINED
		.1..		PFKTPROC	PFK IS BEING PROCESSED
		..1.		PFKTCON	PFK IS CONVERSATIONAL
		...1		*	RESERVED
		.... 1...		PFKTMST	PFK IS A MASTER KEY. PFKTCMD CONTAINS A LIST OF KEYS
22	(16)	CHARACTER	126	PFKTCMD	PFK COMMAND OR KEYS
3092	(C14)	CHARACTER	1	PFKTEND	END OF PFK DEFINITION
3093	(C15)	CHARACTER	3	*	ADJUST TO DOUBLE WORD BNDY

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
PFKACRO	0		PFKTABNM	10		PFKTKEY	14	
PFKENTRY	10		PFKTABPT	18		PFKTLEN	8	
PFKHEADR	0		PFKTBNUM	6		PFKTMST	15	08
PFKLEN	8		PFKTCMD	16		PFKTNAME	0	
PFKMEMB	C		PFKTCON	15	20	PFKTPROC	15	40
PFKSTAB	0		PFKTDEF	15	80	PFKTWORK	C	
PFKTAB	14		PFKTEND	C14		PFKVERSN	4	
PFKTABLE	0		PFKTFLGS	15				

PFTE

COMMON NAME: Page Frame Table Entry
 MACRO ID: IARPFTE
 DSECT NAME: PFTE
 CREATED BY: NIP
 SUBPOOL AND KEY: Nucleus and Key 0 (Residence - above 16M line)
 SIZE: 32 bytes
 POINTED TO BY: RITFPFTE, RITLPFTE, RITPAFQF, RITPAFQL, RITNAFQF, RITNAFQL, RITPBFQF, RITPBFQL, RITNBFQF, RITNBFQL, RITDBFQF, RITDBFQL, RITSFQF, RITSFQL, RITRSFQF, RITRSFQL, RITFVR, RITLVR, RABPFQF, RABPFQL, RABFFQF, RABFFQL, RABDFQF, RABDFQL, PCBPTE, PFTFQPTR, PFTBQPTR, PFTPTR
 SERIALIZATION: RSMGL, VSMFIX, RSMAD, RSMXM and RSMST locks.
 FUNCTION: Describes the characteristics and status of a frame of real storage.

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
0	(0)	STRUCTURE	32	PFTE	
0	(0)	ADDRESS	4	PFTFQPTR	FORWARD PFTE QUEUE POINTER
4	(4)	ADDRESS	4	PFTBQPTR	BACKWARD PFTE QUEUE POINTER
8	(8)	CHARACTER	1	PFTQID	QUEUE ID FOR CURRENT QUEUE UNLESS THE PFTE IS ON AN AVAILABLE FRAME QUEUE 08=>TOP DOUBLE FRAME QUEUE 09=>BOTTOM DOUBLE FRAME QUEUE 21=>SQA FRAME QUEUE 22=>RESERVED SQA FRAME QUEUE 23=>REAL STG BUF FRAME QUEUE 24=>V=R WAITING FRAME QUEUE 81=>PAGEABLE FRAME QUEUE 82=>FIXED FRAME QUEUE 83=>DEFERRED FREEMAIN FR QUEUE F0=>UNQUEUED..DAT OFF NUCLEUS F1=>UNQUEUED..READ ONLY NUC. F2=>UNQUEUED..READ/WRITE NUC. F3=>UNQUEUED..IDA FRAME F4=>UNQUEUED..HW SYSTEM AREA F5=>UNQUEUED..ABS. ZERO FRAME F6=>UNQUEUED..FIXED LPA/BLDL FD=>A FLAWED PFTE FE=>UNQUEUED..UNINITIALIZED FF=>UNQUEUED PFTE
9	(9)	BITSTRING	1	PFTFLGS1	FLAG BYTE 1 (PHYSICAL FLAGS)
		1... ..		PFTPREF	PFTE IS FOR PREFERRED AREA
		.1.. ..		PFTBELOW	PFTE IS FOR REAL BELOW 16M
		..1.		PFTVR	PFTE IS A V=R CANDIDATE
		...1 1..		*	RESERVED
		.... .1..		PFTSRBSC	SRB HAS BEEN SCHEDULED TO DO FRAME DEALLOCATION.
		.... .1.		PFTNOUNC	NO UNCORRECTABLE ERRORS HAVE OCCURRED WITHIN THE FRAME. THIS BIT IS MEANINGFUL ONLY WHEN PFTBADFR=1.
10	(A)	BITSTRING	1	PFTBADFR	BAD FRAME DO NOT REALLOCATE
		.... ...1		PFTFLGS2	FLAG BYTE 2 (ALLOCATION FLAGS)
		1... ..		PFTONAFQ	PFTE IS ON AN AFQ
		.1.. ..		PFTPERM	FRAME IS BACKING PERMANENT STG
		..1.		PFTOFFLN	FRAME IS OFF LINE
		...1		PFTLSQA	FRAME IS BACKING SQA OR LSQA
		.... 1..		PFTVRWT	FRAME IS WAITING FOR V=R ALLOC.
		.... .1..		PFTVRALC	FRAME IS ALLOCATED TO V=R
		.... ..11		*	RESERVED
11	(B)	BITSTRING	1	PFTFLGS3	FLAG BYTE 3 (MISC. FLAGS)
		1... ..		PFTIOCR	I/O IS CURRENT FOR THIS FRAME
		.1.. ..		PFTVRPLT	THIS FRAME IS CURRENTLY POLLUTING THE V=R AREA
		..1.		PFTVIORU	THIS FRAME IS VIO REUSABLE
		...1		PFTVRINT	FRAME IS V=R INTERCEPTED
		.... 1..		PFTOFINT	FRAME IS OFFLINE INTERCEPTED
		.... .1..		PFTNOREC	INTERCEPTED FRAME SUMMARY BIT THIS FRAME HAS BEEN INTERCEPTED AND SHOULD NOT BE TAKEN UNLESS IT IS SENT TO AN AVAILABLE FRAME QUEUE. ALSO, THE PAGE ASSOCIATED WITH THE FRAME CANNOT BE REVALIDATED WITH A DIFFERENT FRAME IF A REQUEST FOR THE PAGE IS CURRENTLY ON THE DPQ.
		.... ..1.		PFTIOMC	I/O FOR THIS FRAME MUST COMPLETE INTACT. NEITHER THE FRAME NOR THE DATA MAY BE USED UNTIL THE I/O HAS COMPLETED.
		.... ...1		*	RESERVED INTERCEPTED
12	(C)	CHARACTER	1	PFTFREID	ID OF QUEUE TO WHICH THIS PFTE IS TO BE RETURNED WHEN FREED
		.... ...1			01=>PREFERRED ABOVE AFQ 02=>NON PREFERRED ABOVE AFQ 03=>PREFERRED BELOW AFQ 04=>NON PREFERRED BELOW AFQ 08=>TOP DOUBLE FRAME QUEUE 09=>BOTTOM DOUBLE FRAME QUEUE FF=>NON FREEABLE PFTE
13	(D)	UNSIGNED	1	PFTUIC	NUMBER OF UPDATE INTERVALS DURING WHICH FRAME WAS NOT REFERENCED

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
14	(E)	SIGNED	2	PFTFXCT	FIX COUNT FOR THIS FRAME
16	(10)	CHARACTER	2	*	RESERVED
18	(12)	BITSTRING	2	PFTASID	ASID OF CURRENT OR LAST OWNER
20	(14)	ADDRESS	4	PFTVSA	VIRTUAL ADDRESS CURRENTLY OR LAST BACKED BY THIS FRAME
20	(14)	UNSIGNED	4	PFTVIORA	VIO DATA SET PAGE REUSE ARGUMENT VALID IF PFTVIORU=1
24	(18)	ADDRESS	4	PFTPCB	ADDRESS OF PCB CURRENTLY BEING USED TO DO I/O FOR THIS FRAME (PFTIOCUR=1) OR PCB LAST USED TO DO THE I/O (PFTIOCUR=0)
28	(1C)	CHARACTER	4	*	RESERVED

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
PFTASID	12		PFTIOCUR	B	80	PFTQID	8	
PFTBADFR	9	01	PFTIOMC	B	02	PFTSRBSC	9	04
PFTBELOW	9	40	PFTLSQA	A	10	PFTUIC	D	
PFTBQPTR	4		PFTNOREC	B	04	PFTVIORA	14	
PFTE	0		PFTNOUNC	9	02	PFTVIORU	B	20
PFTFLGS1	9		PFTOFFLN	A	20	PFTVR	9	20
PFTFLGS2	A		PFTOFINT	B	08	PFTVRALC	A	04
PFTFLGS3	B		PFTONAFQ	A	80	PFTVRINT	B	10
PFTFQPTR	0		PFTPCB	18		PFTVRPLT	B	40
PFTFREID	C		PFTPERM	A	40	PFTVRWT	A	08
PFTFXCT	E		PFTPREF	9	80	PFTVSA	14	

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PGTE

COMMON NAME: Page Table Entry
 MACRO ID: IARPGTE
 DSECT NAME: PGTE
 CREATED BY: RSM
 SUBPOOL AND KEY: Subpool 245 or 255 and key 0 (Residence - above 16M line)
 SIZE: 4 bytes
 POINTED TO BY: PCBPGTE, PGTEPTR
 SERIALIZATION: RSMAD, RSMXM and RSMST locks.
 FUNCTION: Describes the validity and real storage backing of a virtual page.

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
0	(0)	STRUCTURE	4	PGTE	
0	(0)	CHARACTER	3	PGTPTRSA	REAL ADDRESS PLUS HARDWARE BITS
		1... ..		PGTHIGH	HARDWARE BIT MUST BE ZERO
0	(0)	BITSTRING	2	PGTPFRA	HIGH ORDER 19 BITS OF THE PAGE'S REAL ADDRESS
		.... 1...		PGTMID	HARDWARE BIT MUST BE ZERO
		.... .1..		PGTINV	PAGE IS INVALID
		.... .1.		PGTPROT	PAGE IS PAGE PROTECTED
		.... ...1		PGTLOW	HARDWARE BIT MUST BE ZERO
3	(3)	BITSTRING	1	PGTFLGS1	SOFTWARE FLAGS
		11..		*	RESERVED
		..1.		PGTPPGGT	PAGE IS FOR A PGT THAT MAY BE BE PAGED OUT
		...1		PGTANYWH	PAGE MAY BE FIXED ANYWHERE
		.... 1...		PGTCOM	PAGE IS A COMMON AREA PAGE
		.... .1..		PGTBELOW	PAGE SHOULD, IF POSSIBLE, BE BACKED WITH BELOW 16 MEG REAL
		.... .1.		PGTPREF	PAGE SHOULD, IF POSSIBLE, BE BACKED WITH PREFERRED REAL
		.... ...1		PGTGMA	PAGE IS GETMAIN ASSIGNED

CROSS-REFERENCE TABLE

<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>	<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>	<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>
PGTANYWH	3	10	PGTGMA	3	01	PGTPFRA	0	
PGTBELOW	3	04	PGTHIGH	0	80	PGTPGPGT	3	20
PGTCOM	3	08	PGTINV	2	04	PGTPREF	3	02
PGTE	0		PGTLOW	2	01	PGTPROT	2	02
PGTFLGSI	3		PGTMID	2	08	PGTPTRSA	0	

PICA

COMMON NAME: Program Interrupt Control Area
 MACRO ID: IHAPICA
 DSECT NAME: PICA
 CREATED BY: The PICA is created and initialized by the executable code provided by the expansion of the SPIE macro.
 SUBPOOL AND KEY: User subpool and key
 SIZE: 8 bytes
 POINTED TO BY: PIEPICA field of the PIE data area
 SERIALIZATION: LOCAL lock and task active mode
 FUNCTION: Contains: a) The program mask to be used in the PSM. b) The user SPIE exit routine address. c) The interruption mask which identifies the program check interruptions which the user SPIE exit routine will service.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	SIGNED	4	PICAEXIT (0)	
0	(0)	BITSTRING	1	PICAPRMK	PROGRAM MASK TO BE USED IN THE PSM BITS 0 3 ARE ZERO; BITS 4 7 CONTAIN MASK
1	(1)	ADDRESS	3	PICEXITA	ADDRESS OF THE USER'S PROGRAM INTERRUPTION EXIT RTN
4	(4)	SIGNED	4	PICAITMK (0)	MASK WHICH INDICATES ON WHICH PROGRAM INTERRUPTION TYPES THE EXIT RTN IS TO BE USED LENGTH IS 4 BYTES.
4	(4)	BITSTRING	1	PICITMK1	
		1... ..		PICAEXT	"X'80'" AN EXTENDED PICA IS IN EFFECT
		.1.. ..		PICACD1	"X'40'" OPERATION
		..1.		PICACD2	"X'20'" PRIVILEGED OPERATION
		...1		PICACD3	"X'10'" EXECUTE
		.... 1...		PICACD4	"X'08'" PROTECTION
		.... .1..		PICACD5	"X'04'" ADDRESSING
		.... ..1.		PICACD6	"X'02'" SPECIFICATION
		.... ...1		PICACD7	"X'01'" DATA INTRPT HANDLED
5	(5)	BITSTRING	1	PICITMK2	
		1... ..		PICACD8	"X'80'" FIXED POINT OVERFLOW
		.1.. ..		PICACD9	"X'40'" FIXED POINT DIVIDE
		..1.		PICACD10	"X'20'" DECIMAL OVERFLOW
		...1		PICACD11	"X'10'" DECIMAL DIVIDE
		.... 1...		PICACD12	"X'08'" EXPONENT OVERFLOW
		.... .1..		PICACD13	"X'04'" EXPONENT UNDERFLOW
		.... ..1.		PICACD14	"X'02'" SIGNIFICANCE
		.... ...1		PICACD15	"X'01'" FLOATING POINT DIVIDE
6	(6)	BITSTRING	1	PICITMK3	
		.1..		PICACD17	"X'40'" PAGE TRANSLATION
7	(7)	BITSTRING	1	PICITMK4	

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
PICACD1	4	40	PICACD3	4	10	PICAEXT	4	80
PICACD10	5	20	PICACD4	4	8	PICAITMK	4	
PICACD11	5	10	PICACD5	4	4	PICAPRMK	0	
PICACD12	5	8	PICACD6	4	2	PICEXITA	1	
PICACD13	5	4	PICACD7	4	1	PICITMK1	4	
PICACD14	5	2	PICACD8	5	80	PICITMK2	5	
PICACD15	5	1	PICACD9	5	40	PICITMK3	6	
PICACD17	6	40	PICAEXIT	0		PICITMK4	7	
PICACD2	4	20						

PIE

COMMON NAME: Program Interrupt Element
 MACRO ID: IHAPIE
 DSECT NAME: PIE
 CREATED BY: SPIE (IEAVTESP)
 SUBPOOL AND KEY: 250 and user Key
 SIZE: 32 bytes
 POINTED TO BY: SCAPIE field of the SCA data area
 SERIALIZATION: The PIENOPI bit of the PIE data area and LOCAL lock
 FUNCTION: PIE is used to pass necessary data to the user-specified exit routine for program check interruptions.

OFFSETS						
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION	
		1...		BIT0	"128"	
		.1..		BIT1	"64"	
		..1.		BIT2	"32"	
		...1		BIT3	"16"	
		.... 1...		BIT4	"8"	
		.... .1..		BIT5	"4"	
		.... ..1.		BIT6	"2"	
		.... ...1		BIT7	"1"	
0	(0)	SIGNED	4	PIEPICA (0)	ADDRESS OF THE CURRENT PICA	
0	(0)	BITSTRING	1	PIEFLGS	FLAG BYTE	
		1...		PIENOPI	"BIT0" IF ONE, INDICATES THAT THE TASK CANNOT ACCEPT FURTHER PI'S	
1	(1)	ADDRESS	3	PIEPICAA	ADDRESS OF THE CURRENT PICA	
4	(4)	CHARACTER	8	PIEPSW	PI OLD PSW STORED AT PROGRAM INTERRUPT TIME	
12	(C)	SIGNED	4	PIEGR14	SAVE AREA FOR REGISTER 14	
16	(10)	SIGNED	4	PIEGR15	SAVE AREA FOR REGISTER 15	
20	(14)	SIGNED	4	PIEGR0	SAVE AREA FOR REGISTER 0	
24	(18)	SIGNED	4	PIEGR1	SAVE AREA FOR REGISTER 1	
28	(1C)	SIGNED	4	PIEGR2	SAVE AREA FOR REGISTER 2	

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
BIT0	0	80	BIT6	0	2	PIEGR15	10	
BIT1	0	40	BIT7	0	1	PIEGR2	1C	
BIT2	0	20	PIEFLGS	0		PIENOPI	0	80
BIT3	0	10	PIEGRO	14		PIEPICA	0	
BIT4	0	8	PIEGR1	18		PIEPICAA	1	
BIT5	0	4	PIEGR14	C		PIEPSW	4	

PPD

COMMON NAME: VSM Cell Pool Primary Descriptor
 MACRO ID: IGVPPD
 DSECT NAME: PPD
 CREATED BY: IGVCPLD
 SUBPOOL AND KEY: 245, 255 and key 0 (Residence - above 16M line)
 SIZE: 56 bytes
 POINTED TO BY: GDAPDPG, GDAPPDFX, LDAPPD, PPDNEXT, PXTPPD
 SERIALIZATION: LOCAL/CML lock for local cell pools
 VSMFAG for pageable global cell pools
 VSMFIX for fixed global cell pools
 FUNCTION: Describes the primary cell pool.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	56	PPD	
0	(0)	CHARACTER	4	PPDID	CONTROL BLOCK IDENTIFIER
4	(4)	ADDRESS	4	PPDCPID	CELL POOL ID
4	(4)	ADDRESS	4	PPDPXT	ADDRESS OF PRIMARY EXTENT
8	(8)	ADDRESS	4	PPDSPD	POINTER TO TOP SPD IN LIFO QUEUE
12	(C)	SIGNED	4	PPDPCNT	PRIMARY CELL COUNT
16	(10)	SIGNED	4	PPDSCNT	SECONDARY CELL COUNT
20	(14)	SIGNED	2	PPDSPID	HALFWORD SUBPOOL ID
20	(14)	CHARACTER	1	*	RESERVED
21	(15)	UNSIGNED	1	PPDSP	SUBPOOL ID
22	(16)	CHARACTER	1	PPDKEY	PROTECTION KEY (IN BITS 4 7)
23	(17)	CHARACTER	1	PPDFLGS	FLAG FIELD
		1... ..		PPDRLOC	WHEN 1, INDICATES THE REAL(ANY) OPTION OF LOC WAS SPECIFIED
		.11.		PPDVLOC	WHEN 00, LOC=RES. WHEN 01, LOC= BELOW. WHEN 11, LOC=ANY
		...1		PPDTCBF	WHEN 1 TCB WAS SPECIFIED
		.... 1...		PPDKEYF	WHEN 1 KEY WAS SPECIFIED
		.... .1..		PPDHDRF	WHEN 1 HDR WAS SPECIFIED
		.... ..11		*	RESERVED
24	(18)	ADDRESS	4	PPDTCB	TCB ADDRESS
28	(1C)	SIGNED	4	PPDCSIZE	CELL SIZE
32	(20)	SIGNED	4	PPDPSIZE	SIZE OF PRIMARY EXTENT
36	(24)	SIGNED	4	PPDSSIZE	SIZE OF SECONDARY EXTENT
40	(28)	ADDRESS	4	PPDASC	ASC ADDRESS
44	(2C)	ADDRESS	4	PPDNEXT	POINTER TO NEXT PPD ON LDA OR GDA PPD CHAIN
48	(30)	SIGNED	4	PPDINDX	INDEX OF MOST RECENT ENTRY IN MOST RECENT SPD
52	(34)	SIGNED	4	*	FOR DOUBLEWORD BOUNDARY

CROSS-REFERENCE TABLE

<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>	<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>	<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>
PPD	0		PPDKEY	16		PPDSP	15	
PPDASCB	28		PPDKEYF	17	08	PPDSPD	8	
PPDCPID	4		PPDNEXT	2C		PPDSPID	14	
PPDCSIZE	1C		PPDPCNT	C		PPDSSIZE	24	
PPDFLGS	17		PPDPSIZE	20		PPDTCB	18	
PPDHDRF	17	04	PPDPXT	4		PPDTCBF	17	10
PPDID	0		PPDRLOC	17	80	PPDVLOC	17	40
PPDINDX	30		PPDSCNT	10				

PPL

COMMON NAME: IOS Purge Parameter List
 MACRO ID: IECDPPL
 DSECT NAME: PPL
 CREATED BY: Callers requestion an IOS purge function.
 SUBPOOL AND KEY: Key 0 (callers storage - below 16M line)
 SIZE: 16 bytes
 POINTED TO BY: Register 1 on call to the IOS purge function
 SERIALIZATION: None
 FUNCTION: Provides the data for performing the callers purge request.

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
0	(0)	STRUCTURE	16	PPL	
0	(0)	ADDRESS	4	PPLDSID	ADDR OF DSID ARGUMENT. IT MUST POINT TO A CONTROL BLOCK THAT HAS THE FOLLOWING FIELDS: MINUS 2 TWO BYTE DSID VALIDITY CHECK INDEX PLUS 5 THREE BYTE ADDR OF NEXT DSID OR ZEROS
0	(0)	BITSTRING	1	PPLOPT1	OPTION BYTE ONE
		1... ..		PPLDS	IF DSID PURGE REQUESTED (BIT 6) PURGE A SINGLE DSID (SEE PPLDSID.
		.1.. ..		PPLPOST	ECBS ASSOC WITH THE I/O REQUESTS PURGED SHOULD BE POSTED WITH X'48'
		..1.		PPLHIO	HALT THE I/O REQUESTS AND DO NOT BUILD A PIRL
		...1		PPLREL	PURGE ONLY THE I/O REQ. MARKED RELATED AND ASSOC WITH THE ARGUMENT
		.... 1...		PPLNPPL	INDICATOR THAT NEW PPL IS BEING AND THUS SHOULD BE ZERO.
		.... .1..		PPLRB	DONT PURGE THE RB CHAIN FOR ASYNCHRONOUSLY SCHED ROUTINES
		.... ..1.		PPLTASK	IF ASID PURGE IS NOT SPECIFIED, PURGE SINGLE TCB.
		.... ...1		PPLRXR	OPTION BYTE 2 IS PRESENT AND CONTAINS VALID INFO
1	(1)	ADDRESS	3	PPLDSIDA	SAME AS PPLDSID COMMENT
4	(4)	ADDRESS	4	PPLTCB	3 BYTE ADDR OF TCB TO BE USED TO FIND THE I/O REQ IF NOT SPECIFIED THE CURRENT TCB ADDR IS USED
4	(4)	CHARACTER	1	PPLCC	PURGE COMPLETION CODE '7F' SUCCESSFUL COMPLTN '40' UNSUCCESSFUL SEE REG 15 FOR DETAILS
5	(5)	ADDRESS	3	PPLTCBA	SAME AS PPLTCB COMMENT
8	(8)	ADDRESS	4	PPLPIRL	3 BYTE ADDR OF ANCHOR FROM WHICH PURGED I/O REQUEST LIST IS CHAINED
8	(8)	CHARACTER	1	PPLDVRID	DRIVER ID REQUIRED FOR DSID PURGE REQUESTS DEFAULT VALUE OF X'00' IMPLIES EXCP IS OWNER DCRR 21082
9	(9)	ADDRESS	3	PPLPIRLA	SEE PPLPIRL COMMENT
12	(C)	BITSTRING	1	PPLOPT2	OPTION BYTE 2. OPTION ALLY PRESENT DEPENDING ON BIT 7 OF OPTIN BYTE 1
		1... ..		PPLCAN	CANCEL COMMAND REQUEST
		.1.. ..		*	BYPASS SMGR CALL
		..1.		PPLMEM	ASID PURGE SPECIFIED. THIS OPTION MAY BE SPECIFIED ONLY BY A REQSTR THAT IS IN SUPRVSr STATE
		...1		PPLVC	BYPASS VALIDITY CHECK 0 BYPASS VALIDITY CHECK 1 VALIDITY CHECK
		.... 1...		PPLTCB	PURGE ALL REQUESTS SO THAT WHEN RESTORED THEY CAN BE ASSOC WITH THE TCB THAT ORIGINATED THEM
		.... .1..		PPLTSKM	PURGE CALLED BY TASK TERMINATION. IF QUIESCE OPTION AND I/O REQUESTS ENCOUNTERED, PURGE WILL NOT WAIT AND WILL PASS RETURN CODE X'10' BACK IN REG 15
		.... ..1.		PPLBSS	BYPASS STATUS START SRB VALID ONLY FOR RCT CALL FOR MEMORY SWAP
		.... ...1		PPLUCB	PURGE DSID BY UCB ONLY. WHEN ON REQUESTS FOR SPECIFIED UCB WILL BE PURGED
13	(D)	CHARACTER	1	*	RESERVED AND SHOULD BE 0
14	(E)	CHARACTER	2	PPLASID	ASID OF MEMORY TO WHICH I/O REQUESTS ARE ASSOCIATED
14	(E)	CHARACTER	2	PPLPFSET	OFFSET WITHIN THE DEB TO ADDRESS OF THE UCB FOR PURGE BY UCB ONLY.
16	(10)	CHARACTER		PPLEND	END OF PPL

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
PPL	0		PPLEXR	0	01	PPLPOST	0	40
PPLASID	E		PPLHIO	0	20	PPLRB	0	04
PPLBSS	C	02	PPLMEM	C	20	PPLREL	0	10
PPLCAN	C	80	PPLNPPPL	0	08	PPLTASK	0	02
PPLCC	4		PPLOFSET	E		PPLTCB	4	
PPLDS	0	80	PPLOPT1	0		PPLTCBA	5	
PPLDSID	0		PPLOPT2	C		PPLTSKM	C	04
PPLDSIDA	1		PPLOTCB	C	08	PPLUCB	C	01
PPLDVRID	8		PPLPIRL	8		PPLVC	C	10
PPLEND	10		PPLPIRLA	9				

PQCB

COMMON NAME: Placeholder Queue Control Block
 MACRO ID: ISGPQCB
 DSECT NAME: None
 CREATED BY: Global Resource Serialization, queue scanning services module (ISGQSCAN)
 SUBPOOL AND KEY: 229 in global resource serializatin private area (above 16M line); key 0.
 SIZE: 72 bytes
 POINTED TO BY: PQCB - PQCBNQCB and PQCBPQCB, QCB - QCBNQCB and QCBPQCB, QHT - QHTEFQCB and QHTELQCB
 SERIALIZATION: Local PQCB - CMS ENQ/DEQ lock. Global PQCB - global resource serialization local lock.
 FUNCTION: The Placeholder Queue Control Block contains the information necessary to resume a global resource serialization queue scanning request. All resources before this placeholder queue control block have been scanned whereas all resources following this placeholder queue control block still have to be scanned in order to satisfy the original global resource serialization queue scanning request.

OFFSETS						
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION	
0	(0)	STRUCTURE	72	PQCB	PLACEHOLDER QUEUE CONTROL BLOCK	
0	(0)	CHARACTER	40	PQCBASIC	PQCB BASIC SECTION (NOTE THAT THIS MAPS IDENTICALLY TO THE BASIC SECTION OF A QCB)	
0	(0)	ADDRESS	4	PQCBNQCB	ADDRESS OF NEXT QCB ON SYNONYM CHAIN	
4	(4)	ADDRESS	4	PQCBPQCB	ADDRESS OF PREVIOUS QCB ON SYNONYM CHAIN	
8	(8)	ADDRESS	4	PQCBFQEL	ADDRESS OF FIRST QEL FOR THIS PLACFOLDER QCB	
12	(C)	ADDRESS	4	PQCBLQEL	ADDRESS OF LAST QEL FOR THIS PLACEHOLDER QCB	
16	(10)	ADDRESS	4	PQCBQHTE	ADDRESS OF QUEUE HASH TABLE ENTRY ON WHICH THIS PLACEHOLDER QCB IS CHAINED	
20	(14)	CHARACTER	4	PQCBRS01	RESERVED MUST BE ZERO	
24	(18)	UNSIGNED	2	PQCBASID	ASID OF THE REQUESTOR	
26	(1A)	UNSIGNED	1	PQCBDFLG	DESCRIPTOR FLAGS	
		1... ..		PQCBDRS1	RESERVED MUST BE ZERO	
		.1.. ..		PQCBDRS2	RESERVED MUST BE ZERO	
		..1.		PQCBDRS3	RESERVED MUST BE ZERO	
		...1		PQCBGLBL	GLOBAL RESOURCE INDICATOR (1 GLOBAL RESOURCE, 0 LOCAL RESOURCE)	
		.... 1..		PQCBDRS5	RESERVED MUST BE ZERO	
		.... .1..		PQCBPHDR	PLACEHOLDER QCB FLAG (1 THIS QCB IS A PLACEHOLDER QCB, 0 THIS QCB IS A RESOURCE QCB). NOTE THAT A PQCB DOES NOT DEFINE A RESOURCE REQUEST.	
		.... ..1.		PQCBDRS6	RESERVED MUST BE ZERO	
		.... ...1		PQCBDRS7	RESERVED MUST BE ZERO	
27	(1B)	CHARACTER	13	PQCBRS02	RESERVED MUST BE ZERO	
40	(28)	ADDRESS	4	PQCBPQEL	ADDRESS OF QEL WHERE SCAN IS TO RESUME OR ZERO	
44	(2C)	SIGNED	4	PQCBRCNT	COUNT OF HOW MANY RIBE(S) HAVE TO BE BUILT TO REPRESENT REQUESTORS OF A RESOURCE	
48	(30)	SIGNED	4	PQCBRBLT	COUNT OF HOW MANY RIBE(S) HAVE BEEN BUILT TO REPRESENT REQUESTORS OF A RESOURCE	
52	(34)	SIGNED	4	PQCBOWNC	COUNT OF HOW MANY REQUESTORS OWN A RESOURCE	
56	(38)	SIGNED	4	PQCBWTEC	COUNT OF HOW MANY REQUESTORS ARE WAITING FOR EXCLUSIVE CONTROL OF A RESOURCE	
60	(3C)	SIGNED	4	PQCBWTSC	COUNT OF HOW MANY REQUESTORS ARE WAITING FOR SHARED CONTROL OF A RESOURCE	
64	(40)	SIGNED	4	PQCBOWNS	COUNT OF HOW MANY REQUESTORS OWN A RESOURCE FOR WHICH NO RIBE(S) HAVE BEEN BUILT TO REPRESENT THEM	
68	(44)	UNSIGNED	2	PQCBQHTI	QUEUE HASH TABLE INDEX THAT THE SCAN IS TO RESUME ON	
70	(46)	BITSTRING	1	PQCBSFLG	SCANNING STATUS FLAGS	
		1... ..		PQCBLQHT	LOCAL QHT SCAN FLAG (1 SCANNING LOCAL QHT, 0 NOT SCANNING LOCAL QHT)	
		.1..		PQCBGQHT	GLOBAL QHT SCAN FLAG (1 SCANNING GLOBAL QHT, 0 NOT SCANNING GLOBAL QHT)	
		..1.		PQCBCLST	COMPLETE LOCAL QHT SCAN FOR SCOPE=STEP FLAG (1 COMPLETED SCANNING LOCAL QHT WHEN SCOPE= STEP, 0 NOT COMPLETED)	
		...1		PQCBCLSM	COMPLETE LOCAL QHT SCAN FOR SCOPE=SYSTEM FLAG (1 COMPLETED SCANNING LOCAL QHT FOR SCOPE=SYSTEM, 0 NOT COMPLETED)	
	 1..		PQCBCSS	COMPLETE LOCAL/GLOBAL QHT SCAN FOR SCOPE=SYSTEMS FLAG (1 COMPLETED SCANNING GIVEN QHT FOR SCOPE=SYSTEMS, 0 NOT COMPLETED)	
	111		PQCBRS1	RESERVED	
71	(47)	CHARACTER	1	PQCBRS03	RESERVED	

PQCB

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OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
72	(48)	CHARACTER		PQCBEND	END OF PQCB

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
PQCB	0		PQCBDRS7	1A	01	PQCBPQEL	28	
PQCBASID	18		PQCBEND	48		PQCBQHTE	10	
PQCBBASC	0		PQCBFQEL	8		PQCBQHTI	44	
PQCBCLSM	46	10	PQCBGLBL	1A	10	PQCBRBLT	30	
PQCBCLST	46	20	PQCBGQHT	46	40	PQCBRCNT	2C	
PQCBCSS	46	08	PQCBLQEL	C		PQCBRS01	14	
PQCBDFLG	1A		PQCBLQHT	46	80	PQCBRS02	1B	
PQCBDRS1	1A	80	PQCBNQCB	0		PQCBRS03	47	
PQCBDRS2	1A	40	PQCBOWNC	34		PQCBSFLG	46	
PQCBDRS3	1A	20	PQCBOWNS	40		PQCBRSR1	46	04
PQCBDRS5	1A	08	PQCBPHDR	1A	04	PQCBWTEC	38	
PQCBDRS6	1A	02	PQCBPQCB	4		PQCBWTSC	3C	

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PRMESTAE

COMMON NAME: Common Allocation ESTAE Exit Parameter Area
 MACRO ID: IEFZB447
 DSECT NAME: PRMESTAE
 CREATED BY: IEFAB421
 SUBPOOL AND KEY: 230 and Key 1
 SIZE: 320 bytes
 POINTED TO BY: ASWAPRMS field of the ASWA
 SERIALIZATION: None
 FUNCTION: Input parameters used by common allocation ESTAE exit, IEFAB4E8, and the update UCB FRR routine, IEFAB4E6.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	320	PRMESTAE	ESTAE PARAMETER LIST
0	(0)	CHARACTER	252	PRMEAUTO	AUTODATA AREA FOR FOR EXIT ROUTINE
252	(FC)	BITSTRING	1	PRMRESC	RESOURCES HELD
		1... ..		ENQQ4	ENQUEUED ON Q4
		.1.. ..		DDRQ	ENQUEUED ON DDR QUEUE
		..1.		CHNGQ	ENQUEUED ON CHANGE QUEUE
		...1		DSSTAP	DSS TAPE BIT
		.... 1..		DSSUNREC	DSS UNIT RECORD BIT
		.... .1..		TPQ	ENQUEUED ON TP QUEUE
		.... ..1.		MLWTO	DOM MULTILINE WTO
		.... ...1		*	RESERVED
253	(FD)	BITSTRING	1	PRMFUNC	FUNCTIONS NEEDED
		1... ..		GENCLNUP	CALL GENERIC CLEANUP RTN
		.1.. ..		UPDSABCK	ZERO SIOT DSAB PTR
		..1.		DSABCHN	FIX UP DSAB CHAIN
		...1		TIOTBLT	TIOT ENTRY BUILT
		.... 1..		DUMPOK	
		.... ..1.		FREECORE	FREE QUEUE MANAGER BLOCK
		.... ...1		VMVCALL	CALL VM&V CLEANUP RTN
				PRMRETRY	RETRY REQUESTED
254	(FE)	SIGNED	2	PRMASID	ASID
256	(100)	ADDRESS	4	PRMSIOTP	SIOT PTR
260	(104)	ADDRESS	4	PRMUCBP	UCB PTR
264	(108)	ADDRESS	4	PRMQMGP	PTR TO Q MGR PARMS
268	(10C)	SIGNED	4	PRMQMBLN	LENGTH OF Q MGR BLOCK
272	(110)	ADDRESS	4	PRMQMBP	PTR TO Q MGR BLOCK TO FREE
276	(114)	ADDRESS	4	PRMQDBP	PTR TO DSAB QDB
280	(118)	ADDRESS	4	PRMDSQL	PTR TO LAST DSAB IN QUEUE
284	(11C)	ADDRESS	4	PRMDSQF	PTR OT FIRST DSAB IN QUEUE
288	(120)	SIGNED	4	PRMNELM	NO, ELEMENTS IN DSAB QUEUE
292	(124)	SIGNED	4	PRMWTOID	DOM ID OF MULTILINE WTO
296	(128)	ADDRESS	4	PRMAERBP	PTR TO AERB
300	(12C)	ADDRESS	4	PRMJSCBP	PTR TO JSCB
304	(130)	BITSTRING	1	PRMFUNC2	FUNCTION REQUIRED
		1... ..		WRTBUF	WRITE MESSAGE BUFFER
		.1.. ..		*	RESERVED STOKEY NO LONGER USED EDL IS MOVED TO EXTENDED STORAGE
		..11 1111		*	RESERVED
305	(131)	CHARACTER	3	*	RESERVED
308	(134)	ADDRESS	4	PRMALCHA	ADDR OF ALCMA
312	(138)	CHARACTER	1	*	RESERVED PRMSKEY NO LONGER USED EDL IS MOVED TO EXTENDED STORAGE
		1111		*	RESERVED SAVESKEY NO LONGER USE EDL IS MOVED TO EXTENDED STORAGE
		.... 1111		*	
313	(139)	CHARACTER	3	*	RESERVED
316	(13C)	ADDRESS	4	*	RESERVED

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
CHNGQ	FC	20	PRMASID	FE		PRMQMGP	108	
DDRQ	FC	40	PRMDSQF	11C		PRMRESC	FC	
DSABCHN	FD	20	PRMDSQL	118		PRMRETRY	FD	01
DSSTAP	FC	10	PRMEAUTO	0		PRMSIOTP	100	
DSSUNREC	FC	08	PRMESTAE	0		PRMUCBP	104	
DUMPOK	FD	08	PRMFUNC	FD		PRMWTOID	124	
ENQQ4	FC	80	PRMFUNC2	130		TIOTBLT	FD	10
FREECORE	FD	04	PRMJSCBP	12C		TPQ	FC	04
GENCLNUP	FD	80	PRMNELM	120		UPDSABCK	FD	40
MLWTO	FC	02	PRMQDBP	114		VMVCALL	FD	02
PRMAERBP	128		PRMQMBLN	10C		WRTBUF	130	80
PRMALCWA	134		PRMQMBP	110				

PRQE

The mapping macro for this control block is object code only (OCO). Therefore, only selected information is presented for it.

OWNING COMPONENT Availability Manager (SCAVM)
SUBPOOL AND KEY: 231 and key 3
SIZE: 40 bytes

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PRQH

The mapping macro for this control block is object code only (OCO). Therefore, only selected information is presented for it.

OWNING COMPONENT: Availability manager (SCAVM)
SUBPOOL AND KEY: 231 and key 3
SIZE: 40 bytes

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PSA

COMMON NAME: Prefixed Save Area
 MACRO ID: IHAPSA
 DSECT NAME: PSA
 CREATED BY: IEAVFX00, IEAVNIPO, IEEVCPR
 SUBPOOL AND KEY: 239 and key 0 (Residence - below the 16M line)
 SIZE: 4096 bytes
 POINTED TO BY: PCCAPSAV field of the PCCA data area
 PCCAPSAR field of the PCCA data area
 SERIALIZATION: Disablement
 FUNCTION: Maps fixed hardware and software storage locations for the related processor.

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
		.... ....		FLC	"*"
0	(0)	CHARACTER	8	FLCIPPSW (0)	IPL PSW
0	(0)	BITSTRING	4	FLCRNPSW	RESTART NEW PSW (AFTER IPL) MDC001
4	(4)	ADDRESS	4		"V(IEAVRSTR)" SECOND HALF OF RESTART NEW PSW MDC128
		.... ....		IPLPSW	"FLCIPPSW" ALIAS
8	(8)	CHARACTER	8	FLCICCW1 (0)	IPL CCW1
8	(8)	BITSTRING	8	FLCROPSW	RESTART OLD PSW (AFTER IPL)
16	(10)	CHARACTER	8	FLCICCW2 (0)	IPL CCW2
16	(10)	ADDRESS	4	FLCCVT	"V(IEACVT)" ADDRESS OF CVT (AFTER IPL). THIS OFFSET FIXED BY ARCHITECTURE. (MDC450)
20	(14)	BITSTRING	4		RESERVED (AFTER IPL) (MDC431)
24	(18)	BITSTRING	8	FLCEOPSW	EXTERNAL OLD PSW
		...1 1...		EXOPSW	"FLCEOPSW" ALIAS
32	(20)	BITSTRING	8	FLCSOPSW	SVC OLD PSW. THIS OFFSET FIXED BY ARCHITECTURE. (MDC451)
		..1.		SVCOPSW	"FLCSOPSW" ALIAS
40	(28)	BITSTRING	8	FLCPOPSW	PROGRAM CHECK OLD PSW
		..1. 1...		PIOPSW	"FLCPOPSW" ALIAS
48	(30)	BITSTRING	8	FLCMOPSW	MACHINE CHECK OLD PSW
		..11		MCOPSW	"FLCMOPSW" ALIAS
56	(38)	BITSTRING	8	FLCIOPSW	INPUT/OUTPUT OLD PSW
		..11 1...		IOOPSW	"FLCIOPSW" ALIAS
64	(40)	BITSTRING	12		RESERVED
76	(4C)	ADDRESS	4	FLCCVT2	"V(IEACVT)" ADDRESS OF CVT USED BY DUMP ROUTINES ICB319
80	(50)	BITSTRING	4		RESERVED
84	(54)	BITSTRING	4		RESERVED FLCTRACE DELETED DUE TO SYSTEM TRACE REDESIGN.
88	(58)	BITSTRING	4	FLCENPSW	EXTERNAL NEW PSW
92	(5C)	ADDRESS	4		"V(IEAQEX00)" SECOND HALF OF EXTERNAL NEW PSW
		.1.1 1...		EXNPSW	"FLCENPSW" ALIAS
96	(60)	BITSTRING	4	FLCSNPSW	SVC NEW PSW
100	(64)	ADDRESS	4		"V(IEAQSC00)" SECOND HALF OF SVC NEW PSW
		.11.		SVCNPSW	"FLCSNPSW" ALIAS
104	(68)	BITSTRING	4	FLCPNPSW	PROGRAM CHECK NEW PSW MDC002
108	(6C)	ADDRESS	4		"V(IEAQP00)" SECOND HALF OF PROGRAM CHECK NEW PSW

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
		.11. 1...		PINPSW	"FLCPNPSW" ALIAS
112	(70)	BITSTRING	4	FLCMNPSW	MACHINE CHECK NEW PSW MDC003
116	(74)	ADDRESS	4		"V(IGFPMAN)" SECOND HALF OF MACHINE CHECK NEW PSW
		.111		MCNPSW	"FLCMNPSW" ALIAS
120	(78)	BITSTRING	4	FLCINPSW	INPUT/OUTPUT NEW PSW
124	(7C)	ADDRESS	4		"V(IEAQI000)" SECOND HALF OF I/O NEW PSW
		.111 1...		IONPSW	"FLCINPSW" ALIAS
128	(80)	SIGNED	4	PSAEPARM	EXTERNAL INTERRUPTION PARAMETER FIELD. (MDC473)
132	(84)	SIGNED	4	PSAEEPSW (0)	EXTENDED PSW DATA STORED ON EXTERNAL INTERRUPT MDC084
132	(84)	SIGNED	2	PSASPAD	ISSUING PROCESSOR'S PHYSICAL ADDRESS ON MFA, EMS, OR EXTERNAL CALL INTERRUPT MDC046
134	(86)	SIGNED	2	FLCEICOD	EXTERNAL INTERRUPTION CODE
		1... .11.		EXCODE	"FLCEICOD" ALIAS
136	(88)	SIGNED	4	PSAESPSW (0)	EXTENDED PSW DATA STORED ON SVC INTERRUPT MDC085
136	(88)	BITSTRING	1		RESERVED SET TO ZERO
137	(89)	SIGNED	1	FLCSVILC	SVC INSTRUCTION LENGTH COUNTER NUMBER OF BYTES. THIS OFFSET FIXED BY ARCHITECTURE. (MDC454)
		.... .111		FLCSILCB	"X'07'" SIGNIFICANT BITS IN ILC FIELD LAST BIT IS ALWAYS ZERO MDC080
		1... 1..1		SVCILC	"FLCSVILC" ALIAS
138	(8A)	SIGNED	2	FLCSVCN	SVC INTERRUPTION CODE SVC NUMBER. THIS OFFSET FIXED BY ARCHITECTURE. (MDC455)
		1... 1..1.		SVCNUM	"FLCSVCN" ALIAS
140	(8C)	CHARACTER	8	PSAEPPSW (0)	EXTENDED PSW FOR PROGRAM INTERRUPT MDC086
140	(8C)	BITSTRING	1		RESERVED SET TO ZERO
141	(8D)	SIGNED	1	FLCPIILC	PROGRAM INTERRUPT LENGTH COUNTER NUMBER OF BYTES IN INSTRUCTION CAUSING PROGRAM INTERRUPTION. THIS OFFSET FIXED BY ARCHITECTURE. (MDC456)
		.... .111		FLCPILCB	"X'07'" SIGNIFICANT BITS IN ILC FIELD LAST BIT IS ALWAYS ZERO MDC083
		1... 11.1		PIILC	"FLCPIILC" ALIAS
142	(8E)	SIGNED	2	FLCPICOD (0)	PROGRAM INTERRUPTION CODE
		1... 111.		PICODE	"FLCPICOD" ALIAS
142	(8E)	BITSTRING	1		RESERVED FOR IMPRECISE INTERRUPTS MDC087
143	(8F)	SIGNED	1	PSAPICOD	8 BIT INTERRUPT CODE. THIS OFFSET FIXED BY ARCHITECTURE. (MDC457)
		1...		PSAPIPER	"X'80'" PER INTERRUPT OCCURRED MDC089
		.1.		PSAPIMC	"X'40'" MONITOR CALL INTERRUPT OCCURRED MDC090
		..11 1111		PSAPIPC	"X'3F'" AN UNSOLICITED PROGRAM CHECK HAS OCCURRED IF ANY OF THESE 6 BITS ARE ON MDC091
144	(90)	ADDRESS	4	FLCTEA	TRANSLATION EXCEPTION ADDRESS. THIS OFFSET FIXED BY ARCHITECTURE.
		1...		FLCTEAXM	"X'80'" IF 0 FLCTEA IS RELATIVE TO THE PRIMARY SEGMENT TABLE IF 1 FLCTEA IS RELATIVE TO THE SECONDARY SEGMENT TABLE
148	(94)	BITSTRING	1		RESERVED SET TO ZERO
149	(95)	BITSTRING	1	FLCMCNUM	MONITOR CLASS NUMBER

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
150	(96)	BITSTRING	1	FLCPCERCD	PROGRAM EVENT RECORDING CODE
151	(97)	BITSTRING	1		RESERVED SET TO ZERO
152	(98)	ADDRESS	4	FLCPCER	PER ADDRESS
156	(9C)	BITSTRING	1		RESERVED SET TO ZERO
157	(9D)	BITSTRING	3	FLCMTRCD	MONITOR CODE
160	(A0)	BITSTRING	4		RESERVED
164	(A4)	ADDRESS	4	PSAMPL	"V(IHAMPL)" MPL ADDRESS. THIS OFFSET FIXED BY ARCHITECTURE. (MDC418)
168	(A8)	BITSTRING	344 (0)		MACHINE CHECK LOGOUT AREA
168	(A8)	BITSTRING	16		RESERVED
184	(B8)	BITSTRING	8	FLCIOCDP (0)	
					I/O INFORMATION CODE
184	(B8)	BITSTRING	4	FLCSID	SUBSYSTEM ID
188	(BC)	BITSTRING	4	FLCIOFP	I/O INTERRUPTION PARAMETER
192	(C0)	BITSTRING	40		RESERVED
232	(E8)	BITSTRING	8	FLCMCIC	MACHINE CHECK INTERRUPTION CODE
240	(F0)	BITSTRING	8		RESERVED SET TO ZERO
248	(F8)	ADDRESS	4	FLCFSA	FAILING STORAGE ADDRESS
252	(FC)	BITSTRING	4		RESERVED SET TO ZERO
256	(100)	BITSTRING	96	FLCFLA	FIXED LOGOUT AREA
352	(160)	BITSTRING	32	FLCFPSAV	FLOATING POINT REGISTER SAVE AREA
384	(180)	SIGNED	4	FLCGRSAV (16)	
					GENERAL REGISTER SAVE AREA
448	(1C0)	SIGNED	4	FLCCRSAV (16)	
					CONTROL REGISTER SAVE AREA
512	(200)	DBL WORD	8	FLCHDEND (0)	
					END OF HARDWARE ASSIGNMENTS
512	(200)	CHARACTER	4	PSAPSA	CONTROL BLOCK ACRONYM IN EBCDIC
516	(204)	SIGNED	2	PSACPUPA	PHYSICAL CPU ADDRESS (CHANGED DURING ACR) (MDC130) YM3489
518	(206)	SIGNED	2	PSACPULA	LOGICAL CPU ADDRESS
520	(208)	ADDRESS	4	PSAPCCAV	VIRTUAL ADDRESS OF PCCA
524	(20C)	ADDRESS	4	PSAPCCAR	REAL ADDRESS OF PCCA
528	(210)	ADDRESS	4	PSALCCAV	VIRTUAL ADDRESS OF LCCA
532	(214)	ADDRESS	4	PSALCCAR	REAL ADDRESS OF LCCA
536	(218)	ADDRESS	4	PSATNEW	TCB NEW POINTER
536	(218)			IEATCBP	"PSATNEW" ALIAS
540	(21C)	ADDRESS	4	PSATOLD	TCB OLD POINTER. THIS OFFSET FIXED BY ARCHITECTURE. (MDC460)
544	(220)	ADDRESS	4	PSAANEW	ASCB NEW POINTER
548	(224)	ADDRESS	4	PSAOLD	ASCB OLD POINTER. THIS OFFSET FIXED BY ARCHITECTURE. (MDC461)
552	(228)	BITSTRING	4	PSASUPER (0)	
					SUPERVISOR CONTROL WORD. THIS OFFSET FIXED BY ARCHITECTURE. (MDC462)
552	(228)	BITSTRING	1	PSASUP1	FIRST BYTE OF PSASUPER
		1... ..		PSAIO	"X'80'" I/O FLIH
		.1.. ..		PSASVC	"X'40'" SVC FLIH
		..1.		PSAEXT	"X'20'" EXTERNAL FLIH
		...1		PSAPI	"X'10'" PROGRAM CHECK FLIH
		.... 1..		PSALOCK	"X'08'" LOCK ROUTINE
		.... .1..		PSADISP	"X'04'" DISPATCHER
		.... ..1.		PSATCTL	"X'02'" TCTL RECOVERY FLAG (MDC310)
		.... ...1		PSATYPE6	"X'01'" TYPE 6 SVC IN CONTROL (MDC311)
553	(229)	BITSTRING	1	PSASUP2	SECOND BYTE OF PSASUPER
		1... ..		PSAIPCRI	"X'80'" REMOTE IMMEDIATE SIGNAL SERVICE ROUTINE (IEAVERI)
		.1..		PSASVCR	"X'40'" SUPER FRR USES FOR SVC FLIH RECURSION TRACKING
		..1.		PSASVCCR	"X'20'" SVC RECOVERY RECURSION INDICATOR. OWNER: SUPERVISOR CONTROL. SERIALIZATION: DISABLEMENT.
		.... .1..		PSAACR	"X'04'" AUTOMATIC CPU RECONFIGURATION (ACR) IN CONTROL MDC119
		.... ..1.		PSARTM	"X'02'" RECOVERY TERMINATION MONITOR (RTM) IN CONTROL MDC120
		.... ...1		PSALCR	"X'01'" USED BY RTM TO SERIALIZE CALLS OF THE SUPERVISOR ANALYSIS ROUTER
554	(22A)	BITSTRING	1	PSASUP3	THIRD BYTE OF PSASUPER

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
		1...		PSAIOSUP	"X'80'" IF ON, A MAINLINE IOS COMPONENT SUCH AS CHANNEL SCHEDULER HAS ENTERED A PHYSICALLY DISABLED STATE WITHOUT REGARD TO LOCKING REQUIREMENTS MDC027
		...1		PSASPR	"X'10'" SUPER FRR IS ACTIVE (MDC305)
		.... 1...		PSAESTA	"X'08'" SVC 60 RECOVERY ROUTINE ACTIVE (MDC312)
		.... .1..		PSARSM	"X'04'" REAL STORAGE MANAGER (RSM) ENTERED FOR PAGE FIX (MDC321)
		.... ..1.		PSAULCMS	"X'02'" LOCK MANAGER UNCONDITIONAL LOCAL OR CMS LOCK ROUTINES (MDC469)
		.... ...1		PSASLIP	"X'01'" IEAVTSLP RECURSION CONTROL BIT (MDC471)
555	(22B)	BITSTRING	1	PSASUP4	FOURTH BYTE OF PSASUPER
		1...		PSALDWT	"X'80'" IF ON, IEEVDWT IS ACTIVE AND PROCESSING STOP/RESTART REQUEST (MDC597)
		.1..		PSASMF	"X'40'" SMF SUSPEND/RESET (MDC599)
		..1.		PSAESAR	"X'20'" SUPERVISOR ANALYSIS ROUTER IS ACTIVE
556	(22C)	BITSTRING	16	PSARV22C	RESERVED
572	(23C)	BITSTRING	1	PSAPTYPE	PROCESSOR TYPE INDICATOR OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: READ = NONE WRITE = DISABLEMENT.
		1...		PSAAXP	"X'80'" INDICATES AXP
573	(23D)	BITSTRING	1		RESERVED
574	(23E)	BITSTRING	2	PSALSVC1	LAST SVC ISSUED ON THIS PROCESSOR PRIOR TO ENABLEMENT BY THE SVC FLIH. OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: DISABLEMENT
576	(240)	BITSTRING	16	PSARV240	RESERVED FOR FUTURE USE SC1C5.
592	(250)	DBL WORD	8 (0)		ALIGN PSAMPSW TO DOUBLE WORD
592	(250)	BITSTRING	8	PSAMPSW	SETLOCK MODEL PSW
		.... ..1.		PSAPIOM	"X'02'" INPUT/OUTPUT INTERRUPT MASK
		.... ...1		PSAPEXM	"X'01'" EXTERNAL INTERRUPT MASK
600	(258)	DBL WORD	8 (0)		ALIGN PSAMCHEX TO DOUBLE WORD
600	(258)	BITSTRING	8	PSAMCHEX	MCH EXIT PSW
616	(268)			PSAIPCSM	"PSAIPCIN+1,1,C'X'" LABEL FOR SYSTEM MASK USED IN ABOVE INSTRUCTION. OWNERSHIP: SUPERVISOR CONTROL.
620	(26C)			PSAEMS2M	"PSAEMS2S+1,1,C'X'" LABEL OF SYSTEM MASK USED IN ABOVE INSTRUCTION. OWNERSHIP: SUPERVISOR CONTROL.
624	(270)			PSASTSSM	"PSASTOSM+1,1,C'X'" LABEL FOR SYSTEM MASK USED IN ABOVE INSTRUCTION. OWNERSHIP: NA.
628	(274)	SIGNED	4	PSAHLHIS	SAVE AREA FOR PSAHLHI MDC050
632	(278)	BITSTRING	1	PSARECUR	RESTART FLIH RECURSION INDICATOR. IF X'00', FLIH NOT IN CONTROL. IF X'FF', FLIH IN CONTROL, ENTRY IS RECURSIVE. MDC093
633	(279)	BITSTRING	1	PSARSSM	STNSM AREA FOR IEAVERES
634	(27A)	BITSTRING	1	PSASNSM2	STNSM AREA FOR IEAVTRT1 (MDC470)
635	(27B)	BITSTRING	1	PSARTM1S	BITS 0 7 OF THE CURRENT PSW ARE STORED HERE WHENEVER PSARTMIR IS EXECUTED IN RTM. (MDC613)
636	(27C)	ADDRESS	4	PSASRSA	REAL ADDRESS OF SAVE AREA USED DURING STOP AND RESTART SUBROUTINE MDC095
640	(280)	CHARACTER	116	PSACLHT (0)	CPU LOCKS TABLE (MDC314)
640	(280)	CHARACTER	80	PSACLHT1 (0)	SPIN LOCKS TABLE
640	(280)	ADDRESS	4	PSADISPL	"V(DISPLCK)" GLOBAL DISPATCHER LOCK (MDC315)
644	(284)	ADDRESS	4	PSAASML	AUXILIARY STORAGE MANAGEMENT (ASM) LOCK MDC002
648	(288)	ADDRESS	4	PSASALCL	"V(SALCK)" SPACE ALLOCATION LOCK (MDC316)
652	(28C)	ADDRESS	4	PSAIOSSL	IOS SYNCHRONIZATION LOCK MDC010
656	(290)	ADDRESS	4	PSARVLK0	RESERVED FOR LOCK EXPANSION
660	(294)	ADDRESS	4	PSAIOSUL	IOS UNIT CONTROL BLOCK LOCK MDC005
664	(298)	ADDRESS	4	PSARVLK1	RESERVED FOR LOCK EXPANSION
668	(29C)	ADDRESS	4	PSATPNCL	TCAM'S TPNCPL LOCK MDC007
672	(2A0)	ADDRESS	4	PSATPDNL	TCAM'S TPDNCB LOCK MDC008
676	(2A4)	ADDRESS	4	PSATPACL	TCAM'S TPACBDEB LOCK MDC009
680	(2A8)	ADDRESS	4	PSAOPTL	"V(OPTLOCK)" OPTIMIZER LOCK (MDC317)
684	(2AC)	ADDRESS	4	PSARSMGL	RSM GLOBAL LOCK

OFFSETS						
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION	
688	(2B0)	ADDRESS	4	PSAVFIXL	"V(VFIXLOCK)" VSM FIXED SUBPOOLS LOCK	
692	(2B4)	ADDRESS	4	PSAASMGL	ASM GLOBAL LOCK	
696	(2B8)	ADDRESS	4	PSARMSL	RSM STEAL LOCK	
700	(2BC)	ADDRESS	4	PSARSMXL	RSM CROSS MEMORY LOCK	
704	(2C0)	ADDRESS	4	PSARSMAL	RSM ADDRESS SPACE LOCK	
708	(2C4)	ADDRESS	4	PSAVPAGL	"V(VPAGLOCK)" VSM PAGEABLE SUBPOOLS LOCK	
712	(2C8)	ADDRESS	4	PSARSMCL	RSM COMMON LOCK	
		...1 ..11		PSALKS1	"19" COUNT OF LOCKS IN CLHT1	
716	(2CC)	ADDRESS	4	PSARVLK2	RESERVED FOR LOCK EXPANSION	
720	(2D0)	CHARACTER	16	PSACLHT2 (0)	SHARED EXCLUSIVE LOCKS TABLE	
720	(2D0)	ADDRESS	4	PSARSML	"V(RSMLOCK)" RSM GLOBAL FUNCTION/RECOVERY LOCK	
		1...		PSARSMEX	"X'80'" BIT 0 OF PSARSML. IF ON, THE RSM LOCK IS HELD EXCLUSIVE.	
724	(2D4)	ADDRESS	4	PSATRCCL	"V(TRCELOCK)" TRACE BUFFER MANAGEMENT LOCK	
		1...		PSATRCEX	"X'80'" BIT 0 OF PSATRCCL. IF ON THE TRACE LOCK IS HELD EXCLUSIVE.	
		.... ..1.		PSALKS2	"2" COUNT OF LOCKS IN CLHT2	
728	(2D8)	ADDRESS	4	PSARVLK3	RESERVED LOCK	
732	(2DC)	ADDRESS	4	PSARVLK4	RESERVED FOR LOCK EXPANSION	
736	(2E0)	CHARACTER	8	PSACLHT3 (0)	SPECIAL LOCKS TABLE	
736	(2E0)	ADDRESS	4	PSACPUL	CPU TABLE LOCKS	
		.... ..1		PSALKS3	"1" COUNT OF LOCKS IN CLHT3	
740	(2E4)	ADDRESS	4	PSARVLK5	RESERVED FOR LOCK EXPANSION	
744	(2E8)	CHARACTER	12	PSACLHT4 (0)	SUSPEND LOCKS TABLE	
744	(2E8)	ADDRESS	4	PSACMSL	CROSS MEMORY SERVICES LOCK (MDC463)	
748	(2EC)	ADDRESS	4	PSALOCAL	LOCAL LOCK	
		.... ..1.		PSALKS4	"2" COUNT OF LOCKS IN CLHT4	
752	(2F0)	ADDRESS	4	PSARVLK6	RESERVED FOR LOCK EXPANSION	
756	(2F4)	ADDRESS	4	PSALCPUA	LOGICAL CPU ADDRESS FOR LOCK INSTRUCTION. THIS OFFSET FIXED BY ARCHITECTURE. (MDC421)	
760	(2F8)	SIGNED	4	PSAHLHI (0)	HIGHEST LOCK HELD INDICATOR. THIS OFFSET FIXED BY ARCHITECTURE. (MDC464)	
760	(2F8)	SIGNED	4	PSACLHS (0)	CPU LOCKS HELD STRING MDC122	
760	(2F8)	BITSTRING	1	PSACLHS1	FIRST BYTE OF PSACLHS. (MDC384)	
		1...		PSACPULI	"X'80'" CPU LOCK INDICATOR	
		.... 1...		PSARSMLI	"X'08'" RSM LOCK INDICATOR	
		.... ..1.		PSATRCEI	"X'04'" TRACE LOCK INDICATOR	
761	(2F9)	BITSTRING	1	PSACLHS2	SECOND BYTE OF PSACLHS. (MDC385)	
		...1		PSARSMCI	"X'10'" RSM COMMON LOCK INDICATOR	
		.... 1...		PSARSMGI	"X'08'" RSM GLOBAL LOCK INDICATOR	
		.... ..1.		PSAVFIXI	"X'04'" VSM FIX LOCK INDICATOR	
		.... ..1.		PSAASMGI	"X'02'" ASM GLOBAL LOCK INDICATOR	
		.... ..1		PSARSMCI	"X'01'" RSM STEAL LOCK INDICATOR	
762	(2FA)	BITSTRING	1	PSACLHS3	THIRD BYTE OF PSACLHS (MDC386)	
		1...		PSARSMXI	"X'80'" RSM CROSS MEMORY LOCK INDICATOR	
		..1.		PSARSMCI	"X'40'" RSM ADDRESS SPACE LOCK INDICATOR	
		..1.		PSAVPAGI	"X'20'" VSM PAGE LOCK INDICATOR	
		...1		PSADSPLI	"X'10'" DISPATCHER LOCK INDICATOR (MDC387)	
		.... 1...		PSAASMLI	"X'08'" ASM LOCK INDICATOR (MDC388)	
		.... ..1.		PSASALLI	"X'04'" SPACE ALLOCATION LOCK INDICATOR (MDC389)	
		.... ..1.		PSAIOSLI	"X'02'" IOS SYNCHRONIZATION LOCK INDICATOR (MDC390)	
763	(2FB)	BITSTRING	1	PSACLHS4	FOURTH BYTE OF PSACLHS (MDC392)	

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
		1... ..		PSAIOULI	"X'80'" IOS UCB LOCK INDICATOR (MDC393)
		..1.		PSATPNLI	"X'20'" TPNCPL LOCK INDICATOR (MDC395)
		...1		PSATPDLI	"X'10'" TPDNCB LOCK INDICATOR (MDC396)
		.... 1..		PSATPALI	"X'08'" TPACBDEB LOCK INDICATOR (MDC397)
		.... .1..		PSASRLI	"X'04'" SYSTEM RESOURCE MANAGER (SRM) LOCK INDICATOR (MDC398)
		.... ..1.		PSACMSLI	"X'02'" CROSS MEMORY SERVICES LOCK INDICATOR (MDC399)
		.... ...1		PSALCLLI	"X'01'" LOCAL LOCK INDICATOR (MDC400)
764	(2FC)	ADDRESS	4	PSALITA	"V(IEAVELT1)" ADDRESS OF LOCK INTERFACE TABLE. THIS OFFSET FIXED BY ARCHITECTURE. (MDC465)
768	(300)	BITSTRING	8	PSARV300	RESERVED
776	(308)	SIGNED	4	PSACRO	SAVE AREA FOR CONTROL REGISTER 0
780	(30C)	BITSTRING	1	PSAMCHFL	MCH RECURSION FLAGS
781	(30D)	BITSTRING	1	PSASYMSK	THIS FIELD WILL BE USED IN CONJUNCTION WITH THE STNSM INSTRUCTION TO PLACE IOS CHANNEL SCHEDULER INTO A DISABLED STATE AND SIMULTANEOUSLY SAVE THE SYSTEM MASK OF THE CALLER MDC022
782	(30E)	BITSTRING	1	PSAACTCD	ACTION CODE SUPPLIED BY OPERATOR AFTER SYSTEM HAS LOADED RESTARTABLE WAIT STATE AND BEFORE THE RESTART KEY IS DEPRESSED. VALUE DEPENDS ON RESTARTABLE WAIT STATE CODE. UNPREDICTABLE DURING NORMAL SYSTEM OPERATION. (MDC433)
783	(30F)	BITSTRING	1	PSAMCHIC	MCH INITIALIZATION COMPLETE FLAGS MDC098
784	(310)	ADDRESS	4	PSAWKRAP	REAL ADDRESS OF VARY CPU PARAMETER LIST MDC106
788	(314)	ADDRESS	4	PSAWKVAP	VIRTUAL ADDRESS OF VARY CPU PARAMETER LIST MDC107
792	(318)	SIGNED	2	PSAVSTAP	WORK AREA FOR VARY CPU MDC108
794	(31A)	SIGNED	2	PSACPUSA	PHYSICAL CPU ADDRESS (STATIC) (MDC131) YM3489
796	(31C)	SIGNED	4	PSASTOR	MASTER MEMORY'S SEGMENT TABLE ORIGIN REGISTER (STOR) VALUE
800	(320)	BITSTRING	90	PSAIDAWK	WORK SAVE AREA FOR INTERNAL DEBUG TOOL.
894	(37E)	BITSTRING	2		RESERVED
896	(380)	CHARACTER	64	PSARSVT (0)	RECOVERY STACK VECTOR TABLE MDC064
896	(380)	CHARACTER	64	PSARSVTE (0)	RECOVERY STACK VECTOR TABLE MDC065
896	(380)	ADDRESS	4	PSACSTK	ADDRESS OF CURRENTLY USED FUNCTIONAL RECOVERY ROUTINE (FRR) STACK MDC061
900	(384)	ADDRESS	4	PSANSTK	ADDRESS OF NORMAL FRR STACK MDC062
904	(388)	ADDRESS	4	PSASSTK	ADDRESS OF SVC I/O DISPATCHER FRR STACK MDC063
908	(38C)	ADDRESS	4	PSASSAV	ADDRESS OF INTERRUPTED STACK SAVED BY SVC, I/O, DISPATCHER MDC066
912	(390)	ADDRESS	4	PSAMSTK	ADDRESS OF MCH FRR STACK MDC067
916	(394)	ADDRESS	4	PSAMSAV	ADDRESS OF INTERRUPTED STACK SAVED BY MCH MDC068
920	(398)	ADDRESS	4	PSAPSTK	ADDRESS OF PROGRAM CHECK FLIH FRR STACK MDC069
924	(39C)	ADDRESS	4	PSAPSAV	ADDRESS OF INTERRUPTED STACK SAVED BY PROGRAM CHECK FLIH MDC070
928	(3A0)	ADDRESS	4	PSAESTK1	ADDRESS OF EXTERNAL FLIH FRR STACK FOR NON RECURSIVE ENTRIES MDC071
932	(3A4)	ADDRESS	4	PSAESAV1	ADDRESS OF INTERRUPTED STACK SAVED BY EXTERNAL FLIH FOR NON RECURSIVE ENTRIES MDC072
936	(3A8)	ADDRESS	4	PSAESTK2	ADDRESS OF EXTERNAL FLIH FRR STACK FOR FIRST LEVEL RECURSIONS MDC073
940	(3AC)	ADDRESS	4	PSAESAV2	ADDRESS OF INTERRUPTED STACK SAVED BY EXTERNAL FLIH FOR FIRST LEVEL RECURSIONS MDC074
944	(3B0)	ADDRESS	4	PSAESTK3	ADDRESS OF EXTERNAL FLIH FRR STACK FOR SECOND LEVEL RECURSIONS AND ACR MDC075
948	(3B4)	ADDRESS	4	PSAESAV3	ADDRESS OF INTERRUPTED STACK SAVED BY EXTERNAL FLIH FOR SECOND LEVEL RECURSIONS MDC076
952	(3B8)	ADDRESS	4	PSARSTK	ADDRESS OF RESTART FLIH FRR STACK MDC077
956	(3BC)	ADDRESS	4	PSARSAV	ADDRESS OF INTERRUPTED STACK SAVED BY RESTART FLIH MDC078
960	(3C0)	DBL WORD	8 (0)		ALIGN PSARPSW TO DOUBLE WORD MDC096
960	(3C0)	BITSTRING	8	PSASRPSW	RESUME PSW FOR STOP AND RESTART SUBROUTINE MDC096
968	(3C8)	DBL WORD	8 (0)		ALIGN PSARSPSW TO DOUBLE WORD MDC097
968	(3C8)	BITSTRING	8	PSARSPSW	RESUME PSW FIELD FOR RESTART INTERRUPT HANDLER MDC097
976	(3D0)	ADDRESS	4	PSATSTK	ADDRESS OF RTM RECOVERY STACK. SERIALIZATION: NONE THE FIELD IS INITIALIZED AT IPL/VARY CPU ONLINE TIME ONLY. OWNER: RTM.
980	(3D4)	ADDRESS	4	PSATSAV	ADDRESS OF ERROR STACK SAVED BY RTM WHEN SWITCHING TO RTM RECOVERY STACK. OWNERSHIP: RTM
984	(3D8)	ADDRESS	4	PSAASTK	ADDRESS OF ACR FRR STACK. OWNERSHIP: ACR
988	(3DC)	ADDRESS	4	PSAASAV	ADDRESS OF INTERRUPT STACK SAVED BY ACR. OWNERSHIP: ACR
992	(3E0)	DBL WORD	8 (0)		ALIGN PSARTPSW TO DOUBLE WORD

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
992	(3E0)	BITSTRING	8	PSARTPSW	RESUME PSW FOR RTM SETRP RETRY OPTION OWNERSHIP: RTM
1000	(3E8)	BITSTRING	8	PSARV3E8	RESERVED
1008	(3F0)	SIGNED	4 (0)		ALIGN PSASFACC TO FULL WORD MDC123
1008	(3F0)	BITSTRING	4	PSASFACC	SETFRR ABEND COMPLETION CODE USED WHEN A SETFRR ADD IS ISSUED AGAINST A FULL FRR STACK MDC123
1018	(3FA)	BITSTRING	1		RESERVED
1019	(3FB)	BITSTRING	1	PSAINTE	FLAGS FOR CPU TIMER (MDC466)
		1... ..		PSANUIN	"X'80'" CPU TIMER CANNOT BE USED (MDC467)
1020	(3FC)			PSARTMIM	"PSARTMIR+1,1,C'X'" LABEL FOR SYSTEM MASK USED IN ABOVE INSTRUCTION. OWNERSHIP: RTM.
1024	(400)	DBL WORD	8 (0)		ALIGN PSAPCPSW TO DOUBLE WORD YM0943
1024	(400)	BITSTRING	8	PSAPCPSW	TEMPORARY OLD PSW STORAGE FOR PROGRAM FLIH (MDC129) YM0943
1032	(408)	ADDRESS	4	PSAATCVT	ADDRESS OF VTAM ATCVT. INITIALIZED BY VTAM. (MDC300)
1036	(40C)	ADDRESS	4	PSANTCOD	CALLER SUPPLIED WAIT STATE INFORMATION FOR STOP/RESTART (MDC306)
1040	(410)	ADDRESS	4	PSASCWA	ADDRESS OF SUPERVISOR CONTROL CPU RELATED WORK SAVE AREA
1044	(414)	ADDRESS	4	PSARSMSA	ADDRESS OF RSM CPU RELATED WORK SAVE AREA
1048	(418)	DBL WORD	8 (0)		ALIGN PSASCPSW TO DOUBLE WORD (MDC325)
1048	(418)	BITSTRING	4	PSASCPSW	MODEL PSW OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: DISABLED.
1052	(41C)	ADDRESS	4		MODEL PSW SECOND HALF (MDC325)
1056	(420)	DBL WORD	8 (0)		ALIGN PSASMPSW TO DOUBLE WORD (MDC326)
1056	(420)	BITSTRING	4	PSASMPSW	SRB DISPATCH PSW (MDC326)
1060	(424)	ADDRESS	4		DISPATCH PSW SECOND HALF (MDC326)
1064	(428)	BITSTRING	64	PSARV428	RESERVED
1128	(468)	DBL WORD	8 (0)		ALIGN PSAPSHSV TO DOUBLE WORD (MDC319)
1128	(468)	BITSTRING	8	PSAPSHSV	PSW SAVE AREA FOR DISPATCHER AND ACR (MDC319)
1136	(470)	DBL WORD	8 (0)		ALIGN PSACPUT TO DOUBLE WORD (MDC328)
1136	(470)	BITSTRING	8	PSACPUT	SUPERVISOR CPU TIMER SAVE AREA (MDC328)
1144	(478)	SIGNED	4	PSAPCFUN (0)	
					PROGRAM FLIH RECURSION FLAGS (MDC613)
1144	(478)	BITSTRING	1	PSAPCFB1	FUNCTION VALUE (MDC484)
		.... .1		PSAPCMC	"X'01'" MC INTERRUPT (MDC605)
		.... .1		PSAPCPF	"X'02'" PAGE FAULT (MDC486)
		.... .11		PSAPCPS	"X'03'" PER/SPACE SWITCH INTERRUPT
		.... .1.		PSAPCAD	"X'04'" ADDRESSING EXCEPTION (MDC488)
		.... .1.1		PSAPCTR	"X'05'" TRANSLATION EXCEPTION (MDC489)
		.... .11.		PSAPCPC	"X'06'" PROGRAM CHECK (MDC490)
		.... .111		PSAPCTRC	"X'07'" TRACE INTERRUPT
		.... 1..		PSAPCVF	"X'08'" VECTOR OPERATION EXCEPTION
		.... 1...		PSAPCMAX	"X'08'" MAXIMUM VALID FUNCTION VALUE
1145	(479)	BITSTRING	1	PSAPCFB2	FUNCTION FLAGS (MDC491)
		.1..		PSAPCMT	"X'40'" TRACE RECURSION FLAG (MDC493)
1146	(47A)	BITSTRING	1	PSAPCFB3	RECURSION FLAGS (MDC494)
		1...		PSAPCP1	"X'80'" FIRST LEVEL PROGRAM CHECK (MDC495)
		.1.		PSAPCP2	"X'40'" SECOND LEVEL PROGRAM CHECK (MDC496)
		.1.		PSAPCDE	"X'20'" DAT ERROR CONDITION (MDC497)
		...1		PSAPCLV	"X'10'" 0=REGISTERS IN LCCA, 1=REGISTERS NOT IN LCCA. (MDC498)
		.... 1..		PSAPCP3	"X'08'" THIRD LEVEL PROGRAM CHECK (MDC604)
		.... .1..		PSAPCP4	"X'04'" FOURTH LEVEL PROGRAM CHECK (MDC604)
1147	(47B)	BITSTRING	1	PSAPCFB4	RESERVED PROGRAM FLIH RECURSION BYTE
1148	(47C)	SIGNED	2	PSAPCPS2	PASID AT TIME OF SECOND LEVEL INTERRUPT (MDC604)
1150	(47E)	SIGNED	2	PSAPCPS3	PASID AT TIME OF THIRD LEVEL INTERRUPT (MDC604)
1152	(480)	SIGNED	2	PSAPCPS4	PASID AT TIME OF FOURTH LEVEL INTERRUPT
1154	(482)	BITSTRING	2		RESERVED
1156	(484)	BITSTRING	24	PSARV484	RESERVED
1180	(49C)	SIGNED	4	PSAMODEW (0)	
					WORD LABEL TO ADDRESS PSAMODE. THIS OFFSET FIXED BY ARCHITECTURE. (MDC383)
1180	(49C)	BITSTRING	1		RESERVED FIRST BYTE OF PSAMODEW
1181	(49D)	BITSTRING	1	PSAMFLGS	SECOND BYTE OF PSAMODEW (MDC604)

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
		1... ..		PSANSS	"X'80'" ENABLED UNLOCKED TASK WITH FRR (MDC605)
1182	(49E)	BITSTRING	1	PSAMODEH	SECOND HALFWORD OF PSAMODEW. FIRST BYTE MUST BE ZERO FOR I/O AND EXTERNAL FLIHS. (MDC613)
1183	(49F)	BITSTRING	1	PSAMODE	SYSTEM MODE INDICATOR AND DISPLACEMENT INTO TABLES FOR EXTERNAL AND I/O FLIHS
		.... ..		PSATASKM	"X'00'" TASK MODE VALUE (MDC338)
		.... .1..		PSASRBM	"X'04'" SRB MODE VALUE (MDC339)
		.... 1...		PSAWAITM	"X'08'" WAIT MODE VALUE (MDC340)
		...1		PSADISPM	"X'10'" DISPATCHER MODE VALUE (MDC342)
		..1.		PSAPSRBM	"X'20'" PSEUDO SRB MODE FLAG BIT. THIS BIT MAY BE ON WITH ANY OF ABOVE MODE VALUES. (MDC343)
1184	(4A0)	BITSTRING	3		RESERVED
1187	(4A3)	BITSTRING	1	PSASTNSM	STNSM TARGET USED BY EXIT PROLOGUE (MDC346)
1188	(4A4)	SIGNED	4	PSALKJW	LOCAL LOCK RELEASE SRB JOURNAL WORD (MDC612)
1192	(4A8)	DBL WORD	8	PSADZERO (0)	DOUBLEWORD OF ZERO (MDC612)
1192	(4A8)	SIGNED	4	PSAFZERO	FULLWORD OF ZERO (MDC612)
1196	(4AC)	SIGNED	4		FULLWORD OF ZERO (MDC612)
1200	(4B0)	SIGNED	4	PSALKJW2	CMS LOCK RELEASE JOURNAL WORD. (MDC613)
1204	(4B4)	ADDRESS	4	PSALKPT	"V(IEALKPT)" SETLOCK TEST,TYPE=HIER PARAMETER LIST TABLE. OWNERSHIP: LOCK MANAGER. SERIALIZATION: NONE.
1208	(4B8)	BITSTRING	208	PSARV4B8	RESERVED
1416	(588)	BITSTRING	1	PSAHWFB	HARDWARE FLAG BYTE.
1417	(589)	BITSTRING	1	PSACROCB	CRO CONTROL BYTE USED BY PROTPSA MACRO (MDC425)
		...1		PSAENABL	"X'10'" TO ENABLE PSA PROTECTION (MDC428)
		.... ....		PSADSABL	"X'00'" TO DISABLE PSA PROTECTION (MDC429)
1418	(58A)	BITSTRING	2		RESERVED
1420	(58C)	SIGNED	4	PSACROSV	CRO SAVE AREA USED BY PROTPSA MACRO (MDC426)
		...1		PSACROEN	"X'10'" IF 0, PSA PROTECT DISABLED. IF 1, PSA PROTECT ENABLED. BIT IS IN HIGH ORDER BYTE OF PSACROSV. (MDC432)
1424	(590)	SIGNED	4	PSAPCCRO	PROGRAM CHECK FLIH CRO SAVE AREA (MDC427)
1428	(594)	SIGNED	4	PSARCRO	RESTART FLIH CRO SAVE AREA (MDC434)
		...1		PSARPEN	"X'10'" IF 0, PSA PROTECT DISABLED. IF 1, PSA PROTECT ENABLED. BIT IS IN HIGH ORDER BYTE OF PSARCRO. (MDC435)
1432	(598)	DBL WORD	8	PSASTKE (0)	STACK CONTROL WORD (MDC604)
1432	(598)	SIGNED	2	PSATKN	CURRENT STACK TOKEN (MDC610)
1434	(59A)	SIGNED	2	PSAASD	CURRENT STACK ADDRESS SPACE DESIGNATOR (MDC610)
1436	(59C)	SIGNED	4	PSASEL	CURRENT STACK ELEMENTS ADDRESS (MDC610)
1440	(5A0)	DBL WORD	8 (0)		ALIGN PSASKPSW TO A DOUBLEWORD (MDC604)
1440	(5A0)	BITSTRING	4	PSASKPSW	PCLINK STACK/UNSTACK MODEL PSW (MDC604)
1444	(5A4)	ADDRESS	4	PSASKPS2	PCLINK PSW ADDRESS (MDC604)
1448	(5A8)	DBL WORD	8 (0)		ALIGN PSAIOXMS TO A DOUBLEWORD
1448	(5A8)	BITSTRING	8	PSAIOXMS	I/O FLIH CONTROL REGISTER 3 AND 4 SAVE AREA
1456	(5B0)	BITSTRING	8	PSARV5B0	RESERVED (MDC610)
1464	(5B8)	BITSTRING	1	PSASCFB	SUPERVISOR CONTROL FLAG BYTE.
		1... ..		PSAIOPR	"X'80'" INDICATES IF INTERRUPTED TASK SHOULD BE PREEMPTED. USED BY THE I/O FLIH.
		.1..		PSAIORTY	"X'40'" I/O FLIH RECOVERY FLAG. IF 1, CONTINUE RETRY PROCESSING INSTEAD OF ABENDING
1465	(5B9)	BITSTRING	3		RESERVED
1468	(5BC)	BITSTRING	156	PSARV5BC	RESERVED
1624	(658)	DBL WORD	8	PSATIME	SPECIFIED TIME LIMIT IF SRB BEING TIMED ELSE 0. (MDC613)
1632	(660)	SIGNED	4	PSASRSV	ADDRESS OF CURRENT FRR STACK SAVED BY STOP/RESET. (MDC605)
1636	(664)	BITSTRING	12	PSARV664	RESERVED
1648	(670)	DBL WORD	8	PSADXMSI (0)	DISPATCHER CONTROL REGISTER 3 AND 4 IMAGE
1648	(670)	SIGNED	4	PSADCR3I (0)	DISPATCHER CONTROL REGISTER 3 IMAGE
1648	(670)	SIGNED	2	PSADPKMI	PKM IMAGE
1650	(672)	SIGNED	2	PSADSASI	SECONDARY ASID

OFFSETS	DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
	1652	(674)	SIGNED	4	PSADCR4I (0)	DISPATCHER CONTROL REGISTER 4 IMAGE
	1652	(674)	SIGNED	2	PSADAXI	AUTHORIZATION INDEX
	1654	(676)	SIGNED	2	PSADPASI	PRIMARY ASID
	1656	(678)	BITSTRING	64	PSARV678	RESERVED
	1720	(6B8)	DBL WORD	8	PSADXMSV (0)	DISPATCHER CONTROL REGISTER 3 AND 4 SAVE AREA (MDC610)
	1720	(6B8)	SIGNED	4	PSADCR3 (0)	DISPATCHER CONTROL REGISTER 3 SAVE AREA (MDC610)
	1720	(6B8)	SIGNED	2	PSADPKM	DISPATCHER PROGRAM KEY MASK SAVE AREA (MDC610)
	1722	(6BA)	SIGNED	2	PSADSA	DISPATCHER SECONDARY ASID SAVE AREA (MDC610)
	1724	(6BC)	SIGNED	4	PSADCR4 (0)	DISPATCHER CONTROL REGISTER 4 SAVE AREA (MDC610)
	1724	(6BC)	SIGNED	2	PSADAX	DISPATCHER AUTHORIZATION INDEX SAVE AREA. (MDC613)
	1726	(6BE)	SIGNED	2	PSADPAS	DISPATCHER PRIMARY ASID SAVE AREA. (MDC610)
	1728	(6C0)	DBL WORD	8	PSADTSAV	DISPATCHER CPU TIMER SAVE AREA (MDC610)
	1728	(6C0)	BITSTRING	1	PSAFF6C0	INITIALIZE FIELD PSADTSAV
	1736	(6C8)	DBL WORD	8	PSAUSEND (0)	END FIRST SET OF ASSIGNED FIELDS SAVED BY ACR.
	1736	(6C8)	BITSTRING	232	PSARV6C8	RESERVED
	1968	(7B0)	DBL WORD	8 (0)		ALIGN PSADATLK ON DOUBLE WORD
	1968	(7B0)	BITSTRING	1	PSADATLK (48)	AREA FOR DAT OFF ASSIST LINKAGE CODE
	2016	(7E0)	ADDRESS	4	PSADATOF	REAL STORAGE ADDRESS OF THE DAT OFF LINKAGE TABLE WHICH IS INITIALIZED BY NIP FOR DAT ON/DAT OFF LINKAGE
	2020	(7E4)	SIGNED	4	PSADATLN	LENGTH OF THE DAT OFF INDEX TABLE (IEAVEDFT)
	2024	(7E8)	BITSTRING	4	PSARV7E8	RESERVED FOR SYSTEM TRACE.
	2024	(7E8)	BITSTRING	1	PSAFF7E8	INITIALIZE FIELD PSARV7E8
	2028	(7EC)	BITSTRING	1	PSATRACE	SYSTEM TRACE FLAGS.
			1... ..		PSATROFF	"X'80'" IF ON, SYSTEM TRACE SUSPENDED ON THIS PROCESSOR BECAUSE WAIT TASK DISPATCHED.
	2029	(7ED)	BITSTRING	3		RESERVED FOR SYSTEM TRACE.
	2032	(7F0)	ADDRESS	4	PSATBVTR	REAL ADDRESS OF SYSTEM TRACE BUFFER VECTOR TABLE (TBVT) REPRESENTING THE CURRENT SYSTEM TRACE BUFFER FOR THIS PROCESSOR. OWNERSHIP: SYSTEM TRACE. SERIALIZATION: DISABLEMENT FOR EXTERNAL INTERRUPTS ON THIS PROCESSOR OR THE TRACE SPIN LOCK.
	2036	(7F4)	ADDRESS	4	PSATBVTV	VIRTUAL ADDRESS CORRESPONDING TO PSATBVTR.
	2040	(7F8)	ADDRESS	4	PSATRVTV	"V(IEAVETVT)" ADDRESS OF SYSTEM TRACE VECTOR TABLE.
	2044	(7FC)	ADDRESS	4	PSATOT	"V(IEAVETOT)" ADDRESS OF SYSTEM TRACE OPERAND TABLE.

FETCH PROTECTED KEY 0 AREA
 LOCATIONS 800 TO FFF HEX

	2048	(800)	DBL WORD	8	PSAUS2ST (0)	START SECOND SET OF ASSIGNED FIELDS SAVED BY ACR.
	2048	(800)	BITSTRING	16	PSACDSAV (0)	CALLDISP REGISTER SAVE AREA FOR REGISTERS 14 1
	2048	(800)	SIGNED	4	PSACDSAE	CALLDISP REGISTER 14 SAVE AREA
	2052	(804)	SIGNED	4	PSACDSAF	CALLDISP REGISTER 15 SAVE AREA
	2056	(808)	SIGNED	4	PSACDSA0	CALLDISP REGISTER 0 SAVE AREA
	2060	(80C)	SIGNED	4	PSACDSA1	CALLDISP REGISTER 1 SAVE AREA
	2064	(810)	SIGNED	4	PSAGSPSW	GLOBAL SCHEDULE SYSTEM MASK SAVE AREA. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: DISABLEMENT.
	2068	(814)	SIGNED	4	PSAGSRGS	GLOBAL SCHEDULE REGISTER SAVE AREA. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: DISABLEMENT.
	2072	(818)	BITSTRING	12	PSARV818	RESERVED
	2084	(824)	SIGNED	4	PSAEMS2R	REGISTER SAVE AREA OWNERSHIP: MEMORY SWITCH. SERIALIZATION: DISABLED.
	2088	(828)	BITSTRING	64	PSATRSV (0)	TRACE REGISTER SAVE AREA.
	2088	(828)	SIGNED	4	PSATRGR0	TRACE REGISTER 0 SAVE AREA.
	2092	(82C)	SIGNED	4	PSATRGR1	TRACE REGISTER 1 SAVE AREA.
	2096	(830)	SIGNED	4	PSATRGR2	TRACE REGISTER 2 SAVE AREA.
	2100	(834)	SIGNED	4	PSATRGR3	TRACE REGISTER 3 SAVE AREA.
	2104	(838)	SIGNED	4	PSATRGR4	TRACE REGISTER 4 SAVE AREA.
	2108	(83C)	SIGNED	4	PSATRGR5	TRACE REGISTER 5 SAVE AREA.
	2112	(840)	SIGNED	4	PSATRGR6	TRACE REGISTER 6 SAVE AREA.
	2116	(844)	SIGNED	4	PSATRGR7	TRACE REGISTER 7 SAVE AREA.

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
2120	(848)	SIGNED	4	PSATRGR8	TRACE REGISTER 8 SAVE AREA.
2124	(84C)	SIGNED	4	PSATRGR9	TRACE REGISTER 9 SAVE AREA.
2128	(850)	SIGNED	4	PSATRGRA	TRACE REGISTER 10 SAVE AREA.
2132	(854)	SIGNED	4	PSATRGRB	TRACE REGISTER 11 SAVE AREA.
2136	(858)	SIGNED	4	PSATRGRC	TRACE REGISTER 12 SAVE AREA.
2140	(85C)	SIGNED	4	PSATRGRD	TRACE REGISTER 13 SAVE AREA.
2144	(860)	SIGNED	4	PSATRGRE	TRACE REGISTER 14 SAVE AREA.
2148	(864)	SIGNED	4	PSATRGRF	TRACE REGISTER 15 SAVE AREA.
2152	(868)	DBL WORD	8 (0)		ALIGN PSAIOGPR TO DOUBLE WORD
2152	(868)	BITSTRING	64	PSAIOGPR	I/O FLIH REGISTER SAVE AREA
2152	(868)	BITSTRING	1	PSAFF868 (10)	INITIALIZE FIELD PSAIOGPR ALIGN PSAGSAV TO DOUBLE WORD
2216	(8A8)	DBL WORD	8 (0)		ALIGN PSAGSAV TO DOUBLE WORD
2216	(8A8)	BITSTRING	64	PSAGSAV	REGISTER SAVE AREA USED BY DISPATCHER AND SCHEDULE
2216	(8A8)	BITSTRING	1	PSAFF8A8 (10)	INITIALIZE FIELD PSAGSAV
2280	(8E8)	SIGNED	4	PSASCRG1	GLOBAL SCHEDULE REGISTER SAVE AREA
2284	(8EC)	SIGNED	4	PSASCRG2	GLOBAL SCHEDULE REGISTER SAVE AREA
2288	(8F0)	SIGNED	4	PSAGPREG (3)	REGISTER SAVE AREA FOR SVC FLIH AND SCHEDULE
2300	(8FC)	SIGNED	4	PSARSREG	RESTART FLIH REGISTER SAVE
2304	(900)	SIGNED	4	PSAPCGR8	PROGRAM FLIH REGISTER 8 SAVE AREA
2308	(904)	SIGNED	4	PSAPCGR9	PROGRAM FLIH REGISTER 9 SAVE AREA
2312	(908)	SIGNED	4	PSAPCGRA	PROGRAM FLIH REGISTER 10 SAVE AREA
2316	(90C)	SIGNED	4	PSAPCGRB	PROGRAM FLIH REGISTER 11 SAVE AREA
2320	(910)	DBL WORD	8 (0)		ALIGN PSALKSA TO DOUBLE WORD
2320	(910)	BITSTRING	64	PSALKSA (0)	IEAVELK REGISTER SAVE AREA OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: DISABLEMENT
2320	(910)	SIGNED	4	PSALKR0	IEAVELK REGISTER 0 SAVE AREA
2324	(914)	SIGNED	4	PSALKR1	IEAVELK REGISTER 1 SAVE AREA
2328	(918)	SIGNED	4	PSALKR2	IEAVELK REGISTER 2 SAVE AREA
2332	(91C)	SIGNED	4	PSALKR3	IEAVELK REGISTER 3 SAVE AREA
2336	(920)	SIGNED	4	PSALKR4	IEAVELK REGISTER 4 SAVE AREA
2340	(924)	SIGNED	4	PSALKR5	IEAVELK REGISTER 5 SAVE AREA
2344	(928)	SIGNED	4	PSALKR6	IEAVELK REGISTER 6 SAVE AREA
2348	(92C)	SIGNED	4	PSALKR7	IEAVELK REGISTER 7 SAVE AREA
2352	(930)	SIGNED	4	PSALKR8	IEAVELK REGISTER 8 SAVE AREA
2356	(934)	SIGNED	4	PSALKR9	IEAVELK REGISTER 9 SAVE AREA
2360	(938)	SIGNED	4	PSALKR10	IEAVELK REGISTER 10 SAVE AREA
2364	(93C)	SIGNED	4	PSALKR11	IEAVELK REGISTER 11 SAVE AREA
2368	(940)	SIGNED	4	PSALKR12	IEAVELK REGISTER 12 SAVE AREA
2372	(944)	SIGNED	4	PSALKR13	IEAVELK REGISTER 13 SAVE AREA
2376	(948)	SIGNED	4	PSALKR14	IEAVELK REGISTER 14 SAVE AREA
2380	(94C)	SIGNED	4	PSALKR15	IEAVELK REGISTER 15 SAVE AREA
2384	(950)	DBL WORD	8 (0)		ALIGN PSASLSA TO DOUBLE WORD
2384	(950)	BITSTRING	72	PSASLSA	SINGLE LEVEL SAVE AREA USED BY DISABLED ROUTINES WITH NO DEPENDENCY THAT THE SAVE AREA REMAIN INTACT ACROSS A CALL. THIS AREA IS NOT MAINTAINED BY RESTART PROCESSING THAT RESULTS IN AN ABEND OF OF THE INTERRUPTED ROUTINE.
2384	(950)	BITSTRING	1	PSAFF950 (12)	INITIALIZE FIELD PSASLSA
2456	(998)	BITSTRING	64	PSAJSTSA	SAVE AREA FOR JOB STEP TIMING ROUTINE. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: DISABLEMENT.
2456	(998)	BITSTRING	1	PSAFF998 (10)	INITIALIZE FIELD PSAJSTSA
2520	(9D8)	DBL WORD	8	PSAUS2ND (0)	END SECOND SET OF ASSIGNED FIELDS SAVED BY ACR.
2520	(9D8)	DBL WORD	8 (0)		ALIGN PSASLKSA TO DOUBLE WORD
2520	(9D8)	BITSTRING	64	PSASLKSA (0)	IEAVESLK REGISTER SAVE AREA OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: DISABLEMENT
2520	(9D8)	SIGNED	4	PSASLKR0	IEAVESLK REGISTER 0 SAVE AREA
2524	(9DC)	SIGNED	4	PSASLKR1	IEAVESLK REGISTER 1 SAVE AREA
2528	(9E0)	SIGNED	4	PSASLKR2	IEAVESLK REGISTER 2 SAVE AREA
2532	(9E4)	SIGNED	4	PSASLKR3	IEAVESLK REGISTER 3 SAVE AREA
2536	(9E8)	SIGNED	4	PSASLKR4	IEAVESLK REGISTER 4 SAVE AREA
2540	(9EC)	SIGNED	4	PSASLKR5	IEAVESLK REGISTER 5 SAVE AREA
2544	(9F0)	SIGNED	4	PSASLKR6	IEAVESLK REGISTER 6 SAVE AREA
2548	(9F4)	SIGNED	4	PSASLKR7	IEAVESLK REGISTER 7 SAVE AREA
2552	(9F8)	SIGNED	4	PSASLKR8	IEAVESLK REGISTER 8 SAVE AREA
2556	(9FC)	SIGNED	4	PSASLKR9	IEAVESLK REGISTER 9 SAVE AREA

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
2560	(A00)	SIGNED	4	PSASLKRA	IEAVESLK REGISTER 10 SAVE AREA
2564	(A04)	SIGNED	4	PSASLKRB	IEAVESLK REGISTER 11 SAVE AREA
2568	(A08)	SIGNED	4	PSASLKRC	IEAVESLK REGISTER 12 SAVE AREA
2572	(A0C)	SIGNED	4	PSASLKRD	IEAVESLK REGISTER 13 SAVE AREA
2576	(A10)	SIGNED	4	PSASLKRE	IEAVESLK REGISTER 14 SAVE AREA
2580	(A14)	SIGNED	4	PSASLKRF	IEAVESLK REGISTER 15 SAVE AREA
2584	(A18)	BITSTRING	36	PSARVA18	RESERVED
2620	(A3C)	BITSTRING	256	PSARVA3C	RESERVED
2876	(B3C)	ADDRESS	4	PSAGSCH7	"V(IEAVESC7)" ENABLED GLOBAL SCHEDULE ENTRY POINT
2880	(B40)	ADDRESS	4	PSAGSCH8	"V(IEAVESC8)" DISABLED GLOBAL SCHEDULE ENTRY POINT
2884	(B44)	ADDRESS	4	PSALSCH1	"V(IEAVESC1)" ENABLED SCHEDULE ENTRY POINT (MDC371)
2888	(B48)	ADDRESS	4	PSALSCH2	"V(IEAVESC2)" DISABLED SCHEDULE ENTRY POINT (MDC372)
2892	(B4C)	ADDRESS	4	PSASVT	"V(IEAVESVT)" ADDRESS OF SUPERVISOR VECTOR TABLE (MDC373)
2896	(B50)	BITSTRING	88	PSARVB50	RESERVED
2984	(BA8)	SIGNED	4	PSAXSTK	OFFSET TO AND LENGTH OF THE ARRAY OF FRR STACK EXTENSION ENTRIES FROM THE START OF THE FRR STACK. THIS OFFSET FIXED BY ARCHITECTURE.
2988	(BAC)	BITSTRING	84	PSARVBAC	RESERVED
3072	(C00)	DBL WORD	8 (0)		ALIGN PSASTAK TO DOUBLE WORD MDC118
3072	(C00)	BITSTRING	1	PSASTAK (192)	NORMAL FRR STACK
3776	(EC0)	BITSTRING	1 (64)		RESERVED FOR EXPANSION OF PSASTAK
4096	(1000)	DBL WORD	8	PSAEND (0)	END OF PSA (MDC612)

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
EXCODE	86	86	PSACDSAV	800		PSAFF8A8	8A8	FFFF
EXNPSW	5C	58	PSACDSA0	808	FFFF	PSAFF868	868	FFFF
EXOPSW	18	18	PSACDSA1	80C	FFFF	PSAFF950	950	FFFF
FLC	0	0	PSACLHS	2F8		PSAFF998	998	FFFF
FLCCRSV	1C0	0	PSACLHS1	2F8	0	PSAFZERO	4A8	0
FLCCVT	10		PSACLHS2	2F9	0	PSAGPREG	8F0	FFFF
FLCCVT2	4C		PSACLHS3	2FA	0	PSAGSAV	8A8	
FLCEICOD	86	0	PSACLHS4	2FB	0	PSAGSCH7	B3C	
FLCENPSW	58	40C	PSACLHT	280		PSAGSCH8	B40	
FLCEOPSW	18	0	PSACLHT1	280		PSAGSPSW	810	FFFF
FLCFLA	100	0	PSACLHT2	2D0		PSAGSRGS	814	FFFF
FLCFPSV	160	0	PSACLHT3	2E0		PSAHLHI	2F8	
FLCFSA	F8		PSACLHT4	2E8		PSAHLHIS	274	0
FLCGRSAV	180	0	PSACMSL	2E8		PSAHWFB	588	0
FLCHDEND	200		PSACMSLI	2FB	2	PSAIDANK	320	0
FLCICCW1	8		PSACPUL	2E0		PSAINTE	3FB	0
FLCICCW2	10		PSACPULA	206	0	PSAIO	228	80
FLCINPSW	78	40C	PSACPULI	2F8	80	PSAIOGPR	868	
FLCIOCDP	B8		PSACPUPA	204	0	PSAIOPR	5B8	80
FLCIOFP	BC	0	PSACPUSA	31A	0	PSAIORTY	5B8	40
FLCIOPSW	38	0	PSACPUT	470	0	PSAIOSLI	2FA	2
FLCIPPSW	0		PSACRO	308	0	PSAIOSSL	28C	
FLCMCIC	E8	0	PSACROCB	589	0	PSAIOSUL	294	
FLCMCNUM	95	0	PSACROEN	58C	10	PSAIOSUP	22A	80
FLCMNPSW	70	8	PSACROSV	58C	0	PSAIOULI	2FB	80
FLCMOPSW	30	0	PSACSTK	380		PSAIOXMS	5A8	0
FLCMTRCD	9D	0	PSADATLK	7B0	0	PSAIPCRI	229	80
FLCPER	98		PSADATLN	7E4	FFFF	PSAIPCSM	268	269
FLCPERCD	96	0	PSADATOF	7E0		PSAJJSTA	998	0
FLCPICOD	8E		PSADAX	6BC	FFFF	PSALCCAR	214	
FLCPIILC	8D	0	PSADAXI	674	FFFF	PSALCCAV	210	
FLCPILCB	8D	7	PSADCR3	6B8		PSALCLLI	2FB	1
FLCPNPSW	68	E	PSADCR3I	670		PSALCPLA	2F4	
FLCPOPSW	28	0	PSADCR4	6BC		PSALCR	229	1
FLCRNPSW	0	40E	PSADCR4I	674		PSALDWT	22B	80
FLCROPSW	8	0	PSADISP	228	4	PSALITA	2FC	
FLCSID	B8	0	PSADISPL	280		PSALKJM	4A4	0
FLCSILCB	89	7	PSADISPM	49F	10	PSALKJW2	4B0	0
FLCSNPSW	60	40C	PSADPAS	6BE	FFFF	PSALKPT	4B4	
FLCSOPSW	20	0	PSADPASI	676	FFFF	PSALKR0	910	FFFF
FLCSVCN	8A	0	PSADPKM	6B8	FFFF	PSALKR1	914	FFFF
FLCSVILC	89	0	PSADPKMI	670	FFFF	PSALKR10	938	FFFF
FLCTEA	90		PSADSABL	589	0	PSALKR11	93C	FFFF
FLCTEAXM	90	80	PSADSAS	6BA	FFFF	PSALKR12	940	FFFF
IEATCBP	218	218	PSADSASI	672	FFFF	PSALKR13	944	FFFF
IONPSW	7C	78	PSADSPLI	2FA	10	PSALKR14	948	FFFF
IOPSW	38	38	PSADTSV	6C0		PSALKR15	94C	FFFF
IPLPSW	4	0	PSADXMSI	670		PSALKR2	918	FFFF
MCNPSW	74	70	PSADXMSV	6B8		PSALKR3	91C	FFFF
MCOPSW	30	30	PSADZERO	4A8		PSALKR4	920	FFFF
PICODE	8E	8E	PSAEEPSW	84		PSALKR5	924	FFFF
PIILC	8D	8D	PSAEMS2M	26C	26D	PSALKR6	928	FFFF
PINPSW	6C	68	PSAEMS2R	824	FFFF	PSALKR7	92C	FFFF
PIOPSW	28	28	PSAENABL	589	10	PSALKR8	930	FFFF
PSAACR	229	4	PSAEND	1000		PSALKR9	934	FFFF
PSAACTCD	30E	0	PSAEPARM	80	0	PSALKSA	910	
PSAANEW	220		PSAEPPSW	8C		PSALKS1	2C8	13
PSAAOLD	224		PSAESAR	22B	20	PSALKS2	2D4	2
PSAASAV	3DC		PSAESAV1	3A4		PSALKS3	2E0	1
PSAASD	59A	0	PSAESAV2	3AC		PSALKS4	2EC	2
PSAASMG1	2F9	2	PSAESAV3	3B4		PSALOCAL	2EC	
PSAASMG2	2B4		PSAESPSW	88		PSALOCK	228	8
PSAASML	284		PSAESTA	22A	8	PSALSCH1	B44	
PSAASMLI	2FA	8	PSAESTK1	3A0		PSALSCH2	B48	
PSAASK	3D8		PSAESTK2	3A8		PSALSVC1	23E	0
PSAATCVT	408		PSAESTK3	3B0		PSAMCHEX	258	0
PSAAXP	23C	80	PSAEXT	228	20	PSAMCHFL	30C	0
PSACDSAE	800	FFFF	PSAFF6C0	6C0	FFFF	PSAMCHIC	30F	0
PSACDSAF	804	FFFF	PSAFF7E8	7E8	FFFF	PSAMFLGS	49D	0

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
PSAMODE	49F	0	PSARSMLI	2F8	8	PSASLKSA	9D8	
PSAMODEH	49E	0	PSARSMSA	414		PSASLSA	950	
PSAMODEM	49C		PSARSMSI	2F9	1	PSASMF	22B	40
PSAMPL	A4		PSARSMSL	2B8		PSASMPSW	420	70C
PSAMPSW	250	C	PSARSMXI	2FA	80	PSASNSM2	27A	0
PSAMSAV	394		PSARSXML	2BC		PSASPAD	84	0
PSAMSTK	390		PSARSPSW	3C8	0	PSASPR	22A	10
PSANSS	49D	80	PSARSREG	8FC	FFFF	PSASRBM	49F	4
PSANSTK	384		PSARSSM	279	0	PSASRMLI	2FB	4
PSANJIN	3FB	80	PSARSTK	3B8		PSASRPSW	3C0	0
PSAOPTL	2A8		PSARSVT	380		PSASRSA	27C	
PSAPCAD	478	4	PSARSVTE	380		PSASRSAV	660	FFFF
PSAPCCAR	20C		PSARTM	229	2	PSASSAV	38C	
PSAPCCAV	208		PSARTM1M	3FC	3FD	PSASSTK	388	
PSAPCCRO	590	0	PSARTM1S	27B	0	PSASTAK	C00	0
PSAPCDE	47A	20	PSARTPSW	3E0	0	PSASTKE	598	
PSAPCFB1	478	0	PSARVA18	A18	0	PSASTNSM	4A3	0
PSAPCFB2	479	0	PSARVA3C	A3C	0	PSASTOR	31C	0
PSAPCFB3	47A	0	PSARVBAC	BAC	0	PSASTSSM	270	271
PSAPCFB4	47B	0	PSARVB50	B50	0	PSASUPER	228	
PSAPCFUN	478		PSARVLK0	290		PSASUP1	228	0
PSAPCGRA	908	FFFF	PSARVLK1	298		PSASUP2	229	0
PSAPCGRB	90C	FFFF	PSARVLK2	2CC		PSASUP3	22A	0
PSAPCGR8	900	FFFF	PSARVLK3	2D8		PSASUP4	22B	0
PSAPCGR9	904	FFFF	PSARVLK4	2DC		PSASVC	228	40
PSAPCLV	47A	10	PSARVLK5	2E4		PSASVCR	229	40
PSAPCMAX	478	8	PSARVLK6	2F0		PSASVCRR	229	20
PSAPCMC	478	1	PSARV22C	22C	0	PSASVT	B4C	
PSAPCMT	479	40	PSARV240	240	0	PSASYMSK	300	0
PSAPCPC	478	6	PSARV3E8	3E8	0	PSATASKM	49F	0
PSAPCPF	478	2	PSARV300	300	0	PSATBVTR	7F0	
PSAPCPS	478	3	PSARV4B8	4B8	0	PSATBVTV	7F4	
PSAPCPSW	400	0	PSARV428	428	0	PSATCTL	228	2
PSAPCPS2	47C	0	PSARV484	484	0	PSATIME	658	0
PSAPCPS3	47E	0	PSARV5BC	5BC	0	PSATKN	598	0
PSAPCPS4	480	0	PSARV5B0	5B0	0	PSATNEW	218	
PSAPCP1	47A	80	PSARV6C8	6C8	0	PSATOLD	21C	
PSAPCP2	47A	40	PSARV664	664	0	PSATOT	7FC	
PSAPCP3	47A	8	PSARV678	678	0	PSATPACL	2A4	
PSAPCP4	47A	4	PSARV7E8	7E8		PSATPALI	2FB	8
PSAPCTR	478	5	PSARV818	818	0	PSATPDLI	2FB	10
PSAPCTRC	478	7	PSASALCL	288		PSATPDNL	2A0	
PSAPCVF	478	8	PSASALLI	2FA	4	PSATPNCL	29C	
PSAPEXM	250	1	PSASCFB	5B8	0	PSATPNLI	2FB	20
PSAPI	228	10	PSASCPSW	418	C	PSATRACE	7EC	0
PSAPICOD	8F	0	PSASCGR1	8E8	FFFF	PSATRCEI	2F8	4
PSAPIMC	8F	40	PSASCGR2	8EC	FFFF	PSATRCEL	2D4	
PSAPIOM	250	2	PSASCWA	410		PSATRCEX	2D4	80
PSAPIPC	8F	3F	PSASEL	59C	0	PSATRGRA	850	FFFF
PSAPIPER	8F	80	PSASFACC	3F0	8007	PSATRGRB	854	FFFF
PSAPSA	200	D7E2	PSASKPSW	5A0	C	PSATRGRC	858	FFFF
PSAPSAV	39C		PSASKPS2	5A4		PSATRGRD	85C	FFFF
PSAPSRBM	49F	20	PSASLIP	22A	1	PSATRGRE	860	FFFF
PSAPSTK	398		PSASLKRA	A00	FFFF	PSATRGRF	864	FFFF
PSAPSWV	468	0	PSASLKR8	A04	FFFF	PSATRGR0	828	FFFF
PSAPTYPE	23C	0	PSASLKRC	A08	FFFF	PSATRGR1	82C	FFFF
PSARCRO	594	0	PSASLKRD	A0C	FFFF	PSATRGR2	830	FFFF
PSARECUR	278	0	PSASLKRE	A10	FFFF	PSATRGR3	834	FFFF
PSARPEN	594	10	PSASLKR4	A14	FFFF	PSATRGR4	838	FFFF
PSARSAV	3BC		PSASLKR0	9D8	FFFF	PSATRGR5	83C	FFFF
PSARSM	22A	4	PSASLKR1	9DC	FFFF	PSATRGR6	840	FFFF
PSARSMAI	2FA	40	PSASLKR2	9E0	FFFF	PSATRGR7	844	FFFF
PSARSMAL	2C0		PSASLKR3	9E4	FFFF	PSATRGR8	848	FFFF
PSARSMCI	2F9	10	PSASLKR4	9E8	FFFF	PSATRGR9	84C	FFFF
PSARSMCL	2C8		PSASLKR5	9EC	FFFF	PSATROFF	7EC	80
PSARSMEX	2D0	80	PSASLKR6	9F0	FFFF	PSATRSVAV	828	
PSARSMGI	2F9	8	PSASLKR7	9F4	FFFF	PSATRV	7F8	
PSARSMGL	2AC		PSASLKR8	9F8	FFFF	PSATSAV	3D4	
PSARSML	2D0		PSASLKR9	9FC	FFFF	PSATSTK	3D0	

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
PSATYPE6	228	1	PSAVPAGI	2FA	20	PSAWTCOD	40C	
PSAULCMS	22A	2	PSAVPAGL	2C4		PSAXSTK	BA8	FFFF
PSAUSEND	6C8		PSAVSTAP	318	0	SVCILC	89	89
PSAUS2ND	9D8		PSAWAITM	49F	8	SVCNPSW	64	60
PSAUS2ST	800		PSAWKRAP	310		SVCNUM	8A	8A
PSAVFIXI	2F9	4	PSAWKVAP	314		SVCOPSW	20	20
PSAVFIXL	2B0							

PSCB

COMMON NAME: TSO Protected Step Control Block
 MACRO ID: IKJPSCB
 DSECT NAME: PSCB
 CREATED BY: IKJEFLA
 SUBPOOL AND KEY: Subpool 230 and key 1
 SIZE: 72 bytes
 POINTED TO BY: JSCBPSCB field of the JSCB data area
 LWAPSCB field of the LWA data area
 SERIALIZATION: None
 FUNCTION: Contains information from UADS, control bits and accounting data for the userid.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	SIGNED	4 (0)		
0	(0)	CHARACTER	7	PSCBUSER	USERID PADDED RIGHT WITH BLANKS
7	(7)	CHARACTER	1	PSCBUSRL	LENGTH OF USERID
8	(8)	CHARACTER	8	PSCBGNM	ESOTERIC GROUP NAME INIT BY LOGON FROM UADS USED BY DYN ALLOC WHEN UNITNAME NOT SPECIFIED BUT IS REQUIRED
16	(10)	BITSTRING	1	PSCBATRI	A 15 BIT STRING OF USER ATTRIBUTES
		1...		PSCBCTRL	"X'80'" OPERATOR COMMAND USER
		.1..		PSCBACCT	"X'40'" ACCOUNT COMMAND USER
		..1.		PSCBJCL	"X'20'" SUBMIT COMMAND USER
		...1		PSCBVMT	"X'10'" CNTL VOL MOUNT AUTH Y02669
		.... 1...		PSCBATTN	"X'08'" LINE DELETE CHAR IS ATTENTION Y02669
		.... .1..		PSCBRCVR	"X'04'" EDIT RECOVER/NORECOVER
		.... ..1.		PSCBRRBA	"X'02'" UADSDRBA CONTAINS INCORRECT ADDRESS OF USER MAIL DIRECTORY, REPLACE WITH PSCBDRBA AT LOGOFF

BITS 7 - 15 RESERVED FOR IBM USE

17	(11)	BITSTRING	1		RESERVED
18	(12)	BITSTRING	1	PSCBATR2	A 15 BIT STRING RESERVED FOR INSTALLATION USE
19	(13)	BITSTRING	1		
20	(14)	SIGNED	4	PSCBLTIM	DOUBLEWORD FOR LOGON TIME Y02669
24	(18)	SIGNED	4	PSCBLTI2	IN STORE CLOCK UNITS Y02669
28	(1C)	CHARACTER	1	PSCBSUBH	SUBMIT HOLD CLASS
29	(1D)	CHARACTER	1	PSCBSUBC	SUBMIT CLASS
30	(1E)	CHARACTER	1	PSCBSUBM	SUBMIT MSGCLASS
31	(1F)	CHARACTER	1	PSCBSOUT	SYSOUT CLASS
32	(20)	CHARACTER	1		RESERVED
33	(21)	CHARACTER	3	PSCBDRBA	ADDR OF USERS MAIL DIRECTORY
36	(24)	CHARACTER	4		RESERVED
40	(28)	CHARACTER	8	PSCBDEST	DEST FOR SYSOUT DATA SETS Y02669
48	(30)	ADDRESS	4	PSCBRLGB	PTR TO RELOGON BUFFER
52	(34)	ADDRESS	4	PSCBUPT	PTR TO USER PROFILE TABLE
56	(38)	SIGNED	2	PSCBUPTL	LENGTH OF UPT
58	(3A)	CHARACTER	1	PSCBCHAR	USER'S CHARACTER DELETE CHARACTER Y02669
59	(3B)	CHARACTER	1	PSCBLINE	USER'S LINE DELETE CHARACTER Y02669
60	(3C)	ADDRESS	4	PSCBRSZ	REGION SIZE REQUESTED IN 2K UNITS
64	(40)	CHARACTER	8	PSCBU	RESERVED FOR INSTALLATION USE

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
PSCBACCT	10	40	PSCBJCL	10	20	PSCBSUBC	1D	
PSCBATR1	10		PSCBLINE	3B		PSCBSUBH	1C	
PSCBATR2	12		PSCBLTIM	14		PSCBSUBM	1E	
PSCBATTN	10	8	PSCBLTI2	18		PSCBU	40	
PSCBCHAR	3A		PSCBRCVR	10	4	PSCBUPT	34	
PSCBCTRL	10	80	PSCBRLGB	30		PSCBUPTL	38	
PSCBDEST	28		PSCBRRBA	10	2	PSCBUSER	0	
PSCBDRBA	21		PSCBRSZ	3C		PSCBUSRL	7	
PSCBGPNM	8		PSCBSOUT	1F		PSCBVMNT	10	10

PSL

COMMON NAME: Page Service List
 MACRO ID: IHAPSL
 DSECT NAME: PSL
 CREATED BY: User
 SUBPOOL AND KEY: User Subpool and key
 SIZE: 12 bytes
 POINTED TO BY: Register 1 (input to page service). PSLSTRT, PSLPTR
 SERIALIZATION: None
 FUNCTION: Describes a paging service to be performed on a range of virtual pages.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	12	PSL	LABEL FOR PSL
0	(0)	ADDRESS	4	PSLSTRT	31 BIT START ADDRESS OF THE VIRTUAL AREA OR A POINTER TO THE NEXT PSL. BIT 0 IS RESERVED AND MUST BE 0.
4	(4)	ADDRESS	4	PSLEND	IF PSLSTRT IS THE START ADDRESS, THEN PSLEND IS THE 31 BIT ADDRESS OF THE FINAL BYTE OF THE VIRTUAL AREA. BIT 0 IS RESERVED AND MUST BE 0. IF PSLSTRT IS A POINTER TO THE NEXT PSL, THEN PSLEND IS RESERVED.
8	(8)	BITSTRING	1	PSLFLGS1	FLAGS SET BY CALLER
		1... ..		PSLAST	IF 1, THEN THIS IS THE LAST PSL IN THE CONCATENATION OF PSLs. (NOTE THAT PSLAST IS IGNORED IF PSLCHAIN=1 AND PSLNULL=0).
		.1.. ..		PSLNULL	IF 1, THEN NO PAGE SERVICE PROC ESSING IS PERFORMED FOR THE RANGE OF ADDRESSES SPECIFIED IN PSLSTRT, PSLEND. ADDITIONALLY, IF PSLNULL=1, THEN PSLCHAIN FIELD IS IGNORED. PSLNULL=1 DOES NOT AFFECT THE PROCESSING OF THE PSLFLGS2, PSLFUNC, PSLRTN FIELDS.
		..1.		PSLCHAIN	IF 1, THEN PSLSTRT IS A POINTER TO THE NEXT PSL TO BE PROCESSED AND PSLEND IS RESERVED. PSLCHAIN IS IGNORED IF PSLNULL=1. IF PSLNULL=0, PSLCHAIN=1, AND PSLAST=1, THEN PSLAST IS IGNORED AND PSLSTRT IS USED TO POINT TO THE NEXT PSL TO PROCESS.
9	(9)	BITSTRING	1	PSLRTN	RESERVED
10	(A)	BITSTRING	2	PSLFCFL	PAGE SERVICE FUNCTION SPECIFICATION FIELD.
10	(A)	CHARACTER	1	PSLFUNC	RESERVED. SET BY PGSER MACRO INSTRUCTION IN FIRST OR ONLY PSL IN LIST OF PSLs. MEANING NOT AFFECTED BY CONTENTS OF PSLFLGS1. THE PSLFUNC FIELD IN THE FIRST OR ONLY PSL IN THE LIST OF PSLs SPECIFIES THE PAGE SERVICE WHICH IS TO BE INVOKED TO PROCESS ALL THE RANGE(S) OF ADDRESSES WHICH ARE SPECIFIED IN THE PSLs IN THE LIST. PSLFUNC IS IGNORED IN ANY PSLs IN THE LIST SUBSEQUENT TO THE FIRST PSL.
11	(B)	BITSTRING	1	PSLFLGS2	RESERVED. SET BY PGSER MACRO INSTRUCTION IN FIRST OR ONLY PSL IN LIST OF PSLs. MEANING NOT AFFECTED BY CONTENTS OF PSLFLGS1. THE PSLFLGS2 FIELD IN THE FIRST OR ONLY PSL IN THE LIST OF PSLs SPECIFIES MODIFIERS TO BE APPLIED TO THE PAGE SERVICE SPECIFIED IN PSLFUNC IN PROCESSING THE RANGE(S) OF ADDRESSES WHICH ARE SPECIFIED IN THE LIST. PSLFLGS2 IS IGNORED IN ANY PSLs IN THE LIST SUBSEQUENT TO THE FIRST PSL.
		1... ..		*	
		.1.. ..		PSLRLSE	IF 1, RELEASE=Y WAS CODED ON PGSER MACRO
		..1.		PSLKEPRL	IF 1, KEEPREL=Y WAS CODED ON PGSER MACRO
		...1		PSLANYW	IF 1, ANYWHER=Y WAS CODED ON PGSER MACRO
		.... 1...		PSLONG	IF 1, LONG=Y WAS CODED OR DEFAULTED ON PGSER MACRO
		.... .1..		PSLBACK	IF 1, BACKOUT=Y WAS CODED OR DEFAULTED ON PGSER MACRO
12	(C)	CHARACTER		PSLFINIS	THIS IS THE END OF THE PSL

CROSS-REFERENCE TABLE

<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>	<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>	<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>
PSL	0		PSLFCTL	A		PSLNULL	8	40
PSLANYW	B	10	PSLFINIS	C		PSLONG	B	08
PSLAST	8	80	PSLFLGS1	8		PSLRLSE	B	40
PSLBACK	B	04	PSLFLGS2	B		PSLRTN	9	
PSLCHAIN	8	20	PSLFUNC	A		PSLSTRT	0	
PSLEND	4		PSLKEPRL	B	20			

PSSD

The mapping macro for this control block is object code only (OCO). Therefore, only selected information is presented for it.

OWNING COMPONENT: Availability manager (SCAVM)
SUBPOOL AND KEY: 231 and key 3
SIZE: 64 bytes

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PVT

COMMON NAME: RSM Page Vector Table
 MACRO ID: IHAPVT
 DSECT NAME: PVT
 CREATED BY: RSM Initialization
 SUBPOOL AND KEY: Nucleus and Key 0
 SIZE: 1912 bytes
 POINTED TO BY: CVTRPVT, PVTPTN
 SERIALIZATION: None
 FUNCTION: Contains all RSM external entry points.

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
0	(0)	STRUCTURE	1912	PVT	
0	(0)	CHARACTER	4	PVTID	PVT CONTROL BLOCK IDENTIFIER

ADDRESSES OF EXTERNAL DATA AREAS

4	(4)	ADDRESS	4	PVTRIT	POINTER TO THE START OF THE RIT
8	(8)	ADDRESS	4	PVTPFTA	ADDRESS OF PFT ADDRESS IN RIT
12	(C)	CHARACTER	8	*	Reserved
20	(14)	ADDRESS	4	PVTRSH	Address of Recovery Refresh Table
24	(18)	ADDRESS	4	PVTESTA	Address of Extended Storage Table
28	(1C)	CHARACTER	20	*	RESERVED FOR ADDITIONAL DATA AREA ADDRESSES

VDAC EXTERNAL ENTRY POINTS

48	(30)	ADDRESS	4	PVTKGRES	VDAC RESET
52	(34)	ADDRESS	4	PVTKASSC	VDAC ASSOCIATE
56	(38)	ADDRESS	4	PVTKDIS	VDAC DISASSOCIATE
60	(3C)	ADDRESS	4	PVTKCMIT	VDAC COMMIT
64	(40)	ADDRESS	4	PVTGIOCM	General I/O Completion
68	(44)	ADDRESS	4	PVTUTRV	TRANSLATE REAL TO VIRTUAL ROUTINE
72	(48)	ADDRESS	4	PVTPSIB	PAGING SERVICES VSL BRANCH ENTRY
76	(4C)	ADDRESS	4	PVTXPRSB	REAL STORAGE BUFFER ROUTINE
80	(50)	ADDRESS	4	PVTXIBAD	BAD FRAME ROUTINE
84	(54)	ADDRESS	4	PVTXCRMF	Frame Counting Service for RMF
88	(58)	ADDRESS	4	PVTERCF	Reconfiguration for Extended Storage
92	(5C)	ADDRESS	4	PVTXWVFC	Virtual Fetch data set creation
96	(60)	ADDRESS	4	PVTXVFA	Virtual Fetch Assign
100	(64)	ADDRESS	4	PVTSSDEL	Delete secondary working set pages
104	(68)	ADDRESS	4	PVTPNL	PAGE FREE FAST PATH LIST FORMAT
108	(6C)	ADDRESS	4	PVTPNR	PAGE FREE FAST PATH REGISTER FORMAT
112	(70)	ADDRESS	4	PVTPQLB	PAGE FIX FAST PATH LIST FORMAT
116	(74)	ADDRESS	4	PVTPQRB	PAGE FIX FAST PATH REGISTER FORMAT
120	(78)	ADDRESS	4	PVTPQLNB	PAGE FIX FAST PATH LIST FORMAT WITHOUT BACKOUT
124	(7C)	ADDRESS	4	PVTPQRNB	PAGE FIX FAST PATH REGISTER FORMAT WITHOUT BACKOUT
128	(80)	ADDRESS	4	PVTXPLCK	LOCK INTERFACE FOR IARXP
132	(84)	ADDRESS	4	PVTXXFP	EXTERNAL INTERFACE ROUTINE
136	(88)	ADDRESS	4	PVTUFP	FIND PAGE
140	(8C)	ADDRESS	4	PVTXCNTF	Countine Routine
144	(90)	ADDRESS	4	PVTUCNVT	Convert Routine
148	(94)	ADDRESS	4	PVTXRCF	Real Storage Reconfiguration Routine
152	(98)	ADDRESS	4	PVTUALF	PFTE Manager GETFRAME Routine
156	(9C)	ADDRESS	4	PVTUMVF	PFTE Manager MOVEFRAM Routine
160	(A0)	ADDRESS	4	PVTSIN	SWAP IN PROCESSOR
164	(A4)	ADDRESS	4	PVTSOUT	SWAP OUT PROCESSOR
168	(A8)	ADDRESS	4	PVTVFRMN	VSM FREEMAIN EXIT TO RSM
172	(AC)	ADDRESS	4	PVTUINV	POINTER DEFINED ADDRESS OF PTLB ROUTINE
176	(B0)	ADDRESS	4	PVTSURST	Swap Restart Entry Point
180	(B4)	ADDRESS	4	PVTEAEXT	MIGRATION Scheduler
184	(B8)	ADDRESS	4	PVTXWRLS	Virtual Fetch Release
188	(BC)	CHARACTER	40	*	Reserved space for Entries
228	(E4)	CHARACTER	1668	*	Area for RSM Recovery MODID Table

OFFSETS
DEC HEX TYPE LENGTH NAME DESCRIPTION

ENTRY POINTS REQUIRED FOR S/370 COMPATIBILITY

1896	(768)	ADDRESS	4	PVTPPSIX	PGFIX BRANCH ENTRY (R FORMAT)
1900	(76C)	ADDRESS	4	PVTPPSIY	PGFIX BRANCH ENTRY (L FORMAT)
1904	(770)	ADDRESS	4	PVTPPSIZ	PGFIX BRANCH ENTRY (R FORMAT)
1908	(774)	ADDRESS	4	PVTPPSIF	PGFFREE BRANCH ENTRY

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
PVT	0		PVTPPSIY	76C		PVTUFP	88	
PVTEAEXT	B4		PVTPPSIZ	770		PVTUINV	AC	
PVTERCF	58		PVTPQLB	70		PVTUMVF	9C	
PVTESTA	18		PVTPQLNB	78		PVTUTRV	44	
PVTGIOCM	40		PVTPQRB	74		PVTVFRMN	A8	
PVTID	0		PVTPQRNB	7C		PVTXCNTF	8C	
PVTKASSC	34		PVTPSIB	48		PVTXCRMF	54	
PVTKCMIT	3C		PVTRIT	4		PVTXIBAD	50	
PVTKDIS	38		PVTRSH	14		PVTXPLCK	80	
PVTKGRES	30		PVTSIN	A0		PVTXPRSB	4C	
PVTPFTA	8		PVTSOUT	A4		PVTXRCF	94	
PVTPNL	68		PVTSSDEL	64		PVTVFA	60	
PVTPNR	6C		PVTSURST	B0		PVTXHRLS	B8	
PVTPPSIF	774		PVTUALF	98		PVTVVFC	5C	
PVTPPSIX	768		PVTUCNVT	90		PVTVVFP	84	

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PXT

COMMON NAME: VSM Cell Pool Primary Extent
MACRO ID: IGVPXT
DSECT NAME: PXT
CREATED BY: IGVCPBLD
SUBPOOL AND KEY: User supplied
SIZE: 40 bytes
POINTED TO BY: PPDPT
SERIALIZATION: LOCAL/CML lock for local cell pools
VSMPAG for pageable global cell pools
VSMFIX for fixed global cell pools
FUNCTION: Describes the primary cell pool extent.

OFFSETS						
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION	
0	(0)	STRUCTURE	40	PXT		
0	(0)	CHARACTER	24	PXTHDR	USER SUPPLIED HEADER	
24	(18)	CHARACTER	8	PXTCDSW	COMPARE DOUBLE AND SWAP DOUBLEWORD	
24	(18)	SIGNED	4	PXTSYNC	SYNCRHONIZATION COUNT	
28	(1C)	ADDRESS	4	PXTCPTR	POINTER TO FIRST CELL IN POOL	
32	(20)	ADDRESS	4	PXTPPD	POINTER TO PPD	
36	(24)	ADDRESS	4	*	RESERVED, FOR POOL ALIGNMENT	
40	(28)	CHARACTER	*	PXTPOOL	CELLS OF POOL	

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QCB

COMMON NAME: Queue Control Block
 MACRO ID: ISGQCB
 DSECT NAME: QCB
 CREATED BY: The ENQ/RESERVE processing routines; ISGGNQDQ and ISGGRPO0
 SUBPOOL AND KEY: 127 in the global resource serialization private area (above the 16M line); key 0.
 SIZE: The QCB is defined in 3 sizes: 64, 84 and 296 bytes
 POINTED TO BY: QCBNQCB, QCBPQCB, QHTEFQCB, QHTELQCB, PQCBNQCB, PQCBPQCB
 SERIALIZATION: Local resource - The CMS ENQ/DEQ Class Lock
 Global resource - global resource serialization local lock
 FUNCTION: Used to describe a global resource serialization resource.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	40	QCB	QUEUE CONTROL BLOCK
0	(0)	CHARACTER	40	QCBBASIC	QCB BASIC SECTION
0	(0)	ADDRESS	4	QCBNQCB	ADDRESS NEXT QCB ON SYNONYM CHAIN
4	(4)	ADDRESS	4	QCBPQCB	ADDRESS PREVIOUS QCB ON SYNONYM CHAIN
8	(8)	ADDRESS	4	QCBFQEL	ADDRESS FIRST QEL FOR THIS RESOURCE
12	(C)	ADDRESS	4	QCBLQEL	ADDRESS LAST QEL FOR THIS RESOURCE
16	(10)	ADDRESS	4	QCBQHTE	ADDRESS OF QUEUE HASH TABLE ENTRY FOR THIS RESOURCE
20	(14)	ADDRESS	4	QCBRRSV3	RESERVED
24	(18)	UNSIGNED	2	QCBASID	ASID OF REQUESTOR. VALID ONLY WHEN QCBSTEP=1
26	(1A)	BITSTRING	1	QCBRFLGS	RESOURCE DESCRIPTION FLAGS
		1...		QCBSYS	SCOPE OF SYSTEM
		.1..		QCBSYSS	SCOPE OF SYSTEMS
		..1.		QCBSTEP	SCOPE OF STEP
		...1		QCBGLOBL	GLOBAL RESOURCE INDICATOR
		.... 1...		QCBNOENQ	NO ENQS PERMITTED SET BY FRR
		.... .1..		QCBPHLDR	THIS IS A PLACEHOLDER QCB. NOTE THAT THIS QCB DOES NOT DEFINE A RESOURCE REQUEST.
		.... ..1.		QCBQM	QUEUE MERGE INDICATES RESOURCE HAS BEEN PROCESSED
		.... ...1		QCBMASF	MASID FLAG. IF 1, THE QEL CHAIN OF THIS QCB HAS (OR ONCE HAD) A QEL WITH A NON ZERO QELMASID FIELD. IF 0, QELMASID IS ZERO IN EVERY QEL ON THE QEL CHAIN OF THIS QCB.
27	(1B)	CHARACTER	1	QCBRRSV1	RESERVED
28	(1C)	UNSIGNED	2	QCBRNAML	LENGTH OF RNAME
30	(1E)	CHARACTER	2	QCBRRSV2	RESERVED
32	(20)	CHARACTER	8	QCBQNAME	QNAME OF RESOURCE
40	(28)	CHARACTER		QCBEND	END OF FIXED SECTION
40	(28)	CHARACTER	*	QCBRNAME	RNAME OF RESOURCE

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
QCB	0		QCBNOENQ	1A	08	QCBRNAME	28	
QCBASID	18		QCBNQCB	0		QCBRNAML	1C	
QCBBASIC	0		QCBPHLDR	1A	04	QCBRRSV1	1B	
QCBEND	28		QCBPQCB	4		QCBRRSV2	1E	
QCBFQEL	8		QCBQHTE	10		QCBRRSV3	14	
QCBGLOBL	1A	10	QCBQM	1A	02	QCBSTEP	1A	20
QCBLQEL	C		QCBQNAME	20		QCBSYS	1A	80
QCBMASF	1A	01	QCBRFLGS	1A		QCBSYSS	1A	40

QDB

COMMON NAME: Queue Descriptor Block
MACRO ID: IHAQDB
DSECT NAME: QDB
CREATED BY: Depends on which queue
SUBPOOL AND KEY: Depends on which queue
SIZE: 32 bytes
POINTED TO BY: Depends on which queue
FUNCTION: Contains information on the size and location and attributes of queue.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	CHARACTER	4	QDBQDB	ACRONYM IN EBCDIC QDB
4	(4)	BITSTRING	2	QDBATTR	QUEUE ATTRIBUTES
6	(6)	SIGNED	2	QDBRV001	RESERVED
8	(8)	SIGNED	4	QDBNELMS	NUMBER OF ELEMENTS ON QUEUE
12	(C)	ADDRESS	4	QDBFELMP	POINTER TO FIRST ELEMENT
16	(10)	ADDRESS	4	QDBLELMP	POINTER TO LAST ELEMENT
20	(14)	SIGNED	2	QDBFPTDS	FORWARD POINTER DISPLACEMENT
22	(16)	SIGNED	2	QDBBPTDS	BACKWARD POINTER DISPLACEMENT
24	(18)	SIGNED	2	QDBPRSZ	PRIORITY FIELD SIZE
26	(1A)	SIGNED	2	QDBPRDS	PRIORITY FIELD DISPLACEMENT
28	(1C)	ADDRESS	4	QDBRV002	RESERVED

CROSS-REFERENCE TABLE

<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>	<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>	<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>
QDBATTR	4		QDBLELMP	10		QDBQDB	0	
QDBBPTDS	16		QDBNELMS	8		QDBRV001	6	
QDBFELMP	C		QDBPRDS	1A		QDBRV002	1C	
QDBFPTDS	14		QDBPRSZ	18				

QEL

COMMON NAME: Queue Element
 MACRO ID: ISGQEL
 DSECT NAME: QEL
 CREATED BY: The ENQ/RESERVE processing routines: ISGGNQDQ and ISGGRP00
 SUBPOOL AND KEY: 127 in the global resource serialization private area (above the 16M line); Key 0 Key 0
 SIZE: 48 bytes
 POINTED TO BY: QCBFQEL, QCBLQEL, QELNQEL, QELPQEL, QELNQELQ, QELPQELQ, QELNSYN, QELPSYN, ASCBGQEL, ASCBLQEL and SAHTENT
 SERIALIZATION: Local resource - The CMS ENQ/DEQ Class Lock
 Global resource - The global resource serialization Local Lock
 FUNCTION: Contains data that describes the requestor of a Global Resource Serialization resource.

OFFSETS						
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION	
0	(0)	STRUCTURE	48	QEL	QUEUE ELEMENT	
0	(0)	ADDRESS	4	QELNQEL	ADDRESS OF NEXT QEL	
4	(4)	ADDRESS	4	QELPQEL	ADDRESS OF PREVIOUS QEL	
8	(8)	ADDRESS	4	QELNQELQ	NEXT QEL ON ASCB OR SYSID QUEUE	
12	(C)	ADDRESS	4	QELPQELQ	PREVIOUS QEL ON ASCB OR SYSID QUEUE	
16	(10)	ADDRESS	4	QELNSYN	NEXT QEL ON SYSID SYNONYM CHAIN	
20	(14)	ADDRESS	4	QELPSYN	PREVIOUS QEL ON SYSID SYNONYM CHAIN	
24	(18)	ADDRESS	4	QELQXB	ADDRESS OF QXB	
28	(1C)	ADDRESS	4	QELQCB	ADDRESS OF QCB	
32	(20)	ADDRESS	4	QELSAHTE	ADDRESS OF SLOT IN SYSID/ASID HASH TABLE. VALID ONLY WHEN THE REQUEST ORIGINATED FROM A GRS SYSTEM OTHER THAN CURRENT	
36	(24)	UNSIGNED	4	QELORIGN	ORIGIN OF REQUESTOR	
36	(24)	UNSIGNED	2	QELSYSID	SYSTEM ID OF REQUESTOR	
38	(26)	UNSIGNED	2	QELASID	ASID OF REQUESTOR	
40	(28)	UNSIGNED	2	QELMASID	MASID VALUE SPECIFIED WITH ENQ/RESERVE THAT CREATED THIS QEL, OR ZERO.	
42	(2A)	BITSTRING	1	QELQFLGS	THESE FLAGS PERTAIN TO THE QEL	
		1... ..		QELSHARE	WHEN 1, SHARED REQUEST WHEN 0, EXCLUSIVE REQUEST	
		.1.. ..		QELMC	MC REQUEST	
		..1.		QELRESV	RESERVE REQUEST	
		...1		QELRESVC	RESERVE CONVERTED TO GLOBAL ENQ	
		.... 1...		QELAUTH	CALLER IS AUTHORIZED	
		.... .1..		QELTCBFA	TCBFA ON WHEN QEL INITIALIZED	
		.... ..1.		QELQADQ	MASID DAMAGED QEL FLAG. IF 1, THIS QEL WAS CREATED BY AN INVALID MASID ENQ, OR THIS QEL PREVIOUSLY POINTED AT A MASID TARGET QEL THAT WAS REMOVED BY AN INVALID DEQ.	
		.... ...1		QELQMATD	MASID/MTCB DEFERRED STEAL FLAG. IF 1, THIS QEL WAS A MASID TARGET WHEN ENQ STEAL WAS NEEDED. STEAL MUST BE PERFORMED WHEN THE CORRESPONDING MASID QEL IS REMOVED.	
43	(2B)	BITSTRING	1	QELFLGS	THESE FLAGS PERTAIN TO LIST REQUESTS	
		1... ..		QELPOST	THE ECB OR RB HAS BEEN POSTED	
		.1.. ..		QELECBF	THIS IS AN ECB REQUEST	
		..1.		QELECBZ	ECB ADDRESS OF ZERO WAS SPECIFIED. QEL CAN BE DEQ ED WHEN IT IS NOT IN FIRST GROUP, BUT RB POST MUST BE USED.	
		...1		QELERSV	EARLY RESERVE FLAG. QEL WAS CREATED BY AN EARLY GLOBAL RESERVE THAT WAS CONVERTED TO A LOCAL RESERVE	
		.... 1...		QELLSV4	RESERVED	
		.... .1..		QELLSV3	RESERVED	
		.... ..1.		QELLSV2	RESERVED	
		.... ...1		QELLSV1	RESERVED	
44	(2C)	ADDRESS	4	QELUCB	CONTAINS UCB ADDRESS WHEN QELRESV=1	
48	(30)	CHARACTER		QELEND	END OF QEL	

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
QEL	0		QELMASID	28		QELQFLGS	2A	
QELASID	26		QELMC	2A	40	QELQADQ	2A	02
QELAUTH	2A	08	QELNQEL	0		QELQATD	2A	01
QELECBF	2B	40	QELNQELQ	8		QELQXB	18	
QELECBZ	2B	20	QELNSYN	10		QELRESV	2A	20
QELEND	30		QELORIGN	24		QELRESVC	2A	10
QELLERSV	2B	10	QELPOST	2B	80	QELSAHTE	20	
QELLFLGS	2B		QELPQEL	4		QELSHARE	2A	80
QELLRSV1	2B	01	QELPQELQ	C		QELSYSID	24	
QELLRSV2	2B	02	QELPSYN	14		QELTCBFA	2A	04
QELLRSV3	2B	04	QELQCB	1C		QELUCB	2C	
QELLRSV4	2B	08						

QFPL

COMMON NAME: ENQ/DEQ FRR Parameter List
MACRO ID: ISGQFPL
DSECT NAME: QFPL
CREATED BY: RTM when SETFRR is issued with the PARAM keyword.
SUBPOOL AND KEY: Subpool determined by RTM, key 0
SIZE: 24 bytes
POINTED TO BY: SDWAPARM when the FRR receives control. Area specified by the PARAM keyword on the SETFRR macro invocation.
FUNCTION: Provides a common mapping of the FRR parameter list for those modules which use ISGGFRR0 for recovery.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	24	QFPL	E/D/R FRR PARAMETER LIST
0	(0)	ADDRESS	4	QFPLRTAD	RETRY ADDRESS (0=> NO RETRY)
4	(4)	ADDRESS	4	QFPLRUB	REGISTER UPDATE BLOCK ADDRESS (0=> RETRY REGS UNDEFINED)
8	(8)	ADDRESS	4	QFPLMID	ADDRESS OF MODID MACRO INFO
12	(C)	ADDRESS	4	QFPLSMPL	ADDRESS OF AN SMPL (USED FOR ISGSALC OR ISGSDAL ERRORS)
16	(10)	ADDRESS	4	QFPLDEBUG	ADDRESS OF ADDITIONAL INFO TO BE RECORDED IN THE VRA
20	(14)	BITSTRING	4	QFPLMISC	FOR USE BY THE MODULE WHICH ISSUED THE SETFRR
24	(18)	CHARACTER		QFPLEND	END OF QFPL

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QFPL1

COMMON NAME: Global Resource Serialization Queue Scanning Services FRR Parameter List
 MACRO ID: ISGQFPL1
 DSECT NAME: None
 CREATED BY: RTM component on behalf of the issuer of SETFRR macro.
 SUBPOOL AND KEY: Determined by RTM
 SIZE: 24 bytes
 POINTED TO BY: SDWA - SDWAPARM
 SERIALIZATION: None
 FUNCTION: The global resource serialization queue scanning services FRR parameter list provides a means of communication between the global resource serialization queue scanning services module (ISGQSCAN) and the global resource serialization queue scanning services FRR routine (ISGQSCNR). This maps the 24-byte FRR parameter area obtained when the SETFRR macro is used.

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
0	(0)	STRUCTURE	24	QFPL1	GRS QUEUE SCANNING SERVICES FRR PARAMETER LIST
0	(0)	BITSTRING	1	QF1LCKST	LOCK STATUS FLAGS
		1... ..		QF1UHLL	USER HELD LOCAL LOCK FLAG (1 USER HOLDS A LOCK LOCK, 0 USER DOES NOT HOLD A LOCAL LOCK)
		.1.. ..		QF1ULL	USER LOCAL LOCK OBTAINED FLAG (1 LOCAL LOCK OF THE INVOKER OF ISGQSCAN OBTAINED, 0 LOCK NOT OBTAINED)
		..1.		QF1GLL	GRS LOCAL LOCK OBTAINED FLAG (1 GRS LOCAL LOCK OBTAINED, 0 LOCK NOT OBTAINED)
		...1		QF1UHCL	USER HELD CMS ENQ/DEQ LOCK FLAG (1 USER HOLDS CMS ENQ/DEQ LOCK, 0 USER DOES NOT HOLD LOCK)
		.... 1...		QF1CL	CMS ENQ/DEQ LOCK OBTAINED FLAG (1 CMS ENQ/DEQ LOCK OBTAINED, 0 LOCK NOT OBTAINED)
		.... .1..		QF1TSTLL	SETLOCK TEST FOR LOCAL LOCK EXECUTED FLAG (1 TEST FOR LOCAL LOCK EXECUTED, 0 TEST NOT EXECUTED)
		.... ..1.		QF1TSTCL	SETLOCK TEST FOR CMS ENQ/DEQ LOCK EXECUTED FLAG (1 TEST FOR CMS ENQ/DEQ LOCK EXECUTED, 0 TEST NOT EXECUTED)
		.... ...1		*	RESERVED
1	(1)	BITSTRING	1	QF1FTprt	FOOT PRINT FLAGS
		1... ..		QF1EXMVC	EXECUTING MVCP/MVCS INSTRUCTION FLAG (1 MVCP/MVCS INSTRUCTION BEING EXECUTED, 0 NOT EXECUTING MVCP/MVCS INSTRUCTION)
		.1.. ..		QF1INGSM	INVOKING GRS STORAGE MANAGER FLAG (1 INVOKING GRS STORAGE MANAGER, 0 NOT INVOKING GRS STORAGE MANAGER)
		..1.		QF1INBCI	INVOKING ISGBCI FUNCTION FLAG (1 INVOKING ISGBCI FUNCTION, 0 NOT INVOKING ISGBCI FUNCTION)
		...1		QF1RGINT	REGULAR INTERFACE FLAG (1 ISGQSCAN GIVEN CONTROL THROUGH GENERAL INTERFACE ENTRY POINT, 0 ISGQSCAN GIVEN CONTROL THROUGH THE RESTRICTED INTERFACE ENTRY POINT)
		.... 1...		QF1REQFL	1 => ISGQSCAN HAS ADDED 1 TO ASCBCREQ. ISGQSCNR MUST REDUCE THE COUNT BY 1. 0 => NO ADJUSTMENT OF ASCBCREQ IS REQUIRED.
		.... .111		*	RESERVED
2	(2)	CHARACTER	1	*	RESERVED
3	(3)	UNSIGNED	1	QF1QSNLN	LENGTH OF INPUT PARAMETER LIST FOR ISGQSCAN (PARAMETER LIST BUILT BY GQSCAN MACRO)
4	(4)	ADDRESS	4	QF1QSNPL	POINTER TO INPUT PARAMETER LIST FOR ISGQSCAN WHILE IN THE GRS ADDRESS SPACE (PARAMETER LIST BUILT BY GQSCAN MACRO)
8	(8)	ADDRESS	4	QF1PCTKN	TOKEN RETURNED FROM PCLINK MACRO
12	(C)	ADDRESS	4	QF1HWKA1	POINTER TO HUGE WORKAREA 1 (USED AS A DYNAMIC AREA BY ISGQSCAN) OR ZERO
16	(10)	ADDRESS	4	QF1HWKA2	POINTER TO HUGE WORKAREA 2 (USED AS THE INTERNAL BUFFER BY ISGQSCAN) OR ZERO
20	(14)	ADDRESS	4	QF1PQCB	POINTER TO PQCB (USED AS A PLACEHOLDER QCB BY ISGQSCAN) OR ZERO
24	(18)	CHARACTER		QF1END	END OF QFPL1

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
QFPL1	0		QFINBCI	1	20	QFIREQFL	1	08
QFICL	0	08	QFLINGSM	1	40	QFIRGINT	1	10
QFIEND	18		QFLLCKST	0		QF1TSTCL	0	02
QF1EXMVC	1	80	QF1PCTKN	8		QFITSTLL	0	04
QF1FTPRT	1		QF1PQCB	14		QF1UHCL	0	10
QF1GLL	0	20	QF1QSNLN	3		QF1UHLL	0	80
QF1HWKA1	C		QF1QSNPL	4		QF1ULL	0	40
QF1HWKA2	10							

QHT

COMMON NAME: Queue Hash Table
 MACRO ID: ISGQHT
 DSECT NAME: QHT
 CREATED BY: ISGNCBIM in SQA and ISGNASIM in the global resource serialization private area.
 SUBPOOL AND KEY: 229 and key 0
 SIZE: Global QHT - 8192 bytes; local QHT - 2048 bytes.
 POINTED TO BY: Global QHT - GVTXGQHT of GVTX; Local QHT - GVTXLQHT of GVTX.
 SERIALIZATION: Local QHT is serialized by the CMS ENQ/DEQ Class Lock. Global QHT is serialized by the global resource serialization Local Lock.
 FUNCTION: There are two Queue Hash tables. One for Global Requests and one for Local Requests. Each Queue Hash Table Entry is a double headed queue of QCB's.

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
0	(0)	STRUCTURE	8	QHT	QUEUE HASH TABLE
0	(0)	CHARACTER	8	QHTHDR	QUEUE HASH TABLE HEADER
0	(0)	CHARACTER	4	QHTID	CONTROL BLOCK ACRONYM (GLOBAL GQHT,LOCAL LQHT)
4	(4)	UNSIGNED	2	QHTNENT	NUMBER OF ENTRIES IN TABLE
6	(6)	CHARACTER	2	*	RESERVED
8	(8)	CHARACTER	8	QHTENTS (*)	QUEUE HASH TABLE ENTRIES
0	(0)	STRUCTURE	8	QHTENT	QUEUE HASH TABLE ENTRY
0	(0)	ADDRESS	4	QHTEFQCB	ADDRESS OF THE FIRST QCB ON THE SYNONYM CHAIN, THE HIGH ORDER BIT INDICATES IF THERE IS QUEUE DAMAGE
		1...		QHTEQDMG	0 NO QUEUE DAMAGE IN THIS SYNONYM CHAIN. 1 QUEUE DAMAGE IN THIS SYNONYM CHAIN. ENQS NOT ALLOWED
0	(0)	BITSTRING	3	*	CAN NOT BE USED, THIS IS THE ADDRESS PORTION OF THE POINTER
4	(4)	ADDRESS	4	QHTELQCB	ADDRESS OF LAST QCB ON SYNONYM CHAIN

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
QHT	0		QHTENT	0		QTHDR	0	
QHTEFQCB	0		QHTENTS	8		QHTID	0	
QHTELQCB	4		QHTEQDMG	0	80	QHTNENT	4	

QIO

COMMON NAME: QMNGRIO Work Area
 MACRO ID: IHAQIO
 DSECT NAME: IHAQIO
 CREATED BY: Routines that invoke QMNGRIO
 SUBPOOL AND KEY: Any subpool and key
 SIZE: 256 bytes
 POINTED TO BY: QMIOP
 FUNCTION: Contains the QMPA.

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
0	(0)	CHARACTER	36	QIOQMPA	Q MGR PARAMETER AREA
36	(24)	CHARACTER	76	QIOECIOB (0)	ECB/IOB SPACE
36	(24)	SIGNED	4	QIOECB	EVENT CONTROL BLOCK
40	(28)	DBL WORD	8	QIOIOB (0)	INPUT/OUTPUT BLOCK
40	(28)	CHARACTER	2	QIOIFLGS	IOB FLAG BYTES
42	(2A)	CHARACTER	2	QIOISNS	IOB SENSE BYTES
44	(2C)	SIGNED	4	QIOIECB (0)	
44	(2C)	CHARACTER	1	QIOICC	IOB ECB COMPLETION CODE
45	(2D)	ADDRESS	3	QIOIECBA	IOB ECB ADDRESS
48	(30)	CHARACTER	1	QIOIFLG3	IOB FLAG BYTE 3
49	(31)	CHARACTER	7	QIOICSM	SEVEN LOW ORDER BYTES OF LAST CSM
56	(38)	SIGNED	4	QIOIST (0)	
56	(38)	CHARACTER	1	QIOISIO	SIO CONDITION CODE
57	(39)	ADDRESS	3	QIOISTR	CCW CHAIN POINTER
60	(3C)	SIGNED	4	QIOIDCB (0)	
60	(3C)	CHARACTER	1	QIOIRSVD	
61	(3D)	ADDRESS	3	QIOIDCBA	IOB DCB ADDRESS
64	(40)	CHARACTER	8	QIOIREST	SPACE TO IOB END
72	(48)	CHARACTER	8	QIOISEEK	SEEK/SEARCH MBBCCHHR
80	(50)	DBL WORD	8	QIOISET (0)	SET SECTOR CCM
80	(50)	CHARACTER	1	QIOISETO	SET SECTOR OP CODE
81	(51)	ADDRESS	3	QIOISETA	SET SECTOR DATA ADDRESS
84	(54)	CHARACTER	1	QIOISETF	SET SECTOR FLAGS
85	(55)	CHARACTER	1	QIOISETR	SET SECTOR RESERVED
86	(56)	SIGNED	2	QIOISETL	SET SECTOR LENGTH
88	(58)	DBL WORD	8	QIOISCH (0)	SEARCH CCM
88	(58)	CHARACTER	1	QIOISCHO	SEARCH OP CODE
89	(59)	ADDRESS	3	QIOISCHA	SEARCH DATA ADDRESS
92	(5C)	CHARACTER	1	QIOISCHF	SEARCH FLAGS
93	(5D)	CHARACTER	1	QIOISCHR	SEARCH RESERVED
94	(5E)	SIGNED	2	QIOISCHL	SEARCH LENGTH
96	(60)	DBL WORD	8	QIOITIC (0)	TIC CCM
96	(60)	CHARACTER	1	QIOITICO	TIC OP CODE
97	(61)	ADDRESS	3	QIOITICA	TIC DATA ADDRESS
100	(64)	CHARACTER	1	QIOITICF	TIC FLAGS
101	(65)	CHARACTER	1	QIOITICR	TIC RESERVED
102	(66)	SIGNED	2	QIOITICL	TIC LENGTH
104	(68)	DBL WORD	8	QIOIO (0)	I/O CCM
104	(68)	CHARACTER	1	QIOIOO	I/O OP CODE
105	(69)	ADDRESS	3	QIOIOA	I/O DATA ADDRESS
108	(6C)	CHARACTER	1	QIOIOF	I/O FLAGS
109	(6D)	CHARACTER	1	QIOIOR	I/O RESERVED
110	(6E)	SIGNED	2	QIOIOL	I/O LENGTH
112	(70)	SIGNED	4	QIOJOB (0)	QMPA JOB INFO LIST
112	(70)	SIGNED	4	QIOFILL1	FULL WORK OF ZEROS
116	(74)	ADDRESS	4	QIONAMEA	POINTER TO JOB NAME
120	(78)	ADDRESS	4	QIOSWADS	POINTER TO SWADS DCB
124	(7C)	SIGNED	4	QIOPREXP (0)	QMPA EXTERNAL PARM AREA PREFIX
124	(7C)	SIGNED	2	QIOFILL2	
126	(7E)	SIGNED	2	QIORECL	RECORD LENGTH
128	(80)	SIGNED	4	QIOXPA (0)	QMPA EXTERNAL PARM AREA
128	(80)	ADDRESS	4	QIOCOREA	IN CORE ADDRESS OF RECORD
132	(84)	CHARACTER	4	QIOTTRO	RELATIVE DISK ADDRESS OF RECORD
136	(88)	CHARACTER	120	QIOQMWRK	WORK SPACE FOR QUEUE MANAGER

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
QIOCOREA	80		QIOIOO	68		QIOISNS	2A	
QIOECB	24		QIOIOR	6D		QIOIST	38	
QIOECIOB	24		QIOIREST	40		QIOISTR	39	
QIOFILL1	70		QIOIRSVD	3C		QIOITIC	60	
QIOFILL2	7C		QIOISCH	58		QIOITICA	61	
QIOICC	2C		QIOISCHA	59		QIOITICF	64	
QIOICSW	31		QIOISCHF	5C		QIOITICL	66	
QIOIDCB	3C		QIOISCHL	5E		QIOITICO	60	
QIOIDCBA	3D		QIOISCHO	58		QIOITICR	65	
QIOIECB	2C		QIOISCHR	5D		QIOJOB	70	
QIOIECBA	2D		QIOISEEK	48		QIONAMEA	74	
QIOIFLGS	28		QIOISET	50		QIOPREXP	7C	
QIOIFLG3	30		QIOISETA	51		QIOQMPA	0	
QIOIO	68		QIOISETF	54		QIOQMWRK	88	
QIOIOA	69		QIOISETL	56		QIORECL	7E	
QIOIOB	28		QIOISETO	50		QIOSMADS	78	
QIOIOF	6C		QIOISETR	55		QIOTTRO	84	
QIOIOL	6E		QIOISIO	38		QIOXPA	80	

QMPA

COMMON NAME: Queue Manager Parameter Area
 MACRO ID: IEFQMNGR
 DSECT NAME: IOPARAMS
 CREATED BY: Routines that invoke the SWA manager.
 SUBPOOL AND KEY: Any subpool and Key
 SIZE: 36 bytes located on a word boundary
 POINTED TO BY: Register 1, JSCBQMPI in the active JSCB points to the QMPA for the problem program.
 FUNCTION: Contains a function code indicating what function is to be performed by the SWA Manager routines, and information about the request.

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
0	(0)	CHARACTER	4	QMNAM	RESERVED
		....	....	QMCAN	"QMNAM" RESERVED
4	(4)	CHARACTER	2	QMVERS	VERSION NUMBER
		....	..1.	QMCURVER	"2" QMPA VERSION 2
6	(6)	CHARACTER	2	QMLGTH	QMPA LENGTH
8	(8)	CHARACTER	1	QMPOP	FUNCTION CODE PARAMETER FUNCTION CODE VALUES
		....	...1	QMASGN	"1" ASSIGN
		....	....	QMASGS	"0" ASSIGN/START
		....	..1.	QMWRTA	"2" WRITE AND ASSIGN
		....	..11	QMWRTE	"3" WRITE
		....	..1.	QMREAD	"4" READ
		....	..1.1	QMREDALL	"5" READALL/MOVE
		....	..11.	QMWRTALL	"6" WRITEALL/MOVE
		....	..111	QMDTYP	"7" RESERVED
		....	1...	QMDELE	"8" DELETE
9	(9)	CHARACTER	2	QMFLT	RESERVED
11	(B)	CHARACTER	1	QMTST	RESERVED
12	(C)	CHARACTER	2	QMTLN	RESERVED
14	(E)	CHARACTER	1	QMNOT	RESERVED
15	(F)	CHARACTER	1	QMTPY	RESERVED
16	(10)	CHARACTER	1	QMSTA	JOB STATUS BYTE
		1...	....	QMACLEX	"X'80'" PASSING 4 BYTE EPA ADDRESS
		..1.	....	QMEPAX	"X'40'" PASSING 16 BYTE EPAS
		..1.	....	QMSJNL	"X'20'" IF SET TO ONE, JOURNAL BLOCKS
		...1	....	QMCONDGM	"X'10'" IF SET TO ONE, DO COND. GETMAIN
17	(11)	CHARACTER	1	QMPRI	RESERVED
18	(12)	CHARACTER	2	QMLNK	RESERVED
20	(14)	SIGNED	4	QMPACLX	4 BYTE PTR TO EXTERNAL PARAMETER LIST
24	(18)	SIGNED	4	QMADD	ADDRESS OF ADDRESS TABLE (QMAT)
28	(1C)	SIGNED	4	QMSTO	ADDRESS OF STORAGE TABLE (QMST)
32	(20)	CHARACTER	4	QMPCL	PTR TO EXTRN PARM LIST
		..1.	....	QMPCM	"QMPCL" NO. OF RCRDS TO ASSIGN
		..1.	....	QMPNC	"QMPCL" NO. OF RCRDS TO READ/WRITE
		..1.	...1	QMPACL	"QMPCL+1" PTR TO EXTRN PARM LIST

THE FOLLOWING FIELD NAMES ARE USED ONLY FOR SWA FUNCTIONS

0	(0)	CHARACTER	1	QMSWSP	SWA SUBPOOL NUMBER
12	(C)	SIGNED	4	QMRBN	BLOCK NUMBER FOR THIS JOB

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
QMACLEX	10	80	QMLNK	12		QMREDALL	8	5
QMADD	18		QMNAM	0		QMSJNL	10	20
QMASGN	8	1	QMNOT	E		QMSTA	10	
QMASGS	8	0	QMPACL	20	21	QMSTO	1C	
QMCAN	0	0	QMPACLX	14		QMSWSP	0	
QMCONDGM	10	10	QMPCL	20		QMTLN	C	
QMCURVER	4	2	QMPCM	20	20	QMTPY	F	
QMDELE	8	8	QMPNC	20	20	QMTST	B	
QMDTYP	8	7	QMPPOP	8		QMVERS	4	
QMEPAX	10	40	QMPRI	11		QMWRTA	8	2
QMFLT	9		QMRBN	C		QMWRTALL	8	6
QMLGTH	6		QMREAD	8	4	QMW RTE	8	3

QPL

COMMON NAME: Queue Work Block Parameter List
 MACRO ID: ISGQPL
 DSECT NAME: QPL
 CREATED BY: ISGBTC
 SUBPOOL AND KEY: Subpool 229 of global resource serialization address space and key 0
 SIZE: 64 bytes
 POINTED TO BY: Register 1 when QWB service routine is invoked
 RSVQPLIP field of the RSV data area when the INSYS-COPY function of ISGGQWB0 is invoked
 RSVQPLOP field of the RSV data area when the OUTSYS-COPY function of ISGGQWB0 is invoked
 SERIALIZATION: None
 FUNCTION: There are two Queue Work Block Parameter Lists: one for copying QWBs into a system and one for copying QWBs out of a system. Both are used to communicate between the QWB service routine (ISGGQWB0) and the SEND/RECEIVE routine of ring processing (ISGBSM).

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	64	QPL	QWB PARAMETER LIST
0	(0)	ADDRESS	4	QPLORGIN	VIRTUAL ADDRESS OF INPUT AREA ORIGIN
4	(4)	SIGNED	4	QPLNOQWB	NUMBER OF QWB IMAGES IN INPUT AREA
8	(8)	ADDRESS	4	QPLNREQ	RELATIVE ADDRESS FROM ORIGIN OF FIRST NEW REQUEST INPUT AREA OR ZERO
12	(C)	ADDRESS	4	QPLCREQ	RELATIVE ADDRESS FROM ORIGIN OF FIRST CONTINUATION REQUEST IN INPUT AREA OR ZERO
16	(10)	ADDRESS	4	QPLFCR	VIRTUAL ADDRESS OF FIRST COMPLETE REQUEST THAT WAS INSYS COPIED OR ZERO.
20	(14)	ADDRESS	4	QPLLCR	VIRTUAL ADDRESS OF LAST COMPLETE REQUEST THAT WAS INSYS COPIED OR ZERO.
24	(18)	ADDRESS	4	QPLIR	VIRTUAL ADDRESS OF INCOMPLETE INSYS COPIED REQUEST OR ZERO.
28	(1C)	UNSIGNED	4	QPLINDIC	INDICATORS
28	(1C)	UNSIGNED	1	QPLFCPRS	QWB COMPRESSION CODE SEE COMPRESSION CODES BELOW
29	(1D)	BITSTRING	3	QPLFLAGS	FLAGS
		1... ..		QPLFIOC	FUNCTION CODE FOR ISGGQWB1 0 INDICATES PERFORM INSYS COPY FUNCTION TO INITIALIZE QWBs. 1 INDICATES PERFORM OUTSYS COPY FUNCTION TO CREATE QWB IMAGES
29	(1D)	BITSTRING	2	QPLFRSV1	RESERVED
32	(20)	ADDRESS	4	QPLOSFSA	ADDRESS OF OUTPUT BUFFER FREE SPACE
36	(24)	SIGNED	4	QPLOSFSL	LENGTH OF OUTPUT BUFFER FREE SPACE
40	(28)	ADDRESS	4	QPLOSFCL	VIRTUAL ADDRESS OF FIRST COMPLETE REQUEST TO BE OUTSYS COPIED OR ZERO.
44	(2C)	ADDRESS	4	QPLOSLCR	VIRTUAL ADDRESS OF LAST COMPLETE REQUEST THAT WAS SUCCESSFULLY OUTSYS COPIED OR ZERO.
48	(30)	ADDRESS	4	QPLOSIR	VIRTUAL ADDRESS OF INCOMPLETE REQUEST TO BE OUTSYS COPIED OR ZERO.
52	(34)	SIGNED	4	QPLOSQCT	COUNT OF QWBs (HEAD QWBs AND EXTENSIONS) COPIED INTO THE OUTPUT BUFFER
56	(38)	ADDRESS	4	QPLDYNAD	ADDRESS OF STORAGE USED AS DYNAMIC STORAGE BY ISGGQWB1. SIZE OF STORAGE IS GIVEN BY CONSTANT SMPTWKAS (SIZE OF TINY WORK AREA) IN SMPL MAPPING.
60	(3C)	CHARACTER	4	QPLRSV3	RESERVED

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
QPL	0		QPLFRSV1	1D		QPLOSFCR	28	
QPLCREQ	C		QPLINDIC	1C		QPLOSFSA	20	
QPLDYNAD	38		QPLIR	18		QPLOSFSL	24	
QPLFCPRS	1C		QPLLCR	14		QPLOSIR	30	
QPLFCR	10		QPLNOQMB	4		QPLOSLCR	2C	
QPLFIOC	1D	80	QPLNREQ	8		QPLOSQCT	34	
QPLFLAGS	1D		QPLORGIN	0		QPLRSV3	3C	

QWA

COMMON NAME: Queue Work Area
 MACRO ID: ISGQWA
 DSECT NAME: QWA
 CREATED BY: ISGNCBIM
 SUBPOOL AND KEY: Subpool 245 and key 0
 SIZE: 896 bytes
 POINTED TO BY: Local QWA - GVTLQWA
 Global QWA - GVTGQWA
 SERIALIZATION: Local QWA - CMS ENQ/DEQ Class Lock
 Global QWA - Global Serialization Local Lock
 FUNCTION: Used as a common work area for the ENQ/DEQ/RESERVE processing routines.

OFFSETS						
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION	
0	(0)	DBL WORD	8 (0)			
0	(0)	CHARACTER	4	QWAID	CONTROL BLOCK IDENTIFIER	
4	(4)	CHARACTER	48	QWABASIC	QWA BASIC SECTION THIS IS THE ONLY SECTION OF THE QWA THAT CAN BE MAPPED TO THE RB EXTENDED SAVEAREA OR THE RMP1 WORK AREA	
4	(4)	ADDRESS	4	QWAPELA	INPUT PEL ADDRESS	
8	(8)	BITSTRING	1	QWAKEY	REQUESTOR S KEY	
9	(9)	RITSTRINC	1	QWARETRY	ID FOR RETRY ADDRESS	
10	(A)	CHARACTER	1	QWARSVD3 (2)	RESERVED	
12	(C)	SIGNED	4	QWAPT1	PT OPERAND 1	
16	(10)	SIGNED	4	QWAPT2	PT OPERAND 2	
20	(14)	CHARACTER	28	QWARSA	REQUEST SAVE AREA THIS AREA IS MOVED TO THE QWBHRSR WHEN A GLOBAL RESOURCE IS REQUESTED.	
20	(14)	ADDRESS	4	QWAMRBQ	POINTER TO FIRST MESSAGE IN MRB QUEUE	
24	(18)	BITSTRING	1	QWAERR	FIRST DIGIT OF ABEND CODE	
25	(19)	CHARACTER	1	QWARSVD4	RESERVED	
26	(1A)	SIGNED	2	QWAPFLGS	SAVED PEL FLAGS	
26	(1A)	BITSTRING	1	QWAPLAST	SAVED PELLAST FLAG BYTE	
		1... ..		QWAEOL	"X'80'" PELEOL	
		.1.. ..		QWAIGNOR	"X'40'" PELIGNOR	
		..1.		QWARES1	"X'20'" PELRES1	
		...1		QWASHR	"X'10'" PELSHR	
		.... 1...		QWASAVE	"X'08'" PELSAVE	
		.... .1..		QWAGEN1	"X'04'" PELGEN1	
		.... ..1.		QWAGEN2	"X'02'" PELGEN2	
		.... ...1		QWATCBF	"X'01'" PELTCBF	
27	(1B)	BITSTRING	1	QWAPFLAG	SAVED PELFLAG FLAG BYTE	
		1... ..		QWASHARE	"X'80'" PELSHARE	
		.1.. ..		QWASCP1	"X'40'" PELSCP1	
		..1.		QWASYSMC	"X'20'" PELSYSMC	
		...1		QWASTPMC	"X'10'" PELSTPMC	
		.... 1...		QWASCP2	"X'08'" PELSCP2	
		.... .1..		QWARET1	"X'04'" PELRET1	
		.... ..1.		QWARET2	"X'02'" PELRET2	
		.... ...1		QWARET3	"X'01'" PELRET3	

THE FOLLOWING FLAGS ARE INITIALIZED IN THE QWA BY THE ENQ/DEQ/RESERVE MAINLINE ROUTINE. WHEN A GLOBAL RESOURCE REQUEST IS PROCESSED BY THE GRP, THIS DATA IS MOVED TO THE QWB HEADER (QWBHFLG1). WHEN THE ENQ/DEQ/RESERVE SVRB IS POSTED, THE INFORMATION IS MOVED BACK TO THE QWA. THEREFORE THE BIT DEFINITIONS OF QWBHFLG1 MUST MATCH THE BIT DEFINITIONS OF QWAFLAG1.

28	(1C)	BITSTRING	1	QWAFLAG1	QWA PROCESS FLAGS
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OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
		1... ..		QWASTLC	"X'80'" STEAL PROCESSING IS NOW COMPLETE, I.E., STEAL QWB(S) HAVE BEEN PLACED ON THE REQUEST QUEUE IF NECESSARY.
		.1..		QWASMC	"X'40'" SET SMC STATUS
		..1.		QWARMC	"X'20'" RESET SMC STATUS
		...1		QWASPOST	"X'10'" SPOST IS NECESSARY
		.... 1..		QWAINI	"X'08'" AN INTERNALLY GENERATED REQUEST
		.... .1..		QWALNGWT	"X'04'" A LONG WAIT IS NECESSARY
		.... ..1.		QWAPC	"X'02'" PC HAS BEEN ISSUED
		.... ...1		QWAPURG	"X'01'" INDICATE ISGGDEQP HAS PURGED THE QWB THAT WAS MAPPED TO THIS QWA.

THE FOLLOWING FLAGS ARE INITIALIZED IN THE QWA BY THE ENQ/DEQ/RESERVE MAINLINE ROUTINE. WHEN A GLOBAL RESOURCE IS REQUESTED, MAINLINE FRONT-END PROCESSING WILL MOVE THIS FLAG BYTE TO QWBHFLG2. THEREFORE THE BIT DEFINITIONS OF QWAFLAG2 MUST MATCH THE BIT DEFINITIONS OF QWBHFLG2.

29	(1D)	BITSTRING	1	QWAFLAG2	QWA STATUS FLAGS
		1... ..		QWAMIXR	"X'80'" MIXED RESOURCE REQUEST
		.1..		QWATCBFA	"X'40'" REQUESTING TASK WAS ABENDING WHEN THE REQUEST WAS RECEIVED
		..1.		QWAAUTH	"X'20'" REQUESTOR IS AUTHORIZED
		...1		QWAGLBL	"X'10'" GLOBAL RESOURCES DEFINED IN THE QWB
		.... 1..		QWAECBF	"X'08'" ECB= SPECIFIED
		.... .1..		QWASVC56	"X'04'" ENQ/RESERVE REQUEST
		.... ..1.		QWAABDMC	"X'02'" THE TASK OR ADDRESS SPACE HAS TERMINATED IN MC
		.... ...1		QWASYNCC	"X'01'" SYNCHRONIZATION COMPLETE
30	(1E)	SIGNED	2	QWAGRES	FOR ENQ REQUESTS, THE NUMBER OF GLOBAL RESOURCES FOR WHICH NO QEL WAS PUT IN QUEUE. FOR DEQ REQUESTS, THE NUMBER OF GLOBAL RESOURCES FOR WHICH A QEL WAS REMOVED FROM QUEUE.
32	(20)	ADDRESS	4	QWAECSA	ECB ADDRESS THIS FIELD IS REPLACED BY QWAQWBA WHEN THE QWABASIC SECTION MAPS TO THE SVRB EXTENDED SAVEAREA
32	(20)	ADDRESS	4	QWAQWBA	DUAL USE FIELD. THIS FIELD WILL ONLY EXIST IN THE SVRB QWA WHEN AN ENQ/DEQ REQUESTOR IS SUSPENDED. IF A LOCAL RESOURCE IS BEING PROCESSED, THIS FIELD CONTAINS ZEROES. IF A GLOBAL RESOURCE IS BEING PROCESSED THIS FIELD CONTAINS THE ADDRESS OF THE FIRST QWB DEFINING THE REQUEST. THIS ENSURES THE QWB ADDRESS IS MADE AVAILABLE TO THE MAINLINE ESTAE ROUTINE SHOULD AN ERROR OCCUR OVER THE GLOBAL SUSPENSION.
36	(24)	ADDRESS	4	QWATCBA	REQUESTOR S (OR DIRECTED) TCB ADDRESS
40	(28)	ADDRESS	4	QWASVRBA	SVRB ADDRESS FOR THIS REQUEST
44	(2C)	ADDRESS	4	QWAQXB	ADDRESS OF QXB

END OF RSA SECTION

48	(30)	BITSTRING	1	QWAFLAG3	REQUEST PROCESSING FLAGS THESE FLAGS ARE NOT TRANSPOSED TO THE QWB
		1... ..		QWACMS	"X'80'" CMS LOCK HELD
		.1..		QWAFRR	"X'40'" FRR ESTABLISHED
		..1.		QWAREQLL	"X'20'" REQUESTOR S LOCAL LOCK
		...1		QWAGRSLL	"X'10'" GRS LOCAL LOCK
		.... 1..		QWA3ERSQ	"X'08'" EARLY RESERVE QUEUE FLAG. IF 1, THE ENQ/DEQ REQUEST HAS A GLOBAL RESOURCE WITH THE SAME NAME AS AN EARLY RESERVE LOCAL RESOURCE. EVERY QWB OF THE REQUEST MUST BE PLACED ON THE EARLY RESERVE QUEUE.
		.... .1..		QWA3RSV3	"X'04'" RESERVED
		.... ..1.		QWA3RSV2	"X'02'" RESERVED
		.... ...1		QWA3RSV1	"X'01'" RESERVED
49	(31)	BITSTRING	1	QWAFLAG4	REQUEST PROCESSING FLAGS THESE FLAGS ARE NOT TRANSPOSED TO THE QWB
		1... ..		QWABADML	"X'80'" BAD MINOR LENGTH SPECIFIED

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
		.1.		QWADMGE	"X'40'" TRIGGERS Q DAMAGE MESSAGE
		..1.		QAWAITN	"X'20'" WAITING QEL FOUND (NOT ECB)
		...1		QWAIDEQ	"X'10'" AT LEAST 1 QEL DEQUEUED
		.... 1..		QWA4RSV1	"X'08'" RESERVED
		.... .1..		QAWAIT	"X'04'" WAIT WITHIN ENQ/DEQ
		.... ..1.		QWAMVCP	"X'02'" ISSUE MVCP EITHER USER IS NOT AUTHORIZED OR THE INPUT PEL COULD NOT BE CONTAINED IN THE SQA QWB
		.... ...1		QWANOENQ	"X'01'" TURN OFF ALL ENQ S
50	(32)	BITSTRING	1	QWAFLAG5	REQUEST PROCESSING FLAGS THESE FLAGS ARE NOT TRANSPOSED TO THE QWB
		1...		QWAGLBLQ	"X'80'" THE GLOBAL ASCB QEL QUEUE IS BEING SEARCHED
		.1.		QWARMFP	"X'40'" RMF HAS BEEN CALLED
		..1.		QWAHOLD	"X'20'" ISSUE ENQHOLD SYSEVENT
		...1		QWAQXBO	"X'10'" QXB OBTAINED
		.... 1..		QWACSYID	"X'08'" REQUEST WAS INITIATED FROM THE CURRENT SYSTEM
		.... .1..		QWAPHLDR	"X'04'" QSCAN PLACE HOLDER QCB IS BEING PURGED
		.... ..1.		QWAMOD24	"X'02'" REQUEST WAS INITIATED IN 24 BIT AMODE
		.... ...1		QWAGBLRS	"X'01'" TASK OWNS GLOBAL RESOURCES
51	(33)	BITSTRING	1	QWAFLAG6	QWA STATUS FLAGS
		1...		QWAR15SH	"X'80'" NON ZERO RETURN CODE PRESENT
		.1.		QWA6ECBZ	"X'40'" ECB ZERO FLAG. ECB OPERAND WAS SPECIFIED, WITH ECB ADDRESS OF ZERO. SET FLAG QELECBZ.
		..1.		QWA6MTDQ	"X'20'" MASID TARGET DEQ. A QEL WAS DEQ ED WHILE IT IS THE TARGET OF ANOTHER QEL THAT HAS A NON ZERO QELMASID.
		...1		QWA6ARV5	"X'10'" RESERVED
		.... 1..		QWA6ARV4	"X'08'" RESERVED
		.... .1..		QWA6ARV3	"X'04'" RESERVED
		.... ..1.		QWA6ARV2	"X'02'" RESERVED
		.... ...1		QWA6ARV1	"X'01'" RESERVED
		..11 .1..		QWAEND1	"*" END BASIC SECTION

NOTE THAT THE FOLLOWING FIELDS ARE NOT INCLUDED IN THE SVRB QWA

52	(34)	CHARACTER	140	QWARDA	REQUEST DATA AREA
52	(34)	CHARACTER	16	QWARSA2	SECOND REQUEST SAVE AREA (MOVED TO THE QWB)
52	(34)	CHARACTER	8	QWAJOBNM	JOBNAME/USERID OF REQUESTOR
60	(3C)	SIGNED	4	QWAORIGN	ORIGIN OF REQUESTOR
60	(3C)	SIGNED	2	QWASYSID	SYSID OF REQUESTOR
62	(3E)	SIGNED	2	QWAASID	ASID OF REQUESTOR
64	(40)	ADDRESS	4	QWAASCB	IF ENQ/DEQ/RESERVE, ADDRESS OF REQUESTOR S ASCB. IF PURGE REQUEST, ADDRESS OF TARGET ASCB.

END OF RSA2 SECTION

68	(44)	SIGNED	4	QWALOCLR	COUNT OF LOCAL RESOURCES REQUESTED
72	(48)	SIGNED	4	QWAGLBLR	COUNT OF GLOBAL RESOURCES REQUESTED
76	(4C)	SIGNED	4	QWAQWBS	COUNT OF QWB S REQUIRED TO CONTAIN A GLOBAL RESOURCE REQUEST.
80	(50)	SIGNED	4	QWAFREEC	COUNT OF QCB/QEL/QXB S TO BE FREED
84	(54)	SIGNED	4	QWACPELR	COUNT OF PEL ENTRIES REMAINING TO BE MOVED TO THE PRIVATE AREA QWB(S)
88	(58)	SIGNED	4	QWAPRMSZ	TOTAL SIZE OF INPUT PEL
92	(5C)	SIGNED	4	QWANMESZ	TOTAL SIZE OF QNAME/RNAME S IN PEL
96	(60)	SIGNED	2	QWAQWBSZ	AVAILABLE BYTES IN A PRIVATE AREA QWB
98	(62)	SIGNED	2	QWACSYS	CURRENT SYSID (0 FOR A LOCAL RESOURCE REQUEST)
100	(64)	ADDRESS	4	QWAQWBHS	ADDRESS OF THE QWB HEADER AND SMPL. IF A LOCAL RESOURCE IS BEING PROCESSED, CONTAINS THE ADDRESS OF THE SQA QWB. IF A GLOBAL RESOURCE IS BEING PROCESSED, CONTAINS THE ADDRESS OF A PRIVATE AREA QWB.
104	(68)	ADDRESS	4	QWAQWBF	ADDRESS OF FIRST QWB ON THE REQUEST HOLD QUEUE
108	(6C)	ADDRESS	4	QWAQWBL	ADDRESS OF LAST QWB ON THE AVAILABLE HOLD QUEUE
112	(70)	ADDRESS	4	QWAFQEL	ADDRESS OF FIRST INITIALIZED QEL FOR THE CURRENT REQUEST

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
116	(74)	ADDRESS	4	QWACOQWB	CURRENT OUTPUT QWB ADDRESS I.E. THE PRIVATE AREA QWB(S) TO CONTAIN THE GLOBAL RESOURCE(S).
120	(78)	ADDRESS	4	QWACIQWB	CURRENT INPUT QWB ADDRESS, I.E., THE SQA QWB OR SQA QWB EXTENSIONS.
124	(7C)	ADDRESS	4	QWANSLOT	NEXT QWB SLOT
128	(80)	ADDRESS	4	QWAHASH	HASH TABLE SLOT OF INPUT RESOURCE NAME
132	(84)	ADDRESS	4	QWAFQWB	ADDRESS OF FIRST QWB DEFINING THE GLOBAL REQUEST
136	(88)	ADDRESS	4	QWAPPELE	PREVIOUS PEL ENTRY
140	(8C)	ADDRESS	4	QWAGSA	ADDRESS OF LOCAL OR GLOBAL GSA
144	(90)	CHARACTER	20	QWADPL	DEQ PURGE LIST
164	(A4)	CHARACTER	12	QWARMFPL	RMF PARAMETER LIST
176	(B0)	ADDRESS	4	QWAGVTAD	ADDRESS OF GVT
180	(B4)	CHARACTER	12	QWARSVD1	RESERVED
		11..		QWAEND2	"*" END OF AREA CLEARED
192	(C0)	SIGNED	4	QWAWORK1	GENERAL PURPOSE WORKAREA

SAVEAREAS FOLLOW. NOTE THE FOLLOWING PROTOCOL FOR USE OF THESE SAVEAREAS. SAVEAREAS 1-3 CAN BE USED BY ANY ROUTINE WITH CORRECT SERIALIZATION BUT CANNOT BE USED BETWEEN MODULES. (ISGGNQDQ, ISGGQWBC, AND ISGGPGRP ARE COUNTED AS ONE MODULE IN APPLYING THIS RULE.)

ISGGNQDQ PLACES THE ADDRESS OF QWASAVE1 IN REGISTER 13 BEFORE CALLING ISGGQWBC OR ISGGPGRP. THESE MODULES MUST NOT USE QWASAVE1.

SAVEAREA 4 IS USED BY ISGGRP00 TO INTERFACE WITH ISGGNQDQ AND ISGGDEQP, AND BY ISGGNQDQ TO CALL ISGGQWBI.

(NOTE: THE SAVEAREA IS USED FOR ISGGQWBI IN THE FRONT-END OF ISGGNQDQ, AND IS USED BY ISGGRP00 IN THE BACK-END PROCESSING DONE BY ISGGNQDQ.)

SAVEAREA 5 IS USED BY ISGGDEQP TO INTERFACE WITH ISGGNQDQ AND BY ISGGQWBI IN CALLING EXTERNAL ROUTINES.

(ISGGDEQP PLACES THE ADDRESS OF QWASAVE5 IN REGISTER 13 BEFORE CALLING ENTRY-POINT ISGGDQ00 OF ISGGNQDQ. ISGGQWBI IS NOT CALLED ON THIS PATH, WHICH IS BACK-END PROCESSING.)

196	(C4)	SIGNED	4	QWASAVE1 (18)	SAVE AREA 1 LEVEL 1 S.A.
268	(10C)	SIGNED	4	QWASAVE2 (18)	SAVE AREA 2 LEVEL 2 S.A.
340	(154)	SIGNED	4	QWASAVE3 (18)	SAVE AREA 3 LEVEL 3 S.A.
412	(19C)	SIGNED	4	QWASAVE4 (18)	SAVE AREA 4 FOR GRP00 AND GQWBI
484	(1E4)	SIGNED	4	QWASAVE5 (18)	SAVEAREA 5 USED ONLY BY ISGGDEQP AND ISGGQWBI
556	(22C)	ADDRESS	4	QWAS1R14	REGISTER 14 SUBROUTINE SAVEAREA 1
560	(230)	ADDRESS	4	QWAS2R14	REGISTER 14 SUBROUTINE SAVEAREA 2
564	(234)	ADDRESS	4	QWAS3R14	REGISTER 14 SUBROUTINE SAVEAREA 3
568	(238)	ADDRESS	4	QWAS4R14	REGISTER 14 SUBROUTINE SAVEAREA 4
572	(23C)	ADDRESS	4	QWAE1R13	REGISTER 13 ENTRY POINT SAVEAREA 1
576	(240)	ADDRESS	4	QWAGRP13	SAVEAREA TO CONTAIN THE SAVEAREA ADDRESS PROVIDED BY THE ATTACH OF GRP.
580	(244)	CHARACTER	52	QWATRMRM	ENQ/DEQ TERMINATION RESOURCE MANAGER WORK AREA.
580	(244)	CHARACTER	8	QWASTPNM	STEPNAME OF TERMINATING TASK
588	(24C)	BITSTRING	1	QWARMFLG	RESOURCE MANAGER FLAGS
		1...		QWAJSTEP	"X'80'" WHEN 1, JOBSTEP IS TERMINATING
		.1..		QWARMV7	"X'40'" RESERVED
		..1.		QWARMV6	"X'20'" RESERVED
		...1		QWARMV5	"X'10'" RESERVED
		.... 1..		QWARMV4	"X'08'" RESERVED
		.... .1..		QWARMV3	"X'04'" RESERVED
		.... ..1.		QWARMV2	"X'02'" RESERVED
		.... ...1		QWARMV1	"X'01'" RESERVED
589	(24D)	CHARACTER	3	QWARMR01	RESERVED

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
592	(250)	CHARACTER	4	QWACCODE	COMPLETION CODE
592	(250)	CHARACTER	3	QWACOMPC	SYSTEM COMPLETION CODE IS FIRST 12 BITS. USER COMPLETION CODE IS LAST 12 BITS.
595	(253)	CHARACTER	1	QWACCRV1	RESERVED
596	(254)	ADDRESS	4	QWARB	CURRENT RB
600	(258)	CHARACTER	32	QWARUBTM	REGISTER UPDATE BLOCK FOR ISGGTRM1 RECOVERY
632	(278)	CHARACTER	64	QWAPGRWA	WORK AREA USED BY ISGGPGRP
696	(2B8)	CHARACTER	12	QWAPGROA	OUTPUT AREA PRODUCED BY ISGGPGRP.
696	(2B8)	BITSTRING	1	QWAFLAG7	FIRST FLAG BYTE FROM ISGGPGRP.
		1... ..		QWA7OWNR	"X'80'" REQUESTOR OWNS RESORCE, OR REQUESTOR IS NOT ON QEL CHAIN BUT WILL OWN RESOURCE WHEN ITS QEL IS ADDED TO THE QEL CHAIN
		.1.. ..		QWA7AURC	"X'40'" ADJUST UCB RESERVE COUNT. IF 1, THE CALLER SHOULD INCREASE THE UCB RESERVE COUNT (ENQ/RESERVE) OR REDUCE THE COUNT (DEQ). (THIS ADJUSTMENT SHOULD BE DONE ONLY IF THE CALLER FINDS THAT THE RESERVE CONVERSION RNLE DOES NOT SUPPRESS THE RESERVE). VALID ONLY IN ORIGINATING SYSTEM.
		..1.		QWA7CHGA	"X'20'" EXCLUSIVE CONTROL ALLOWED. IF ENQ RET=CHNG: THE MATCH QEL IS THE ONLY QEL THAT OWNS THE RESOURCE. IF MASID ENQ: EXCLUSIVE CONTROL IS ALLOWED IMMEDIATELY. IF MASID ENQ CASE: VALID ONLY IN ORIGINATING SYSTEM.
		...1		QWA7HOLD	"X'10'" ISSUE SYSEVENT HOLD(S).
		.... 1..		QWA7POST	"X'08'" POST A QEL OR QELS.
		.... .1..		QWA7RLSE	"X'04'" ISSUE SYSEVENT RLSE(S).
		.... ..1.		QWA7COEX	"X'02'" COEXISTENCE RETURN CODE FLAG. IF 1, THIS SYSTEM COULD NOT HONOR AN EXCLUSIVE ENQ WITH MASID OPERAND BECAUSE THE RESOURCE IS SHARED. VALID ONLY IN ORIGINATING SYSTEM.
		.... ...1		QWA7ABMR	"X'01'" MASID RESTRICTION VIOLATED. ENQ WITH MASID VIOLATES A RESTRICTION, OR DEQ RELEASES A RESOURCE USED AS A MASID TARGET. VALID ONLY IN ORIGINATING SYSTEM.
697	(2B9)	BITSTRING	1	QWAFLAG8	SECOND FLAG BYTE FROM ISGGPGRP.
		1... ..		QWA8EXSH	"X'80'" EXC/SHR. 1 MEANS RC=8 ENQ SHOULD REPORT SHR CONTROL VALID ONLY IN ORIGINATING SYSTEM.
		.1..		QWA8RSV7	"X'40'" RESERVED.
		..1.		QWA8RSV6	"X'20'" RESERVED.
		...1		QWA8RSV5	"X'10'" RESERVED.
		.... 1..		QWA8RSV4	"X'08'" RESERVED.
		.... .1..		QWA8RSV3	"X'04'" RESERVED.
		.... ..1.		QWA8RSV2	"X'02'" RESERVED.
		.... ...1		QWA8RSV1	"X'01'" RESERVED.
698	(2BA)	SIGNED	2	QWAGPMAS	MASID VALUE TO BE PLACED IN NEW QEL (IF ANY).
700	(2BC)	ADDRESS	4	QWAMQLAD	ADDRESS OF MATCH QEL (OUTPUT
704	(2C0)	ADDRESS	4	QWADSTAD	DEFERRED STEAL ADDRESS. ADDRESS OF A QEL THAT CAN NOW BE STOLEN WHEN A MASIDQEL IS DEQ ED. VALID ONLY IN ORIGINATING SYSTEM.

END OF ISGGPGRP OUTPUT AREA

708	(2C4)	ADDRESS	1	QWAPGRFN	FUNCTION CODE FOR ISGGPGRP
		.... ...1		QWAPGFMS	"X'01'" FUNCTION MASID SCAN
		.... ..1.		QWAPGFEQ	"X'02'" FUNCTION ENQ
		.... ...11		QWAPGFDQ	"X'03'" FUNCTION DEQ
709	(2C5)	CHARACTER	1	QWARSVD5	RESERVED
710	(2C6)	SIGNED	2	QWAFMTVL	VALUE OF FORMAT BYTE THAT PRECEDES FIRST PEL, OR ZERO.
712	(2C8)	SIGNED	4	QWASEHCT	COUNT OF SYSEVENT HOLDS TO BE ISSUED.
716	(2CC)	SIGNED	4	QWAPSTCT	COUNT OF POSTS TO BE ISSUED.
720	(2D0)	SIGNED	4	QWASERCT	COUNT OF SYSEVENT RLSES TO BE ISSUED.
724	(2D4)	ADDRESS	4	QWASEHAD	ADDRESS OF FIRST QEL TO BE TARGET OF SYSEVENT HOLD.
728	(2D8)	ADDRESS	4	QWAPSTAD	ADDRESS OF FIRST QEL TO BE TARGET OF POST.
732	(2DC)	ADDRESS	4	QWASERAD	ADDRESS OF FIRST QEL TO BE TARGET OF SYSEVENT RLSE.
736	(2E0)	CHARACTER	32	QWACL2B	BEGINNING OF SECOND QWA SECTION THAT IS CLEARED AT BEGINNING OF ENQ OR DEQ REQUEST

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
736	(2E0)	CHARACTER	24	QWANPEL	BEGINNING OF PARAMETERS FROM NEW FORMAT PEL PREFIX. THIS FIELD IS SENT TO OTHER SYSTEMS IN FIELDS QWBXRSA3 AND QWBXR3LN OF MAPPING MACRO ISGQWB.
736	(2E0)	ADDRESS	4	QWANPTCB	TCB ADDRESS OR ZERO
740	(2E4)	ADDRESS	4	QWANPECB	ECB ADDRESS OR ZERO
744	(2E8)	SIGNED	4	QWANPMAS	MASID OPERAND OR ZERO
748	(2EC)	ADDRESS	4	QWANPMTC	MTCB OPERAND OR ZERO
752	(2F0)	CHARACTER	8	QWARSVC4	RESERVED.
760	(2F8)	ADDRESS	4	QWANPEND (0)	END OF PARAMETERS FROM NEW FORMAT PEL PREFIX.

END OF QWANPEL SECTION

760	(2F8)	BITSTRING	1	QWAFLAG9	FLAG BYTE
		1... ..		QWA9CNPP	"X'80'" COPY NEW FORMAT PEL PREFIX FLAG. USED BY ISGGQWBI.
		.1.. ..		QWA9DSTL	"X'40'" DEFERRED STEAL NEEDED. USED BY XDEQEL SUBROUTINE OF ISGGNQDQ.
		..1.		QWA9RSV6	"X'20'" RESERVED.
		...1		QWA9RSV5	"X'10'" RESERVED.
		.... 1..		QWA9RSV4	"X'08'" RESERVED.
		.... .1.		QWA9RSV3	"X'04'" RESERVED.
		.... ..1.		QWA9RSV2	"X'02'" RESERVED.
		.... ....1		QWA9RSV1	"X'01'" RESERVED.
761	(2F9)	CHARACTER	7	QWARSVD6	RESERVED

END OF QWACLR2B SECTION

768	(300)	CHARACTER	120	QWAERSVB	BUFFER FOR EARLY RESERVE MESSAGES ISSUED THROUGH RECORD MACRO.
888	(378)	DBL WORD	8	QWAEND3 (0)	END QWA

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
QWAABDMC	1D	2	QWANMESZ	5C		QWASAVE2	10C	
QWAASCB	40		QWANOENQ	31	1	QWASAVE3	154	
QWAASID	3E		QWANPECB	2E4		QWASAVE4	19C	
QWAAUTH	1D	20	QWANPEND	2F8		QWASAVE5	1E4	
QWABADML	31	80	QWANPMAS	2E8		QWASCOPE1	1B	40
QWABASIC	4		QWANPMTC	2EC		QWASCOPE2	1B	8
QWACCODE	250		QWANPTCB	2E0		QWASEHAD	2D4	
QWACCRV1	253		QWANSLOT	7C		QWASEHCT	2C8	
QWACIQMB	78		QWANWPEL	2E0		QWASERAD	2DC	
QWACLRL2B	2E0		QWAORIGN	3C		QWASERCT	2D0	
QWACMS	30	80	QWAPC	1C	2	QWASHARE	1B	80
QWACOMPC	250		QWAPELA	4		QWASHR	1A	10
QWACQMB	74		QWAPFLAG	1B		QWASMC	1C	40
QWACPCLR	54		QWAPFLGS	1A		QWASPOST	1C	10
QWACSYID	32	8	QWAPGFDQ	2C4	3	QWASTLC	1C	80
QWACSYS	62		QWAPGFEQ	2C4	2	QWASTPMC	1B	10
QWADMGE	31	40	QWAPGFMS	2C4	1	QWASTPNM	244	
QWADPL	90		QWAPGRFN	2C4		QWASVC56	1D	4
QWADSTAD	2C0		QWAPGROA	2B8		QWASVRBA	28	
QWAECCA	20		QWAPGRWA	278		QWASYNCC	1D	1
QWAECCBF	1D	8	QWAPHLDR	32	4	QWASYSID	3C	
QWAEND1	33	34	QWAPLAST	1A		QWASYSMC	1B	20
QWAEND2	B4	C0	QWAPPELE	88		QWAS1R14	22C	
QWAEND3	378		QWAPRMSZ	58		QWAS2R14	230	
QWAEOL	1A	80	QWAPSTAD	2D8		QWAS3R14	234	
QWAERR	18		QWAPSTCT	2CC		QWAS4R14	238	
QWAERSVB	300		QWAPT1	C		QWATCBA	24	
QWAE1R13	23C		QWAPT2	10		QWATCBF	1A	1
QWAFLAG1	1C		QWAPURG	1C	1	QWATCBFA	1D	40
QWAFLAG2	1D		QWAQNB	20		QWATRMRM	244	
QWAFLAG3	30		QWAQNBFB	68		QWAWAIT	31	4
QWAFLAG4	31		QWAQNBHS	64		QWAWAITN	31	20
QWAFLAG5	32		QWAQNBEL	6C		QWAWORK1	C0	
QWAFLAG6	33		QWAQNBS	4C		QWAIDEQ	31	10
QWAFLAG7	2B8		QWAQNBBSZ	60		QWA3ERSQ	30	8
QWAFLAG8	2B9		QWAQXB	2C		QWA3RSV1	30	1
QWAFLAG9	2F8		QWAQXBO	32	10	QWA3RSV2	30	2
QWAFMTVL	2C6		QWARB	254		QWA3RSV3	30	4
QWAFQEL	70		QWARDA	34		QWA4RSV1	31	8
QWAFQNB	84		QWAREQLL	30	20	QWA6ARV1	33	1
QWAFREEC	50		QWARES1	1A	20	QWA6ARV2	33	2
QWAFRR	30	40	QWARETRY	9		QWA6ARV3	33	4
QWAGBLRS	32	1	QWARET1	1B	4	QWA6ARV4	33	8
QWAGEN1	1A	4	QWARET2	1B	2	QWA6ARV5	33	10
QWAGEN2	1A	2	QWARET3	1B	1	QWA6ECBZ	33	40
QWAGLBL	1D	10	QWARMC	1C	20	QWA6MTDQ	33	20
QWAGLBLQ	32	80	QWARMFLG	24C		QWA7ABMR	2B8	1
QWAGLBLR	48		QWARMFP	32	40	QWA7AURC	2B8	40
QWAGPMAS	2BA		QWARMFPL	A4		QWA7CHCA	2B8	20
QWAGRES	1E		QWARMRV1	24C	1	QWA7COEX	2B8	2
QWAGRP13	240		QWARMRV2	24C	2	QWA7HOLD	2B8	10
QWAGRSL	30	10	QWARMRV3	24C	4	QWA7ONNR	2B8	80
QWAGSA	8C		QWARMRV4	24C	8	QWA7POST	2B8	8
QWAGVTAD	B0		QWARMRV5	24C	10	QWA7RLSE	2B8	4
QWAHASH	80		QWARMRV6	24C	20	QWA8EXSH	2B9	80
QWAHOLD	32	20	QWARMRV7	24C	40	QWA8RSV1	2B9	1
QWAID	0		QWARMR01	24D		QWA8RSV2	2B9	2
QWAIGNOR	1A	40	QWARSA	14		QWA8RSV3	2B9	4
QWAIN	1C	8	QWARS2	34		QWA8RSV4	2B9	8
QWAJOBNM	34		QWARSVC4	2F0		QWA8RSV5	2B9	10
QWAJSTEP	24C	80	QWARSVD1	B4		QWA8RSV6	2B9	20
QWAKEY	8		QWARSVD3	A		QWA8RSV7	2B9	40
QWALNGMT	1C	4	QWARSVD4	19		QWA9CNPP	2F8	80
QWALOCLR	44		QWARSVD5	2C5		QWA9DSTL	2F8	40
QWAMIXR	1D	80	QWARSVD6	2F9		QWA9RSV1	2F8	1
QWAMOD24	32	2	QWARUBTM	258		QWA9RSV2	2F8	2
QWAMQLAD	2BC		QWAR15SW	33	80	QWA9RSV3	2F8	4
QWAMRBQ	14		QWASAVE	1A	8	QWA9RSV4	2F8	8
QWAMVCP	31	2	QWASAVE1	C4		QWA9RSV5	2F8	10

CROSS-REFERENCE TABLE

<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>	<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>	<u>NAME</u>	<u>HEX OFFSET</u>	<u>HEX VALUE</u>
QWA9RSV6	2F8	20						

QWB

COMMON NAME: Queue Work Block
 MACRO ID: ISGQWB
 DSECT NAME: QWB
 CREATED BY:

1. Global Resource Serialization private area QWB's - obtained by the ENQ/DEQ/RESERVE processing routines, ISGGQWBI
2. SQA QWB - during NIP by ISGNASIM and ISGGQWB0

SUBPOOL AND KEY:

1. Global Resource Serialization private area QWB's - subpool 229 and key 0
2. SQA QWB - subpool 245 and key 0

SIZE:

1. Global resource serialization private area QWB's - 464 bytes
2. SQA QWB - 4K

POINTED TO BY:

1. Global resource serialization private area QWB's - QWBHNQWB, QXBQWB
2. SQA QWB - GVTSQWB

SERIALIZATION: Both data areas require the CMS ENQ/DEQ class lock for serialization.
 FUNCTION: Used to describe a Global Resource Serialization resource request. A global resource request is described by a Global resource serialization private area QWB, while a local resource request is described by the SQA QWB.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	464	QWB	QUEUE WORK BLOCK
0	(0)	CHARACTER	60	QWBHDR	QWB HEADER
0	(0)	ADDRESS	4	QWBHNQWB	ADDRESS OF NEXT QWB
4	(4)	CHARACTER	28	QWBHRSA	QWB REQUEST SAVE AREA THIS AREA MAPS TO THE QWARSA
4	(4)	ADDRESS	4	QWBHMRBQ	POINTER TO FIRST MRB IN MESSAGE QUEUE. USED BY THE GRP TO RETURN PURGE MESSAGES TO REQUESTOR.
4	(4)	ADDRESS	4	QWBHNSYN	ADDRESS OF NEXT STEAL SYNCHRONIZATION QWB ON THE ASCB SYNC QUEUE
8	(8)	UNSIGNED	1	QWBHERR	FIRST DIGIT OF ABEND CODE
9	(9)	CHARACTER	1	QWBHRV3	RESERVED
10	(A)	UNSIGNED	2	QWBHPFLG	SAVED PEL FLAGS (QWAPLAST AND QWAPFLAG) OR COUNT OF GLOBAL RESOURCES REQUESTED.
10	(A)	UNSIGNED	2	QWBHGLBR	COUNT OF GLOBAL RESOURCES REQUESTED. VALID ONLY WHEN QWBHSYN=1.
10	(A)	UNSIGNED	1	QWBHPFL1	PELLAST FLAG BYTE
11	(B)	UNSIGNED	1	QWBHPFL2	PELFLAG FLAG BYTE

THE FOLLOWING FLAGS ARE ACCUMULATED IN THE QWA (QWAFLAG1) BY THE ENQ/DEQ/RESERVE MAINLINE ROUTINE. WHEN A GLOBAL RESOURCE REQUEST IS PROCESSED FROM THE GRP QWAFLAG1 IS MOVED TO QWBHFLG1. THE FLAGS ARE SUBSEQUENTLY MOVED BACK TO THE QWA AFTER THE ENQ/DEQ/RESERVE SVRB IS POST'D BY THE GRP. THEREFORE THE BIT DEFINITIONS OF QWBHFLG1 MUST MATCH THE BIT DEFINITIONS OF QWAFLAG1

12	(C)	BITSTRING	1	QWBHFLG1	QWB PROCESS FLAGS
		1... ..		QWBHSTLC	STEAL PROCESSING IS NOW COMPLETE, I.E., DEQ QWB(S) HAVE BEEN PLACED ON THE REQUEST QUEUE IF NECESSARY
		.1.. ..		QWBHSMC	INDICATES SET STEP MUST COMPLETE STATUS
		..1.		QWBHRMC	INDICATES RESET MUST COMPLETE STATUS
		....1		QWBHSPST	INDICATES SPOST IS NECESSARY
		.... 1...		QWBHINT	INDICATES AN INTERNALLY GENERATED ENQ/DEQ/RESERVE REQUEST. THE REQUESTOR WILL NOT BE POSTED.
		.... .1..		QWBHLNGW	NOTIFY WAIT THIS IS LONG WAIT
		.... ..1.		QWBHPC	PC HAS BEEN ISSUED
		.... ...1		QWBHPURG	INDICATES ISGGDEQP HAS PURGED THIS QWB. THIS IS NOTIFICATION TO ISGGNQDQ THAT THE DIRECTED ENQ/DEQ REQUESTOR SHOULD BE ABEND'D.

OFFSETS					
DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION

THE FOLLOWING FLAGS ARE INITIALIZED IN THE QWA (QWAFLAG2) BY THE ENQ/DEQ/RESERVE MAINLINE ROUTINE. WHEN A GLOBAL RESOURCE IS REQUESTED, THE FLAGS ARE MOVED TO THE QWB HEADER (QWBHFLG2). THEREFORE THE BIT DEFINITIONS OF QWAFLAG2 MUST MATCH THE BIT DEFINITIONS OF QWBHFLG2.

13	(D)	BITSTRING	1	QWBHFLG2	QWB STATUS FLAGS
		1... ..		QWBHMIXR	MIXED RESOURCE REQUEST
		.1.. ..		QWBHFA	REQUESTING TASK WAS ABENDING WHEN THE REQUEST WAS RECEIVED
		..1.		QWBHAUTH	REQUESTOR IS AUTHORIZED
		...1		QWBHGLBL	GLOBAL RESOURCES DEFINED IN THIS QWB
		.... 1...		QWBHECBF	ECB SPECIFIED
		.... .1..		QWBHSV56	ENQ/RESERVE REQUEST
		.... ..1.		QWBHABMC	THE TASK OR ADDRESS SPACE TERMINATED IN MC CHAIN MRB TO QWAMRBQ.
		.... ...1		QWBHSYCC	SYNCHRONIZATION COMPLETE
14	(E)	UNSIGNED	2	QWBHGRES	FOR ENQ REQUESTS, THE NUMBER OF GLOBAL RESOURCES FOR WHICH NO QEL HAS BEEN PLACED IN QUEUE. FOR DEQ REQUEST, THE NUMBER OF GLOBAL RESOURCES FOR WHICH A QEL HAS BEEN REMOVED FROM QUEUE
16	(10)	ADDRESS	4	QWBHECBA	ADDRESS OF INPUT ECB
20	(14)	ADDRESS	4	QWBHTCB	ADDRESS OF REQUESTOR S (OR DIRECTED) TCB
24	(18)	ADDRESS	4	QWBHRB	ADDRESS OF WAITING RB
28	(1C)	ADDRESS	4	QWBHQXB	CONTAINS THE ADDRESS OF A LOCAL QXB WHEN A MIXED RESOURCE REQUEST IS PRESENT (SAVED BY MAINLINE ENQ PRIOR TO SUSPENSION) OR CONTAINS THE ADDRESS OF A GLOBAL QXB WHEN ALL GLOBALS ARE PRESENT (SAVED BY THE GRP).

THE FOLLOWING FLAGS ARE USED BY THE GRP TO ROUTE CONTROL TO THE APPROPRIATE GLOBAL PROCESSING ROUTINE AND BY ISGGNQDQ TO DETERMINE WHETHER A QWBX IS PRESENT.

32	(20)	BITSTRING	1	QWBHFLG3	QWB REQUEST FLAGS
		1... ..		QWBHENQ	ENQ/RESERVE REQUEST
		.1.. ..		QWBHDEQ	DEQ REQUEST
		..1.		QWBHDTCB	DEQ BY TCB
		...1		QWBHDAS	DEQ BY ASID
		.... 1...		QWBHDSYS	DEQ BY SYSID
		.... .1..		QWBHSYCC	SYNCHRONIZATION REQUEST
		.... ..1.		QWBHXTNP	IF 1, THIS QWB HAS A QWBX THAT HAS ADDITIONAL INFORMATION THAT DOES NOT FIT IN THE QWBH
		.... ...1		QWBHECBZ	ECB ZERO FLAG. IF 1, FLAG QWA6ECBZ WAS ON WHEN THIS QWB WAS PLACED ON THE REQUEST QUEUE.
33	(21)	ADDRESS	1	QWBHNWPS	NUMBER OF 4 BYTE WORDS IN PEL/PELX SECTION THAT BEGINS AT QWBPEL
34	(22)	CHARACTER	2	QWBHRSV1	RESERVED
36	(24)	ADDRESS	4	QWBHSTL	ADDRESS OF THE REQUEST QWB(S) VALID ONLY WHEN QWBHSYCC=1 AND/OR QWBHMIXR=1 AND QWBHFA=1.
36	(24)	ADDRESS	4	QWBHTCBA	DEQ ARGUMENT TCB VALID ONLY IF THIS IS A TCB DEQ QWB.
40	(28)	UNSIGNED	4	QWBHTRGT	DEQ PURGE TARGET
40	(28)	UNSIGNED	2	QWBHDASY	DEQ ARGUMENT SYSID VALID ONLY IF THIS IS A SYSID, ASID OR TCB DEQ QWB
42	(2A)	UNSIGNED	2	QWBHDAAS	DEQ ARGUMENT ASID VALID ONLY IF THIS IS AN ASID OR TCB DEQ QWB.
44	(2C)	CHARACTER	16	QWBHRSA2	SECOND REQUEST SAVE AREA
44	(2C)	CHARACTER	8	QWBHJBNM	JOBNAME/USERID OF REQUESTOR
52	(34)	UNSIGNED	4	QWBHORIG	ORIGIN OF REQUESTOR
52	(34)	UNSIGNED	2	QWBHSYID	SYSID OF REQUESTOR
54	(36)	UNSIGNED	2	QWBHASID	ASID OF REQUESTOR
56	(38)	ADDRESS	4	QWBHASCB	IF ENQ/DEQ/RESERVE, ASCB ADDRESS OF REQUESTOR. IF PURGE REQUEST, ASCB ADDRESS OF TARGET ASCB. VALID ONLY ON THE ORIGINATING SYSTEM.

OFFSETS

DEC	HEX	TYPE	LENGTH	NAME	DESCRIPTION
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SMPL SECTION

60	(3C)	CHARACTER	96	QWBSMPL	DEFINES THE STORAGE REQUIRED TO SUPPORT THE QWB, QXB, QEL AND THE 3 QCB SIZES AS SMPL ENTRIES. NOTE IF QWBHMIXR=1 AND QWBHFA=1, THE SMPL CONTAINS ENTRIES FOR LOCAL AND GLOBAL CONTROL BLOCKS (THIS AREA IS EXPANDED BY ISGGNQDQ).
60	(3C)	CHARACTER	16	QWBSQWB	SMPL QWB ENTRY
76	(4C)	CHARACTER	16	QWBSQXB	SMPL QXB ENTRY
92	(5C)	CHARACTER	16	QWBSQEL	SMPL QEL ENTRY
108	(6C)	CHARACTER	16	QWBSQCB1	SMPL QCB SIZE1 ENTRY
124	(7C)	CHARACTER	16	QWBSQCB2	SMPL QCB SIZE2 ENTRY
140	(8C)	CHARACTER	16	QWBSQCB3	SMPL QCB SIZE3 ENTRY
156	(9C)	CHARACTER	308	QWBBASIC	QWB BASIC SECTION COMMON TO BOTH A QWB AND A QWB EXTENSION. IF DEFINED AS A QWB EXTENSION, THIS AREA MAPS TO THE BEGINNING OF THE QWB (I.E., QWBHDR THE HEADER AND SMPL DO NOT EXIST IN A QWB EXTENSION).
156	(9C)	ADDRESS	4	QWBEXTA	ADDRESS OF QWB EXTENSION (I.E., NEXT BASIC SECTION DESCRIBING THIS REQUEST)
160	(A0)	CHARACTER	300	QWBPEL	MAXIMUM LENGTH OF A PEL ENTRY THAT CAN BE MAPPED TO A QWB. NOTE THAT THE PEL PREFIX IS NOT INCLUDED IN THIS FIELD.
460	(1CC)	CHARACTER	4	QWBBRSV1	RESERVED
464	(1D0)	CHARACTER		QWBEND	END OF QWB
0	(0)	STRUCTURE	32	QWBX	QUEUE WORK BLOCK EXTENSION. OCCUPIES SPACE MAPPED BY THE QWB, IN THE FIRST QWB OF THE REQUEST. IT IS PRESENT ONLY IF FLAG QWBXTNP IS ON. IT FOLLOWS THE PELX(S) OF THE FIRST QWB.
0	(0)	UNSIGNED	1	QWBXR3LN	LENGTH OF DATA IN QWBXRSA3.
1	(1)	CHARACTER	7	QWBXRSV3	RESERVED.
8	(8)	CHARACTER	24	QWBXRSA3	SPACE ALLOWED FOR SECTION QWANWPEL OF THE QWA. THIS FIELD CAN BE EXPANDED IF FIELDS ARE ADDED TO QWA FIELD QWANWPEL, BECAUSE QWBXR3LN DEFINES THE LENGTH OF DATA THAT WAS PLACED IN THIS FIELD. QWBXR3LN IS SET BY THE SYSTEM THAT PLACES DATA IN THIS FIELD.
32	(20)	CHARACTER		QWBXEND	END OF QWBX.

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
QWB	0		QWBHGLBL	D	10	QWBHSPST	C	10
QWBBASIC	9C		QWBHGLBR	A		QWBHSTL	24	
QWBBRSV1	1CC		QWBHGRES	E		QWBHSTLC	C	80
QWBEND	1D0		QWBHINT	C	08	QWBHSV56	D	04
QWBEXTA	9C		QWBHJBNM	2C		QWBHSYCC	D	01
QWBHABMC	D	02	QWBHLNGW	C	04	QWBHSYID	34	
QWBHASC	38		QWBHMIXR	D	80	QWBHSYNC	20	04
QWBHASID	36		QWBHMRBQ	4		QWBHTCB	14	
QWBHAUTH	D	20	QWBHNQWB	0		QWBHTCBA	24	
QWBHDAAS	2A		QWBHNSYN	4		QWBHTRGT	28	
QWBHDAS	20	10	QWBHNWPS	21		QWBHXTNP	20	02
QWBHDASY	28		QWBHORIG	34		QWBPEL	A0	
QWBHDEQ	20	40	QWBHPC	C	02	QWBSMPL	3C	
QWBHDR	0		QWBHPFLG	A		QWBSQCB1	6C	
QWBHDSYS	20	08	QWBHPFL1	A		QWBSQCB2	7C	
QWBHDTCB	20	20	QWBHPFL2	B		QWBSQCB3	8C	
QWBHECBA	10		QWBHPURG	C	01	QWBSQEL	5C	
QWBHECBF	D	08	QWBHQXB	1C		QWBSQWB	3C	
QWBHECBZ	20	01	QWBHRB	18		QWBSQXB	4C	
QWBHENQ	20	80	QWBHRMC	C	20	QWBX	0	
QWBHERR	8		QWBHRSA	4		QWBXEND	20	
QWBHFA	D	40	QWBHRSA2	2C		QWBXRSA3	8	
QWBHFLG1	C		QWBHRSV1	22		QWBXRSV3	1	
QWBHFLG2	D		QWBHRSV3	9		QWBXR3LN	0	
QWBHFLG3	10		QWBHSMC	C	40			

QXB

COMMON NAME: Queue Extension Block
 MACRO ID: ISGQXB
 DSECT NAME: QXB
 CREATED BY: The ENQ/RESERVE processing routines, ISGGNQDQ and ISGGRP00
 SUBPOOL AND KEY: 127 in the global resource serialization private area (above 16Mb line); key 0
 SIZE: 32 bytes
 POINTED TO BY: QELQXB and QWBHQXB
 SERIALIZATION: Local resource - the CMS ENQ/DEQ Class Lock
 Global resource - the Global Resource Serialization Local Lock
 FUNCTION: Contains the common data that describes the ENQ/RESERVE request.

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
DEC	HEX				
0	(0)	STRUCTURE	32	QXB	QUEUE EXTENSION BLOCK
0	(0)	ADDRESS	4	QXBTCB	ADDRESS OF THE REQUESTOR S (OR DIRECTED) TCB
4	(4)	ADDRESS	4	QXBECB	ECB ADDRESS FOR POST OR
4	(4)	ADDRESS	4	QXBSVVB	SVRB ADDRESS FOR POST
8	(8)	ADDRESS	4	QXBQWB	ADDRESS OF QWB WHEN A MIXED RESOURCE REQUEST IS PRESENT. THIS IS USED DURING NIP TO LOCATE THE QWB CONTAINING THIS QXB ADDRESS SO THE QXB ADDRESS CAN BE REPLACED WITH THE MIGRATED QXB ADDRESS
8	(8)	ADDRESS	4	QXBNPTR	ADDRESS OF THE NEW QXB THAT HAS BEEN MOVED TO THE GRS ADDRESS SPACE
12	(C)	BITSTRING	1	QXBFLGS1	FLAG BYTE 1
		1... ..		QXBMIXR	MIXED RESOURCE REQUEST FREE THE QXB FROM THE LOCAL RESOURCES POOL
		.1.. ..		QXBNW	QXBNPTR IS VALID QXB HAS BEEN MOVED FROM SQA TO THE GRS ADDRESS SPACE
		..1.		QXB1RSV1	RESERVED
		...1		QXB1RSV2	RESERVED
		.... 1...		QXB1RSV3	RESERVED
		.... .1..		QXB1RSV4	RESERVED
		.... ..1.		QXB1RSV5	RESERVED
		.... ...1		QXB1RSV6	RESERVED
13	(D)	CHARACTER	3	QXBRSV01	RESERVED
16	(10)	UNSIGNED	4	QXBLWC	LIST/WAIT COUNTS
16	(10)	UNSIGNED	2	QXBLSTC	LIST COUNT NUMBER OF ACTIVE QELS REMAINING IN THE REQUEST
18	(12)	UNSIGNED	2	QXBWAITC	WAIT COUNT NUMBER OF QELS WAITING FOR RESOURCES
20	(14)	CHARACTER	8	QXBJOBNM	JOBNAME/USERID OF THE REQUESTOR.
28	(1C)	ADDRESS	4	QXBMTCB	VALUE OF MTCB= OPERAND OR ZERO
32	(20)	CHARACTER		QXBEND	END OF QXB

CROSS-REFERENCE TABLE

NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE	NAME	HEX OFFSET	HEX VALUE
QXB	0		QXBMTCB	1C		QXBWAITC	12	
QXBECB	4		QXBNW	C	40	QXB1RSV1	C	20
QXBEND	20		QXBNWPTR	8		QXB1RSV2	C	10
QXBFLGS1	C		QXBQWB	8		QXB1RSV3	C	08
QXBJOBNM	14		QXBRSV01	D		QXB1RSV4	C	04
QXBLISTC	10		QXBSVRB	4		QXB1RSV5	C	02
QXBLWC	10		QXBTCB	0		QXB1RSV6	C	01
QXB MIXR	C	80						

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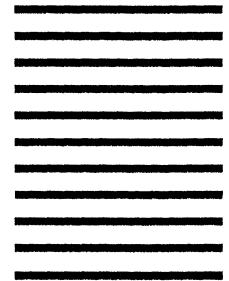
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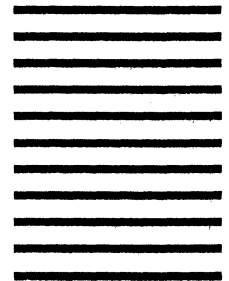
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