



OS/VS2 System Programming Library: Debugging Handbook

Volume 3

GC28-0710-0

File No. S370-37

Includes Selectable Units:

Scheduler Improvements	VS2.03.804
Supervisor Performance # 1	VS2.03.805
Supervisor Performance # 2	VS2.03.807
Data Management	VS2.03.808
IBM 3800 Printing Subsystem	VS2.03.810
TSO/VTAM	VS2.03.813
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Service Data Improvements	VS2.03.817
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TSO/VTAM Level 2	5752-858
Data Management Support	5752-860

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This edition applies to Release 3.7 of OS/VS2 and to all subsequent releases of OS/VS2 until otherwise indicated in new editions or Technical Newsletters. Changes are continually made to the information herein; before using this publication in connection with the operation of IBM systems, consult the latest *IBM System/370 Bibliography*, GA20-0001, for the editions that are applicable and current.

This manual contains information formerly contained in *OS/VS2 System Programming Library: Debugging Handbook, Volume 2*, GC28-0709-0 and GC28-0752-0. The JES3 information contained in this manual is applicable only if JES3 has been integrated into your system.

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Technical Newsletter

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Debugging Handbook Volume 3

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This newsletter contains replacement pages for *Debugging Handbook (Vol. 3)*.

Before inserting any of the attached pages into *Debugging Handbook (Vol. 3)*, read *carefully* the instructions on this cover. They indicate when and how you should insert the pages.

<u>Pages to be Removed</u>	<u>Attached Pages to be Inserted*</u>
None	276.1 - 276.2
285 - 286	285 - 286
433 - 436	433 - 436.4
487 - 494	487 - 494.14

*If you are inserting pages from different Newsletters/Supplements and *identical* page numbers are involved, always use the page with the latest date (shown in the slug at the top of the page). The page with the latest date contains the most complete information.

Summary of Amendments

This technical newsletter contains information on the following data areas: SGTE, SMCA, TTE, UCBTYP.

Note: Please file this cover letter at the back of the base publication to provide a record of changes.

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This handbook provides reference information for use in debugging user or system programs. The user of this publication should have a working knowledge of OS/VS2 functions and logic.

The handbook has been divided into three volumes totaling six sections:

Volume 1 (GC28-0708-1)

- **Section 1. Problem Categories and Analysis** describes an approach to debugging based on identification and analysis of system status indicators.
- **Section 2. Debugging Aids** summarizes major OS/VS2 debugging aids.
- **Section 3. Dump and Trace Formats** describes the output of debugging aids summarized in Section 2.
- **Section 4. Error Indicators** summarizes major system error indicators.
- **Section 5. General Reference** provides general reference information useful for debugging purposes.
- **Section 6. Control Block Chains** illustrates the logical relationships of major system data areas.

Volume 2 (GC28-0709-1)

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

Volume 3 (GC28-0710-0)

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

A list of applicable publications that pertain to this volume are presented in the preface to Volume 1 (GC28-0708-1).

The handbook specifically omits the following general reference topics, which are covered in the *System/370 Reference Summary* (card), GX20-1850:

- Machine instructions
- Extended mnemonic instructions
- CNOP alignment
- Assembler instructions
- Summary of constants
- EDIT and EDMK pattern characters
- Channel commands
- EBCDIC translation table
- Machine instruction formats
- Control registers
- CCW
- Dynamic address translation
- Hexadecimal and decimal conversion

Note: If you use only one order number, you will receive only that volume. To receive all three volumes, you must use the three order numbers or the following form number: GB0F-8211.

A handbook-sized binder, order number S229-4124, may be purchased from IBM. Customers may order it through their marketing representative. IBM personnel should order the binder from Mechanicsburg.

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Summary of Amendments for GC28-0710-0

General

This edition has been reorganized into a three volume publication. See the Preface and Contents for the basic design and setup.

Specific

- Volumes 1, 2, and 3 incorporate maintenance updates accumulated since the last revision. Also, the following SUs have been integrated into these volumes.

Scheduler Improvements	VS2.03.804
Supervisor Performance #1	VS2.03.805
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Data Management	VS2.03.808
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TSO/VTAM Level 2	5752-858
Data Management Support	5752-860

- Volume 1 incorporates program product information for MVS/System Extensions (5740-XE1) and highlights this information where applicable.
- Section 2 of Volume 2 (GC28-0709-0 or GC28-0752-0) Control Block Chains has been moved to Volume 1 (GC28-0987-0) as Section 6.
- Section 1 of Volume 2 (GC28-0709-0 or GC28-0752-0) - "How to Find Information" has been deleted. Each Volume 2 and 3 data area greater than 2 pages in length will have a label-displacement list appended to it. This information already exists in OS/VS Data Areas (microfiche) and serves here as a replacement for the "How to Find Information" section.
- The publications summary (Section 6 in GC28-0708-0 or GC28-0751-0) has been deleted and replaced by a list of applicable publications in the Preface of Volume 1 (GC28-0708-1). A complete list of MVS publications can be obtained from the MVS Release Guide.

This edition has been reorganized for a three volume publication. See the Preface and Contents for the basic design and setup.

Data Area Descriptions

Descriptions of data areas are sequenced alphanumerically by data area acronym. Each description provides the following information:

- Common Name
- Macro ID
- DSECT Name (name created by mapping macro)
- Created by (module that creates the data area)
- Subpool and Key (subpool number and key used by creating module)
- Size
- Pointed to by (register(s) or data area field(s) that points to the data area)
- Serialization of the data area
- Function

Format for the data area a tabular description of the data area, derived directly from the mapping macro (if one exists). The format provides the information indicated below.

Offsets

field addresses (decimal and hexadecimal) relative to the beginning of the data area.

Example 16 (10)

Type

specific kind of program data defined for this field. The following types are possible:

Type	Description
A-ADDRESS	address constant (A-type).
BAL STMT	an instruction.
BITSTRING	bitstring constant.
CHARACTER	character value.
FLOATING	floating point binary value.
HEX	hexadecimal value.
OFFSET	address constant (O-type).
PACKED	packed decimal value.
SIGNED	arithmetic signed value.
STRUCTURE	level 1 control block name.
S-ADDRESS	address constant (S-type).
UNKNOWN	a type other than the possible ones.
UNSGIGNED	unsigned value.
V-ADDRESS	address constant (V-type).
Y-ADDRESS	address constant (Y-type).
ZONED	zoned decimal value.

Length

field size in bytes.

Name

field bit or mask name.

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

1...	....	(a reference to bit 0)
....	..11	(a reference to bits 6 and 7)
...1	....	(a reference to bit 3)
11..	1111	(a reference to a bit mask in bits 0, 1, 4, 5, 6, and 7)

Description

a verbal description of a field or bit.

For each data area with more than 100 fields, a cross reference list of field names in alphabetical order is provided. Each symbol identified in the data area description is listed in the cross reference along with:

1. Its decimal offset into the data area.
2. Either its hexadecimal offset into the data area (for non-bitstring symbols) or its bitstring hexadecimal equivalent (for bitstring symbols).

Descriptions of data areas in this publication are identical to corresponding descriptions in *OS/VS2 Data Areas*, SYB8-0606.

NVT

Common Name: NIP Vector Table

Macro ID: IHANVT

DSECT Name: NVT

Created by: IEAVNIP0, IEAVNIPM

Subpool and Key: Nucleus, then moved to subpool 252 and key 0

Size: 544 bytes

Pointed to by: Register 2 during NIP processing

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.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	552	NVT	BEGIN BASED NVT

NVT DESCRIPTORS FOR NIP LOADING

0	(0) UNKNOWN	52	NVTNPSUF	RESERVED
52	(34) UNKNOWN	1		RESERVED
53	(35) UNKNOWN	1	NVTNPSFX	INDEX TO NPSUF THIS LOAD
54	(36) UNKNOWN	1	NVTNPATR	MOD. ATTRIB. THIS LOAD
	11..		NVTNPREN	REENTRANT
	1...			RESERVED
	.1..		NVTNPREU	REUSABLE
	..11 1111			RESERVED
55	(37) UNKNOWN	1	NVTFLLB	LIBRARY STATUS FLAGS
	1...		NVTFLSLB	SVCLIB, LOGREC DEFINED
	.111 1111			RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
NVT POINTERS TO NUCLEUS CONTROL BLOCKS				
56	(38)	UNKNOWN	4 NVTMSTCB	NIP/MASTER SCHEDULER TCB
60	(3C)	UNKNOWN	4 NVTCMTCB	COMM TASK TCB ADDRESS
64	(40)	UNKNOWN	4 NVTMASC B	MASTERS ASCB ADDRESS
68	(44)	UNKNOWN	4 NVTRSV41	RESERVED
72	(48)	UNKNOWN	4 NVTRSV42	RESERVED
76	(4C)	UNKNOWN	4 NVTSVCTB	ADDRESS OF SVC TABLE
80	(50)	UNKNOWN	4 NVTVBLDL	BLDL TABLE PTR ADDRESS
84	(54)	UNKNOWN	4 NVTIGCER	SVC ERROR ROUTINE ADDR
88	(58)	UNKNOWN	4 NVTVVMDI	LPA HASH VALUE ADDRESS
92	(5C)	UNKNOWN	4 NVTMSLNK	LINK PARMLIST ADDRESS
96	(60)	UNKNOWN	4 NVTDSSNG	DSS MASK OUT RTN ADDRESS
100	(64)	UNKNOWN	4 NVTMFA	ADDRESS OF SYSTEM MFA RTN
104	(68)	UNKNOWN	4 NVTNVRSZ	NIP REGION UPPER LIMIT
108	(6C)	UNKNOWN	4 NVTRSV49	RESERVED
112	(70)	UNKNOWN	4	RESERVED
116	(74)	UNKNOWN	4 NVTIGXER	ESR ERROR ROUTINE
120	(78)	UNKNOWN	4 NVTLNGFX	RSM LONG FIX AREA SIZE
124	(7C)	UNKNOWN	4 NVTLSQAS	END OF MASTERS LSQA
128	(80)	UNKNOWN	2 NVT SQAND	NO. INITIAL SQA PAGES
130	(82)	UNKNOWN	2 NVTLSQND	NO. OF LSQA PAGES TO FIX
132	(84)	UNKNOWN	2 NVT RGHAV	NO. OF AVAILABLE PAGES

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
134	(86)	UNKNOWN	2 NVTNBMIN	MINIMUM NUC. BUF. PAGES
136	(88)	UNKNOWN	2 NVTRSVMN	MINIMUM RESRVD PAGES
138	(8A)	UNKNOWN	2 NVTNVSQA	NUMBER OF VIRT SEG OF SQA

=====

NVT SAVE AREAS - NUCLEUS CONTROL BLOCKS

140	(8C)	UNKNOWN	8 NVTABSAV	SVC TABLE SVC 13
140	(8C)	UNKNOWN	4 NVTABFST	
144	(90)	UNKNOWN	4 NVTABSEC	
148	(94)	UNKNOWN	8 NVT SVC60	SAVEAREA FOR SVC 60
156	(9C)	UNKNOWN	4 NVT PQSAV	PVT ENTRY GET SQA PAGE
160	(A0)	UNKNOWN	4 NVTALSQA	LOW ADDR OF M.S. LSQA
164	(A4)	UNKNOWN	4 NVT LSPQE	ADDR OR SPQE FOR LSQA
168	(A8)	UNKNOWN	4 NVTMFASA	SA OF MFA ROUTINE ADDR
172	(AC)	UNKNOWN	4 NVT RTMSA	ADDR OF RTM BRANCH ENTRY
176	(B0)	UNKNOWN	4 NVTSTMAP	ADDRESS OF STORAGE MAP

=====

NVT POINTERS TO NUCLEUS ADDITIONS

180	(B4)	UNKNOWN	4 NVTNUCND	BUFFER NEXT AVAIL BYTE
184	(B8)	UNKNOWN	4 NVTNBFND	END OF NUC BUFFER ADDR
188	(BC)	UNKNOWN	4 NVT VVPG1	ADDRESS OF 1ST V=V PAGE
192	(C0)	UNKNOWN	4 NVTN0MSG	NIP0 MSGS ADDRESS
196	(C4)	UNKNOWN	4 NVTSGPSA	PTR TO SYSGENED PSA
200	(C8)	UNKNOWN	2	RESERVED
202	(CA)	UNKNOWN	2 NVTNXSIZ	NIPX RESRVD AREA SIZE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
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204	(CC)	UNKNOWN	4	NVTNXPTR	NIPX NUC. RESRVD AREA PTR
-----	------	---------	---	----------	---------------------------------

=====

NVT SYSGEN VARIABLES

208	(D0)	UNKNOWN	2	NVTTRACE	NO. TRACE TABLE ENTRIES
210	(D2)	UNKNOWN	1	NVTFLSG	RESERVED

=====

NVT STATUS FLAGS

211	(D3)	UNKNOWN	1	NVTFLCN	MESSAGE HANDLING FLAGS
	1...	....		NVTFLAC	ACTIVE MASTER CONSOLE
	.1.	....		NVTFLIOC	COMPOSITE MASTER
	..1.	....		NVTMP	MP SYSTEM
	...1	....		NVTFLASH	IPLD NVTNVRSZ VALUE
	....	1...		NVTFLNHC	INVALID HARDCOPY
	....	.1..		NVTFLNCK	DISCONTINUED TOD CLOCK
	....	..1.		NVTFLRAC	INOPERATIVE WTOR REPLY
	....	...1			OUTSTANDING RESERVED

212	(D4)	UNKNOWN	4		RESERVED
-----	------	---------	---	--	----------

216	(D8)	UNKNOWN	8	NVTMCP SW	SAVEAREA FOR M/C NEW PSW
-----	------	---------	---	-----------	-----------------------------

=====

NVT PSW DESCRIPTORS SYSTEM WAIT STATE PSW

224	(E0)	UNKNOWN	8	NVTWTPSW	
-----	------	---------	---	----------	--

=====

SYSTEM WAIT STATE PSW - WORD 1

224	(E0)	UNKNOWN	4	NVTWPSW1	
-----	------	---------	---	----------	--

228	(E4)	UNKNOWN	4	NVTWPSW2	PORTION NIP UPDATES
-----	------	---------	---	----------	------------------------

228	(E4)	UNKNOWN	2	NVTIDPSW	PSW ID NIP MODULE NAME
-----	------	---------	---	----------	---------------------------

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
=====				
PSW ID CODES & ASSOCIATED NIP MODULE NAMES ARE REFLECTED BELOW				
X'07D4'	- IEAVNIPM			
X'07E7'	- IEAVNIPX			
X'0001'	- IEAVNP01			
X'00A2'	- IEAVNPA2 (MODULE IEAVNP02)			
X'00B2'	-IEAVNPB2 (MODULE IEAVNP02)			
X'0003'	- IEAVNP03			
X'0004'	- IEAVNP04			
X'0005'	- IEAVNP05			
X'00E5'	- IEAVNPB5			
X'0006'	- IEAVNP06			
X'00A6'	- IEAVNPA6			
X'00B6'	- IEAVNPB6			
X'0007'	- IEAVNP07			
X'00A8'	- IEAVNPA8 (MODULE IEAVNP08)			
X'00B8'	- IEAVNPB8 (MODULE IEAVNP08)			
X'00C8'	- IEAVNPC8 (MODULE IEAVNP08)			
X'0009'	- IEAVNP09			
X'0010'	- IEAVNP10			
X'0011'	- IEAVNP11			
X'0012'	- IEAVNP12			
X'0013'	- IEAVNP13			
X'0015'	- IEAVNP15			
X'0016'	- IEAVNP16			
X'0017'	- IEAVNP17			
230	(E6) UNKNOWN	1	NVTFLWS1	SYSTEM WSC BYTE 1
231	(E7) UNKNOWN	1	NVTFLWSC	SYSTEM WSC BYTE 2
231	(E7) UNKNOWN	1	NVTIX	ID END INITIAL NVT
=====				

NVT POINTERS TO IEAVNIPM ROUTINES

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

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
264 (108)	UNKNOWN	4	NVTOPEM	NIPOPEN ROUTINE ADDRESS
268 (10C)	UNKNOWN	4	NVTMOUNT	NIPMOUNT ROUTINE ADDRESS
272 (110)	UNKNOWN	4	NVTPRMPT	NIPPRMPT ROUTINE
276 (114)	UNKNOWN	4	NVTVIRT	NIPSWAP TO V=V ROUTINE
280 (118)	UNKNOWN	4	NVTREAL	NIPSWAP TO V=R ROUTINE
284 (11C)	UNKNOWN	4	NVTSCHED	NIP SCHEDULE ROUTINE
288 (120)	UNKNOWN	4	NVTOPIO	NIP OPIO ROUTINE ADDRESS
292 (124)	UNKNOWN	12	NVTNIPM	IEAVNIPM BASE REGS
304 (130)	UNKNOWN	4	NVTNMBLD	NIPM BLDL ENTRY
308 (134)	UNKNOWN	16		RESERVED

NVT POINTERS TO IEAVNIPM DEFINED CONTROL BLOCKS AND POINTERS

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

NVT POINTERS TO SQA BUFFERS/QUEUES

336 (150)	UNKNOWN	4	NVTMBUF	MSG BUFFER NEXT BYTE
340 (154)	UNKNOWN	4	NVTMBEND	END OF NIP MSG BUFFER
344 (158)	UNKNOWN	8	NVTSPE	NIPSPE QUEUE ORIGIN

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
NVT SAVE AREAS USED BY IEAVNIPM ROUTINES				
352	(160)	UNKNOWN	4 NVT TOD	TOD CLOCK HI 32 BITS
356	(164)	UNKNOWN	2 NVT CPUAD	ADDRESS OF CPU WITH CLOCK RESERVED
358	(166)	UNKNOWN	2	
360	(168)	UNKNOWN	2 NVT ABCD1	LEVEL 1 ABEND CODE
362	(16A)	UNKNOWN	1 NVT ABWS1	NIP ABEND ENTRY WS CODE
363	(16B)	UNKNOWN	1	RESERVED
=====				
NVT SAVE AREAS USED BY IEAVNPXX ROUTINES				
364	(16C)	UNKNOWN	4 NVTRSV43	RESERVED
368	(170)	UNKNOWN	4 NVTPAREA	1ST PARM AREA POINTER
372	(174)	UNKNOWN	4 NVTPTAS	ORIGIN OF PARM TABLE
376	(178)	UNKNOWN	4 NVTQSBUF	QUICK START BUFFER ADDR
380	(17C)	UNKNOWN	2 NVTRSV44	RESERVED
382	(17E)	UNKNOWN	2 NVTSPUCB	SYS1.PARMLIB UCB ADDR
384	(180)	UNKNOWN	4 NVTVVT CB	NIP V=V TCB ADDRESS
388	(184)	UNKNOWN	4 NVTVRT CB	NIP V=R TCB ADDRESS
392	(188)	UNKNOWN	8	RESERVED FIELDS
400	(190)	UNKNOWN	4 NVTVRBLD	LPA BLDL ENTRY ADDR (V=R)
404	(194)	UNKNOWN	4 NVTBLDL	BLDL TABLE BUILD AREA
408	(198)	UNKNOWN	4 NVTCSLIB	SYS1.LPALIB DCB ADDRESS
412	(19C)	UNKNOWN	4 NVTCSLNM	CURRENT LPA NAME ADDR
416	(1A0)	UNKNOWN	4 NVTCSI0B	ADDR OF IOB FOR FAILING COLDSTART I/O REQUESTS
=====				

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
420 (1A4)	UNKNOWN	4	NVTCSLPG	LAST ASSIGNED ADDRESS IN COLDSTART LPA
424 (1A8)	UNKNOWN	1	NVTLPACT	COUNT OF LPA ROUTINES ADDED BY IEAVNIPM RESERVED
425 (1A9)	UNKNOWN	3		
428 (1AC)	UNKNOWN	8	NVTXCTL	SAVE XCTL ADDRESS
428 (1AC)	UNKNOWN	4	NVTXFST	
432 (1B0)	UNKNOWN	4	NVTXSEC	
436 (1B4)	UNKNOWN	8	NVTLOCAT	SAVE LOCATE SVCENT
436 (1B4)	UNKNOWN	4	NVTLFST	POINTER TO SVC ROUTINE
440 (1B8)	UNKNOWN	4	NVTLSEC	FLAGS AND ATTRIBUTES

=====

SAVE AREA FOR V=V TCB JPQ FIELD

444 (1BC)	UNKNOWN	4	NVTVJPQ	
-----------	---------	---	---------	--

=====

SAVE AREA FOR V=V TCB LLE FIELD

448 (1C0)	UNKNOWN	4	NVTVLLE	
-----------	---------	---	---------	--

=====

SAVE AREA FOR V=V TCB PQE FIELD

452 (1C4)	UNKNOWN	4	NVTVPQE	
-----------	---------	---	---------	--

=====

SAVE AREA FOR V=V TCB MSS FIELD

456 (1C8)	UNKNOWN	4	NVTVMSS	
-----------	---------	---	---------	--

=====

SAVE AREA FOR V=R TCB JPQ FIELD

460 (1CC)	UNKNOWN	4	NVTRJPQ	
-----------	---------	---	---------	--

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
SAVE AREA FOR V=R TCB LLE FIELD				

464	(1D0)	4	NVTRLLE	
=====				
SAVE AREA FOR V=R TCB PQE FIELD				

468	(1D4)	4	NVTRPQE	
=====				
SAVE AREA FOR V=R TCB MSS FIELD				

472	(1D8)	4	NVTRMSS	
=====				
HIGH VIRTUAL ADDRESS OF PLPA				

476	(1DC)	4	NVTLPAND	

480	(1E0)	4	NVTRSV4A	RESERVED
=====				
CURRENT LOW VIRTUAL ADDRESS OF COMMON AREA				

484	(1E4)	4	NVTLVIRT	
=====				
START OF V=R REGION				

488	(1E8)	4	NVTVRREG	
=====				
LENGTH OF V=R AREA AVAILABLE IN PAGES				

492	(1EC)	4	NVTVRLNG	

496	(1F0)	8	NVTRSV45	RESERVED
=====				
SAVEAREA FOR FINAL VERSION OF ASVT				

504	(1F8)	4	NVTFASVT	

CROSS REFERENCE

NVT	0 (0)	NVTNIPM	292(124)
NVTABCD1	360(168)	NVTNMSLD	304(130)
NVTABFST	140 (8C)	NVTHPATR	54 (36)
NVTABSAV	140 (8C)	NVTNPREN	54 X'CO'
NVTABSEC	144 (90)	NVTNPREU	54 X'40'
NVTADHS1	362(16A)	NVTNPSFX	53 (35)
NVTALSQL	160 (A0)	NVTNPSUF	0 (0)
NVTBLDL	404(194)	NVTNUCHD	180 (84)
NVTCHTCB	60 (3C)	NVTNVRSZ	104 (68)
NVTCPUAD	356(164)	NVTNVSQA	138 (8A)
NVTCSI0B	416(1A0)	NVTNXPTR	204 (CC)
NVTCSLIB	408(198)	NVTNXSIZ	202 (CA)
NVTCSLNH	412(19C)	NVTN0MSG	192 (C0)
NVTCSLPG	420(1A4)	NVTOPEN	264(108)
NVTDCBIC	324(144)	NVTOPIO	288(120)
NVTDCB0C	328(148)	NVTPAREA	368(170)
NVTDCBSN	332(14C)	NVTPQSAV	156 (9C)
NVTDSNG	96 (60)	NVTPRMPT	272(110)
NVTFASVT	504(1F8)	NVTPTAB	372(174)
NVTFAC	211 X'60'	NVTGSBUF	376(178)
NVTFASLM	211 X'10'	NVTRCCDE	532(214)
NVTFACN	211 (D3)	NVTRCAL	280(118)
NVTFACI0C	211 X'40'	NVTRCALR	508(1FC)
NVTFALLB	55 (37)	NVTRGNAV	132 (84)
NVTFALLST	528 X'80'	NVTRJQP	460(1CC)
NVTFACNCK	211 X'04'	NVTRLLE	464(100)
NVTFACNHC	211 X'08'	NVTRLOCK	536(218)
NVTFACPO	528(210)	NVTRMSG	540(21C)
NVTFACQS	528 X'08'	NVTRMSS	472(1D8)
NVTFACRAC	211 X'02'	NVTRPQE	468(1D4)
NVTFACSG	210 (D2)	NVTRSVHN	136 (88)
NVTFACSLB	55 X'80'	NVTRSV4A	480(1E0)
NVTFACLS	528 X'04'	NVTRSV41	68 (44)
NVTFACLWC	231 (E7)	NVTRSV42	72 (48)
NVTFACLS1	230 (E6)	NVTRSV43	364(16C)
NVTIDPSW	228 (E4)	NVTRSV44	380(17C)
NVTIGCER	84 (54)	NVTRSV45	496(1F0)
NVTIGXER	116 (74)	NVTRSV46	516(204)
NVTIX	231 (E7)	NVTRSV47	520(208)
NVTILFST	436(1B4)	NVTRSV48	524(20C)
NVTILNGFX	120 (78)	NVTRSV49	108 (6C)
NVTLOAD	232 (E8)	NVTRTMSA	172 (AC)
NVTLOCAT	436(1B4)	NVTSCHED	284(11C)
NVTLPACT	424(1A8)	NVTSENSE	236 (EC)
NVTLPAHA	548(224)	NVTSGPSA	196 (C4)
NVTLPALO	544(220)	NVTSPE	344(158)
NVTLPAND	476(1DC)	NVTSPU0B	382(17E)
NVTLSEC	440(188)	NVTSQANO	128 (80)
NVTLSPQE	164 (A4)	NVTSTMAP	176 (B0)
NVTLSQAS	124 (7C)	NVTSVCTB	76 (4C)
NVTLSQNO	130 (82)	NVTSVC60	148 (94)
NVTLVIRT	404(1E4)	NVTSHAIT	240 (F0)
NVTMASC0B	64 (40)	NVTSYSP	528 X'40'
NVTMBEND	340(154)	NVTTIME	244 (F4)
NVTMBUF	336(150)	NVTTOD	352(160)
NVTMCPSW	216 (D8)	NVTTRACE	208 (D0)
NVTMFA	100 (64)	NVTUCBFN	248 (F8)
NVTMFASA	168 (A8)	NVTVBLDL	80 (50)
NVTMOUNT	268(10C)	NVTVIRT	276(114)
NVTMP	211 X'20'	NVTVJFQ	444(1BC)
NVTMSLNK	92 (5C)	NVTVLE	448(1C0)
NVTMTCB	56 (38)	NVTVMSS	456(1C8)
NVTNBFND	184 (88)	NVTVPQE	452(1C4)
NVTNBMIN	134 (86)	NVTVRBLD	400(190)

CROSS REFERENCE

NVTURLNG	492(1EC)
NVTVRREG	488(1E8)
NVTVRTCB	388(184)
NVTVVMDI	88 (58)
NVTVVP61	188 (BC)
NVTVVTCB	384(180)
NVTWPSW1	224 (E0)
NVTWPSW2	228 (E4)
NVTWTO	252 (FC)
NVTWTOR	256(100)
NVTWTOR2	260(104)
NVTWTPSW	224 (E0)
NVTXCTL	428(1AC)
NVTXFST	428(1AC)
NVTXSEC	432(1B0)

ORECommon Name: Operator Reply ElementMacro ID: IHAOREDSECT Name: OREFCreated by: IEAVVWTOSubpool and Key: 231 and key 0Size: 32 bytesPointed to by: UCMRPYQ field of the UCM data area
ORELXP field of the ORE data area (next ORE)
SSWTORE field of the SSOB data areaSerialization: Local and CMS locksFunction: Created only for WTOR request. Contains information pertaining to the reply portion of a WTOR request.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	OREF	

0	(0) A-ADDRESS	4	ORELKP	LINKAGE POINTER

4	(4) CHARACTER	2	OREID	REPLY IDENTIFICATION FLAGS
6	(6) BITSTRING	1	OREXA	BIT0,,C'X'
	1... ..		ORERSV01	RESERVED
	.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/VS2)
	.... 1...		ORERSV03	BIT4,,C'X'
	.... .1..		ORERSV04	RESERVED
	.... ..1.		ORERSV05	BIT5,,C'X'
	.... ...1		ORERSV06	RESERVED
7	(7) BITSTRING	1	OREXC	RESERVED
	1... ..		OREBUFA	BUFFER STATUS FLAGS
	.1.. ..		OREBUFB	BIT0 BUFFER IS AVAILABLE
	..1.		OREBUFC	BIT1 BUFFER IN USE
	...1		OREBUFD	BIT2 ORE IS TO BE DELETED, DO NOT PROCESS REPLY (OS/VS2)
	.... 1...		OREBUFE	BIT3 BUFFER OBTAINED DYNAMICALLY
				BIT4 BUFFER SERVICED

ORE

ORE
Data Area Descriptions 13

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... .1..			ORERSV08	BIT5,,C'X' RESERVED
.... ..1.			ORERSV09	BIT6,,C'X' RESERVED
.... ...1			ORERSV10	BIT7,,C'X' RESERVED
8	(8) A-ADDRESS	4	ORETCB	POINTER TO TCB
8	(8) CHARACTER	1	ORETJID1	FIRST BYTE OF TJID
9	(9) A-ADDRESS	3	ORETCBA	ADDRESS OF TCB
12	(C) A-ADDRESS	4	OREWQE	ADDRESS OF ASSOCIATED WQE
16	(10) A-ADDRESS	4	ORERPYP	POINTER TO REPLY BUFFER
16	(10) SIGNED	1	ORELNTH	MAXIMUM LENGTH OF REPLY
17	(11) A-ADDRESS	3	ORERPYA	ADDRESS OF REPLY BUFFER
20	(14) A-ADDRESS	4	OREECB	POINTER TO REQUESTOR'S REPLY ECB
20	(14) CHARACTER	1	ORETJID2	SECOND BYTE OF TJID
21	(15) A-ADDRESS	3	OREECBA	ADDRESS OF REQUESTOR'S REPLY ECB
24	(18) SIGNED	2	OREASID	ADDRESS SPACE IDENTIFIER
26	(1A) SIGNED	2	ORERSV11	RESERVED (OS/VS2)
28	(1C) A-ADDRESS	4	OREOPBUF	POINTER TO OPERATOR REPLY BUFFER (OS/VS2)

OUCBCommon Name: SRM User Control BlockMacro ID: IRAOUCBDSECT Name: OUCBCreated by: IRARMEVTSubpool and Key: 245 and Key 0Size: 136 bytes

Pointed to by: ASCBOUCB field of the ASCB data area
 RMQHFWD field of the RMQH data area
 RNCTBCK field of the RMQH data area
 OUCBFWD field of the OUCB data area
 OUCBBCK field of the OUCB data area
 RMCTOUCK field of the RMCT data area
 OUCBACT field of the OUCB data area

Serialization: SRM lock

Function: Contains a description of the status of the associated address space for use by the SRM. The OUCB is located in SQA.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	136	OUCB	
0	(0) UNKNOWN	4	OUCBNAME	BLOCK IDENTIFICATION 'OUCB'
4	(4) UNKNOWN	4	OUCBFWD	SWAP CHAIN FORWARD POINTER
8	(8) UNKNOWN	4	OUCBBCK	SWAP CHAIN BACKWARD POINTER
12	(C) UNKNOWN	4	OUCBTMA	TIME OF LAST ANALYSIS
16	(10) UNKNOWN	1	OUCBQFL	SWAP TRANSITION FLAGS
	1... ..		OUCBG00	TRANSITIONING OUT OF CORE
	.1.. ..		OUCBG01	TRANSITIONING INTO CORE
	..1.		OUCBG0B	TRANSITIONING BETWEEN STATES
	...1		OUCBQF3	RESERVED
	.... 1...		OUCBOFF	REQUEST ENTER WAIT STATE
	.... .1..		OUCBOUT	REQUEST ENTER OUT STATE
	.... ..1.		OUCBQF6	RESERVED
	.... ...1		OUCBQF7	RESERVED
17	(11) UNKNOWN	1	OUCBSFL	SHAPOUT CONTINUATION FLAGS
	1... ..		OUCBNSW	NON-SWAPPABLE STATUS
	.1.. ..		OUCBCTI	CTL INHIBITS QUIESCE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
..1.			OUCBBIB	BRING IN FOR CANCEL
...1			OUCBINV	=1 IF OUCB IS INVALID
.... 1...			OUCBSF4	RESERVED
.... .1..			OUCBPVL	USER PROGRAM PRIVILEGED
.... ..1.			OUCBENQ	ENQ RESIDENT STATUS
.... ...1			OUCBSCN	SWAP CHAIN TERMINATION MARK
18 (12) UNKNOWN		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.			OUCBOTA	DATA ACCUMULATION IMPACTED
.... ...1			OUCBFXS	FIXED STOR FORCED SWP
19 (13) UNKNOWN		1	OUCBAFL	ALGORITHM STATUS FLAGS
1...			OUCBAF0	RESERVED
.1..			OUCBAPG	APG ALGORITHM APPLICABLE
..1.			OUCBRMA	RMA ALGORITHM APPLICABLE
...1			OUCBCPL	SIGNIFICANT CPU USER
.... 1...			OUCBJSR	JOBSELECT RECEIVED
.... .1..			OUCBR02	RESERVED
.... ..1.			OUCBNWT	M50 DETECTED NONSHAPP WAIT
.... ...1			OUCBASW	AUTHORIZED FOR DONTSWAP

20 (14) UNKNOWN		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
.... .1..			OUCBMAR	ACTIVITY RECORDING MINUS

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... .1.		OUCBINP	INITIATOR
	.... .1		OUCBINC	ATTACH PENDING INITIATOR
21	(15) UNKNOWN	1	OUCBEFL	ATTACH CURRENT 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) UNKNOWN	1	OUCBNQC	NO. OF OUTSTANDING ENQHOLDS
23	(17) UNKNOWN	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..		OUCBUF5	RESERVED
	.... .1.		OUCBUF6	RESERVED
	.... ...1		OUCBUF7	RESERVED

24	(18) UNKNOWN	1	OUCBNPG	NEW PERFORMANCE GROUP NUMBER
25	(19) UNKNOWN	1	OUCBRPG	RESET PERFORMNC GROUP NUMBER
26	(1A) UNKNOWN	1	OUCBNDP	NEW DISPATCHING PRIORITY
27	(1B) UNKNOWN	1	OUCBRDP	REAL DISPATCHING PRIO

28	(1C) UNKNOWN	1	OUCBSPG	SPECIFIED PERF GROUP
29	(1D) UNKNOWN	1	OUCBR30	RESERVED
30	(1E) UNKNOWN	1	OUCBR40	RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
31	(1F) UNKNOWN	1	OUCBPGP	WMPGP OFFSET
32	(20) UNKNOWN	2	OUCBWMG	WMPGD OFFSET
34	(22) UNKNOWN	2	OUCBDMO	OFFSET INTO DOMAIN TABLE
36	(24) UNKNOWN	1	OUCBDMN	DOMAIN NUMBER
37	(25) UNKNOWN	1	OUCBSRC	SWAP OUT REASON CODE
38	(26) UNKNOWN	2	OUCBSWC	TRANSACTION SWAP COUNT
40	(28) UNKNOWN	4	OUCBASCB	ASCB ADDRESS
44	(2C) UNKNOWN	4	OUCBIMCB	IMCB ADDRESS
48	(30) UNKNOWN	4	OUCBTMW	WLM INTERVAL START TIME
52	(34) UNKNOWN	4	OUCBAMS	INTERVAL SERVICE ACCUMULATOR
56	(38) UNKNOWN	4	OUCBCPU	INTERVAL CPU SERVICE ACCUM
60	(3C) UNKNOWN	4	OUCBIOC	INTERVAL I/O SERVICE ACCUM
64	(40) UNKNOWN	4	OUCBMSO	INTERVAL MSO SERVICE ACCUM
68	(44) UNKNOWN	4	OUCBTMS	TIME OF LAST SWAP ACTION
72	(48) UNKNOWN	4	OUCBTMO	TRANSACTION START TIME
76	(4C) UNKNOWN	2	OUCBPSO	PAGES SHPPD AT LAST SWAP-OUT
78	(4E) UNKNOWN	2	OUCBWSS	WORKING SET SIZE AT SWAP-IN
80	(50) UNKNOWN	4	OUCBACT	ACTION QUE FORWD POINTER
84	(54) UNKNOWN	4	OUCBCSW	FIELD FOR COMPARE AND SWAP
84	(54) UNKNOWN	2	OUCBACH	DEFERRED ACTION FLAGS
86	(56) UNKNOWN	1	OUCBCFL	MULTIPROCS CONDITION FLAGS
	1... ..		OUCBRDY	USERRDY SYSEVENT RECEIVED
	.1.. ..		OUCBRSM	RSM SERVICE OUTSTANDING
	..11 1111		OUCBCF2	RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
88	(58) UNKNOWN	4	OUCBCMRV	COMPOSITE RECOM VALUE
92	(5C) UNKNOWN	4	OUCBWMR	WLM RECOMMENDATION VALUE
96	(60) UNKNOWN	2	OUCBIRV	IOM RECOMM. VALUE
98	(62) UNKNOWN	2	OUCBCRV	CFM RECOMM. VALUE
100	(64) UNKNOWN	2	OUCBIOR	I/O USAGE PROFILE
102	(66) UNKNOWN	2	OUCBR03	RESERVED
104	(68) UNKNOWN	4	OUCBTMP	PG PERIOD STARTING TIME
108	(6C) UNKNOWN	4	OUCBIOSM	SMF EXCP COUNT
112	(70) UNKNOWN	8	OUCBPSS	CPU PAGE SECONDS
112	(70) UNKNOWN	4	OUCBPS1	HIGH WORD PAGE SECS
116	(74) UNKNOWN	4	OUCBPS2	LOW WORD PAGE SECONDS
120	(78) UNKNOWN	4	OUCBPST	TIME OF LAST WORKING SET CHANGE
124	(7C) UNKNOWN	4	OUCBTCP	TIME OF CPU USAGE EVALUATION
128	(80) UNKNOWN	4	OUCBTIO	TIME OF I/O USAGE EVALUATION
132	(84) UNKNOWN	2	OUCBND5	NUM OF DONT5WAPS
134	(86) UNKNOWN	2	OUCBNT5P	NUM OF ADDITIONAL TRANSWAPS PENDING (@ZA16887)
136	(88) UNKNOWN	0	OUCBEND	END OF OUCB

CROSS REFERENCE

OUCB	0 (0)	OUCBPS0	76 (4C)
OUCBACN	84 (54)	OUCBPSS	112 (70)
OUCBACT	80 (50)	OUCBPST	120 (78)
OUCBAFL	19 (13)	OUCBPSTE	18 X'80'
OUCBAF0	19 X'80'	OUCBPSTR	18 X'08'
OUCBAPG	19 X'40'	OUCBPS1	112 (70)
OUCBASCB	40 (28)	OUCBPS2	116 (74)
OUCBASW	19 X'01'	OUCBPVL	17 X'04'
OUCBATR	20 X'80'	OUCBQFL	16 (10)
OUCBAXS	18 X'04'	OUCBQF3	16 X'10'
OUCBBCK	8 (8)	OUCBQF6	16 X'02'
OUCBBIB	17 X'20'	OUCBQF7	16 X'01'
OUCBCFL	86 (56)	OUCBQSC	21 X'02'
OUCBCF2	86 X'3F'	OUCBQSS	21 X'04'
OUCBCIM	21 X'10'	OUCBRDP	27 (1B)
OUCBCMRV	88 (58)	OUCBRDY	86 X'80'
OUCBCPL	19 X'10'	OUCBRMA	19 X'20'
OUCBCPU	56 (38)	OUCBRPG	25 (19)
OUCBCRV	98 (62)	OUCBRSM	86 X'40'
OUCBCSW	84 (54)	OUCBRSWP	23 X'20'
OUCBCTI	17 X'40'	OUCBRTR	20 X'10'
OUCBDMN	36 (24)	OUCBR02	19 X'04'
OUCBDMO	34 (22)	OUCBR03	102 (66)
OUCBDTA	18 X'02'	OUCBR30	29 (1D)
OUCBEFL	21 (15)	OUCBR40	30 (1E)
OUCBEND	136 (88)	OUCBSCN	17 X'01'
OUCBENQ	17 X'02'	OUCBSFL	17 (11)
OUCBFWD	4 (4)	OUCBSF4	17 X'08'
OUCBFXS	18 X'01'	OUCBSPG	28 (1C)
OUCBGOB	16 X'20'	OUCBSRC	37 (25)
OUCBGOI	16 X'40'	OUCBSTR	20 X'40'
OUCBGOO	16 X'80'	OUCBSTT	18 X'40'
OUCBIMCB	44 (2C)	OUCBSWC	38 (26)
OUCBINC	20 X'01'	OUCBTCP	124 (7C)
OUCBINP	20 X'02'	OUCBTFL	20 (14)
OUCBINV	17 X'10'	OUCBTIO	128 (80)
OUCBIOC	60 (3C)	OUCBTMA	12 (C)
OUCBIOR	100 (64)	OUCBTMG	72 (48)
OUCBIOSM	108 (6C)	OUCBTMP	104 (68)
OUCBIRV	96 (60)	OUCBTMS	68 (44)
OUCBJSAS	23 X'40'	OUCBTMW	48 (30)
OUCBJSFS	23 X'80'	OUCBTRM	21 X'40'
OUCBJSR	19 X'08'	OUCBTSHC	23 X'08'
OUCBLOG	18 X'20'	OUCBTSHP	23 X'10'
OUCBLWT	21 X'80'	OUCBUF L	23 (17)
OUCBMAR	20 X'04'	OUCBUF5	23 X'04'
OUCBMNT	18 X'10'	OUCBUF6	23 X'02'
OUCBMSO	64 (40)	OUCBUF7	23 X'01'
OUCBMWT	21 X'01'	OUCBIMG	32 (20)
OUCBNAME	0 (0)	OUCBWMR	92 (5C)
OUCBNDP	26 (1A)	OUCBWM S	52 (34)
OUCBND S	132 (84)	OUCBWS S	78 (4E)
OUCBNPG	24 (18)	OUCBYFL	18 (12)
OUCBNQC	22 (16)		
OUCBNQF	21 X'08'		
OUCBNSW	17 X'80'		
OUCBNTR	20 X'20'		
OUCBNTSP	134 (86)		
OUCBNWT	19 X'02'		
OUCBOFF	16 X'08'		
OUCBOUT	16 X'04'		
OUCBOWT	21 X'20'		
OUCBPCH	20 X'08'		
OUCBPGP	31 (1F)		

OUSB

Common Name: SRM User Swappable Block

Macro ID: IHAOUSB

DSECT Name: OUSB

Created by: IEAVEMIN

Subpool and Key: 255 and key 0

Size: 136 bytes

Pointed to by: ASXB0USB field of the ASXB data area

Serialization: SRM lock

Function: Used by system resources manager to save information from the OUSB, so that the OUSB 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.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	136	OUSB	
0	(0) UNKNOWN	4	OUSBNAME	BLOCK IDENTIFICATION 'OUSB'
4	(4) UNKNOWN	4	OUSBCAPI	COMMON PAGE-IN ACCUM
8	(8) UNKNOWN	4	OUSBCAPR	COMMON RECLAIM ACCUM
12	(C) UNKNOWN	4	OUSBSTCT	PAGES STOLEN ACCUM
16	(10) UNKNOWN	4	OUSBSPIN	SWAPPING PAGE-IN ACCUMULATOR
20	(14) UNKNOWN	4	OUSBSPOT	SWAPPING PAGE-OUT ACCUMULATOR
24	(18) UNKNOWN	4	OUSBWCT	SESSION SWAP CNT ACCUMULATOR
28	(1C) UNKNOWN	4	OUSBPIN	SESSION PAGE-IN ACCUMULATOR
32	(20) UNKNOWN	4	OUSBPOUT	SESSION PAGE-OUT ACCUMULATOR
36	(24) UNKNOWN	4	OUSBPREC	SESSION RECLAIM ACCUMULATOR
40	(28) UNKNOWN	4	OUSBVAMI	SESS VIO PAGE-IN ACCUMULATOR

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
44	(2C) UNKNOWN	4	OUSBVAMO	SESS VIO PAGE-OUT ACCUMULATOR

48	(30) UNKNOWN	4	OUSBVAMR	SESS VIO RECLAIM ACCUMULATOR

52	(34) UNKNOWN	80	OUSBSAVE	OUSB FIELD SAVEAREA

132	(84) UNKNOWN	4	OUSB90	RESERVED

136	(88) UNKNOWN	0	OUSBEND	END OF OUSB

OUXBCommon Name: SRM User Extension BlockMacro ID: IHAOUXBDSECT Name: OUXBCreated by: IRARMEVTSubpool and Key: 245 and key 0Size: 144 bytesPointed to by: ASCBOUXB field of the ASCB data areaSerialization: SRM lockFunction: Contains system resources manager data about an address space that is swapped out. The OUXB is located in the SQA.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	144	OUXB	
0	(0) UNKNOWN	4	OUXBNAME	BLOCK IDENTIFICATION 'OUXB'
4	(4) UNKNOWN	4	OUXBPET	PRA BASE CPU MEASUREMENT
8	(8) UNKNOWN	4	OUXBMET	M50 BASE CPU MEASUREMENT
12	(C) UNKNOWN	4	OUXBRSH	REQSWAP ECB ADDRESS OR, IF HIGH ORDER BIT IS ON, ADDRESS OF A LIST.
16	(10) UNKNOWN	4	OUXBPIN	INTERVAL PAGE-IN ACCUMULATOR
20	(14) UNKNOWN	4	OUXBPOUT	INTERVAL PAGE-OUT ACCUMULATOR
24	(18) UNKNOWN	4	OUXBPREC	INTERVAL RECLAIM ACCUMULATOR
28	(1C) UNKNOWN	4	OUXBVAMI	NTVL VIO PAGE-IN ACCUMULATOR
32	(20) UNKNOWN	4	OUXBVAMO	NTVL VIO PAGE-OUT ACCUMULATOR
36	(24) UNKNOWN	4	OUXBVAMR	NTVL VIO RECLAIM ACCUMULATOR
40	(28) UNKNOWN	4	OUXBCAPI	COMMON PAGE-IN ACCUM

OUXB

OUXB

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
44	(2C)	UNKNOWN	4 OUXBCAPR	COMMON RECLAIM ACCUM
48	(30)	UNKNOWN	4 OUXBSTCT	PAGES STOLEN ACCUM
52	(34)	UNKNOWN	2 OUXBIOS	WLM BASE I/O MEASUREMENT
54	(36)	UNKNOWN	2 OUXBSTC	INTERVAL STEAL CALL COUNT
56	(38)	UNKNOWN	4 OUXBIOSM	SMF BASE EXCP COUNT
60	(3C)	UNKNOWN	4 OUXBNQT	ENQ RESIDENCY START TIME
64	(40)	UNKNOWN	4 OUXBTRC	SESSION TRANSACTION COUNT
68	(44)	UNKNOWN	4 OUXBJBS	SESSION SERVIC ACCUMULATOR
72	(48)	UNKNOWN	4 OUXBJBT	SESSION TIME ACCUMULATOR
76	(4C)	UNKNOWN	4 OUXBTRS	TRANSACTION SRVC ACCUMULATOR
80	(50)	UNKNOWN	4 OUXBTRT	TRANSACTION TIME ACCUMULATOR
84	(54)	UNKNOWN	4 OUXBJBR	SESSION RESIDENT ACCUMULATOR
88	(58)	UNKNOWN	4 OUXBTRR	TRANSACTION RESIDENT ACCUMULATOR
92	(5C)	UNKNOWN	4 OUXBAET	APG BASE CPU MEASUREMENT
96	(60)	UNKNOWN	8 OUXBCPS	WLM BASE CPU MSRM
104	(68)	UNKNOWN	8 OUXBMSS	WLM BASE MSO SERVICE VALUE
112	(70)	UNKNOWN	4 OUXBITD	IOL BASE START TIME
116	(74)	UNKNOWN	4 OUXBSTD	AUX BASE START TIME
120	(78)	UNKNOWN	4 OUXBPRS	PG PERIOD STARTING SERVICE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
124	(7C) UNKNOWN	2	OUXBWCT	APG BASE SHORT WAIT COUNT
126	(7E) UNKNOWN	2	OUXBRSV1	RESERVED

128	(80) UNKNOWN	4	OUXBILS	IOL BASE I/O MEASUREMENT

132	(84) UNKNOWN	2	OUXBVSC	AUX BASE VIO SLOT COUNT
134	(86) UNKNOWN	2	OUXBUIC	HIGHEST UNREF FRAME COUNT

136	(88) UNKNOWN	2	OUXBNVC	AUX BASE NONVAM SLOT COUNT
138	(8A) UNKNOWN	2	OUXBFIXC	BASE USER FIXED FRAME COUNT

140	(8C) UNKNOWN	4	OUXBTSW	TRANSWAP ECB ADDRESS OR, IF HIGH ORDER BIT IS ON, ADDRESS OF A LIST. (@ZA16887)

144	(90) UNKNOWN	0	OUXBEND	END OF OUXB

PART

Common Name: ASM Paging Activity Reference Table

Macro ID: ILRPART

DSECT Name: PART

Created by: ILRASRIM

Subpool and Key: 245 and key 0

Size: 80 bytes + (64 bytes for each page data set); 4176 is maximum

Pointed to by: ASPART field of the ASMVT data area

Serialization: The SALLOC lock is used to serialize the count of local page data sets (PARTLCNT). The ASM class lock of the PART header is used to serialize the PART write queues. Each PARTE is serialized by a special Compare and Swap (CS instruction) lock. The PART AIA error queue (PARTAIAE) as well as the error count (PAREFRCT) and read queues (PAREIQEQ and PARENODE) in each part entry are serialized via Compare and Swap logic.

Function: PART is the map relating the collection of logical slots of auxiliary storage to identifiable page data sets (VSAM data spaces).

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	80	PART	PAGING ACTIVITY REFERENCE TABLE
0	(0) UNKNOWN	80	PARTHDR	PART HEADER WHICH CONTAINS GENERAL INFORMATION ABOUT THE PAGE DATA SETS
0	(0) UNKNOWN	4	PARTIDEN	'PART' IDENTIFIER
4	(4) UNKNOWN	4	PARTSIZE	THE TOTAL NUMBER OF PART ENTRIES (PARTE'S) CONTAINED IN THIS PART
8	(8) UNKNOWN	4	PARTEUSE	NUMBER OF PARTE'S IN USE
12	(C) UNKNOWN	4	PARTAIAE	AIA ERROR QUEUE USED BY I/O CONTROL AND THE I/O SUBSYSTEM TO TEMPORARILY SAVE ERROR AIA'S THAT COULD NOT BE IMMEDIATELY RETURNED TO RSM

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
THE FOLLOWING TWO QUEUES POINT TO CIRCULAR PARTE QUEUES FOR LOCAL PAGE DATA SETS.				
16	(10) UNKNOWN	4	PARTCIR1	POINTER TO NEXT PARTE FROM WHICH TO ALLOCATE SLOTS FOR FIXED HEAD FILES
20	(14) UNKNOWN	4	PARTCIR2	POINTER TO NEXT PARTE FROM WHICH TO ALLOCATE SLOTS FOR MOVABLE HEAD FILES
24	(18) UNKNOWN	4	PARTTPAR	ADDRESS OF TPARTBLE FOR USE BY TASK MODE INITIALIZATION
24	(18) UNKNOWN	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) UNKNOWN	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

OFFSETS TYPE LENGTH NAME DESCRIPTION

 THE FOLLOWING FIELDS ARE UNIQUE FOR THE PART HEADER

32	(20)	UNKNOWN	2	PARTLCNT	COUNT OF ACTIVE LOCAL PAGE DATA SETS RESERVED
34	(22)	UNKNOWN	6		
40	(28)	UNKNOWN	4	PARTLKUP	WORD FOR RECOVERY LOCKING USED AS A COUNTER TO GENERATE LOCK COUNT USED IN PARTE'S
44	(2C)	UNKNOWN	4	PARTLOCK	LOCK WORD USED WITH ASM CLASS LOCK TO SERIALIZE THE FIFO WRITE QUEUES
48	(30)	UNKNOWN	8	PARTCOMQ	COMMON WRITE QUEUE. CONTAINS IOE'S FOR WRITE OPERATIONS TO THE PLPA(ON COLD START ONLY) OR COMMON PAGE DATA SETS
48	(30)	UNKNOWN	4	PARTCOMF	ADDRESS OF FIRST IOE
52	(34)	UNKNOWN	4	PARTCOML	ADDRESS OF LAST IOE
56	(38)	UNKNOWN	8	PARTSPLQ	SPILL WRITE QUEUE. CONTAINS IOES FOR WRITE OPERATIONS ONLY WHEN COMMON DATA SET IS FULL AND ASM IS SPILLING WRITE REQUESTS TO THE PLPA DATA SET.
56	(38)	UNKNOWN	4	PARTSPLF	ADDRESS OF FIRST IOE
60	(3C)	UNKNOWN	4	PARTSPLL	ADDRESS OF LAST IOE

PART

PART

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
64	(40) UNKNOWN	8	PARTDUPQ	DUPLEX WRITE QUEUE. CONTAINS IOE'S FOR WRITE OPERATIONS TO THE DUPLEX PAGE DATA SET WHEN DUPLEXING IS ACTIVE
64	(40) UNKNOWN	4	PARTDUPF	ADDRESS OF FIRST IOE
68	(44) UNKNOWN	4	PARTDUPL	ADDRESS OF LAST IOE
72	(48) UNKNOWN	8	PARTLOCQ	LOCAL WRITE QUEUE. CONTAINS IOE'S FOR WRITE OPERATIONS TO THE LOCAL DATA SETS
72	(48) UNKNOWN	4	PARTLOCF	ADDRESS OF FIRST ICE
76	(4C) UNKNOWN	4	PARTLOCL	ADDRESS OF LAST IOE
80	(50) UNKNOWN	0	PARTENTS	THE PART ENTRIES. ONE PARTE REPRESENTS ONE PAGE DATA SET. A PARTE IS BUILT FOR EACH PAGE DATA SET OPENED AT IPL TIME AND FOR EACH POTENTIAL DATA SET THAT CAN BE ADDED LATER UP TO A MAXIMUM OF 64 TOTAL ENTRIES.
0	(0) UNKNOWN	64	PARTENT	PART ENTRY
0	(0) UNKNOWN	4	PAREPARE	POINTER TO NEXT PARTE IN USE
4	(4) UNKNOWN	4	PARELKUP	WORD FOR LOCKING THIS PARTE
4	(4) UNKNOWN 1... ..	1	PARELKFL PAREFSIP	LOCK FLAG BYTE SLOT SORT IN PROGRESS FLAG 1=SLOT SORT CURRENTLY PROCESSING THIS PARTE

PART

PART
Data Area Descriptions 29

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				0=SLOT SORT NOT IN PROGRESS FOR THIS PARTE RESERVED
5	.111 1111 (5) UNKNOWN	1	PAREIORN	NUMBER OF IORB'S BUILT FOR THIS PARTE
6	(6) UNKNOWN	2	PARECPCT	LOCK COUNT USED FOR RECOVERY

8	(8) UNKNOWN	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 UNUSED
9	.... 1111 (9) UNKNOWN	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 DUFLEXING ACTIVE 1=PLPA OR COMMON DATA SET TEMPORARILY NOT AVAILABLE, READ REQUESTS SHOULD BE DIRECTED TO DUPLEX DATA SET 0=NORMAL PROCESSING IN EFFECT UNUSED
	...1 1111			

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
10	(A) UNKNOWN	2	PARENEN	PART NUMBER FOR THIS PARTE
12	(C) UNKNOWN	4	PAREIOEQ	ADDRESS OF FIRST IOE ON UNSORTED READ QUEUE
16	(10) UNKNOWN	4	PARESZSL	SIZE OF PAGE DATA SET IN NUMBER OF SLOTS
20	(14) UNKNOWN	4	PARESLTA	NUMBER OF SLOTS AVAILABLE FOR ALLOCATION
24	(18) UNKNOWN	4	PARERRCT	COUNT OF THE NUMBER OF PERMANENT I/O ERRORS SUFFERED ON THIS PAGE DATA SET.
28	(1C) UNKNOWN	4	PAREIORB	POINTER TO FIRST IORB FOR THIS PAGE DATA SET
32	(20) UNKNOWN	4	PAREPATP	POINTER TO PAT FOR THIS PAGE DATA SET
36	(24) UNKNOWN	4	PAREPCTP	POINTER TO PCT FOR THIS PAGE DATA SET TYPE
40	(28) UNKNOWN	4	PAREEDBP	POINTER TO EDP FOR PAGE DATA SET
44	(2C) UNKNOWN	4	PAREUCBP	POINTER TO UCB FOR PAGE DATA SET
=====				
THE FOLLOWING ARE UNIQUE FOR THE PARTE				
48	(30) UNKNOWN	4	PARENODE	SORTED READ QUEUE OF IOE'S THIS FIELD IS ANCHOR FOR SORTED TREE OF IOE'S USED BY SLOT SORT
52	(34) UNKNOWN	4	PAREWTQE	POINTER TO WRITE Q FOR THIS PARTE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
56	(38) UNKNOWN	4	PARERQTM	CORRECTION VALUE, USED IN COMPUTING SERVICE BURST FOR THIS PAGE DATA SET

60	(3C) UNKNOWN	2	PARELCYL	LAST RELATIVE CYLINDER ON THIS PAGE DATA SET PROCESSED BY SLOT SORT
62	(3E) UNKNOWN	2		RESERVED

PAT

Common Name: ASM Page Allocation Table

Macro ID: ILRPAT

DSECT Name: PAT

Created by: ILRASRIM, ILRPGEXP

Subpool and Key: 245 and key 0

Size: 16 plus number of slots in the paging space

Pointed to by: PAREPATP field of the PARTE data area

Serialization: The PATMAPS are serialized by Compare and Swap logic.

Function: The PAT is an exact representation of allocated slots within a paging space.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	16	PAT	PAGE ALLOCATION TABLE
0	(0) UNKNOWN	16	PATHDR	PAT HEADER
0	(0) UNKNOWN	4	PATIDENT	'PAT ' IDENTIFIER
4	(4) UNKNOWN	4	PATPART	POINTER TO THE PART ENTRY
8	(8) UNKNOWN	2	PATCYLNO	NBR OF CYLINDER MAPS IN THIS PAT
10	(A) UNKNOWN	2	PATCYLSZ	NBR OF SLOTS PER CYLINDER
12	(C) UNKNOWN	2	PATCYLMW	NBR OF WORDS REQUIRED TO MAP ONE CYLINDER
14	(E) UNKNOWN	2	PATRSV1	RESERVED
16	(10) UNKNOWN	0	PATMAP	SLOT ALLOCATION BIT MAP SIZE DETERMINED BY RIM
16	(10) UNKNOWN	0	PATCYLS	CYLINDER MAP WORDS--- FOR MOST DEVICES ONE WORD WILL MAP A CYLINDERS SLOTS. FOR SOME (AT PRESENT ONLY THE 3330 FAMILY) TWO WORDS ARE REQUIRED PER CYLINDER.

PCB

Common Name: RSM Page Control Block

Macro ID: IHAPCB

DSECT Name: PCB

Created by: IEAVPCB (RSM supervisor) at NIP initialization and when more PCBs are needed

Subpool and Key: 245 and Key 0

Size: 64 bytes

Pointed to by: PCBFQPA field of the PCB data area
PCBBQPA field of the PCB data area
PCBRTPA field of the PCB data area
RSMLIOQF field of the RSMHD data area
RSMLIOQL field of the RSMHD data area
PVTREUS field of the PVT data area
PVTFCBFB field of the PVT data area
PVTFCBFL field of the PVT data area
PVTGFADF field of the PVT data area
PVTGFADL field of the PVT data area
PVTGIOQF field of the PVT data area
PVTGIOQL field of the PVT data area

Serialization: SALLOC lock

Function: Page control block describes a single I/O operation, initiated by RSM, for a single page.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	PCB	, PCBPTR

0	(0) SIGNED	4	PCBFQP	FULLWORD REFERENCE FOR FORWARD POINTER

0	(0) CHARACTER	1	PCBCQN	CURRENT QUEUE NUMBER
...1			PCBFREQN	X'10' PCB ON FREE QUEUE
...1 1...			PCBDEFRN	X'18' PCB ON GFA DEFER QUEUE
...1.			PCBCIOQN	X'20' PCB ON COMMON I/O
1... 1...			PCBLIOQN	ACTIVE QUEUE X'88' PCB ON LOCAL I/O
1111 1111			PCBDEQN	ACTIVE QUEUE X'FF' NOT CURRENTLY QUEUED
1	(1) A-ADDRESS	3	PCBFQPA	FORWARD QUEUE POINTER

4	(4) SIGNED	4	PCBBQP	FULLWORD REFERENCE FOR BACKWARD PTR

4	(4) A-ADDRESS	4	PCBBQPA	BACKWARD QUEUE POINTER

8	(8) SIGNED	4	PCBRTP	FULLWORD REFERENCE FOR ROOT PCB PTR

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
8	(8) BITSTRING	1	PCBFL1	FIRST FLAG FIELD
=====				
EQU	BIT0 -		RESERVED.	
	.1..		PCBPEX	BIT1 PAGE EXCEPTION FLAG, WHEN 1 = THIS PCB IS FOR A PAGE FAULT
	..1.		PCBSRBMD	INTERUPTION BIT2 SRB MODE FLAG WHEN = 1 PCB IS FOR SRB PAGE FAULT PROCESSING. PCBSRB
	...1		PCBLLHLD	CONTAINS AN SRB ADDRESS. BIT3 THE LOCAL LOCK HELD FLAG. WHEN = 1 LOCAL LOCK WAS HELD WHEN PAGE FAULT OCCURRED.
	.... 1...		PCBLFR	BIT4 LONG FIX REQUEST FLAG
	.... .1..		PCBROOT	BIT5 WHEN 1 INDICATES THAT PCBRTPA IS A ROOT PCB POINTER, WHEN 0 INDICATES THAT PCBRTPA IS A TCB POINTER
	.... ..1.		PCBIOI	BIT6 INPUT-OUTPUT FLAG. WHEN 1 = PAGE OUT, WHEN 0 = PAGE IN
	.... ....1		PCBIOCMP	BIT7 WHEN 1 = PAGING I/O COMPLETE FOR THIS PCB.
9	(9) A-ADDRESS	3	PCBRTPA	ROOT PCB POINTER/TCB POINTER CONTENTS DETERMINED BY PCBROOT FLAG

12	(C) SIGNED	4	PCBRLP	FULLWORD REFERENCE FOR RELATED PCB POINTER

12	(C) SIGNED	1	PCBFXC	FIX COUNT
13	(D) A-ADDRESS	3	PCBRLPA	RELATED PCB POINTER

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
16	(10) SIGNED	4	PCBXPT	FULLWORD REFERENCE FOR XPTE PTR

16	(10) BITSTRING	1	PCBFL2	SECOND FLAG FIELD
	1...		PCBFREAL	BIT0 FREE REAL FLAG. WHEN 1, THIS FLAG INDICATES THAT THE REAL FRAME ASSOCIATED WITH THE PCB SHOULD BE BE FREED AT I/O COMPLETION.
	.1..		PCBGFAD	BIT1 GFA DEFER PROCESSOR SCHEDULED FLAG WHEN 1, GFA DEFER PROCESSOR HAS BEEN SCHEDULED FOR THIS PCB.
	..1.		PCBIOERR	BIT2 PERMANENT I/O ERROR FLAG. WHEN 1 A PAGING I/O OPERATION HAS FAILED BECAUSE OF A PERMANENT I/O ERROR
	...1		PCBRESET	BIT3 RESET FLAG. WHEN 1, CALL RESET FOR PCB.
	.... 1...		PCBSUPRS	BIT4 SUPPRESS FRAME PROCESSING. IGNORE PCBFREAL,PCBRBN AND ASSOCIATED PFTE.
	.... .1..		PCBVIO	BIT5 THIS PCB IS FOR A VIO MOVE-OUT.

=====

EQU BIT6 - RESERVED
EQU BIT7 - RESERVED

17	(11) A-ADDRESS	3	PCBXPTA	VIRTUAL MEMORY ADDRESS OF EXTERNAL PAGE TABLE ENTRY
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20	(14) SIGNED	4	PCBPGT	FULL WORD REFERENCE FOR PAGE TABLE ADDR
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20	(14) BITSTRING	1	PCBFL3	THIRD FLAG FIELD
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PCB

PCB

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
1... ..			PCBSWPOT	BIT0 SWAP-OUT FLAG
.1... ..			PCBSWPIN	BIT1 SWAP-IN PRIVATE AREA PAGE FLAG
..1.			PCBSWPS1	BIT2 STAGE 1 SWAP-IN FLAG
...1			PCBSWPLS	BIT3 SWAP-IN LSQA PAGE FLAG
.... 1...			PCBDFRLS	BIT4 SWAP-IN DEFERRED RELEASE FLAG. THE SWIN ROOT EXIT MUST SET PFTDFRLS TO 1.
.... .1..			PCBNOREC	BIT5 NO RECLAIM FLAG, VALID ONLY IF PCBIOI=1. WHEN 1, PAGE-OUT IS NOT TO BE RECLAIMED. WHEN 0, RECLAIM IS ALLOW- ED.
=====				
EQU	BIT6 -		RESERVED	
	.... ..1		PCBSWPS2	BIT7 WHEN 1, PCB IS FOR A STAGE 2 SWAP-IN.
21	(15) A-ADDRESS	3	PCBPGTA	VIRTUAL MEMORY ADDRESS OF PAGE TABLE ENTRY

24	(18) A-ADDRESS	2	PCBRBN	REAL CORE BLOCK NUMBER (LEFT ADJUSTED WITH 4 LOW ORDER ZEROES.)
26	(1A) A-ADDRESS	2	PCBVBN	VIRTUAL MEMORY BLOCK NUMBER (LEFT ADJUSTED WITH 4 LOW ORDER ZEROES.) IF THIS VALUE IS ZERO, NO PGTE VALIDATION WILL BE PERFORMED.

28	(1C) SIGNED	4	PCBBLOCK	MULTI USE FIELD, SEE BELOW.

28	(1C) SIGNED	4	PCBSRB	IF PCBSWPOT=1 AND PCBSRBMD=1 THEN FIELD CONTAINS ADDRESS OF

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				PAGE FAULTING SRB.
28	(1C) SIGNED	4	PCBRB	IF PCBPEX=1 AND PCBSRBMD=0 THEN FIELD CONTAINS ADDRESS OF PAGE FAULTING RB.
28	(1C) A-ADDRESS	4	PCBSPCTE	IF PCBSPOT=1 OR PCBSPSI=1 AND VBN IN PRIVATE AREA, THEN FIELD CONTAINS ADDRESS OF A SPCTSWPE.
32	(20) A-ADDRESS	4	PCBASCB	THE ADDRESS OF THE ADDRESS SPACE CONTROL BLOCK (ASCB) OF THE REQUESTOR WHO CAUSED THE PCB TO BE BUILT.
36	(24) CHARACTER	28	PCBAIA	THE ASM I/O REQUEST AREA (AIA) WHICH IS ALWAYS PART OF THE PCB. THE AREA IS MAPPED BY THE ILRAIA MACRO.

PCCA

Common Name: Physical Configuration Communication Area

Macro ID: IHAPCCA

DSECT Name: PCCA

Created by: IEAVNIP0, IEAVCPU

Subpool and Key: 245 and key 0

Size: 534 bytes

Pointed to by: PCCATxxP field of the PCCAVT data area
(where xx is the processor number)
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.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	PCCA	
0	(0) CHARACTER	4	PCCAPCCA	CONTROL BLOCK ACRONYM IN EBCDIC
4	(4) HEX	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) A-ADDRESS	4	PCCATQEP	TQE POINTER
24	(18) A-ADDRESS	4	PCCAPSAV	VIRTUAL ADDRESS OF PSA
28	(1C) A-ADDRESS	4	PCCAPSAR	REAL ADDRESS OF PSA
32	(20) A-ADDRESS	4	PCCARV81	RESERVED
36	(24) A-ADDRESS	4	PCCARV82	RESERVED
40	(28) A-ADDRESS	4	PCCARV83	RESERVED
44	(2C) A-ADDRESS	4	PCCARV84	RESERVED
48	(30) A-ADDRESS	4	PCCARV85	RESERVED
52	(34) A-ADDRESS	4	PCCARV86	RESERVED
56	(38) A-ADDRESS	4	PCCARV87	RESERVED
60	(3C) A-ADDRESS	4	PCCARV88	RESERVED
64	(40) A-ADDRESS	4	PCCARV89	RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
68	(44) A-ADDRESS	4	PCCARV90	RESERVED
72	(48) A-ADDRESS	4	PCCARV91	RESERVED
76	(4C) A-ADDRESS	4	PCCARV92	RESERVED
80	(50) A-ADDRESS	4	PCCARV93	RESERVED
84	(54) A-ADDRESS	4	PCCARV94	RESERVED
88	(58) A-ADDRESS	4	PCCARV95	RESERVED
92	(5C) A-ADDRESS	4	PCCARV96	RESERVED
96	(60) A-ADDRESS	4	PCCARV97	RESERVED
100	(64) A-ADDRESS	4	PCCARV98	RESERVED
104	(68) A-ADDRESS	4	PCCARV99	RESERVED
108	(6C) A-ADDRESS	4	PCCARV9A	RESERVED
112	(70) A-ADDRESS	4	PCCARV9B	RESERVED
116	(74) A-ADDRESS	4	PCCARV9C	RESERVED
120	(78) A-ADDRESS	4	PCCARV9D	RESERVED
124	(7C) A-ADDRESS	4	PCCARV9E	RESERVED
128	(80) BITSTRING	4	PCCATMST	TIMER STATUS BYTES
128	(80) HEX	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' VARY CPU SHOULD BE CANCELLED
	...1		PCCAMCC	X'10' PROCESSING FOR PERMANENTLY DAMAGED CLOCK COMPARATOR MUST BE DONE
	.... 1...		PCCAMINT	X'08' PROCESSING FOR CPU TIMER MUST BE DONE
	.... .1..		PCCARV02	X'04',,C'X' RESERVED
	.... ..1.		PCCARV03	X'02',,C'X' RESERVED
	.... ...1		PCCARV04	X'01',,C'X' RESERVED
129	(81) HEX	1	PCCATODE	TOD CLOCK ERROR FLAGS

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	1... ..		PCCANUTD	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) HEX	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) HEX	1	PCCAINTE	FLAGS FOR CPU TIMER
	1... ..		PCCANUIN	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

136	(88) CHARACTER	16	PCCAEMSB	EMERGENCY SIGNAL SIGP BUFFER

136	(88) BITSTRING	4	PCCAEMSI	FIRST WORD OF EMS BUFFER

136	(88) HEX	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

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
137	(89) HEX	1	PCCAEMS2	SECOND BYTE OF PCCAEMSI
	1...		PCCARV12	X'80',,C'X' RESERVED
	.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) HEX	1	PCCAEMS3	THIRD BYTE OF PCCAEMSI
	1...		PCCARV20	X'80',,C'X' RESERVED
	.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) HEX	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
	.... 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) A-ADDRESS	4	PCCAEMSP	REMOTE IMMEDIATE SIGNAL PARAMETER ADDRESS

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
144	(90) A-ADDRESS	4	PCCAEMSE	REMOTE IMMEDIATE SIGNAL RECEIVING ROUTINE ENTRY POINT ADDRESS
148	(94) A-ADDRESS	4	PCCAEMSA	PCCA ADDRESS OF THE RECEIVING ROUTINE
152	(98) A-ADDRESS	4	PCCAPWAV	VIRTUAL ADDRESS OF MCH PROCESSOR WORK AREA
156	(9C) A-ADDRESS	4	PCCAPWAR	REAL ADDRESS OF MCH PROCESSOR WORK AREA
160	(A0) A-ADDRESS	4	PCCALRBV	VIRTUAL ADDRESS OF MCH LOGREC BUFFER
164	(A4) A-ADDRESS	4	PCCALRBR	REAL ADDRESS OF MCH LOGREC BUFFER
168	(A8) A-ADDRESS	4	PCCAELAD	VIRTUAL ADDRESS OF I/O EXTENDED LOGOUT (IOEL) AREA
172	(AC) A-ADDRESS	4	PCCAELBA	VIRTUAL ADDRESS OF CCH LOGOUT BUFFER
176	(B0) A-ADDRESS	4	PCCACCHM	VIRTUAL ADDRESS OF CCH MESSAGE BUFFER
180	(B4) HEX	44	PCCASRB	SRB FOR CCH TO SCHEDULE IECVIRST TO PROCESS CHANNEL ERRORS
224	(E0) HEX	1	PCCACHAN	FLAG BYTE FOR CCH-IOS CHANNEL RECOVERY COMMUNICATION
	1...		PCCAIRST	X'80' IECVIRST IS PROCESSING CHANNEL ERRORS DETECTED DURING AN EXTERNAL MACHINE CHECK

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.1..			PCCAEXDM	X'40' WHILE PCCAIRST BIT WAS SET, MORE CHANNEL ERRORS WERE DETECTED WHILE PROCESSING ANOTHER EXTERNAL DAMAGE MACHINE CHECK
..1.			PCCAR107	X'20',,C'X' RESERVED
...1			PCCAR108	X'10',,C'X' RESERVED
.... 1...			PCCAR109	X'00',,C'X' RESERVED
.... .1..			PCCAR110	X'04',,C'X' RESERVED
.... ..1.			PCCAR111	X'02',,C'X' RESERVED
.... ...1			PCCAR112	X'01',,C'X' RESERVED
225 (E1) HEX		1	PCCASRBL	LOCK BYTE FOR COMMUNICATING CHANNEL ERRORS BETWEEN CCH AND IOS
....			PCCASRBA	X'00' SRB IS AVAILABLE FOR SCHEDULING
1111 1111			PCCASRBN	X'FF' SRB IS NOT AVAILABLE FOR SCHEDULING
226 (E2) SIGNED		2	PCCAR113	RESERVED
228 (E4) HEX		1	PCCAR106(52)	RESERVED
280 (118) FLOATING		8		ALIGN PCCAWERP TO DOUBLEWORD
280 (118) HEX		8	PCCAWERP	WORK ERPIB FOR CCH
280 (118) A-ADDRESS		4	PCCACHUB	UCB ADDRESS OF THE DEVICE IN USE WHEN THE CHANNEL-DETECTE D ERROR OCCURRED. THIS FIELD IS ZERO IF CCH HAS NOT CREATED AN ERPIB FOR THE ERP'S.
284 (11C) HEX		1	PCCACHPF	PROGRAM FLAGS. INDICATES THE SELECTION OR INTERRUPTION SEQUENCE WHEN THE CSW WAS STORED.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	1... ..		PCCACSI0	X'80' THE CSW WAS STORED AFTER A START I/O INSTRUCTION WAS EXECUTED.
	.1.. ..		PCCACINT	X'40' THE CSW WAS STORED AFTER AN I/O INTERRUPTION
	..1.		PCCACTIO	X'20' THE CSW WAS STORED AFTER A TEST I/O INSTRUCTION WAS EXECUTED.
	...1		PCCACHIO	X'10' THE CSW WAS STORED AFTER A HALT I/O INSTRUCTION WAS EXECUTED.
	.... 1...		PCCARV37	X'08',,C'X' RESERVED
	.... .1..		PCCACSNS	X'04' THE SENSE DATA WAS STORED
	.... ..1.		PCCACCNT	X'02' THE CSW COUNT IS VALID
	.... ....1		PCCACNOR	X'01' NO RETRY IS TO BE ATTEMPTED UNDER ANY CONDITIONS
285	(11D) HEX	1	PCCACHBL	PROBABLE SOURCE OF ERROR
	1... ..		PCCACCPU	X'80' CPU ERROR
	.1.. ..		PCCACCHA	X'40' CHANNEL ERROR
	..1.		PCCACSCU	X'20' STORAGE CONTROL UNIT ERROR
	...1		PCCACSTG	X'10' STORAGE ERROR
	.... 1...		PCCACCUE	X'08' CONTROL UNIT ERROR
	.... .1..		PCCARV38	X'04',,C'X' RESERVED
	.... ..1.		PCCARV39	X'02',,C'X' RESERVED
	.... ....1		PCCARV40	X'01',,C'X' RESERVED
286	(11E) HEX	1	PCCACHVA	VALIDITY INDICATORS. WHEN THE DESIGNATED FIELD IS STORED BY THE CHANNEL WITH THE CORRECT CONTENTS THE VALIDITY BIT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				IS ONE. THE VALIDITY BIT FOR NON-STORED FIELDS IS MEANINGLESS.
1... ..			PCCACITF	X'80' INTERFACE ADDRESS IS VALID
.1.. ..			PCCARV41	X'40',,C'X' RESERVED
..1. ..			PCCARV42	X'20',,C'X' RESERVED
...1 ..			PCCACSQV	X'10' SEQUENCE CODE IS VALID
.... 1..			PCCACUNS	X'08' UNIT STATUS IS VALID
.... .1..			PCCACCMD	X'04' COMMAND ADDRESS IS VALID. THE CSW CONTAINS A VALID COMMAND ADDRESS.
.... .1.			PCCACCHV	X'02' CHANNEL ADDRESS IS VALID
.... ...1			PCCACDAV	X'01' DEVICE ADDRESS IS VALID
287 (11F) HEX		1	PCCACHTS	TERMINATION AND SEQUENCE (RETRY) CODES
11.. ..			PCCACTEC	X'C0' TWO-BIT TERMINATION CODE. THIS CODE SPECIFIES THE TERMINATION SIGNALS USED ON THE I/O INTERFACE AFTER THE CHANNEL DETECTED THE ERROR. THIS FIELD HAS MEANING ONLY WHEN ICC OR CCC IS INDICATED IN THE CSW. THE FOLLOWING 4 EQU'S ARE THE VALUES FOR TERMINATION CODE.
.... ..			PCCACTC0	X'00' INTERFACE DISCONNECT
.1.. ..			PCCACTC1	X'40' STOP, STACK OR NORMAL TERMINATION

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
1... ..	....		PCCACTC2	X'80' SELECTIVE RESET
11.. ..	....		PCCACTC3	X'C0' SYSTEM RESET
..1. ....	....		PCCARV43	X'20',,,C'X' RESERVED
...1 ....	....		PCCARV44	X'10',,,C'X' RESERVED
.... 1...	....		PCCACDIN	X'08' I/O ERROR ALERT
.... .111	....		PCCACSEQ	X'07' THREE-BIT SEQUENCE CODE. THESE CODES HAVE CHANNEL-DEPENDENT MEANINGS.

288	(120) HEX	1	PCCACHS1	CCH INTERNAL SWITCH 1
	1... ..		PCCACMP	X'80' COMMAND REGISTER PARITY IS VALID
	.1..		PCCACNRE	X'40' CCH WILL NOT CREATE A RECORD FOR THIS ERROR
	..1.		PCCACFRR	X'20' THE CCH FRR IS IN THE STACK
	...1		PCCACNLS	X'10' CCH IS TO PERFORM THE RECORD FUNCTION ONLY. AN ERPIB IS NOT TO BE PLACED IN THE EWA.
	.... 1...		PCCACAND	X'08' ATTENTION HAS BEEN PRESENTED
	.... .1..		PCCACIBC	X'04' AN ERPIB FOR THIS ERROR HAS ALREADY BEEN CREATED
	.... ..1.		PCCACUCB	X'02' UCB INVALID BIT
	.... ...1		PCCARV47	X'01',,,C'X' RESERVED
289	(121) HEX	1	PCCACHS2	CCH INTERNAL SWITCH 2
	1... ..		PCCACIOR	X'80' I/O RESTART FUNCTION REQUIRED
	.1..		PCCACALT	X'40' THE ALTERNATE RETURN TO IOS IS TO BE USED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.1.		PCCACMOD	X'20' NO MODULE IS AVAILABLE TO ANALYZE THE CHANNEL LOGOUT
	...1		PCCACNLG	X'10' CCH DETECTED A FAILURE TO LOG OR FAILURE TO STORE AN ECSW CONDITION
	.... 1...		PCCACURC	X'08' THE STIDC FIELD OF THE CAT ENTRY IS VALID BUT NOT THAT OF A SUPPORTED CHANNEL
	.... .1..		PCCACCRA	X'04' CHANNEL RECONFIGURATION HARDWARE ACTIVE FOR THE CHANNEL
	.... .1.		PCCARV50	X'02',,C'X' RESERVED
	.... ....1		PCCARV51	X'01',,C'X' RESERVED
290	(122) HEX	1	PCCACHRB	CCH RECORD BYTE
	1...		PCCACSIB	X'80' ERROR ON SIO
	.1..		PCCACINB	X'40' ERROR ON INTERRUPT
	..1.		PCCACTIB	X'20' ERROR ON TIO
	...1		PCCACHIB	X'10' ERROR ON HIO
	.... 1...		PCCARV52	X'08',,C'X' RESERVED
	.... .1..		PCCACSNB	X'04' SENSE DATA STORED
	.... .1.		PCCACCVB	X'02' COUNT VALID
291	.... ....1 (123) HEX	1	PCCACNRB PCCAIOSI	X'01' NO RETRY IOS INTERCEPT BYTE

292	(124) SIGNED	4	PCCACHW1	CCH WORK AREA 1

296	(128) SIGNED	4	PCCACHW2	CCH WORK AREA 2

300	(12C) SIGNED	2	PCCALOGL	LENGTH OF CHANNEL LOGOUT FOR CURRENT ERROR
302	(12E) SIGNED	2	PCCACELL	MAXIMUM LENGTH OF I/O EXTENDED LOGOUT (IOEL) AREA

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
304	(130) HEX	1	PCCALGP1	LOGOUT PARITY AREA 1
305	(131) HEX	1	PCCALGP2	LOGOUT PARITY AREA 2
306	(132) SIGNED	1	PCCACHPB	LOGOUT PARITY BYTE COUNT
307	(133) HEX	1	PCCARV05	RESERVED FOR CCH

308	(134) HEX	1	PCCACHF1	CCH FOOTPRINT BYTE 1
	1... ..		PCCACF11	X'80' IOS GPR'S SAVED
	.1... ..		PCCACF12	X'40' UCB ADDRESS IS ZERO
	..1.		PCCACF13	X'20' ERPIB EXISTS
	...1		PCCACF14	X'10' IGFCCHSI ENTERED
	.... 1...		PCCACF15	X'08' IGFCCHII ENTERED
	.... .1..		PCCACF16	X'04' IGFCCHF ENTERED
	.... .1.		PCCACF17	X'02' IGFC60 ENTERED
	.... ...1		PCCACF18	X'01' IGFC70 ENTERED
309	(135) HEX	1	PCCACHF2	CCH FOOTPRINT BYTE 2
	1... ..		PCCACF21	X'80' IGFC80 ENTERED
	.1... ..		PCCACF22	X'40' IGFCIC ENTERED
	..1.		PCCACF23	X'20' IGFCCHRD ENTERED
	...1		PCCACF24	X'10' IGFCCHMP ENTERED
	.... 1...		PCCACF25	X'08' IGFCCHUC ENTERED
	.... .1..		PCCACF26	X'04' IGFCCHAS ENTERED
	.... .1.		PCCACF27	X'02' IGFCCHIO ENTERED
	.... ...1		PCCACF28	X'01' EXIT CCH
310	(136) HEX	1	PCCACHF3	CCH FOOTPRINT BYTE 3
	1... ..		PCCAISRB	X'80' SRB FOR IECVIRST SCHEDULED
	.1... ..		PCCASLCK	X'40' SPACE ALLOCATION LOCK HELD BY CCH
	..1.		PCCARV66	X'20',,C'X' RESERVED
	...1		PCCARV67	X'10',,C'X' RESERVED
	.... 1...		PCCARV68	X'08',,C'X' RESERVED
	.... .1..		PCCARV69	X'04',,C'X' RESERVED
	.... ...1		PCCARV70	X'02',,C'X' RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... .1		PCCARV71	X'01',,C'X' RESERVED
311 (137)	HEX	1	PCCACHF4	CCH FOOTPRINT BYTE 4
	1...		PCCARV72	X'80',,C'X' RESERVED
	.1..		PCCARV73	X'40',,C'X' RESERVED
	..1.		PCCARV74	X'20',,C'X' RESERVED
	...1		PCCARV75	X'10',,C'X' RESERVED
	.... 1..		PCCARV76	X'08',,C'X' RESERVED
	.... .1..		PCCARV77	X'04',,C'X' RESERVED
	.... ..1.		PCCARV78	X'02',,C'X' RESERVED
	.... ...1		PCCARV79	X'01',,C'X' RESERVED

312 (138)	SIGNED	4	PCCACHSV(3)	CCH INTERNAL SAVE AREA. FIRST WORD CONTAINS THE ADDRESS OF THE CURRENT CCH RECORD BUFFER

324 (144)	HEX	8	PCCACHID	STORE CHANNEL ID WORK AREA

332 (14C)	A-ADDRESS	4	PCCALOGA	ADDRESS OF CHANNEL LOGOUT

336 (150)	A-ADDRESS	4	PCCARV54	RESERVED

340 (154)	A-ADDRESS	4	PCCARV55	RESERVED

344 (158)	A-ADDRESS	4	PCCARV56	RESERVED

348 (15C)	A-ADDRESS	4	PCCARV57	RESERVED

352 (160)	A-ADDRESS	4	PCCARV58	RESERVED

356 (164)	A-ADDRESS	4	PCCARV59	RESERVED

360 (168)	A-ADDRESS	4	PCCARV60	RESERVED

364 (16C)	A-ADDRESS	4	PCCARV61	RESERVED

368 (170)	A-ADDRESS	4	PCCARV62	RESERVED

372 (174)	A-ADDRESS	4	PCCARV63	RESERVED

376 (178)	HEX	1	PCCAATTR	PROCESSOR ATTRIBUTES
	1...		PCCACPUM	X'80' INDICATOR THAT DEAD CPU HAD A MALFUNCTION
	.1..		PCCAIO	X'40' PROCESSOR HAS I/O CAPABILITY

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
..1.			PCCAR100	X'20',,C'X' RESERVED
...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) HEX		1	PCCARV01	RESERVED
378 (17A) SIGNED		2	PCCARV35	RESERVEL

380 (17C) SIGNED		4	PCCARV36	RESERVED

384 (180) HEX		128	PCCACAT	CHANNEL AVAILABILITY TABLE (16 CHANNELS, 8 BYTES PER CHANNEL)

512 (200) HEX		72		RESERVED

CROSS REFERENCE

PCCA	0 (0)	PCCACNLS	288 X'10'
PCCAATTR	376(178)	PCCACNDR	284 X'01'
PCCACAFM	18 (12)	PCCACNRB	290 X'01'
PCCACALT	289 X'40'	PCCACNRE	288 X'40'
PCCACAND	288 X'08'	PCCACPID	4 (4)
PCCACAT	384(180)	PCCACPUA	16 (10)
PCCACCE	130 (82)	PCCACPUM	376 X'80'
PCCACCHA	285 X'40'	PCCACSCU	285 X'20'
PCCACCHM	176 (80)	PCCACSEQ	287 X'07'
PCCACCHV	286 X'02'	PCCACSIB	290 X'80'
PCCACCHD	286 X'04'	PCCACSI0	284 X'80'
PCCACCMP	288 X'80'	PCCACSNB	290 X'04'
PCCACCNT	284 X'02'	PCCACSNS	284 X'04'
PCCACCFU	285 X'80'	PCCACSQV	286 X'10'
PCCACCRA	289 X'04'	PCCACSTG	285 X'10'
PCCACCUE	285 X'08'	PCCACTCC	130 X'3F'
PCCACCVB	290 X'02'	PCCACTC0	287 X'00'
PCCACDAV	286 X'01'	PCCACTC1	287 X'40'
PCCACDIN	287 X'08'	PCCACTC2	287 X'80'
PCCACELL	302(12E)	PCCACTC3	287 X'C0'
PCCACFRR	288 X'20'	PCCACTEC	287 X'C0'
PCCACF11	308 X'80'	PCCACTIB	290 X'20'
PCCACF12	308 X'40'	PCCACTIN	131 X'3F'
PCCACF13	308 X'20'	PCCACTIO	284 X'20'
PCCACF14	308 X'10'	PCCACTTD	129 X'3F'
PCCACF15	308 X'08'	PCCACUCB	288 X'02'
PCCACF16	308 X'04'	PCCACUNS	286 X'08'
PCCACF17	308 X'02'	PCCACURC	289 X'08'
PCCACF18	308 X'01'	PCCAELAD	168 (A8)
PCCACF21	309 X'80'	PCCAELBA	172 (AC)
PCCACF22	309 X'40'	PCCAEMSA	148 (94)
PCCACF23	309 X'20'	PCCAEMSB	136 (88)
PCCACF24	309 X'10'	PCCAEMSE	144 (90)
PCCACF25	309 X'08'	PCCAEMSI	136 (88)
PCCACF26	309 X'04'	PCCAEMSP	140 (8C)
PCCACF27	309 X'02'	PCCAEMS2	137 (89)
PCCACF28	309 X'01'	PCCAEMS3	138 (8A)
PCCACHAN	224 (E0)	PCCAEXDM	224 X'40'
PCCACHBL	285(11D)	PCCAINIT	128 X'80'
PCCACHF1	308(134)	PCCAINTE	131 (83)
PCCACHF2	309(135)	PCCAIO	376 X'40'
PCCACHF3	310(136)	PCCAIOSI	291(123)
PCCACHF4	311(137)	PCCAIRST	224 X'80'
PCCACHIB	290 X'10'	PCCAIRSB	310 X'80'
PCCACHID	324(144)	PCCALGP1	304(130)
PCCACHIO	284 X'10'	PCCALGP2	305(131)
PCCACHPB	306(132)	PCCALOGA	332(14C)
PCCACHPF	284(11C)	PCCALOGL	300(12C)
PCCACHRB	290(122)	PCCALRBR	164 (A4)
PCCACHSV	312(138)	PCCALRBV	160 (A0)
PCCACHS1	288(120)	PCCAMCC	128 X'10'
PCCACHS2	289(121)	PCCAMINT	128 X'08'
PCCACHTS	287(11F)	PCCANFCC	130 X'40'
PCCACHUB	280(118)	PCCANFIN	131 X'40'
PCCACHVA	286(11E)	PCCANFTD	129 X'40'
PCCACHW1	292(124)	PCCANUCC	130 X'80'
PCCACHW2	296(128)	PCCANUIN	131 X'80'
PCCACIBC	288 X'04'	PCCANUTD	129 X'80'
PCCACINB	290 X'40'	PCCAPARL	136 X'80'
PCCACINT	284 X'40'	PCCAPCCA	0 (0)
PCCACIOR	289 X'80'	PCCAPSAR	28 (1C)
PCCACITF	286 X'80'	PCCAPSAV	24 (18)
PCCACMOD	289 X'20'	PCCAPWAR	156 (9C)
PCCACNLG	289 X'10'	PCCAPWAV	152 (98)

CROSS REFERENCE

PCCARISP	136 (88)	PCCARV68	310 X'08'
PCCARMS	139 X'01'	PCCARV69	310 X'04'
PCCARMSB	139 (8B)	PCCARV70	310 X'02'
PCCARPB	132 (84)	PCCARV71	310 X'01'
PCCARV01	377(179)	PCCARV72	311 X'80'
PCCARV02	128 X'04'	PCCARV73	311 X'40'
PCCARV03	128 X'02'	PCCARV74	311 X'20'
PCCARV04	128 X'01'	PCCARV75	311 X'10'
PCCARV05	307(133)	PCCARV76	311 X'08'
PCCARV06	136 X'20'	PCCARV77	311 X'04'
PCCARV07	136 X'10'	PCCARV78	311 X'02'
PCCARV08	136 X'08'	PCCARV79	311 X'01'
PCCARV09	136 X'04'	PCCARV81	32 (20)
PCCARV10	136 X'02'	PCCARV82	36 (24)
PCCARV11	136 X'01'	PCCARV83	40 (28)
PCCARV12	137 X'80'	PCCARV84	44 (2C)
PCCARV13	137 X'40'	PCCARV85	48 (30)
PCCARV14	137 X'20'	PCCARV86	52 (34)
PCCARV15	137 X'10'	PCCARV87	56 (38)
PCCARV16	137 X'08'	PCCARV88	60 (3C)
PCCARV17	137 X'04'	PCCARV89	64 (40)
PCCARV18	137 X'02'	PCCARV9A	108 (6C)
PCCARV19	137 X'01'	PCCARV9B	112 (70)
PCCARV20	138 X'80'	PCCARV9C	116 (74)
PCCARV21	138 X'40'	PCCARV9D	120 (78)
PCCARV22	138 X'20'	PCCARV9E	124 (7C)
PCCARV23	138 X'10'	PCCARV90	68 (44)
PCCARV24	138 X'08'	PCCARV91	72 (48)
PCCARV25	138 X'04'	PCCARV92	76 (4C)
PCCARV26	138 X'02'	PCCARV93	80 (50)
PCCARV27	138 X'01'	PCCARV94	84 (54)
PCCARV28	139 X'80'	PCCARV95	88 (58)
PCCARV29	139 X'40'	PCCARV96	92 (5C)
PCCARV30	139 X'20'	PCCARV97	96 (60)
PCCARV31	139 X'10'	PCCARV98	100 (64)
PCCARV32	139 X'08'	PCCARV99	104 (68)
PCCARV33	139 X'04'	PCCAR100	376 X'20'
PCCARV34	139 X'02'	PCCAR101	376 X'10'
PCCARV35	378(17A)	PCCAR102	376 X'08'
PCCARV36	380(17C)	PCCAR103	376 X'04'
PCCARV37	284 X'08'	PCCAR104	376 X'02'
PCCARV38	285 X'04'	PCCAR105	376 X'01'
PCCARV39	285 X'02'	PCCAR106	228 (E4)
PCCARV40	285 X'01'	PCCAR107	224 X'20'
PCCARV41	286 X'40'	PCCAR108	224 X'10'
PCCARV42	286 X'20'	PCCAR109	224 X'08'
PCCARV43	287 X'20'	PCCAR110	224 X'04'
PCCARV44	287 X'10'	PCCAR111	224 X'02'
PCCARV47	288 X'01'	PCCAR112	224 X'01'
PCCARV50	289 X'02'	PCCAR113	226 (E2)
PCCARV51	289 X'01'	PCCASERL	136 X'40'
PCCARV52	290 X'08'	PCCASLCK	310 X'40'
PCCARV54	336(150)	PCCASRB	180 (B4)
PCCARV55	340(154)	PCCASRBA	225 X'00'
PCCARV56	344(158)	PCCASRBL	225 (E1)
PCCARV57	348(15C)	PCCASRBN	225 X'FF'
PCCARV58	352(160)	PCCASYNC	128 X'40'
PCCARV59	356(164)	PCCATHFL	128 (80)
PCCARV60	360(168)	PCCATHST	128 (80)
PCCARV61	364(16C)	PCCATODE	129 (81)
PCCARV62	368(170)	PCCATQEP	20 (14)
PCCARV63	372(174)	PCCAVKIL	128 X'20'
PCCARV66	310 X'20'	PCCAWERP	280(118)
PCCARV67	310 X'10'		

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.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	PCCAVT	
0	(0) A-ADDRESS	4	PCCAT00P	ADDRESS OF PCCA FOR CPU 0
4	(4) A-ADDRESS	4	PCCAT01P	ADDRESS OF PCCA FOR CPU 1
8	(8) A-ADDRESS	4	PCCAT02P	ADDRESS OF PCCA FOR CPU 2
12	(C) A-ADDRESS	4	PCCAT03P	ADDRESS OF PCCA FOR CPU 3
16	(10) A-ADDRESS	4	PCCAT04P	ADDRESS OF PCCA FOR CPU 4
20	(14) A-ADDRESS	4	PCCAT05P	ADDRESS OF PCCA FOR CPU 5
24	(18) A-ADDRESS	4	PCCAT06P	ADDRESS OF PCCA FOR CPU 6
28	(1C) A-ADDRESS	4	PCCAT07P	ADDRESS OF PCCA FOR CPU 7
32	(20) A-ADDRESS	4	PCCAT08P	ADDRESS OF PCCA FOR CPU 8
36	(24) A-ADDRESS	4	PCCAT09P	ADDRESS OF PCCA FOR CPU 9
40	(28) A-ADDRESS	4	PCCAT10P	ADDRESS OF PCCA FOR CPU 10
44	(2C) A-ADDRESS	4	PCCAT11P	ADDRESS OF PCCA FOR CPU 11
48	(30) A-ADDRESS	4	PCCAT12P	ADDRESS OF PCCA FOR CPU 12
52	(34) A-ADDRESS	4	PCCAT13P	ADDRESS OF PCCA FOR CPU 13

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
56	(38) A-ADDRESS	4	PCCAT14P	ADDRESS OF PCCA FOR CPU 14

60	(3C) A-ADDRESS	4	PCCAT15P	ADDRESS OF PCCA FOR CPU 15

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: None

Function: Contains information relating to a private catalog of a job.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	176	IEFPCCB	PVT CAT CONTROL BLOCK
0	(0) UNKNOWN	4	PCCACRO	ACRONYM OF BLOCK 'PCCB'
4	(4) UNKNOWN	4	PCCNEXTP	ADDR OF NEXT PCCB OR ZERO
8	(8) UNKNOWN	4	PCCPREVP	ADDR OF PREVIOUS PCCB OR 0
12	(C) UNKNOWN	4	PCCSTATS	PCCB INDICATORS
12	(C) UNKNOWN	1	PCCSTAT1	STATUS BYTE NUMBER 1
	1... ..		PCCSTEP	CATALOG IS A STEP
	.1.. ..		PCCALIAS	CTLG CON ALIAS FOR DSNAME
	..1.		PCCACTIV	CATALOG ALLOCATED
	...1		PCOSCVOL	ACTIVE CATALOG IS AN OS CVOL
	.... 1...		PCCTCL	TEMPORARILY CLOSED
	.... .111			NOT USED
13	(D) UNKNOWN	1	PCCSTAT2	NOT USED
14	(E) UNKNOWN	1	PCCSTAT3	NOT USED
15	(F) UNKNOWN	1	PCCSTAT4	NOT USED
16	(10) UNKNOWN	4	PCCACBP	ADDR OF ACB FOR PVT CAT
20	(14) UNKNOWN	8	PCCDDNAM	DD NAME FOR DYN ALLOC CTLG
28	(1C) UNKNOWN	44	PCCDSNAM	CATALOG DATA SET NAME
72	(48) UNKNOWN	44	PCCTGCON	CATALOG CONNECTOR (ALIAS)

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
116	(74) UNKNOWN	6	PCVOLSER	CVOL VOLUME SERIAL
122	(7A) UNKNOWN	2	PCCRSVD1	NOT USED

124	(7C) UNKNOWN	4	PCCLACBP	ACB ADDRESS OF TEMPORARILY CLOSED CATALOG

128	(80) UNKNOWN	48	PCCRSVD2	NOT USED

PCCW

Common Name: Paging Channel Command Work Area

Macro ID: ILRPCCW

DSECT Name: PCCW

Created by: ILROPS00

Subpool and Key: Nucleus buffer and key 0

Size: 72 bytes

Pointed to by: IORPCCW field of the IORB data area

PCCWPCCW field of the PCCW data area

ASMPCCWQ field of the ASMVT 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.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	72	PCCW	DCL PCCW LEVEL 1
0	(0) UNKNOWN	1	PCCWID	PCCW IDENTIFIER
1	(1) UNKNOWN	1	PCCWSECT	X'86' SECTOR FOR SET SECTOR COMMAND
2	(2) UNKNOWN 1... ..	1	PCCWFLGS PCCWFERR	INTERNAL FLAGS X'80' = I/O ERROR
3	.111 1111 (3) UNKNOWN	1		RESERVED RESERVED
4	(4) UNKNOWN	4	PCCWPCCW	NEXT PCCW ADDRESS
8	(8) UNKNOWN	4	PCCWAIA	ASSOCIATED AIA ADDRESS
12	(C) UNKNOWN	4	PCCWIORB	IORB ADDRESS
16	(10) UNKNOWN	8	PCCWCHHR	FULL SEEK ADDRESS MBBCHHR
16	(10) UNKNOWN	1	PCCWM	EXTENT NUMBER
17	(11) UNKNOWN	2	PCCWBB	BIN NUMBER
19	(13) UNKNOWN	2	PCCWCC	CYLINDER NUMBER
21	(15) UNKNOWN	2	PCCWHH	TRACK (HEAD) NUMBER
23	(17) UNKNOWN	1	PCCWR	RECORD NUMBER
24	(18) UNKNOWN	8	PCCWSEEK	SEEK CCH
24	(18) UNKNOWN	1	PCCWSK	SEEK OP CODE
25	(19) UNKNOWN	3	PCCWSKAD	SEEK CCH ADDRESS
28	(1C) UNKNOWN	2	PCCWSKFG	SEEK FLAGS
30	(1E) UNKNOWN	2	PCCWSKCT	SEEK COUNT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
32	(20) UNKNOWN	8	PCCWSSEC	SET SECTOR CCW
32	(20) UNKNOWN	1	PCCWSS	SET SECTOR OP CODE
33	(21) UNKNOWN	3	PCCWSSAD	SET SECTOR CCW ADDRESS
36	(24) UNKNOWN	2	PCCWSSFG	SET SECTOR FLAGS
38	(26) UNKNOWN	2	PCCWSSCT	SET SECTOR COUNT
40	(28) UNKNOWN	8	PCCWSRCH	SEARCH CCW
40	(28) UNKNOWN	1	PCCWSIDE	SEARCH ID EQUAL OP CODE
41	(29) UNKNOWN	3	PCCWSIAD	SEARCH ID EQUAL CCW ADDRESS
44	(2C) UNKNOWN	2	PCCWSIFG	SEARCH ID EQUAL FLAGS
46	(2E) UNKNOWN	2	PCCWSICT	SEARCH ID EQUAL COUNT
48	(30) UNKNOWN	8	PCCWTIC	TIC CCW
48	(30) UNKNOWN	1	PCCWT	TIC OP CODE
49	(31) UNKNOWN	3	PCCWTAD	TIC CCW ADDRESS
52	(34) UNKNOWN	2	PCCWTFG	TIC FLAGS
54	(36) UNKNOWN	2	PCCWTCT	TIC COUNT
56	(38) UNKNOWN	8	PCCHRW	READ/WRITE CCW
56	(38) UNKNOWN	1	PCCWRDWT	R/W OP CODE
57	(39) UNKNOWN	3	PCCWADDR	R/W CCW ADDRESS
60	(3C) UNKNOWN	2	PCCRWFG	R/W FLAGS
62	(3E) UNKNOWN	2	PCCWCNT	R/W COUNT
64	(40) UNKNOWN	8	PCCWNOP	NOP (OR TIC) CCW
64	(40) UNKNOWN	1	PCCWN	NOP OP CODE
65	(41) UNKNOWN	3	PCCWNAD	NOP CCW ADDRESS
68	(44) UNKNOWN	2	PCCWNFG	NOP FLAGS
70	(46) UNKNOWN	2	PCCWNCT	NOP COUNT
72	(48) UNKNOWN	0		

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 number of sector values for the device

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 for ASM slot sort.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	40	PCT	PERFORMANCE CHARACTERISTICS TABLE
0	(0) UNKNOWN	4	PCTID	'PCT ' IDENTIFIER
4	(4) UNKNOWN	6	PCTDTYPE	DEVICE TYPE (EBCDIC)
10	(A) UNKNOWN	2	PCTSMAX	DEVICE MAX SLOTS
12	(C) UNKNOWN	2	PCTDTPX	DEVICE TYPE
14	(E) UNKNOWN	2	PCTCYLSZ	SLOTS PER CYLINDER
16	(10) UNKNOWN	4	PCTNEXT	CHAIN PTR FOR QUEUE OF PCTS BASED IN PART.
20	(14) UNKNOWN	8	PCTDMASK	MASK TO PRESET NON-EXISTING SLOTS
28	(1C) UNKNOWN	2	PCTDPGWT	PAGING WEIGHT FOR THIS DEVICE TYPE
30	(1E) UNKNOWN	2	PCTSSECN	NUMBER OF UNIQUE SET SECTOR VALUES
32	(20) UNKNOWN	4	PCTRQTIM	MIN TIME TO READ OR WRITE ONE 4096-BYTE SLOT
36	(24) UNKNOWN	2	PCTMAXTK	MAXIMUM RELATIVE TRACK POSITION
38	(26) UNKNOWN	2	PCTMSSB	MINIMUM BYTE VARIANCE TO INSERT SET SECTOR

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
40	(28) UNKNOWN	0	PCTABLE	SECTOR VALUE TABLE

40	(28) UNKNOWN	0	PCTSECT	TABLE OF SECTOR VALUES FOR THIS DEVICE TYPE

40	(28) UNKNOWN	1	PCTSLTNM	RELATIVE SLOT NUMBER ON CYL
	1... ..		PCTFOVFL	1 = OVERFLOW TRACK
	.111 1111		PCTSLOT	SLOT NUMBER
41	(29) UNKNOWN	1	PCTSECNM	SECTOR VALUE CORRESPONDING TO SLOT NUMBER
42	(2A) UNKNOWN	2	PCTTRBA	REL BYTE ON TRACK

PFTE

Common Name: RSM Page Frame Table Entry

Macro ID: IHAPFTE

DSECT Name: PFTE

Created by: NIP initialization

Subpool and Key: NUCLEUS and Key 0

Size: 16 bytes

Pointed to by: PFTFQPTR field of the PFTE data area
PCBRBN field of the PCB data area
RSMLFQF field of the RSMHD data area
RSMLFQL field of the RSMHD data area
RSMLSQAL field of the RSMHD data area
PVTFPFN field of the PVT data area
PVTLPFN field of the PVT data area
PVTFVFT field of the PVT data area
PVTLVR field of the PVT data area
PVTAFFQF field of the PVT data area
PVTAFFQL field of the PVT data area
PVTRSRVF field of the PVT data area
PVTRSRVL field of the PVT data area
PVTCFQF field of the PVT data area
PVTCFQL field of the PVT data area
PVTSQAQF field of the PVT data area
PVTJUAQL field of the PVT data area
PVTRSBQF field of the PVT data area
PVTRSBQL field of the PVT data area

Serialization: SALLOC lock

Function: Description of each frame with status in system.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	PFTE	, PFTEPTR

0	(0) SIGNED	4	PFTPGID	AN IDENTIFIER OF THE VIRTUAL PAGE CURRENTLY OCCUPYING THIS FRAME. IF PFTIRRG IS 0, THIS FIELD IS SUBDIVIDED INTO PFTASID AND PFTVBN.

0	(0) HEX	2	PFTASID	THE ASID OF THE PAGE CURRENTLY OWNING THE FRAME
2	(2) HEX	2	PFTVBN	VIRTUAL BLOCK NUMBER (HIGH ORDER 12 BITS OF 24 BIT VIRTUAL ADDRESS, LEFT ADJUSTED AND PADDED WITH 4 LOW ORDER BINARY ZEROS) CURRENTLY OWNING THE REAL FRAME.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
4	(4) SIGNED	4	PFTQPTRS	WORD CONTAINING PFTFQPTR AND PFTBQPTR
4	(4) SIGNED	2	PFTFQPTR	FORWARD PAGE FRAME QUEUE POINTER THE PFTE INDEX OF THE NEXT ENTRY ON THIS PFQ
6	(6) SIGNED	2	PFTBQPTR	BACKWARD PAGE FRAME QUEUE POINTER THE PFTE INDEX OF THE PREVIOUS ENTRY ON THIS PFQ
8	(8) SIGNED	2	PFTFXCT	FIX COUNT OF THIS FRAME RESERVED
10	(A) HEX	2	PFTRSV1	
12	(C) CHARACTER	2	PFTFLAGS	TWO PFTE FLAGS
12	(C) BITSTRING	1	PFTFLAG1	FIRST FLAG FIELD
	1...		PFTONAVQ	BIT0 AVAILABLE FRAME QUEUE FLAG. WHEN 1, THIS PFTE IS ON AVAILABLE PFQ
	.1..		PFTVRINT	BIT1 WHEN 1, PFTE INTERCEPTED FOR V=R
	..1.		PFTLSQA	BIT2 SQA/LSQA FLAG, WHEN 1, PAGE FRAME CONTAINS AN LSQA OR SQA PAGE. IF PFTASID=X'FFFF' THE FRAME CONTAINS A SQA PAGE.
	...1		PFTLNGFX	BIT3 LONG FIX FLAG, WHEN 1, PAGE FRAME IS IN LONG FIX STATUS.
	.... 1...		PFTPCBSI	BIT4 PCB DEFINED FOR THIS PAGE FLAG, WHEN 1, A PCB EXISTS FOR THIS PAGE.
	.... .1..		PFTBADPG	BIT5 BAD PAGE FRAME FLAG, WHEN 1, THIS PAGE FRAME MAY NOT BE ALLOCATED.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... .1.			PFTVRALC	BIT6 V = R ALLOCATED FLAG, WHEN 1, PFTE HAS BEEN ALLOCATED FOR A V=R REGION
....1			PFTOFINT	BIT7 WHEN 1, FRAME IS INTERCEPTED TO GO OFFLINE
13 (D) BITSTRING		1	PFTFLAG2	SECOND FLAG FIELD
1...			PFTDFRLS	BIT0 DEFERRED RELEASE FLAG, WHEN 1, RELEASE HAS BEEN DEFERRED UNTIL THIS PAGE HAS BEEN FREED (PFTFXCT=0).
.1..			PFTOFFLN	BIT1 FRAME ONLINE/OFFLINE FLAG, WHEN 1, FRAME IS OFFLINE
..1.			PFTVR	BIT2 V=R CANDIDATE, WHEN 1, FRAME MAY BE ALLOCATED TO A V=R REGION
....1			PFTIRRG	BIT3 WHEN 1, INDICATES A VIO FRAME
.... 1...			PFTSTEAL	BIT4 WHEN 1, INDICATES THIS PFTE SELECTED FOR STEALING, BUT HAS NOT BEEN STOLEN YET.
.... .1..			PFTPREF	BIT5 WHEN 1, INDICATES PFTE IN THE PREFERRED AREA
14 (E) CHARACTER		1	PFTQNDX	PFT QUEUE INDEX
....			PFTAFQN	X'00' PFTE ON AVAILABLE QUEUE
.... .1..			PFTSRQN	X'04' PFTE ON SQA RESERVED QUEUE
.... 1...			PFTCFQN	X'08' PFTE ON COMMON FRAME QUEUE
.... 11..			PFTSQAN	X'0C' PFTE ON SQA FRAME QUEUE
....1			PFTRSBQN	X'10' PFTE ON REAL STORAGE BUFFER (RSB) FRAME QUEUE

PFTE

PFTE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
1... ..			PFTLFCN	X'80' PFTE ON LOCAL FRAME QUEUE
1... .1..			PFTLSQAN	X'84' PFTE ON LSQA FRAME QUEUE
1111 1111			PFTNQN	X'FF' PFTE NOT QUEUED
15	(F) SIGNED	1	PFTUIC	NUMBER OF STEAL INTERVALS DURING WHICH THIS FRAME WAS NOT REFERENCED

16	(10) CHARACTER	1	PFTEND	END OF PAGE FRAME TABLE ENTRY

PGTE

Common Name: RSM Page Table Entry

Macro ID: IHAPGTE

DSECT Name: PGTPT

Created by: IEAVCSEG, IEAVEQR, and IEAVITAS (RSM supervisor)

Subpool and Key: 245 or 255 and key 0

Size: 2 bytes

Pointed to by: PCBPGTA field of the PCB data area
SPCTPGT field of the SPCT data area

Serialization: SALLOC lock

Function: Describes validity and whereabouts of page in system.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	PGTPTE	, PTEPTR
0	(0) BITSTRING	2	PGTRSA	THE PAGE FRAME NUMBER (HIGH 12 BITS) IS CONCATENATED WITH 12 LOW ORDER BITS OF VIRTUAL ADDRESS TO FORM THE 24-BIT REAL ADDRESS CORRESPONDING TO ANY VIRTUAL ADDRESS.
0	(0) BITSTRING	1	PGTREAL	HIGH ORDER BYTE OF REAL ADDRESS
1	(1) BITSTRING	1	PGTBITS	LOW ORDER FOUR BITS OF REAL ADDRESS AND FLAG BITS
.... 1...			PGTPVM	X'08' PAGE VALIDITY FLAG, WHEN 1 = PAGE IS INVALID
.... ...1			PGTPAM	X'01' PAGE ASSIGNED FLAG, WHEN 1 = PAGE HAS BEEN ASSIGNED BY GETMAIN
2	(2) CHARACTER	1	PGTEND	END OF PAGE TABLE ENTRY

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 PSW. b) The user SPIE exit routine address. c) The interruption mask, which identifies the program check interruptions that the user SPIE exit routine will service.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	PICA	

0	(0) SIGNED	4	PICAEXIT	

0	(0) BITSTRING	1	PICAPRMK	PROGRAM MASK TO BE USED IN THE PSW BITS 0-3 ARE ZERO; BITS 4-7 CONTAIN MASK
1	(1) A-ADDRESS	3	PICEXITA	ADDRESS OF THE USER'S PROGRAM INTER- RUPTION EXIT RTN

4	(4) SIGNED	4	PICAITMK	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

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.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..	1	PICITMK3 PICACD17	X'40' PAGE TRANSLATION
7	(7) BITSTRING	1	PICITMK4	

PIE

Common Name: Program Interrupt Element

Macro ID: IHAPIE

DSECT Name: PIE

Created by: SPIE (IEAVTB00)

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.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	PIE	
	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	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 ADDRESS OF THE CURRENT PICA

1	(1) A-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

PQE

Common Name: VSM Partition Queue Element

Macro ID: IHAPQE

DSECT Name: PQESECT

Created by: NIP, IEAVGCAS or IEAVPRT0 (VSM supervisor)

Subpool and Key: 245 or 255 and key 0

Size: 32 bytes

Pointed to by: LDASRPQE field of the LDA data area
ASDPQE field of the LDA data area
CSAPQEP field of the GDA data area
VRPQEP field of the GDA data area
FNDPTR field of the FBQE (highest) data area
BCKPTR field of the FBQE (lowest) data area
PQEFFPQE field of the PQE data area (next PQE)
PQEBPQE field of the PQE data area (last PQE)
TCBPQE field of the TCB data area

Serialization: SALLOC lock for the SQA/CSA
LOCAL lock for the private area

Function: Description of space held by region.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	PQESECT	PARTITION QUEUE ELEMENT
0	(0) A-ADDRESS	4	PQEFFBQE	PTR TO FIRST FBQE OR IF NONE TO PQE
4	(4) A-ADDRESS	4	PQEBFBQE	PTR TO LAST FBQE OR IF NONE, TO PQE
8	(8) A-ADDRESS	4	PQEFFPQE	ADDR NEXT PQE OR ZERO
12	(C) A-ADDRESS	4	PQEBPQE	ADDR PREVIOUS PQE OR ZERO
16	(10) A-ADDRESS	4	PQETCB	ADDR TCB FOR JOB STEP TO WHICH SPACE BELONGS
20	(14) SIGNED	4	PQESIZE	SIZE OF REGION DESCRIBED BY THIS PQE
24	(18) A-ADDRESS	4	PQEREGN	ADDR FIRST BYTE OF REGION DESCRIBED BY THIS PQE
28	(1C) CHARACTER	1	PQERFLGS	FLAG BYTE
29	(1D) CHARACTER	1	PQEHRID	HIERARCHY IDENTIFIER
30	(1E) BITSTRING	1	VMFLGS	SEVEN HIGH ORDER BITS ZERO
	.... ...1		VVVRFLG	X'01' REAL OR VIRTUAL REGION FLAG
31	(1F) CHARACTER	1	PQERSVD	RESERVED

PSA

Common Name: Prefixed Save Area

Macro ID: IHAPSA

DSECT Name: PSA

Created by: SYSGEN

Subpool and Key: NUCLEUS resident and key 0

Size: 4096 bytes

Pointed to by: PCCAPSAV field of the PCCA data area

PCCAPSAR field of the PCCA data area

Serialization: Disablement

Function: Maps first 4K of storage.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	PSA	
0	(0) CHARACTER	8	FLCIPPSW	IPL PSW
0	(0) HEX	4	FLCRNPSW	RESTART NEW PSW (AFTER IPL)
4	(4) V-ADDRESS	4		V(IEAVRSTR) SECOND HALF OF RESTART NEW PSW
8	(8) CHARACTER	8	FLCICCW1	IPL CCW1
8	(8) HEX	8	FLCROPSW	RESTART OLD PSW (AFTER IPL)
16	(10) CHARACTER	8	FLCICCW2	IPL CCW2
16	(10) V-ADDRESS	4	FLCCVT	V(IEACVT) ADDRESS OF CVT (AFTER IPL)
20	(14) HEX	4		RESERVED (AFTER IPL)
24	(18) HEX	8	FLCEOPSW	EXTERNAL OLD PSW
32	(20) HEX	8	FLCSOPSW	SVC OLD PSW
40	(28) HEX	8	FLCPOPSW	PROGRAM CHECK OLD PSW
48	(30) HEX	8	FLCMOPSW	MACHINE CHECK OLD PSW
56	(38) HEX	8	FLCIOPSW	INPUT/OUTPUT OLD PSW
64	(40) HEX	8	FLCCSW	CHANNEL STATUS WORD
72	(48) HEX	4	FLCCAW	CHANNEL ADDRESS WORD

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
76	(4C) V-ADDRESS	4	FLCCVT2	V(IEACVT) ADDRESS OF CVT USED BY DUMP ROUTINES
80	(50) HEX	4	FLCTIMER	TIMER
84	(54) A-ADDRESS	4	FLCTRACE	ADDRESS OF TRACE TABLE HEADER
88	(58) HEX	4	FLCENPSW	EXTERNAL NEW PSW
92	(5C) V-ADDRESS	4		V(IEAQEX00) SECOND HALF OF EXTERNAL NEW PSW
96	(60) HEX	4	FLCSNPSW	SVC NEW PSW
100	(64) V-ADDRESS	4		V(IEAQSC00) SECOND HALF OF SVC NEW PSW
104	(68) HEX	4	FLCPNPSW	PROGRAM CHECK NEW PSW
108	(6C) V-ADDRESS	4		V(IEAQPK00) SECOND HALF OF PROGRAM CHECK NEW PSW
112	(70) HEX	4	FLCMNPSW	MACHINE CHECK NEW PSW
116	(74) V-ADDRESS	4		V(IGFPMCIH) SECOND HALF OF MACHINE CHECK NEW PSW
120	(78) HEX	4	FLCINPSW	INPUT/OUTPUT NEW PSW
124	(7C) V-ADDRESS	4		V(IEAQI000) SECOND HALF OF I/O NEW PSW
128	(80) HEX	4		RESERVED
132	(84) SIGNED	4	PSAEEPSW	EXTENDED PSW DATA STORED ON EXTERNAL INTERRUPT
132	(84) SIGNED	2	PSASPAD	ISSUING PROCESSOR'S PHYSICAL ADDRESS ON EMS OR EXTERNAL CALL INTERRUPT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
134	(86) SIGNED	2	FLCEICOD	EXTERNAL INTERRUPTION CODE
136	(88) SIGNED	4	PSAESPSW	EXTENDED PSW DATA STORED ON SVC INTERRUPT
136	(88) HEX	1		RESERVED SET TO ZERO
137	(89) SIGNED	1	FLCSVILC	SVC INSTRUCTION LENGTH COUNTER NUMBER OF BYTES
	.... .111		FLCSILCB	X'07' SIGNIFICANT BITS IN ILC FIELD LAST BIT IS ALWAYS ZERO
138	(8A) SIGNED	2	FLCSVCN	SVC INTERRUPTION CODE SVC NUMBER
140	(8C) CHARACTER	8	PSAEPPSW	EXTENDED PSW FOR PROGRAM INTERRUPT
140	(8C) HEX	1		RESERVED SET TO ZERO
141	(8D) SIGNED	1	FLCPIILC	PROGRAM INTERRUPT LENGTH COUNTER NUMBER OF BYTES IN INSTRUCTION CAUSING PROGRAM INTERRUPTION
	.... .111		FLCPILCB	X'07' SIGNIFICANT BITS IN ILC FIELD LAST BIT IS ALWAYS ZERO
142	(8E) SIGNED	2	FLCPICOD	PROGRAM INTERRUPTION CODE
142	(8E) HEX	1	PSARV049	RESERVED FOR IMPRECISE INTERRUPTS
143	(8F) SIGNED	1	PSAPICOD	8-BIT INTERRUPT CODE
	1... ..		PSAPIPER	X'80' PER INTERRUPT OCCURRED
	.1... ..		PSAPIMC	X'40' MONITOR CALL INTERRUPT OCCURRED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	..11 1111		PSAPIPC	X'3F' AN UNSOLICITED PROGRAM CHECK HAS OCCURRED IF ANY OF THESE 6 BITS ARE ON
144	(90) A-ADDRESS	4	FLCTEA	TRANSLATION EXCEPTION ADDRESS
144	(90) HEX	1		RESERVED SET TO ZERO
145	(91) A-ADDRESS	3	FLCTEAA	TRANSLATION EXCEPTION ADDRESS
148	(94) HEX	1		RESERVED SET TO ZERO
149	(95) HEX	1	FLCMNUM	MONITOR CLASS NUMBER
150	(96) HEX	1	FLCPCRD	PROGRAM EVENT RECORDING CODE
151	(97) HEX	1		RESERVED SET TO ZERO
152	(98) A-ADDRESS	4	FLCPCER	PER ADDRESS
152	(98) HEX	1		RESERVED SET TO ZERO
153	(99) A-ADDRESS	3	FLCPCERA	PER ADDRESS
156	(9C) HEX	1		RESERVED SET TO ZERO
157	(9D) HEX	3	FLCMTRCD	MONITOR CODE
160	(A0) HEX	8		RESERVED
168	(A8) HEX	344	FLCMCLA	MACHINE CHECK LOGOUT AREA
168	(A8) HEX	4	FLCCHNID	CHANNEL ID SET BY STIDC
168	(A8) HEX	2	FLCCHTM	CHANNEL TYPE (4 BITS) AND MODEL NUMBER (12 BITS)
170	(AA) SIGNED	2	FLCCHIL	I/O EXTENDED LOGOUT (IOEL) LENGTH
172	(AC) A-ADDRESS	4	FLCIOEL	SAME AS FLCIOELA BELOW
172	(AC) HEX	1		RESERVED
173	(AD) A-ADDRESS	3	FLCIOELA	I/O EXTENDED LOGOUT (IOEL) POINTER

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
176	(B0) HEX	4	FLCLCL	LIMITED CHANNEL LOGOUT (ECSW)
180	(B4) HEX	2		RESERVED
182	(B6) HEX	1		RESERVED
183	(B7) HEX	1		RESERVED
184	(B8) A-ADDRESS	4	FLCIOA	I/O ADDRESS
184	(B8) HEX	1		RESERVED
185	(B9) A-ADDRESS	3	FLCIOAA	I/O ADDRESS
188	(BC) HEX	44		RESERVED
232	(E8) HEX	8	FLCMCIC	MACHINE-CHECK INTERRUPTION CODE
240	(F0) HEX	4		RESERVED
244	(F4) HEX	1	PSAMEDC	EXTERNAL DAMAGE CODE
=====				
EQU	X'80' -		RESERVED	
	.1..		PSAMCOPR	X'40' CHANNEL CHANGED FROM NOT OPERATIONAL TO OPERATIONAL STATE
	..1.		PSAMEXSR	X'20' EXTERNAL SECONDARY REPORT
	...1		PSAMCNOP	X'10' CHANNEL ENTERED NOT OPERATIONAL STATE WITHOUT PERFORMING I/O SYSTEM RESET
	.... 1...		PSAMCCF	X'08' CHANNEL CONTROL FAILURE
	.... .1..		PSAMINST	X'04' I/O INSTRUCTION TIMEOUT
	.... ..1.		PSAMINTR	X'02' I/O INTERRUPTION TIMEOUT
	.... ...1		PSAMDISC	X'01' DISCONNECT CHANNEL SET (DISCS) INSTRUCTION CANNOT BE COMPLETED ZEROE5
245	(F5) HEX	3		

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
248	(F8) A-ADDRESS	4	FLCFSA	FAILING STORAGE ADDRESS
248	(F8) HEX	1		ZEROES
249	(F9) A-ADDRESS	3	FLCFSAA	FAILING STORAGE ADDRESS
252	(FC) HEX	4	FLCRGNCD	REGION CODE
256	(100) HEX	96	FLCFLA	FIXED LOGOUT AREA
352	(160) HEX	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) FLOATING	8	FLCHDEND	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)
518	(206) SIGNED	2	PSACPULA	LOGICAL CPU ADDRESS
520	(208) A-ADDRESS	4	PSAPCCA	VIRTUAL ADDRESS OF PCCA
524	(20C) A-ADDRESS	4	PSAPCCAR	REAL ADDRESS OF PCCA
528	(210) A-ADDRESS	4	PSALCCA	VIRTUAL ADDRESS OF LCCA
532	(214) A-ADDRESS	4	PSALCCAR	REAL ADDRESS OF LCCA
536	(218) A-ADDRESS	4	PSATNEW	TCB NEW POINTER
540	(21C) A-ADDRESS	4	PSATOLD	TCB OLD POINTER

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
544 (220)	A-ADDRESS	4	PSAANEW	ASCB NEW POINTER
548 (224)	A-ADDRESS	4	PSAAOLD	ASCB OLD POINTER
552 (228)	BITSTRING	4	PSASUPER	SUPERVISOR CONTROL WORD
552 (228)	HEX	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
	.... .1.1.		PSATCTL	X'02' TCTL RECOVERY FLAG
	.... ...1		PSATYPE6	X'01' TYPE 6 SVC IN CONTROL
553 (229)	HEX	1	PSASUP2	SECOND BYTE OF PSASUPER
	1... ..		PSAIPCRI	X'80' SIGP REMOTE IMMEDIATE
	.1..		PSAGTF	X'40' GTF GIVEN CONTROL FROM FLIH
	..1.		PSAIPCEC	X'20' EXTERNAL CALL SLIH IS ACTIVE
	...1		PSAIPCES	X'10' EMERGENCY SIGNAL SLIH IS ACTIVE
	.... 1...		PSAIPCE2	X'08' EMERGENCY SIGNAL (EMS) SLIH RECURSIVE ENTRY FLAG
	.... .1..		PSAACR	X'04' AUTOMATIC CPU RECONFIGURATION (ACR) IN CONTROL
	.... .1.		PSARTM	X'02' RECOVERY TERMINATION MONITOR (RTM) IN CONTROL
	.... ...1		PSALCR	X'01' LOW CORE REFRESH ROUTINE IS ACTIVE
554 (22A)	HEX	1	PSASUP3	THIRD BYTE OF PSASUPER

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
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
.1... ..			PSAPI2	X'40' PROGRAM CHECK FLIH RECURSION
..1... ..			PSAPSREG	X'20' PSA RECOVERY RECURSION
...1... ..			PSASPR	X'10' SUPER FRR IS ACTIVE
.... 1...			PSAESTA	X'08' ESTAE RECOVERY ROUTINE ACTIVE
.... .1..			PSARV012	X'04',,C'X' RESERVED
.... .1..			PSAULCMS	X'02' LOCK MANAGER UNCONDITIONAL LOCAL OR CMS LOCK ROUTINES
.... .1..			PSARV014	X'01',,C'X' RESERVED
555 (22B) HEX		1	PSASUP4	FOURTH BYTE OF PSASUPER
1... ..			PSARV015	X'80',,C'X' RESERVED
.1... ..			PSARV016	X'40',,C'X' RESERVED
..1... ..			PSARV017	X'20',,C'X' RESERVED
...1... ..			PSARV018	X'10',,C'X' RESERVED
.... 1...			PSARV019	X'08',,C'X' RESERVED
.... .1..			PSARV020	X'04',,C'X' RESERVED
.... .1..			PSARV021	X'02',,C'X' RESERVED
.... .1..			PSARV022	X'01',,C'X' RESERVED

556 (22C) SIGNED		4	PSAGPREG(3)	REGISTER SAVE AREA FOR I/O FLIH, SVC FLIH, EXTERNAL FLIH AND SYSTEM TRACE

568 (238) SIGNED		4	PSARSREG	RESTART FLIH REGISTER SAVE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
572 (23C)	SIGNED	4	PSAPIREG	PROGRAM CHECK FLIH REGISTER SAVE
576 (240)	FLOATING	8		ALIGN PSAEXPS1 TO DOUBLE WORD
576 (240)	HEX	8	PSAEXPS1	EXTERNAL FLIH PSW SAVE AREA 1
584 (248)	FLOATING	8		ALIGN PSAEXPS2 TO DOUBLE WORD
584 (248)	HEX	8	PSAEXPS2	EXTERNAL FLIH PSW SAVE AREA 2
592 (250)	FLOATING	8		ALIGN PSAMPSW TO DOUBLE WORD
592 (250)	HEX	8	PSAMPSW	SETLOCK MODEL PSW
600 (258)	FLOATING	8		ALIGN PSAMCHEX TO DOUBLE WORD
600 (258)	HEX	8	PSAMCHEX	MCH EXIT PSW
608 (260)	HEX	2	PSAIPCR	FIRST HALF OF IPC INSTRUCTION TO BE EXECUTED
610 (262)	Y-ADDRESS	2		SECOND HALF OF IPC INSTRUCTION
612 (264)	HEX	1	PSAIPCRM	BYTE USED BY ABOVE IPC INSTRUCTION RESERVED
613 (265)	HEX	3		
616 (268)	HEX	2	PSAIPCD	FIRST HALF OF IPC INSTRUCTION TO BE EXECUTED
618 (26A)	Y-ADDRESS	2		SECOND HALF OF IPC INSTRUCTION
620 (26C)	HEX	1	PSAIPCDM	BYTE USED BY ABOVE IPC INSTRUCTION RESERVED
621 (26D)	HEX	3		
624 (270)	SIGNED	4	PSAIPCSA	IPC REGISTER SAVE AREA
628 (274)	SIGNED	4	PSAHLHI	SAVE AREA FOR PSAHLHI

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
632 (278) HEX		1	PSARECUR	RESTART FLIH RECURSION INDICATOR. IF X'00', FLIH NOT IN CONTROL. IF X'FF', FLIH IN CONTROL, ENTRY IS RECURSIVE.
633 (279) HEX		1	PSADSSGO	INITIALIZE DSS FLAG, SET BY OPERATOR. IF X'00', DSS NOT TO BE ACTIVATED. IF NOT X'00', NEXT RESTART INTERRUPT FROM CONSOLE SHOULD INITIALIZE DSS.
634 (27A) SIGNED		2	PSARV050	RESERVED
636 (27C) A-ADDRESS		4	PSASRSA	REAL ADDRESS OF SAVE AREA USED DURING STOP AND RESTART SUBROUTINE
640 (280) CHARACTER		56	PSACLHT	CPU LOCKS HELD TABLE. INITIALIZED TO ZERO. IF LOCK IS HELD, WORD REPRESENTING LOCK HAS ITS ADDRESS.
640 (280) A-ADDRESS		4	PSADISPL	GLOBAL DISPATCHER LOCK
644 (284) A-ADDRESS		4	PSAASML	AUXILIARY STORAGE MANAGEMENT (ASM) LOCK
648 (288) A-ADDRESS		4	PSASALCL	SPACE ALLOCATION LOCK
652 (28C) A-ADDRESS		4	PSAIOSSL	IOS SYNCHRONIZATION LOCK
656 (290) A-ADDRESS		4	PSAIOSCL	IOS CHANNEL AVAILABLE TABLE LOCK

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
660 (294)	A-ADDRESS	4	PSAIOSUL	IOS UNIT CONTROL BLOCK LOCK
664 (298)	A-ADDRESS	4	PSAIOSLL	IOS LOGICAL CHANNEL QUEUE LOCK
668 (29C)	A-ADDRESS	4	PSATPNCL	TCAM'S TPNC P LOCK
672 (2A0)	A-ADDRESS	4	PSATPDNL	TCAM'S TPDNCB LOCK
676 (2A4)	A-ADDRESS	4	PSATPACL	TCAM'S TPACBDEB LOCK
680 (2A8)	A-ADDRESS	4	PSAOPTL	SRM LOCK
684 (2AC)	A-ADDRESS	4	PSACMSL	CROSS MEMORY SERVICES LOCK
688 (2B0)	A-ADDRESS	4	PSALOCAL	LOCAL LOCK
692 (2B4)	A-ADDRESS	4	PSARV023	RESERVED LOCK
696 (2B8)	CHARACTER	64	PSALKSA	SETLOCK REGISTER SAVE AREA
696 (2B8)	SIGNED	4	PSALKR0	SETLOCK'S CALLER'S REGISTER 0
700 (2BC)	SIGNED	4	PSALKR1	SETLOCK'S CALLER'S REGISTER 1
704 (2C0)	SIGNED	4	PSALKR2	SETLOCK'S CALLER'S REGISTER 2
708 (2C4)	SIGNED	4	PSALKR3	SETLOCK'S CALLER'S REGISTER 3
712 (2C8)	SIGNED	4	PSALKR4	SETLOCK'S CALLER'S REGISTER 4
716 (2CC)	SIGNED	4	PSALKR5	SETLOCK'S CALLER'S REGISTER 5
720 (2D0)	SIGNED	4	PSALKR6	SETLOCK'S CALLER'S REGISTER 6
724 (2D4)	SIGNED	4	PSALKR7	SETLOCK'S CALLER'S REGISTER 7

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
728 (2D8)	SIGNED	4	PSALKR8	SETLOCK'S CALLER'S REGISTER 8
732 (2DC)	SIGNED	4	PSALKR9	SETLOCK'S CALLER'S REGISTER 9
736 (2E0)	SIGNED	4	PSALKR10	SETLOCK'S CALLER'S REGISTER 10
740 (2E4)	SIGNED	4	PSALKR11	SETLOCK'S CALLER'S REGISTER 11
744 (2E8)	SIGNED	4	PSALKR12	SETLOCK'S CALLER'S REGISTER 12
748 (2EC)	SIGNED	4	PSALKR13	SETLOCK'S CALLER'S REGISTER 13
752 (2F0)	SIGNED	4	PSALKR14	SETLOCK'S CALLER'S REGISTER 14
756 (2F4)	SIGNED	4	PSALKR15	SETLOCK'S CALLER'S REGISTER 15
760 (2F8)	SIGNED	4	PSACLHS	CPU LOCKS HELD STRING
760 (2F8)	SIGNED	4	PSAHLHI	HIGHEST LOCK HELD INDICATOR
764 (2FC)	V-ADDRESS	4	PSALITA	V(IEAVELIT) ADDRESS OF LOCK INTERFACE TABLE
768 (300)	FLOATING	8		ALIGN PSAPSWV TO DOUBLE WORD
768 (300)	HEX	8	PSAPSWV	PSW SAVE AREA FOR DISPATCHER AND ACR
776 (308)	SIGNED	4	PSACR0	SAVE AREA FOR CONTROL REGISTER 0
780 (30C)	HEX	1	PSAMCHFL	MCH RECURSION FLAGS
781 (30D)	HEX	1	PSASYMSK	THIS FIELD WILL BE USED IN CONJUNCTION WITH THE STNSM INSTRUCTION TO PLACE IOS CHANNEL

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
782 (30E) HEX		1	PSAACTCD	SCHEDULER INTO A DISABLED STATE AND SIMULTANEOUSLY SAVE THE SYSTEM MASK OF THE CALLER 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.
783 (30F) HEX		1	PSAMCHIC	MCH INITIALIZATION COMPLETE FLAGS
784 (310) A-ADDRESS		4	PSAWKRAP	REAL ADDRESS OF VARY CPU PARAMETER LIST
788 (314) A-ADDRESS		4	PSAWKVAP	VIRTUAL ADDRESS OF VARY CPU PARAMETER LIST
792 (318) SIGNED		2	PSAVSTAP	WORK AREA FOR VARY CPU
794 (31A) SIGNED		2	PSACPUSA	PHYSICAL CPU ADDRESS (STATIC)
796 (31C) SIGNED		4	PSASTOR	MASTER MEMORY'S SEGMENT TABLE ORIGIN REGISTER (STOR) VALUE
800 (320) SIGNED		4	PSADSSRS	REGISTER SAVE FOR DSS PROGRAM AND SVC INTERRUPT HANDLERS
804 (324) SIGNED		4	PSADSSR2	REGISTER SAVE AREA FOR DSS I/O AND EXTERNAL INTERRUPT HANDLERS

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
808 (328)	SIGNED	4	PSADSSR3	REGISTER SAVE AREA FOR DSS ERROR RECOVERY ROUTINE
812 (32C)	SIGNED	4	PSADSSWK	WORK AREA FOR DSS INTERRUPT HANDLERS
816 (330)	SIGNED	4	PSADSSSTS(5)	REGISTER SAVE FOR DSS MODULES MAKING CALLS TO IQATSS
836 (344)	BITSTRING	4	PSADSSFL	DSS FLAG BYTES
836 (344)	HEX	1	PSADSSF1	DSS STATUS BYTE
1... ..			PSADSSMV	X'80' DSS MONITORING, VS2 RUNNING
.1... ..			PSADSSDM	X'40' DSS IN VS2-2 VM
..1.			PSADSSDD	X'20' DSS IN DSS VM
...1			PSADSSDW	X'10' DSS IN DSS WAIT
.... 1...			PSADSSTP	X'08' DSS PROCESSING SIGP
.... .1..			PSADSSSP	X'04' DSS SIGP PENDING
.... ..1.			PSADSSOI	X'02' DSS EXECUTING OVERLAID INSTRUCTION
.... ...1			PSADSSPI	X'01' DSS EXECUTING PRIVILEGED INSTRUCTION
837 (345)	HEX	1	PSADSSF2	SYSTEM STATUS BYTE
1111 1111			PSADSSPS	X'FF' SYSTEM RUNNING IN PROBLEM STATE
1111 111.			PSADSSSS	X'FE' SYSTEM RUNNING IN PRIVILEGED STATE
838 (346)	HEX	1	PSADSSF3	DSS FLAG BYTE
1... ..			PSADSSGP	X'80' DSS SIGP INDICATOR
.1... ..			PSADSSSES	X'40' ERROR SHORT SAVE INDICATOR
..1.			PSADSSNM	X'20' NON-MONITORABLE CODE INDICATOR
...1			PSADSSRW	X'10' DSS OWNS CVTRSTWD
.... 1...			PSADSSMC	X'08' MACHINE CHECK RUNNING

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... .1..			PSARV055	X'04',,C'X' RESERVED FOR DSS
.... ..1.			PSARV056	X'02',,C'X' RESERVED FOR DSS
.... ...1			PSARV057	X'01',,C'X' RESERVED FOR DSS
839 (347) HEX		1	PSADSSF4	DSS RECURSION FLAGS
1...			PSADSSRC	X'80' PROGRAM-SVC RECURSION FLAG
.1..			PSADSS12	X'40' PROGRAM INTERRUPT 12 RECURSION FLAG
..1.			PSADSSIE	X'20' I/O-EXTERNAL RECURSION FLAG
...1			PSADSSC0	X'10' CONTROL REGISTER 0 INVALID FLAG
.... 1...			PSADSSDE	X'08' DAT ERROR WHILE DSS RUNNING IN VS2 VM
.... .1..			PSADSSVE	X'04' DAT ERROR WHILE DSS RUNNING IN DSS VM
.... ..1.			PSADSS10	X'02' SEGMENT EXCEPTION RECURSION FLAG
.... ...1			PSADSS05	X'01' ADDRESSING EXCEPTION RECURSION FLAG

840 (348) FLOATING		8		ALIGN PSADSSRP TO DOUBLEWORD

840 (348) HEX		8	PSADSSRP	DSS TO VS2-2 RESUME PSW

848 (350) FLOATING		8		ALIGN PSADSSPP TO DOUBLEWORD

848 (350) HEX		8	PSADSSPP	DSS PSW FOR RETURNING CONTROL FROM PRIVILEGED INSTRUCTION STREAM TO VS2

856 (358) SIGNED		4	PSADSS14	DSS RESTART SECOND LEVEL INTERRUPT HANDLER CONTROL REGISTER 14 SAVE AREA

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
860	(35C) SIGNED	4	PSADSSFW	FULL-WORD DSS WORK AREA
864	(360) SIGNED	4	PSADSSPR	DSS REGISTER SAVE FOR PRIVILEGED INSTRUCTION STREAM
868	(364) SIGNED	4	PSARV025	RESERVED FOR DSS
872	(368) SIGNED	4	PSARV040	RESERVED FOR DSS
876	(36C) SIGNED	4	PSARV041	RESERVED FOR DSS
880	(370) SIGNED	4	PSARV042	RESERVED FOR DSS
884	(374) SIGNED	4	PSARV043	RESERVED FOR DSS
888	(378) SIGNED	4	PSARV044	RESERVED FOR DSS
892	(37C) SIGNED	4	PSARV045	RESERVED FOR DSS
896	(380) CHARACTER	64	PSARSVT	RECOVERY STACK VECTOR TABLE
896	(380) CHARACTER	64	PSARSVTE	RECOVERY STACK VECTOR TABLE
896	(380) A-ADDRESS	4	PSACSTK	ADDRESS OF CURRENTLY USED FUNCTIONAL RECOVERY ROUTINE (FRR) STACK
900	(384) A-ADDRESS	4	PSANSTK	ADDRESS OF NORMAL FRR STACK
904	(388) A-ADDRESS	4	PSASSTK	ADDRESS OF SVC-I/O-DISPATC HER FRR STACK
908	(38C) A-ADDRESS	4	PSASSAV	ADDRESS OF INTERRUPTED STACK SAVED BY SVC-I/O-DISPATC HER
912	(390) A-ADDRESS	4	PSAMSTK	ADDRESS OF MCH FRR STACK

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
916 (394)	A-ADDRESS	4	PSAMSAV	ADDRESS OF INTERRUPTED STACK SAVED BY MCH
920 (398)	A-ADDRESS	4	PSAPSTK	ADDRESS OF PROGRAM CHECK FLIH FRR STACK
924 (39C)	A-ADDRESS	4	PSAPSAV	ADDRESS OF INTERRUPTED STACK SAVED BY PROGRAM CHECK FLIH
928 (3A0)	A-ADDRESS	4	PSAESTK1	ADDRESS OF EXTERNAL FLIH FRR STACK FOR NON-RECURSIVE ENTRIES
932 (3A4)	A-ADDRESS	4	PSAESAV1	ADDRESS OF INTERRUPTED STACK SAVED BY NON-RECURSIVE ENTRIES
936 (3A8)	A-ADDRESS	4	PSAESTK2	ADDRESS OF EXTERNAL FLIH FRR STACK FOR FIRST LEVEL RECURSIONS
940 (3AC)	A-ADDRESS	4	PSAESAV2	ADDRESS OF INTERRUPTED STACK SAVE BY EXTERNAL FLIH FOR FIRST LEVEL RECURSIONS
944 (3B0)	A-ADDRESS	4	PSAESTK3	ADDRESS OF EXTERNAL FLIH FRR STACK FOR SECOND LEVEL RECURSIONS AND ACR
948 (3B4)	A-ADDRESS	4	PSAESAV3	ADDRESS OF INTERRUPTED STACK SAVED BY EXTERNAL FLIH (ACR) FOR SECOND LEVEL RECURSIONS
952 (3B8)	A-ADDRESS	4	PSARSTK	ADDRESS OF RESTART FLIH FRR STACK

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
956	(3BC) A-ADDRESS	4	PSARSAV	ADDRESS OF INTERRUPTED STACK SAVED BY RESTART FLIH
960	(3C0) FLOATING	8		ALIGN PSARPSW TO DOUBLE WORD
960	(3C0) HEX	8	PSARPSW	RESUME PSW FOR STOP AND RESTART SUBROUTINE
968	(3C8) FLOATING	8		ALIGN PSARSPSW TO DOUBLE WORD
968	(3C8) HEX	8	PSARSPSW	RESUME PSW FIELD FOR RESTART INTERRUPT HANDLER
976	(3D0) FLOATING	8		ALIGN PSASTART TO DOUBLE WORD
976	(3D0) BAL STMT	2	PSASTART	START FATHOM RECORDING
978	(3D2) HEX	14		REST OF PSASTART
992	(3E0) FLOATING	8		ALIGN PSASTOP TO DOUBLE WORD
992	(3E0) BAL STMT	2	PSASTOP	STOP FATHOM RECORDING
994	(3E2) HEX	14		REST OF PSASTOP
1008	(3F0) SIGNED	4		ALIGN PSASFACC TO FULL WORD
1008	(3F0) HEX	4	PSASFACC	SETFRR ABEND COMPLETION CODE USED WHEN A SETFRR ADD IS ISSUED AGAINST A FULL FRR STACK
1012	(3F4) HEX	4	PSALSFCC	A LOAD INSTRUCTION TO PRIME REGISTER 1 WITH THE SETFRR ABEND COMPLETION CODE IN PSASFACC
1016	(3F8) BAL STMT	2	PSASVC13	AN SVC 13 INSTRUCTION
1018	(3FA) SIGNED	2	PSARV059	RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
1020	(3FC) SIGNED	4	PSAPIR2	PROGRAM CHECK FLIH REGISTER SAVE
1024	(400) FLOATING	8		ALIGN PSAPCP SW TO DOUBLE WORD
1024	(400) HEX	8	PSAPCP SW	TEMPORARY OLD PSW STORAGE FOR PROGRAM FLIH
1032	(408) A-ADDRESS	4	PSAATCVT	ADDRESS OF VTAM ATCVT. INITIALIZED BY VTAM.
1036	(40C) A-ADDRESS	4	PSAWTCOD	CALLER-SUPPLIED WAIT STATE INFORMATION FOR STOP/RESTART
1040	(410) A-ADDRESS	4	PSACDAL	ADDRESS OF COMMON DISPATCHER ELEMENT FOR THIS CPU
1044	(414) SIGNED	4	PSARV062	RESERVED
1048	(418) FLOATING	8	PSAUSEND	END OF ASSIGNED FIELDS
1048	(418) HEX	1	(***)	RESERVED
3072	(C00) FLOATING	8		ALIGN PSASTAK TO DOUBLE WORD
3072	(C00) HEX	1	PSASTAK(596)	NORMAL FRR STACK
3668	(E54) HEX	1	(428)	RESERVED FOR EXPANSION OF PSASTAK

CROSS REFERENCE

FLCCAW	72 (48)	PSACPULA	518(206)
FLCCHIL	170 (AA)	PSACFUPA	516(204)
FLCCHID	168 (A8)	PSACFUSA	794(31A)
FLCCHTH	168 (A8)	PSACRO	776(308)
FLCCRSVAV	448(1C0)	PSACSTK	896(388)
FLCCSN	64 (40)	PSADISP	552 X'04'
FLCCVT	16 (10)	PSADISPL	640(280)
FLCCVT2	76 (4C)	PSADSSCO	839 X'10'
FLCEICOD	134 (86)	PSADSSGD	836 X'20'
FLCENFSW	88 (58)	PSADSSDE	839 X'08'
FLCEOPSW	24 (18)	PSADSSDM	855 X'40'
FLCFLA	256(100)	PSADSSDW	335 X'10'
FLCFFSAV	352(160)	PSADSSES	838 X'40'
FLCFSA	248 (F8)	PSADSSFL	836(344)
FLCFSAA	249 (F9)	PSADSSFW	860(35C)
FLCGRSAV	384(180)	PSADSSF1	836(344)
FLCHDEND	512(200)	PSADSSF2	837(345)
FLCICCHI	8 (8)	PSADSSF3	838(346)
FLCICCH2	16 (10)	PSADSSF4	839(347)
FLCINPSW	120 (78)	PSADSSGO	633(279)
FLCIOA	184 (B8)	PSADSSGP	838 X'80'
FLCIOAA	185 (B9)	PSADSSIE	839 X'20'
FLCIOEL	172 (AC)	PSADSSHC	838 X'08'
FLCIOELA	173 (AD)	PSADSSHV	836 X'80'
FLCIOPSW	56 (38)	PSADSSHM	838 X'20'
FLCIPPSW	0 (0)	PSADSSOI	835 X'02'
FLCLCL	176 (B0)	PSADSSPI	836 X'01'
FLCHCIC	232 (E8)	PSADSSFP	848(350)
FLCHCLA	168 (A8)	PSADSSFR	864(360)
FLCNCKUM	149 (95)	PSADSSPS	837 X'FF'
FLCMNPSW	112 (70)	PSADSSRC	839 X'80'
FLCMOPSW	48 (30)	PSADSSRP	840(348)
FLCHTRCD	157 (9D)	PSADSSRS	800(320)
FLCFER	152 (93)	PSADSSRW	838 X'10'
FLCFERA	153 (99)	PSADSSR2	804(324)
FLCFERCD	150 (95)	PSADSSR3	800(328)
FLCPICCD	142 (8E)	PSADSSSP	836 X'04'
FLCPIILC	141 (8D)	PSADSSSS	837 X'FE'
FLCPIILCB	141 X'07'	PSADSSSTP	835 X'08'
FLCPNPSW	104 (68)	PSADSSST	816(330)
FLCPOPNSW	40 (28)	PSADSSVE	839 X'04'
FLCRGICD	252 (FC)	PSADSSWK	812(32C)
FLCRNPSW	0 (0)	PSADSSX5	839 X'01'
FLCROPNSW	8 (8)	PSADSS10	839 X'02'
FLCSILCB	137 X'07'	PSADSS12	839 X'40'
FLCSNPSW	96 (60)	PSADSS14	856(358)
FLCSOPNSW	32 (20)	PSAEPPSW	132 (84)
FLCSVCH	133 (8A)	PSAEPPSW	140 (8C)
FLCSVILC	137 (89)	PSAESAV1	932(3A4)
FLCTEA	144 (90)	PSAESAV2	940(3AC)
FLCTEAA	145 (91)	PSAESAV3	940(3B4)
FLCTIMER	80 (50)	PSAEGPSW	136 (88)
FLCTRACE	84 (54)	PSAESTA	554 X'08'
PSA	0 (0)	PSAESTK1	928(3A0)
PSAACR	553 X'04'	PSAESTK2	936(3A8)
PSAACTCD	782(30E)	PSAESTK3	944(3B0)
PSAANEW	544(220)	PSAEXPS1	575(240)
PSAALD	548(224)	PSAEXPS2	584(248)
PSAASHL	644(284)	PSAEXT	552 X'20'
PSAATCVT	1032(408)	PSAGFREG	556(22C)
PSACDAL	1040(410)	PSAGTF	553 X'40'
PSACLSH	760(2F8)	PSAHLHI	760(2F8)
PSACLHT	640(280)	PSAHLHIS	628(274)
PSACMSL	684(2AC)	PSAIO	552 X'80'

CROSS REFERENCE

PSAIOSCL	656(290)	PSAPI2	554 X'40'
PSAIOSLL	664(293)	PSAPSA	512(200)
PSAIOSSL	652(28C)	PSAFSAV	924(39C)
PSAICSUL	660(294)	PSAFSREG	554 X'20'
PSAIOSUP	554 X'80'	PSAFSTK	920(398)
PSAIFCD	616(268)	PSAFSHSV	768(300)
PSAIFCDM	620(26C)	PSARECUR	632(278)
PSAIFCEC	553 X'20'	PSARSAV	956(38C)
PSAIFCES	553 X'10'	PSARSPSW	968(388)
PSAIFCE2	553 X'03'	PSARSPREG	568(238)
PSAIFCR	608(260)	PSARSTK	952(388)
PSAIPCRI	553 X'80'	PSARSVT	896(380)
PSAIPCRM	612(264)	PSARSVTE	896(380)
PSAIFCSA	624(270)	PSARTM	553 X'02'
PSALCCAR	532(214)	PSARV012	554 X'04'
PSALCCAV	528(210)	PSARV014	554 X'01'
PSALCR	553 X'01'	PSARV015	555 X'80'
PSALITA	764(2FC)	PSARV016	555 X'40'
PSALKR0	696(288)	PSARV017	555 X'20'
PSALKR1	700(28C)	PSARV018	555 X'10'
PSALKR10	736(2E0)	PSARV019	555 X'08'
PSALKR11	740(2E4)	PSARV020	555 X'04'
PSALKR12	744(2E8)	PSARV021	555 X'02'
PSALKR13	748(2EC)	PSARV022	555 X'01'
PSALKR14	752(2F0)	PSARV023	692(2B4)
PSALKR15	756(2F4)	PSARV025	868(364)
PSALKR2	704(2C0)	PSARV040	872(368)
PSALKR3	708(2C4)	PSARV041	876(36C)
PSALKR4	712(2C8)	PSARV042	880(370)
PSALKR5	716(2CC)	PSARV043	884(374)
PSALKR6	720(2D0)	PSARV044	888(378)
PSALKR7	724(2D4)	PSARV045	892(37C)
PSALKR8	728(2D8)	PSARV049	142 (8E)
PSALKR9	732(2DC)	PSARV050	634(27A)
PSALKSA	696(288)	PSARV055	838 X'04'
PSALOCAL	688(280)	PSARV056	838 X'02'
PSALOCK	552 X'08'	PSARV057	838 X'01'
PSALS FCC	1012(3F4)	PSARV059	1018(3FA)
PSAMCCF	244 X'08'	PSARV062	1044(414)
PSAMCHEX	600(258)	PSASALCL	648(288)
PSAMCHFL	780(30C)	PSASFACC	1008(3F0)
PSAMCHIC	784(30F)	PSASPAD	132 (84)
PSAMCHOP	244 X'10'	PSASPR	554 X'10'
PSAMCOFR	244 X'40'	PSASRPSW	960(3C0)
PSAMDISC	244 X'01'	PSASRSA	636(27C)
PSAMEDC	244 (F4)	PSASSAV	908(38C)
PSAMEXSR	244 X'20'	PSASSTK	904(388)
PSAMINST	244 X'04'	PSASTAK	3072(C00)
PSAMINTR	244 X'02'	PSASTART	976(3D0)
PSAMPSW	592(250)	PSASTOP	992(3E0)
PSANSAV	916(394)	PSASTOR	796(31C)
PSANSTK	912(390)	PSASUPER	552(228)
PSANSTK	900(384)	PSASUP1	552(228)
PSAOPTL	680(2A8)	PSASUP2	553(229)
PSAFCCAR	524(20C)	PSASUP3	554(22A)
PSAFCCAV	520(208)	PSASUP4	555(22B)
PSAPCPSW	1024(400)	PSASVC	552 X'40'
PSAPI	552 X'10'	PSASVC13	1016(3F8)
PSAPICOD	143 (8F)	PSASYMSK	781(30D)
PSAPIHC	143 X'40'	PSATCTL	552 X'02'
PSAPIFC	143 X'3F'	PSATHEW	536(218)
PSAPIPER	143 X'80'	PSATOLD	540(21C)
PSAPIREG	572(23C)	PSATPACL	676(2A4)
PSAPIR2	1020(3FC)	PSATPDNL	672(2A0)

CROSS REFERENCE

PSATPNCL	668(29C)
PSATYPE6	552 X'01'
PSAULCHS	554 X'02'
PSAUSEND	1048(418)
PSAVSTAP	792(318)
PSAKKRAP	784(310)
PSAKKVAP	788(314)
PSAWTCOD	1036(40C)

PSCB

Common Name: TSO Protected Step Control Block

Macro ID: IKJPSCB

DSECT Name: PSCB

Created by: IKJEFLA

Subpool and Key: 252 and key 8

Size: 72 bytes

Pointed to by: LWA and JSCB

Function: Contains information from UADS, control bits and accounting data for the userid.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	PSCB	

0	(0) SIGNED	4		

0	(0) CHARACTER	7	PSCBUSER	USERID PADDED RIGHT WITH BLANKS
7	(7) CHARACTER	1	PSCBUSRL	LENGTH OF USERID

8	(8) CHARACTER	8	PSCBGPNM	ESOTERIC GROUP NAME INIT BY LOGON FROM UADS USED BY DYN ALLOC WHEN UNITNAME NOT SPECIFIED BUT IS REQUIRED

16	(10) HEX	1	PSCBATR1	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		PSCBVMNT	X'10' CNTL VOL MOUNT AUTH
	.... 1...		PSCBATTN	X'08' LINE DELETE CHAR IS ATTENTION

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
BITS 5 - 15 RESERVED FOR IBM USE				
17	(11) HEX	1		RESERVED
18	(12) HEX	1	PSCBATR2	A 15 BIT STRING RESERVED FOR INSTALLATION USE
19	(13) HEX	1		
20	(14) SIGNED	4	PSCBLTIM	DOUBLEWORD FOR LOGON TIME
24	(18) SIGNED	4	PSCBLTI2	IN STORE CLOCK UNITS
28	(1C) SIGNED	4	(3)	RESERVED
40	(28) CHARACTER	8	PSCBDEST	DEST FOR SYSOUT DATA SETS
48	(30) A-ADDRESS	4	PSCBRLGB	PTR TO RELOGON BUFFER
52	(34) A-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
59	(3B) CHARACTER	1	PSCBLINE	USER'S LINE DELETE CHARACTER
60	(3C) A-ADDRESS	4	PSCBRSZ	REGION SIZE REQUESTED IN 2K UNITS
64	(40) CHARACTER	8	PSCBU	RESERVED FOR INSTALLATION USE
=====				

PVT

Common Name: RSM Paging Vector Table

Macro ID: IHAPVT

DSECT Name: PVT

Created by: NIP initialization

Subpool and Key: NUCLEUS and Key 0

Size: 1944 bytes

Pointed to by: CVTPVTP field of the CVT data area

Serialization: SALLOC lock

Function: Contains a collection of address vectors, constants, queue anchors and counters that are common in all real storage manager modules.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	PVT	, PVTPTR
0	(0) BITSTRING 1... ..	1	PVTFLAG1 PVTMSG	FLAG BYTE BIT0 WHEN 1, PREFERRED AREA EXPANSION MESSAGE HAS ALREADY BEEN ISSUED
.1.. ..			PVTBGMS	BIT1 WHEN =1, GETMAIN CANNOT BE CALLED
..1.			PVTSRBIU	BIT2 WHEN 1, PVTSRBI IS IN USE.
...1			PVTPCBLT	BIT3 WHEN ON, THE INITIAL PCB POOL HAS BEEN BUILT AS PART OF SYSTEM INITIALIZATION.
.... 1...			PVTAPREF	BIT4 WHEN ON, ALL LSQA AND FIXED PAGES SHOULD GO TO THE PREFERRED AREA.
.... .1..			PVTLSI	BIT5 AFC LOW SYSEVENT ISSUED FLAG. WHEN 1, THE AFC LOW SYSEVENT HAS BEEN ISSUED.
.... ...1.			PVTSIT	BIT6 SUSPEND IN TROUBLE, WHEN ON NEED ANOTHER SSRB. WHEN OFF PVTSSRB HAS ADDR OF EXTRA

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... ...1			PVTDUMP	BIT7 WHEN 1, THE RSM RECOVERY ROUTINE WILL DUMP THE PVT, PFT, SQA, AND CURRENT LSQA ON COD ABENDS. SET/RESET MANUALLY.
1	(1) BITSTRING 1...	1	PVTFLAG2 PVTRSHGM	FLAG BYTE 2 BIT0 WHEN ON, RSM GETHAIN

=====

THE RFA ROUTINES AND PFTE ENCODER WORK TOGETHER IN MAINTAINING THE NEXT THREE COUNTS, THEIR RELATED SRM SYSEVENTS, AND CONTROLLING FLAGS LISTED ABOVE.

2	(2) SIGNED	2	PVTAFC	AVAILABLE FRAME COUNT
4	(4) SIGNED	2	PVTAFCLO	AVAILABLE FRAME COUNT LOW THRESHOLD. SRM IS NOTIFIED WHEN PVTAFC IS TOO LOW.
6	(6) SIGNED	2	PVTAFCOK	THRESHOLD AT WHICH THE SRM IS NOTIFIED THAT PVTAFC IS AT A SATISFACTORY LEVEL
8	(8) SIGNED	2	PVTPPOOL	THE TOTAL NUMBER OF REAL STORAGE FRAMES CURRENTLY AVAILABLE FOR REAL STORAGE MANAGEMENT USE. THIS COUNT EXCLUDES FRAMES OCCUPIED BY THE NUCLEUS AND FRAMES MARKED AS BAD OR OFFLINE
10	(A) A-ADDRESS	1	PVTPCBS	NUMBER OF PCBs TO BE CREATED AT SYSTEM INITIALIZATION.
11	(B) HEX	1	PVTSSPIN	SLAVE SPIN BYTE USED BY PAGE INVALIDATION ROUTINE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
12	(C) A-ADDRESS	4	PVTPFTP	APPARENT ORIGIN OF PAGE FRAME TABLE (VM ADDR)
16	(10) A-ADDRESS	2	PVTFPFN	PFTE INDEX (RBN) TO FIRST PFTE IN PFT. RBN IS HIGH ORDER 12 BITS OF A 24 BIT REAL ADDRESS, RBN IS LEFT JUSTIFIED IN HALF WORD, 4 LOW ORDER BITS ARE ZERO
18	(12) A-ADDRESS	2	PVTLPFN	PFTE INDEX (RBN) TO LAST PFTE IN PFT. HIGHEST ADDRESS FRAME KNOWN TO RSM
20	(14) A-ADDRESS	2	PVTFVR	PFTE INDEX (RBN) OF FIRST PFTE FOR V=R AREA, RBN OF LOWEST ADDRESS FRAME OF V=R AREA
22	(16) A-ADDRESS	2	PVTLVR	PFTE INDEX (RBN) OF LAST PFTE FOR V=R AREA, RBN OF HIGHEST ADDRESS FRAME OF V=R AREA
24	(18) A-ADDRESS	2	PVTLPRIV	VIRTUAL STORAGE INDEX (VBN) TO THE FIRST PAGE OF THE USER PRIVATE AREA. VBN IS THE HIGH ORDER 12 BITS OF A 24 BIT VIRTUAL ADDRESS
26	(1A) A-ADDRESS	2	PVTLCSA	VBN TO THE FIRST PAGE OF CSA, SAME AS LOWEST ADDRESS PAGE ABOVE THE USER PRIVATE AREA
28	(1C) SIGNED	1	PVTSQDC	SQA RESERVE QUEUE PREFERRED FRAME DEFICIT COUNT. THE NUMBER OF

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				PREFERRED FRAMES NEEDED TO RESTORE THE SQA RESERVE QUEUE TO THE NUMBER OF FRAMES SPECIFIED IN THE PVT
29	(1D) SIGNED	1	PVTSRBNO	NUMBER OF SRBS TO BE OBTAINED IF REPLENISHMENT IS NECESSARY.
30	(1E) SIGNED	1	PVTPCBNO	NUMBER OF PCB'S TO BE OBTAINED IF REPLENISHMENT IS NECESSARY
31	(1F) HEX	1	PVTPTLB	COMMUNICATION BYTE USED BY PAGE INVALIDATION ON MULTIPLE PROCESSORS

32	(20) SIGNED	2	PVTRSQA	THE NUMBER OF TIMES AN SQA RESERVED FRAME WAS USED FOR SQA ALLOCATION.
34	(22) SIGNED	2	PVTDFRS	THE COUNT OF THE NUMBER OF TIMES A FRAME ALLOCATION REQUEST WAS DEFERRED.

36	(24) SIGNED	2	PVTPCBCT	COUNT OF THE NUMBER OF PCB'S CURRENTLY ON THE FREE QUEUE
38	(26) SIGNED	2	PVTPCBLO	LOW THRESHOLD OF PCB FREE QUEUE. WHEN THE PCB COUNT GOES BELOW THIS THRESHOLD, THE PCB POOL MUST BE EXTENDED.

40	(28) A-ADDRESS	4	PVTVROOT	VSA OF FIRST ROOT PCB ON V-R REGION WAIT QUEUE

44	(2C) A-ADDRESS	2	PVTRSUS	RECONFIGURABLE STORAGE UNIT SIZE IN FRAMES

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
46	(2E) SIGNED	1	PVTSQVRC	THE NUMBER OF SQA RESERVE QUEUE FRAMES WHICH ARE V=R.
47	(2F) SIGNED	1	PVTSQNPC	THE NUMBER OF SQA RESERVE QUEUE FRAMES WHICH ARE NON-PREFERRED

48	(30) A-ADDRESS	4	PVTRBUS	ADDRESS OF REUSABLE RECLAIM OR FIRST REFERENCE PCB

52	(34) A-ADDRESS	4	PVTPRCA	ADDRESS OF CURRENT RECOVERY COMM AREA

56	(38) A-ADDRESS	4	PVTRROOT	VSA OF THE FIRST VARY OFFLINE ROOT PCB

60	(3C) A-ADDRESS	2	PVTLQSA	VBN OF LOWEST ADDRESSED PAGE OF THE VIRTUAL AREA TO BE PRESERVED FOR QUICKSTARTS.
62	(3E) A-ADDRESS	2	PVTHQSA	VBN OF NEXT HIGHEST PAGE ABOVE THE VIRTUAL AREA TO BE PRESERVED FOR QUICKSTARTS.

64	(40) A-ADDRESS	4	PVTPCIWA	ADDRESS OF FETCH PROTECTED WORKAREA FOR PAGE SERVICES ROUTINES

68	(44) SIGNED	4	PVTSRBID	ID OF CELL POOL FOR RSM SRBS

68	(44) CHARACTER	3		
71	(47) HEX	1		

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
V-CONS FOR MAJOR RSM ENTRY POINTS				
72	(48) V-ADDRESS	4	PVTPSIB	V(IEAVPSIB) EXTERNAL PSI BRANCH ENTRY
76	(4C) V-ADDRESS	4	PVTPSINT	V(IEAVPSII) INTERNAL PSI BRANCH ENTRY
80	(50) V-ADDRESS	4	PVTPSQA	V(IEAVSQA2) SQA, LSQA ALLOCATION
84	(54) V-ADDRESS	4	PVTPGFA	V(IEAVGFA2) GENERAL FRAME ALLOCATION
88	(58) V-ADDRESS	4	PVTPGFAD	V(IEAVGFD2) GFA DEFER PROCESSOR
92	(5C) V-ADDRESS	4	PVTPIOP	V(IEAVPIO2) PAGE I/O POST
96	(60) V-ADDRESS	4	PVTPIOCP	V(IEAVIOC2) I/O COMPLETION PROCESSOR SRB ENTRY
100	(64) V-ADDRESS	4	PVTREP2	V(IEAVREP2) SRB REPLENICH ROUTINE
104	(68) V-ADDRESS	4	PVTPCB	V(IEAVPCB2) PCB MANAGER
108	(6C) V-ADDRESS	4	PVTPFTE	V(IEAVPFT2) PFTE ENQ/DEQ
112	(70) V-ADDRESS	4	PVTPFP	V(IEAVFP1) FIND PAGE LOCAL LOCK HOLDER E.P.
116	(74) V-ADDRESS	4	PVTPFP2	V(IEAVFP2) FIND PAGE RSM ENTRY POINT
120	(78) V-ADDRESS	4	PVTPRFR	V(IEAVRFR2) REAL FR/ME REPLACEMENT SELECT RTN
124	(7C) V-ADDRESS	4	PVTPVRPO	V(IEAVEGRP) V=R FORCE PAGE OUT
=====				

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
128	(80) V-ADDRESS	4	PVTPPIOI	V(IEAVPIOI) PAGE I/O INITIATOR
132	(84) V-ADDRESS	4	PVTPVEQR	V(IEAVEQR2) V=R ALLOCATION
136	(88) V-ADDRESS	4	PVTPVRLS	V(IEAVEQRF) V=R RELEASE
140	(8C) V-ADDRESS	4	PVTPVRIN	V(IEAVEQRI) V=R INTERCEPT
144	(90) V-ADDRESS	4	PVTPVRC	V(IEAVEQRC) V=R COMPLETION
148	(94) V-ADDRESS	4	PVTPRCF	V(IEAVRCF2) STORAGE RECONFIGURATION INTERFACE
152	(98) V-ADDRESS	4	PVTPRCFI	V(IEAVRCFI) RECONFIGURATION INTERCEPT ROUTINE
156	(9C) V-ADDRESS	4	PVTPRCV	V(IEAVRCV2) FUNCTIONAL RECOVERY ROUTINE
160	(A0) V-ADDRESS	4	PVTPSWIN	V(IEAVSWI2) SWAP IN
164	(A4) V-ADDRESS	4	PVTPSOUT	V(IEAVSOU2) SWAP OUT
168	(A8) V-ADDRESS	4	PVTPSWPC	V(IEAVSWPC) SWAP OUT COMPLETION
172	(AC) V-ADDRESS	4	PVTPINV	V(IEAVINV2) PAGE INVALIDATION
176	(B0) V-ADDRESS	4	PVTPCSEG	V(IEAVCSE2) CREATE SEGMENT EXTERNAL BRANCH ENTRY
180	(B4) V-ADDRESS	4	PVTPCSGB	V(IEAVCSGB) CREATE SEGMENT INTERNAL BRANCH ENTRY
184	(B8) V-ADDRESS	4	PVTPDSEG	V(IEAVDSE2) DESTROY SEGMENT
188	(BC) V-ADDRESS	4	PVTPSRBP	V(IEAVSRBP) SRB PURGE ROUTINE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
192	(C0) V-ADDRESS	4	PVTPITAS	V(IEAVITA2) INITIALIZE ADDRESS SPACE
196	(C4) V-ADDRESS	4	PVTPFXLD	V(IEAVFXL2) PGFIX AND PGLOAD PROCESSOR
200	(C8) V-ADDRESS	4	PVTPOUT	V(IEAVOUT2) PGOUT PROCESSOR
204	(CC) V-ADDRESS	4	PVTPRELS	V(IEAVREL2) PGRlse PROCESSOR
208	(D0) V-ADDRESS	4	PVTPFREE	V(IEAVFRE2) PGFREE PROCESSOR
212	(D4) V-ADDRESS	4	PVTPRELV	V(IEAVRELV) FREEMAIN-RELEAS E ENTRY POINT
216	(D8) V-ADDRESS	4	PVTPRELF	V(IEAVRELF) DEFERRED RELEASE ENTRY POINT
220	(DC) V-ADDRESS	4	PVTPOPBR	V(IEAVOFBR) SCHEDULE SUBROUTINE OF PIOP
224	(E0) V-ADDRESS	4	PVTPPREF	V(IEAVPRE2) PREFERRED AREA STEAL ROUTINE
228	(E4) V-ADDRESS	4	PVTPSWPP	V(IEAVSWPP) SWAP-IN POST ROUTINE IN MODULE IEAVSWIN
232	(E8) V-ADDRESS	4	PVTSWPIO	V(ILRSWAP) ASM'S SWAP INTERFACE
236	(EC) V-ADDRESS	4	PVTPAGIO	V(ILRPAGIO) ASM'S PAGING I/O INTERFACE
240	(F0) V-ADDRESS	4	PVTFRSLT	V(ILRFRSLT) ASM'S FREE SLOT ROUTINE
244	(F4) V-ADDRESS	4	PVTPRSET	V(IEAVRSET) PCFLIH'S RESET ROUTINE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
EVENT COUNTERS FOR SMF AND TUNING PURPOSES				
ALL FIELDS EXCEPT PVTFCFNCT ARE WRAP-AROUND COUNTS.				
248	(F8) SIGNED	4	PVTNPIN	NUMBER OF PAGES PAGED IN, EXCLUDING SWAP-INS AND VIO PAGE-INS
252	(FC) SIGNED	4	PVTNPOUT	NUMBER OF PAGES PAGED OUT, EXCLUDING SWAP-OUTS AND VIO PAGE-INS
256	(100) SIGNED	4	PVTVAMI	NUMBER OF VIO PAGE-INS, EXCLUDING SWAP
260	(104) SIGNED	4	PVTVAMO	NUMBER OF VIO PAGE-OUTS, EXCLUDING SWAP
264	(108) SIGNED	4	PVTVAMR	NUMBER OF VIO RECLAIMS
268	(10C) SIGNED	4	PVTSPIN	NUMBER OF PAGES SWAPPED IN
272	(110) SIGNED	4	PVTSPOUT	NUMBER OF PAGES SWAPPED OUT
276	(114) SIGNED	4	PVTNPREC	NUMBER OF PAGES RECLAIMED, EXCLUDING SWAP RECLAIMS
280	(118) SIGNED	4	PVTNSWPS	NUMBER OF SUCCESSFUL SWAP-INS
284	(11C) SIGNED	4	PVTCAIN	NUMBER OF COMMON AREA PAGE-INS
288	(120) SIGNED	4	PVTCAOUT	NUMBER OF COMMON AREA PAGE-OUTS
292	(124) SIGNED	4	PVTCAREC	NUMBER OF RECLAIMS OF COMMON AREA PAGES

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
296	(128) SIGNED	4	PVTSPREC	NUMBER OF PRIVATE AREA PAGEABLE PAGES RECLAIMED ACROSS A SWAP
300	(12C) SIGNED	2	PVTCFNCT	NUMBER OF FRAMES CURRENTLY ASSIGNED TO PAGEABLE COMMON AREAS (CSA AND LPA)
302	(12E) SIGNED	2	PVTSPFR	NUMBER OF FRAMES FREED BY SWAP-OUT WITHOUT OUTPUT I/O.
=====				
<p>THIS SECTION OF THE PVT CONTAINS ANCHORS FOR PFTE QUEUES. THE FIELDS MUST REMAIN IN THIS ORDER BECAUSE THEY ARE INDEXED BY QUEUE NUMBERS. ALSO, THE PFTE MANAGER DEPENDS ON THE COMPILE-TIME DISPLACEMENT OF THIS SECTION F THE PVT ORIGIN. ALL QUEUES ARE FORWARD AND BACKWARD CHAIN</p> <p>NOTE: IF FIELDS ARE ADDED OR DELETED FROM THIS SECTION, THE PFTE QUEUE INDEX VALUES MUST BE ADJUSTED.</p>				

304	(130) SIGNED	4	PVTQS	BEGINNING OF ORDERED BLOCK OF PFTE QUEUE ANCHORS

304	(130) A-ADDRESS	2	PVTAQF	RBN OF FIRST PFTE ON AVAILABLE FRAME Q
306	(132) A-ADDRESS	2	PVTAQFL	RBN OF LAST PFTE ON AVAILABLE FRAME Q

308	(134) A-ADDRESS	2	PVTRSRVF	RBN OF FIRST PFTE ON SQA RESERVED Q
310	(136) A-ADDRESS	2	PVTRSRVL	RBN OF LAST PFTE ON SQA RESERVED Q

312	(138) A-ADDRESS	2	PVTCQF	RBN OF FIRST PFTE ON COMMON FRAME Q (CSA AND LPA FRAMES)
314	(13A) A-ADDRESS	2	PVTCQFL	RBN OF LAST PFTE ON COMMON FRAME Q

316	(13C) A-ADDRESS	2	PVTSQAQF	RBN OF FIRST PFTE ON SQA FRAME Q

OFFSETS TYPE LENGTH NAME DESCRIPTION

318 (13E) A-ADDRESS 2 PVTSAQQL RBN OF LAST
PFTE ON SQA
FRAME Q

320 (140) A-ADDRESS 2 PVTRSBQF RBN OF FIRST
PFTE ON REAL
STORAGE BUFFER
(RSB) FRAME
QUEUE

322 (142) A-ADDRESS 2 PVTRSBQL RBN OF LAST
PFTE ON RSB
FRAME Q

324 (144) SIGNED 4 PVTFFTQR(5) RESERVED FOR
ADDITIONAL
PFTE QUEUES

=====

FOLLOWING ARE THE RSM WORK/SAVE AREA DEFINITIONS
USE OF THIS AREA IS GUARDED BY THE SALLOC LOCK.

344 (158) SIGNED 4 PVTWSAX BEGINNING OF
THE WORK SAVE
AREA

344 (158) SIGNED 4 PVTWSA1(18) WORK/SAVE AREA
FOR IEAVSQA,
IEAVDSEG

416 (1A0) SIGNED 4 PVTWSA2(18) WORK/SAVE AREA
FOR
IEAVDLAS/P.S.SU
BRTHS

488 (1E8) SIGNED 4 PVTWSA3(18) WORK/SAVE AREA
FOR
IEAVEQRI/IEAVRC
FI

560 (230) SIGNED 4 PVTWSA4(18) WORK/SAVE AREA
FOR IEAVPSII

632 (278) SIGNED 4 PVTWSA5(18) WORK/SAVE AREA
FOR IEAVRELV

704 (2C0) SIGNED 4 PVTWSA6(18) WORK/SAVE AREA
FOR IEAVRELF

776 (308) SIGNED 4 PVTWSA7(18) WORK/SAVE AREA
FOR ALL ROOT
EXITS,
(IEAVFXLD AND
IEAVSWIN)

848 (350) SIGNED 4 PVTWSA8(22) WORK/SAVE AREA
FOR IEAVGFA

936 (3A8) SIGNED 4 PVTWSA9(20) WORK/SAVE AREA
FOR IEAVOFER

PVT

PVT

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
1016 (3F8)	SIGNED	4	PVTWSA10(20)	WORK/SAVE AREA FOR IEAVPIOP AND IEAVIOCP
1096 (448)	SIGNED	4	PVTWSA11(18)	WORK/SAVE AREA FOR IEAVPSI
1168 (490)	SIGNED	4	PVTWSA12(18)	WORK/SAVE AREA FOR IEAVPFTE
1240 (4D8)	SIGNED	4	PVTWSA13(18)	WORK/SAVE AREA FOR IEAVPCB
1312 (520)	SIGNED	4	PVTWSA14(18)	WORK/SAVE AREA FOR IEAVFP2/IEAVINV
1384 (568)	SIGNED	4	PVTWSA15(18)	WORK/SAVE AREA FOR IEAVAMSI, IEAVSOUT AND IEAVRFR
1456 (5B0)	SIGNED	4	PVTWSA16(18)	WORK/SAVE AREA FOR IEAVREF
1528 (5F8)	SIGNED	4	PVTWSA17(18)	WORK/SAVE AREA FOR IEAVREP2
1600 (640)	SIGNED	4	PVTWSA18(18)	WORK/SAVE AREA FOR IEAVSNFC, ENTRY IEAVFRSS IN IEAVFRSB, AND ENTRY IEAVFRFC IN IEAVRFR
1672 (688)	SIGNED	4	PVTSAVE(18)	SAVE AREA FOR CALLING OTHER PROGRAMS
1744 (6D0)	SIGNED	4	PVTACA(6)	ASM CONTROL AREA (ACA) USED BY RSM ROUTINES WHEN REQUESTING ASM SERVICES OTHER THAN REQUEST I/O.
1768 (6E8)	SIGNED	4	PVTSSRB	ADDR OF EXTRA SSFB FOR PCFLIH
1772 (6EC)	SIGNED	1	PVTSRBS	NUMBER OF SRB'S TO BE BUILT INITIALLY.
1773 (6ED)	CHARACTER	3	PVTRESV5	RESERVED

PVT

PVT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
1776	(6F0) SIGNED	4	PVTRSRB	SRB TO SCHEDULE REPLENISH
1776	(6F0) CHARACTER	44		RESERVED SRB USED TO SCHED IEAVREPI
1820	(71C) SIGNED	2	PVTPERFX	PERCENTAGE OF AVAILABLE FRAMES THAT MAY BE FIXED. USED IN COMPUTING PVTMAXFX.
1822	(71E) SIGNED	2	PVTMAXFX	FIXED FRAME THRESHOLD. SRM IS NOTIFIED WHEN THE NUMBER OF FIXED FRAMES EQUALS THIS VALUE.
1824	(720) SIGNED	2	PVTPEROK	A LESSER PERCENTAGE THAN PVTPERFX. USED IN COMPUTING PVTFIXOK
1826	(722) SIGNED	2	PVTFIXOK	NUMBER OF FIXED FRAMES ACCEPTABLE FOR NORMAL SYSTEM PROCESSING.
1828	(724) SIGNED	2	PVTDEFFX	PAGE FIS REQUESTS ARE DEFERRED WHEN THE AFQ IS EQUAL TO THIS VALUE.
1830	(726) SIGNED	2	PVTCNTFX	TOTAL SYSTEM COUNT OF FIXED FRAMES. THIS INCLUDES V=R, LSQA, SQA, PAGE FIX, AND SQA RESERVE QUEUE FRAMES.
1832	(728) SIGNED	2	PVTSQAFX	NUMBER FRAMES ALLOCATED TO SQA
1834	(72A) SIGNED	2	PVTCOMFX	NUMBER FRAMES ALLOCATED TO COMMON AREA FIXES.

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
1836	(72C) SIGNED	2	PVTCHUIC	HIGHEST UNREFERENCED INTERVAL COUNT FOR THE CURRENTLY ALLOCATED COMMON AREA FRAMES.
1838	(72E) SIGNED	2	PVTLPAFC	
1840	(730) SIGNED	4	PVTLPAI	
1844	(734) SIGNED	4	PVTLPAR	
1848	(738) SIGNED	2	PVTLQAF	
1850	(73A) SIGNED	2	PVTLPAFX	
=====				
THIS SECTION OF THE PVT CONTAINS ANCHORS FOR PCB QUEUES. TH FIELDS MUST REMAIN IN THIS ORDER BECAUSE THEY ARE INDEXED BY QUEUE NUMBERS. ALSO, THE PCB MANAGER DEPENDS ON THE COMPILE TIME DISPLACEMENT OF THIS SECTION FROM THE PVT ORIGIN. ALL QUEUES ARE FORWARD AND BACKWARD CHAINED. NOTE: IF FIELDS ARE ADDED OR DELETED FROM THIS SECTION, THE PCB QUEUE INDEX VALUES MUST BE ADJUSTED.				

1852	(73C) SIGNED	4	PVTPCBQS	BEGINNING OF ORDERED BLOCK OF PCB QUEUE ANCHORS
1852	(73C) SIGNED	4	PVTPCBQR(4)	RESERVED FOR ADDITIONAL PCB QUEUE ANCHORS
1868	(74C) A-ADDRESS	4	PVTFCBF	VSA OF FIRST PCB ON THE FREE QUEUE (AVAILABLE PCB'S)
1872	(750) A-ADDRESS	4	PVTFCBL	VSA OF LAST PCB ON FREE QUEUE
1876	(754) A-ADDRESS	4	PVTGFADF	VSA OF FIRST PCB ON GFA DEFERRED ALLOCATION QUEUE
1880	(758) A-ADDRESS	4	PVTGFADL	VSA OF LAST PCB ON GFA DEFERRED ALLOCATION QUEUE
1884	(75C) A-ADDRESS	4	PVTCIOQF	VSA OF FIRST PCB ON COMMON I/O QUEUE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
1888 (760)	A-ADDRESS	4	PVTCIOQL	VSA OF LAST PCB ON COMMON I/O QUEUE
=====				
V-CONS FOR MAJOR RSM ENTRY POINTS (CONTINUED)				

1892 (764)	V-ADDRESS	4	PVTPRSB	V(IEAVPRSB) REAL STORAGE BUFFER ALLOCATION

1896 (768)	SIGNED	4	PVTVCONS(10)	RESERVED FOR ADDITIONAL VCONS

1936 (790)	SIGNED	4	PVTMVCLC	NO. OF PAGES MOVED IN ORDER TO ALLOCATE PREFERRED FRAMES WHEN REQUIRED

1940 (794)	SIGNED	2	PVTXXXXX	RESERVED
1942 (796)	SIGNED	2	PVTTASID	TO ASID DURING TRAS

CROSS REFERENCE

PVT	0 (0)	PVTPDSEG	184 (88)
PVTACA	1744(600)	PVTPERFX	1820(71C)
PVTAFC	2 (2)	PVTPEROK	1824(720)
PVTAFCLO	4 (4)	PVTFPF	112 (70)
PVTAFCCK	6 (6)	PVTFPF2	116 (74)
PVTAFAQF	304(130)	PVTFPFREE	208 (D0)
PVTAFAQL	306(132)	PVTFPFE	108 (6C)
PVTAPREF	0 X'08'	PVTFFTP	12 (C)
PVTEGHS	0 X'40'	PVTFPFTQR	324(144)
PVTCAIN	284(11C)	PVTFPFXLD	196 (C4)
PVTCACOUT	288(120)	PVTFGFA	84 (54)
PVTCAREC	292(124)	PVTFGFAD	88 (58)
PVTCFMCT	300(12C)	PVTFPINV	172 (AC)
PVTCFQF	312(138)	PVTFPIOCP	96 (60)
PVTCFQL	314(13A)	PVTFPIOP	92 (5C)
PVTCHUIC	1836(72C)	PVTFPITAS	192 (C0)
PVTCIOGF	1884(75C)	PVTFPHSG	0 X'80'
PVTCIOQL	1888(760)	PVTFPOOL	8 (8)
PVTCHTFX	1830(726)	PVTFPOPER	220 (DC)
PVTCOHFX	1834(72A)	PVTFPCUT	200 (C8)
PVTDEFFX	1828(724)	PVTFPPIOI	128 (80)
PVIDFRS	34 (22)	PVTFPREF	224 (E0)
PVTDU:MP	0 X'01'	PVTFPRCA	52 (34)
PVTFIXOK	1826(722)	PVTFPRCF	148 (94)
PVTFFLAG1	0 (0)	PVTFPRCFI	152 (98)
PVTFFLAG2	1 (1)	PVTFPRCV	156 (9C)
PVTFPCBF	1868(74C)	PVTFPRELF	216 (D8)
PVTFPCBL	1872(750)	PVTFPRELS	204 (CC)
PVTFPFN	16 (10)	PVTFPRELV	212 (D4)
PVTFRSLT	240 (F0)	PVTFPRFR	120 (78)
PVTFVR	20 (14)	PVTFPRSB	1892(764)
PVTGFADF	1876(754)	PVTFPRSET	244 (F4)
PVTGFADL	1880(758)	PVTFPSIB	72 (48)
PVTHQSA	62 (3E)	PVTFPSINT	76 (4C)
PVTLCSA	26 (1A)	PVTFPSOUT	164 (A4)
PVTLPAFC	1838(72E)	PVTFPSQA	80 (50)
PVTLPAFX	1850(73A)	PVTFPSRBP	188 (BC)
PVTLPAI	1840(730)	PVTFPSHIN	160 (A0)
PVTLPAR	1844(734)	PVTFPSHFC	168 (A8)
PVTLPFN	18 (12)	PVTFPSHPP	228 (E4)
PVTLFRIV	24 (18)	PVTFPTLB	31 (1F)
PVTLQSA	60 (3C)	PVTFPVEQR	132 (84)
PVTLSI	0 X'04'	PVTFPVR	144 (90)
PVTLSQLAF	1848(738)	PVTFPVRIN	140 (8C)
PVTLVR	22 (16)	PVTFPVRLS	136 (88)
PVTMAXFX	1822(71E)	PVTFPVRPO	124 (7C)
PVTMVCLC	1936(790)	PVTQS	304(130)
PVTNPIN	248 (F6)	PVTREP2	100 (64)
PVTNPOUT	252 (FC)	PVTRESV5	1773(6E0)
PVTNPREC	276(114)	PVTREUS	48 (30)
PVTNSHPS	280(118)	PVTRSSQF	320(140)
PVTOROOT	56 (38)	PVTRSSQL	322(142)
PVTPAGIO	236 (EC)	PVTRSM3M	1 X'80'
PVTFBC	104 (68)	PVTRSQA	32 (20)
PVTPCBCT	36 (24)	PVTRSR3	1776(6F0)
PVTPCBLO	38 (26)	PVTRSRVF	308(134)
PVTPCBLT	0 X'10'	PVTRSRVL	310(136)
PVTPCBND	30 (1E)	PVTRSUS	44 (2C)
PVTPCBQR	1852(73C)	PVTSAVE	1672(688)
PVTPCEQS	1852(73C)	PVTSIT	0 X'02'
PVTPCBS	10 (A)	PVTSPIR	302(12E)
PVTPCICA	64 (40)	PVTSPIV	268(10C)
PVTPCSEG	176 (B0)	PVTSPOUT	272(110)
PVTPCSGB	180 (B4)	PVTSPREC	296(128)

PVT

PVT

CROSS REFERENCE

PVTSQAFX 1832(728)
PVTSQAQF 316(130)
PVTSQAQL 318(138)
PVTSRQDC 28 (10)
PVTSRQNF 47 (2F)
PVTSRQRC 46 (2E)
PVTSRBID 68 (44)
PVTSRBIU 0 X'20'
PVTSRBN0 29 (1D)
PVTSRES 1772(6EC)
PVTSRPIN 11 (E)
PVTSRFB 1768(6E8)
PVTSRPIO 232 (E8)
PVTTASID 1942(796)
PVTVAHI 256(100)
PVTVAM0 260(104)
PVTVAM2 264(108)
PVTVCCHS 1896(768)
PVTVR00T 40 (28)
PVTHSAX 344(158)
PVTHSA1 344(158)
PVTHSA10 1016(3F8)
PVTHSA11 1096(448)
PVTHSA12 1168(490)
PVTHSA13 1240(4D8)
PVTHSA14 1312(520)
PVTHSA15 1384(568)
PVTHSA16 1456(5C0)
PVTHSA17 1528(5F8)
PVTHSA18 1600(640)
PVTHSA2 416(1A0)
PVTHSA3 488(1E8)
PVTHSA4 560(230)
PVTHSA5 632(278)
PVTHSA6 704(2C0)
PVTHSA7 776(308)
PVTHSA8 848(350)
PVTHSA9 936(3A8)
PVTXXXXX 1940(794)

QCB

Common Name: Queue Control Block (MAJOR/MINOR)

Macro ID: IHAQCB

DSECT Name: QCB

Created by: IEAVENQ1

Subpool and Key: 245 and key 0

Size: Major, 24 bytes; Minor, variable from 20 to 275 bytes maximum

Pointed to by: CVTFQCB field of the CVT data area (first major QCB)
CVTLQCB field of the CVT data area (last major QCB)
MAJNMAJ field of the QCB data area (next major QCB)
MAJFMAJ field of the QCB data area (previous major QCB)
MAJFMIN field of the QCB data area (first minor QCB)
MAJLMIN field of the QCB data area (last minor QCB)
MINNMIN field of the QCB data area (next minor QCB)
MINFMIN field of the QCB data area (previous minor QCB)
TSBRQCB field of the TSB data area (TCAM QCB)

Serialization: CMS lock

Function: A major and a minor QCB are used in conjunction with QEL to identify a request for a resource being serialized by ENQ/DEQ/RESERVE.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	QCB	

0	(0) A-ADDRESS	4	MAJNMAJ	ADDRESS OF NEXT MAJOR QCB

4	(4) A-ADDRESS	4	MAJFMAJ	ADDRESS OF PREVIOUS MAJOR QCB

8	(8) A-ADDRESS	4	MAJFMIN	ADDRESS OF THE FIRST MINOR QCB

12	(C) A-ADDRESS	4	MAJLMIN	ADDRESS OF THE LAST MINOR QCB

16	(10) CHARACTER	8	MAJNAME	MAJOR NAME FOR THIS QCB
0	(0) STRUCTURE	0	MIN	

0	(0) A-ADDRESS	4	MINNMIN	ADDRESS OF THE NEXT MINOR QCB.

4	(4) A-ADDRESS	4	MINFMIN	ADDRESS OF THE PREVIOUS MINOR.

8	(8) A-ADDRESS	4	MINFQEL	ADDRESS OF THE FIRST QEL.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
12	(C) A-ADDRESS	4	MINLQEL	ADDRESS OF THE LAST QEL

16	(10) A-ADDRESS	1	MINNAMEL	LENGTH OF MINOR NAME
17	(11) A-ADDRESS	1	MINFLGS	FLAGS FIELD
	1... ..		MINSYS	X'80' SCOPE OF SYSTEM
	.1..		MINSYSS	X'40' SCOPE OF SYSTEMS
	..1.		MINSTEP	X'20' SCOPE OF STEP
	...1		MINNOENQ	X'10' IF 1,NO ENQS ALLOWED (SET BY FRR)
18	(12) SIGNED	2	MINASID	ADDRESS SPACE I.D. (STEP ONLY)

20	(14) CHARACTER	1	MINNAME	VARIABLE LENGTH MINOR NAME

QDBCommon Name: Queue Descriptor BlockMacro ID: IHQDBDSECT Name: QDBCreated by: Depends on which queueSubpool and Key: Depends on which queueSize: 32 bytesPointed to by: Depends on which queueFunction: Contains information on the size and location and attributes of queue.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	QDB	
0	(0) CHARACTER	4	QDBQDB	ACRONYM IN EBCDIC QDB-
4	(4) BITSTRING	2	QDBATTR	QUEUE ATTRIBUTES RESERVED
6	(6) SIGNED	2	QDBRV001	
8	(8) SIGNED	4	QDBNELMS	NUMBER OF ELEMENTS ON QUEUE
12	(C) A-ADDRESS	4	QDBFELMP	POINTER TO FIRST ELEMENT
16	(10) A-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) A-ADDRESS	4	QDBRV002	RESERVED

QEL

Common Name: Queue Element

Macro ID: IHAQEL

DSECT Name: QEL

Created by: IEAVENQ1

Subpool and Key: 245 and key 0

Size: Variable (either 16, 24, or 28 bytes)

Pointed to by: MINFQEL field of the QCB data area (first QEL)
MINLQEL field of the QCB data area (last QEL)
VRPFEL field of the GDA data area (first POST QEL)
VRPLEL field of the GDA data area (last POST QEL)
VRWFEL field of the GDA data area (first WAIT QEL)
VRNLEL field of the GDA data area (last WAIT QEL)
QELNQEL field of the QEL data area (next QEL)
QELPQEL field of the QEL data area (previous QEL)

Serialization: CMS lock

Function: Used in conjunction with a major QCB and a minor QCB to define a request for a resource being serialized by ENQ/DEQ/RESERVE.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	QEL	

0	(0) A-ADDRESS	4	QELNQEL	ADDR OF NEXT QEL OR IF LAST QEL,ZERO

4	(4) A-ADDRESS	4	QELPQEL	ADDR OF PREVIOUS QEL OR ZERO IF THIS IS THE FIRST QEL

8	(8) A-ADDRESS	4	QELTCB	ADDR OF TCB FOR WHICH ENQ WAS ISSUED
	1... ..		QELXLIST	X'80' IF '0' , THIS IS THE TCB ADDR. IF '1' , THIS IS THE LIST QEL ADDR.

12	(C) HEX	1	QELQFLGS	THESE FLAGS PERTAIN TO THE QEL
	1... ..		QELSHARE	X'80' IF '1' , SHARE IF '0' , EXCLUSIVE
	.1... ..		QELMC	X'40' IF '1' , THIS IS AN MC QEL

QEL

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
...1.			QELLIST	X'20' IF '1' , THIS IS A LIST QEL A SINGLE REQUEST HAS 1 LIST QEL
...1			QELRESV	X'10' IF '1', THIS IS A RESERVE QEL
.... 1...			QELAUTH	X'08' IF '1', INVOKER WAS AUTHORIZED

=====

THE FOLLOWING FIELDS PERTAIN TO A SINGLE OR LIST REQUEST.
QELLFLGS AND QELASID ARE PROPAGATED FOR EACH QEL OF THE LIST

13	(D) HEX	1	QELLFLGS	THESE FLAGS PERTAIN TO THE REQUEST I.E. TO THE LIST IF A LIST REQUEST X'80' THE ECB OR RB HAS BEEN POSTED
	1...		QELPOST	X'40' THIS IS AN ECB REQUEST THIS REQUESTS ASID.
	.1..		QELECBF	
14	(E) SIGNED	2	QELASID	

16	(10) A-ADDRESS	4	QELSVRB	THIS IS THE ADDRESS OF THIS REQUESTS SVRB ADDRESS, THIS ADDRESS IS VALID WHEN THE QELWCNT IS NON-ZERO
	1...		QELXECB	X'80' IF '0' , THIS IS AN SVRB ADDR IF '1' , THIS IS AN ECB ADDR

20	(14) SIGNED	2	QELLCNT	THIS IS A COUNT OF THE NUMBER OF ACTIVE QELS LEFT FOR THIS REQUEST
22	(16) SIGNED	2	QELWCNT	THIS IS A COUNT OF THE NUMBER OF QELS 'WAITING'

OFFSETS TYPE LENGTH NAME DESCRIPTION

NOTE: A SINGLE REQUEST IS CONSIDERED A LIST REQUEST OF ONE,
WHEN QELRESV=1, QEL EXTENDED(WORD) TO CONTAIN UCB ADDR

QEL

QEL
Data Area Descriptions 117

RB

Common Name: Request Blocks

Macro ID: IHARB

DSECT Name: RBPRFX (DSECT card precedes prefix). RBBASIC should be used for USING for basic section

Created by: SYSGEN, CIRB (for IRBs); program manager (for PRBs); first level interruption handlers (for SVRBs)

Subpool and Key: IRB, SIRB - subpool 253 and key 0; PRB, SVRB - subpool 255 and key 0

Size: PRB - 136, SIRB - 200, SVRB - 224, IRB - 128 and optional fields

Pointed to by: TCBRBP field of the TCB data area
 CORRBP field of the CDE data area (associated RB)
 EVNTRBP field of the EVNT data area (waiting RB)
 PCBSRB field of the PCB data area (associated RB)
 QELSVRB field of the QEL data area (associated SVRB)
 RBLINK field of the RB data area (previous RB)
 TAXEIRB field of the TAXE data area (associated RB)
 TIQEIRB field of the TAXE data area (IRB to be scheduled)

Serialization: LOCAL lock, active (RB or TC), non-dispatchable TCB, etc.

Function: Invokes IKJRB for VS2 system-dependent fields. Contains information needed by supervisor concerning programs and routines. Contains save areas for all general registers, extended registers and a save area for SVC routines plus additional data needed for control.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	RBPRFX	, RBSECPTR-64

-64	(-40) FLOATING	8 (8)		PREFIX IS SYSTEM DEPENDENT

0	(0) CHARACTER	8	RBEXRTNM	EIGHT-CHARACTER NAME OF ERROR EXIT ROUTINE (SIRB)

0	(0) BITSTRING	1	RBTMFLD	INDICATORS FOR TIMER ROUTINES. WHEN THERE ARE NO TIMER ROUTINES, THIS FIELD IS ZERO. (IRB)
	1... ..		RBTMQE	BITO TIMER ELEMENT NOT ON QUEUE
	.1.. ..		RBTMTOD	BIT1 LOCAL TIME-OF-DAY OPTION IS USED
	..1.		RBRV005	BIT2,,C'X' RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
....1....			RDW LIM	BIT3 WAIT LIMIT EXCEEDED
.... 1...			RBTMCHP	BIT4 INTERVAL HAS EXPIRED
.... .1..			RBTMIND2	BIT5 EXIT SPECIFIED WITH TASK OR REAL REQUEST
.... ..11			RBTMIND3	BIT6+BIT7 TYPE OF REQUEST
....			RBTREQ	X'00' TASK REQUEST
....1			RBWREQ	BIT7 WAIT REQUEST
.... ..11			RBRREQ	BIT6+BIT7 REAL REQUEST
1	(1) HEX	7		LAST 7 BYTES OF RBEXRTM

8	(8) SIGNED	2		SYSTEM-DEPENDENT FIELD
10	(A) BITSTRING	2	RBSTAB	STATUS AND ATTRIBUTE BITS (ALL RB'S)
10	(A) BITSTRING	2	XSTAB	SAME AS RBSTAB
10	(A) BITSTRING	1	RBSTAB1	FIRST BYTE OF STATUS AND ATTRIBUTE BITS
10	(A) BITSTRING	1	XSTAB1	SAME AS RBSTAB1
=====				
BITS 0-4 ARE SYSTEM-DEPENDENT BITS				
.... .1..			RBFTCKPT	BIT5 A CHECKPOINT MAY BE TAKEN IN A USER EXIT FROM THIS SVC ROUTINE (SVRD-BOTH)
.... .1..			XRBACKPT	BIT5 SAME AS RBFTCKPT
=====				
BITS 6-7 ARE SYSTEM-DEPENDENT BITS				
11	(8) BITSTRING	1	RBSTAB2	SECOND BYTE OF STATUS AND ATTRIBUTE BITS
11	(8) BITSTRING	1	XSTAB2	SAME AS RBSTAB2
1...			RBTCBNXT	BIT0 RDLINK FIELD POINTS TO TCB (ALL RB'S)
1...			XRBTCBP	BIT0 SAME AS RBTCBNXT
.1...			RBFACV	BIT1 IRB OR SIRB IS QUEUED TO TCB PROGRAM IS ACTIVE

RB

RB

Data Area Descriptions 119

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.1..			XRBACTV	BIT1 ACTIVE PROGRAM (ALL RB'S EXCEPT LPRB AND LRB FOR OS/VS1)
=====				
BITS 2-5 ARE SYSTEM-DEPENDENT BITS				
.... ..1.			RBFDDYN	BIT6 RB STORAGE CAN BE FREED AT EXIT
.... ..1.			XRBFRRB	BIT6 SAME AS RBFDDYN
....1			RBECBWT	BIT7 IF ZERO, WAIT FOR A SINGLE EVENT OR ALL OF A NUMBER OF EVENTS IF ONE, WAIT FOR A NUMBER OF EVENTS THAT IS LESS THAN THE TOTAL NUMBER OF EVENTS WAITING
....1			XRQWAIT	BIT7 SAME AS RBECBWT

12	(C) A-ADDRESS	4		SYSTEM-DEPENDENT FIELD

16	(10) CHARACTER	8	RDOPSW	USER'S OLD PSW (ALL RB'S EXCEPT FRB)

16	(10) CHARACTER	8	XRDPSPW	SAME AS RDOPSW

16	(10) CHARACTER	1		OLD PSW BYTE 1
17	(11) BITSTRING	1	RDOPSHB2	OLD PSW BYTE 2
.... ..1			RDOPSNPS	X'01' PROBLEM STATE BIT IN OLD PSW
18	(12) CHARACTER	6		OLD PSW BYTES 3-8

24	(18) A-ADDRESS	4		SYSTEM-DEPENDENT FIELD

28	(1C) A-ADDRESS	4	RBLINK	SAME AS RBLINKS BELOW

28	(1C) A-ADDRESS	4	XRBLNK	SAME AS RBLINKS BELOW

28	(1C) SIGNED	1	RBWCF	NUMBER OF REQUESTS WAITING (WAIT COUNT) (ALL RB'S FOR OS/VS2)

RB

RB

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
28	(1C) SIGNED	1	XRBT	SAME AS RBWCF (ALL RB'S EXCEPT LPRB AND LRB FOR OS/VS1)
29	(1D) A-ADDRESS	3	RBLINKB	ADDRESS OF PREVIOUS RB, OR ADDRESS OF TCB WHEN THIS IS FIRST RB ON THE QUEUE (ALL RB'S FOR OS/VS2)
29	(1D) A-ADDRESS	3	XRBLNKA	SAME AS RBLINKB (ALL RB'S EXCEPT LPRB AND LRB FOR OS/VS1)

32	(20) CHARACTER	64	REGSAVE	GENERAL REGISTER SAVE AREA (SVRB-BOTH, IRB, TIRB FOR OS/VS2)

32	(20) CHARACTER	64	XRREG	SAME AS REGSAVE (IRB, SIRB, SVRB FOR OS/VS1)

32	(20) SIGNED	4	RBGRS0	SAVE AREA FOR GENERAL REGISTER 0

32	(20) SIGNED	4	XRREG0	SAME AS RBGRS0

36	(24) SIGNED	4	RBGRS1	SAVE AREA FOR GENERAL REGISTER 1

36	(24) SIGNED	4	XRREG1	SAME AS RBGRS1

40	(28) SIGNED	4	RBGRS2	SAVE AREA FOR GENERAL REGISTER 2

40	(28) SIGNED	4	XRREG2	SAME AS RBGRS2

44	(2C) SIGNED	4	RBGRS3	SAVE AREA FOR GENERAL REGISTER 3

44	(2C) SIGNED	4	XRREG3	SAME AS RBGRS3

48	(30) SIGNED	4	RBGRS4	SAVE AREA FOR GENERAL REGISTER 4

48	(30) SIGNED	4	XRREG4	SAME AS RBGRS4

RB

RB

Data Area Descriptions 121

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
52	(34) SIGNED	4	RBGRS5	SAVE AREA FOR GENERAL REGISTER 5
52	(34) SIGNED	4	XRBREG5	SAME AS RBGRS5
56	(38) SIGNED	4	RBGRS6	SAVE AREA FOR GENERAL REGISTER 6
56	(38) SIGNED	4	XRBREG6	SAME AS RBGRS6
60	(3C) SIGNED	4	RBGRS7	SAVE AREA FOR GENERAL REGISTER 7
60	(3C) SIGNED	4	XRBREG7	SAME AS RBGRS7
64	(40) SIGNED	4	RBGRS8	SAVE AREA FOR GENERAL REGISTER 8
64	(40) SIGNED	4	XRBREG8	SAME AS RBGRS8
68	(44) SIGNED	4	REGRS9	SAVE AREA FOR GENERAL REGISTER 9
68	(44) SIGNED	4	XRBREG9	SAME AS RBGRS9
72	(48) SIGNED	4	RBGRS10	SAVE AREA FOR GENERAL REGISTER 10
72	(48) SIGNED	4	XRBREG10	SAME AS RBGRS10
76	(4C) SIGNED	4	RBGRS11	SAVE AREA FOR GENERAL REGISTER 11
76	(4C) SIGNED	4	XRBREG11	SAME AS RBGRS11
80	(50) SIGNED	4	RBGRS12	SAVE AREA FOR GENERAL REGISTER 12
80	(50) SIGNED	4	XRBREG12	SAME AS RBGRS12
84	(54) SIGNED	4	RBGRS13	SAVE AREA FOR GENERAL REGISTER 13
84	(54) SIGNED	4	XRBREG13	SAME AS RBGRS13
88	(58) SIGNED	4	RBGRS14	SAVE AREA FOR GENERAL REGISTER 14

RB

RB

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
88	(58) SIGNED	4	XRBREG14	SAME AS RBGRS14
92	(5C) SIGNED	4	RBGRS15	SAVE AREA FOR GENERAL REGISTER 15
92	(5C) SIGNED	4	XRBREG15	SAME AS RBGRS15
96	(60) FLOATING	8		
96	(60) CHARACTER	48	RBECSAVE	EXTENDED SAVE AREA FOR SVC ROUTINES (SVRB-BOTH) (OS/VS2)
96	(60) FLOATING	8	XRBESA(10)	SVRB EXTENDED SAVE AREA OF UP TO TEN DOUBLEWORDS REQUESTED FOR SVC ROUTINE (OS/VS1)

THIS MACRO MAPS OS/VS2 REQUEST BLOCKS

SVRB - SUPERVISOR REQUEST BLOCK FOR TRANSIENT SVC ROUTINE

SVRB - SUPERVISOR REQUEST BLOCK FOR RESIDENT SVC ROUTINE

IRB - INTERRUPTION REQUEST BLOCK

SIRB - SYSTEM INTERRUPT REQUEST BLOCK

PRB - PROGRAM REQUEST BLOCK

TIIRB - TASK INTERRUPT REQUEST BLOCK

OS/VS2 SU7 PTF, 10/25/77, LEVEL=3

METHOD OF ACCESS

THIS MACRO IS INVOKED BY IHARB WHICH MAPS THE FIELDS

THAT ARE COMMON TO OS/VS1 AND OS/VS2.

IF THIS MACRO IS INVOKED DIRECTLY IN BAL, IT WILL INVOKE

IHARB TO MAP THE COMMON FIELDS.

/*

-64	(-40) FLOATING	8		
-64	(-40) A-ADDRESS	4	RBRVS012	RESERVED
-60	(-3C) A-ADDRESS	4	RBRVS013	RESERVED
-56	(-38) SIGNED	2	RBRVS014	RESERVED
-54	(-36) HEX	1	RBRVS015	RESERVED
-53	(-35) HEX	1	RBRVS016	RESERVED
-52	(-34) HEX	1	RBRVS017	RESERVED
-51	(-33) HEX	1	RBRVS018	RESERVED
-50	(-32) BITSTRING	1	RBRVS019	RESERVED
	1... ..		RBRVS020	X'80',,C'X' RESERVED
	.1..		RBRVS021	X'40',,C'X' RESERVED
	..1.		RBRVS022	X'20',,C'X' RESERVED

RB

RB

Data Area Descriptions 123

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	...1		RBRV023	X'10',,C'X' RESERVED
	.... 1...		RBRV024	X'08',,C'X' RESERVED
	.... .1..		RBRV025	X'04',,C'X' RESERVED
	.... ..1.		RBRV026	X'02',,C'X' RESERVED
	.... ...1		RBRV027	X'01',,C'X' RESERVED
-49 (-31) BITSTRING	1...	1	RBRV028	RESERVED
			RBRV029	X'80',,C'X' RESERVED
	.1..		RBRV030	X'40',,C'X' RESERVED
	..1.		RBRV031	X'20',,C'X' RESERVED
	...1		RBRV032	X'10',,C'X' RESERVED
	.... 1...		RBRV033	X'08',,C'X' RESERVED
	.... .1..		RBRV034	X'04',,C'X' RESERVED
	.... ..1.		RBRV035	X'02',,C'X' RESERVED
	.... ...1		RBRV036	X'01',,C'X' RESERVED

-48 (-30) A-ADDRESS		4	RBRV037	RESERVED

-44 (-2C) A-ADDRESS		4	RBRV038	RESERVED

-40 (-28) SIGNED		2	RBRV039	RESERVED
-38 (-26) HEX		1	RBRV040	RESERVED
-37 (-25) BITSTRING	1...	1	RBRV041	RESERVED
			RBRV042	X'80',,C'X' RESERVED
	.1..		RBRV043	X'40',,C'X' RESERVED
	..1.		RBRV044	X'20',,C'X' RESERVED
	...1		RBRV045	X'10',,C'X' RESERVED
	.... 1...		RBRV046	X'08',,C'X' RESERVED
	.... .1..		RBRV047	X'04',,C'X' RESERVED
	.... ..1.		RBRV048	X'02',,C'X' RESERVED
	.... ...1		RBRV049	X'01',,C'X' RESERVED

-36 (-24) A-ADDRESS		4	RBRV050	RESERVED

-32 (-20) FLOATING		8	RBPRFXST	START OF ASSIGNED FIELDS IN RB PREFIX

-32 (-20) A-ADDRESS		4	RBRV051	RESERVED

-28 (-1C) SIGNED		2	RBRV052	RESERVED
-26 (-1A) HEX		1	RBRV053	RESERVED
-25 (-19) BITSTRING		1	RBRV054	RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
1... ..			RERSV055	X'80',,C'X' RESERVED
.1.. ..			RERSV056	X'40',,C'X' RESERVED
..1.			RERSV057	X'20',,C'X' RESERVED
...1			RERSV058	X'10',,C'X' RESERVED
.... 1...			RERSV059	X'03',,C'X' RESERVED
.... .1..			RERSV060	X'04',,C'X' RESERVED
.... ..1.			RERSV061	X'02',,C'X' RESERVED
.... ...1			RERSV062	X'01',,C'X' RESERVED

-24	(-18) FLOATING	8		

-24	(-18) CHARACTER	16	RBRTOPSW	PROGRAM STATUS INFORMATION STORED AT TIME OF INTERRUPT CAUSING ENTRY INTO THE RTM

-24	(-18) CHARACTER	8	RBRTPSW1	FIRST DOUBLE WORD OF PSW SYSTEM AND PROGRAM MASKS, KEY CONDITION CODE AND INSTRUCTION COUNTER

-16	(-10) CHARACTER	8	RBRTPSW2	SECOND DOUBLE WORD OF PSW

-16	(-10) CHARACTER	4	RBRTICIL	ILC AND INTERRUPT CODE

-16	(-10) HEX	1	RBRSV160	RESERVED SET TO ZERO IN LOW CORE BY HARDWARE
-15	(-F) SIGNED	1	RBRTILC	INSTRUCTION LENGTH COUNTER NUMBER OF BYTES IN INSTRUCTION CAUSING INTERRUPT
-14	(-E) SIGNED	2	RBRTINCD	INTERRUPT CODE

-12	(-C) A-ADDRESS	4	RBTRAN	VIRTUAL ADDRESS CAUSING TRANSLATION EXCEPTION IF PROGRAM INTERRUPT 16, 17 OR 18. OTHERWISE, NOT USED.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
-8	(-8) BITSTRING 1... ..	1	RDFLAGS1 RBSLOCK	FLAG BYTE BIT0 INDICATES THAT THIS RB IS NON-DISPATCHABLE UNTIL THE SUPERVISOR LOCK (CVTSYLK) IS RESET (ALL RB'S)
	.1.. ..		RBXWAIT	BIT1 INDICATES THAT THE PROGRAM OPERATING UNDER THIS RB HAS ISSUED AN EXPLICIT (SVC) WAIT (ALL RB'S)
	..1.		RBABEND	BIT2 ABEND SVRB (SVRB-BOTH)
	...1		RDRSV159	BIT3,,C'X' RESERVED
	.... 1...		RBASIR	BIT4 ASIR IS RUNNING UNDER THIS RB
	.... .1..		RBLONGWT	BIT5 LONG WAIT ISSUED UNDER THIS RB
	.... ..1.		RBSCB	BIT6 SET BY SVC 60 TO INDICATE RB HAS AN ASSOCIATED ESTAE OR STAE EXIT
	.... ...1		RBSSSYN	BIT7 SYNCHRONIZED STATUS STOP PENDING FOR THIS RB
-7	(-7) HEX	3	RBRV004	RESERVED
-4	(-4) SIGNED	1	RBWCSA	NUMBER OF REQUESTS WAITING AT TIME OF TERMINATION (WAIT COUNT SAVE AREA) (ALL RB'S)
-3	(-3) CHARACTER	3	RBINTCDA	INTERRUPT CODE (ALL RB'S)
-3	(-3) CHARACTER	1	RBINLNTH	INSTRUCTION LENGTH CODE 4 HIGH-ORDER BITS MUST BE ZERO (ALL RB'S)
-2	(-2) CHARACTER	2	RBINTCOD	INTERRUPT CODE (ALL RB'S)

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) CHARACTER	1	RBPRFXND	END OF RB PREFIX

0	(0) FLOATING	8		

0	(0) A-ADDRESS	4	RBPPSAV	ADDRESS OF PROBLEM PROGRAM REGISTER SAVE AREA (IRB)

0	(0) BITSTRING	1		RBTMFLD
1	(1) A-ADDRESS	3	RBPPSAV1	ADDRESS OF PROBLEM PROGRAM REGISTER SAVE AREA (IRB)

4	(4) CHARACTER	4	RBABOPSW	AFTER EXECUTION OF TRANSIENT AREA HANDLER ROUTINE FOUR LOW-ORDER BYTES OF NAME OF REQUESTED ROUTINE (SVRB-TRANS)

8	(8) SIGNED	2	RBSIZE	SIZE OF THIS RB IN DOUBLEWORDS (ALL RB'S)
10	(A) BITSTRING	2		RBSTAB
10	(A) BITSTRING	1		RESTAB1
	111.		RBFTP	BIT0+BIT1+BIT2 TYPE OF RB
	.... ....		RBFTPRB	X'00' PRB
	.11.		REFTTIRB	BIT1+BIT2 TIRB
	.1.		RBFTIRB	BIT1 IRB
	1...		RDFTSIRB	BIT0 SIRB
	11..		RBFTSVRB	BIT0+BIT1 SVRB
	...1		RBTRSVRB	BIT3 IF RBTRSVRB=0 AND RBCDE=0, THEN TYPE 2 SVC IN NUCLEUS. IF RBTRSVRB=0 AND RBCDE1 NOT 0, THEN SECOND OR SUBSEQUENT LOAD OF TYPE 4 SVC IN FIXED OR MODIFIED LPA (RBCDE1 = ADDRESS OF CDE). IF RBTRSVRB=1 AND RBCDE1=0, THEN TYPE 3 OR FIRST LOAD OF TYPE 4 SVC IN PAGED, FIXED OR MODIFIED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				LPA. IF RBTRSVRB=1 AND RBCDE1 NOT 0, THEN SECOND OR SUBSEQUENT LOAD OF TYPE 4 SVC IN PAGED LPA (RBCDE1 = ADDRESS OF LPDE).
....1			RBFNsvRB	BIT3 ALIAS FOR RBTRSVRB
.... 1...			RBWAITP	BIT4 INDICATES THAT AN ECB IS POINTING AT THE RB.
=====				
RBFTCKPT EQU	BITS -			SEE COMMON SECTION
.... .1.			RBATNXIT	BIT6 THIS IRB IS AN ATTENTION IRB
.... ...1			RBPMsvRB	BIT7 THIS IS A PROGRAM MANAGER SVRB VALID ONLY ON LINK, LOAD, XCTL OR ATTACH RBSTAB2
11	(B) BITSTRING	1		
=====				
RBTCBNXT EQU	BIT0 -			SEE COMMON SECTION
RBFACV EQU	BIT1 -			SEE COMMON SECTION
..1.			RBATTN	BIT2 EXITING PROGRAM IS AN ATTENTION EXIT (IRB)
...1			RBETXR	BIT3 IRB IS FOR AN ETXR EXIT ROUTINE
...1			RBUSIQE	BIT3 SAME AS RBETXR
.... 11..			RBIQETP	BIT4+BIT5
....			RBRQENR	X'00' REQUEST QUEUE ELEMENT IS NOT TO BE RETURNED
.... .1..			RBIRBAER	BIT5 IRB HAS QUEUE ELEMENTS FOR ASYNCHRONOUSLY EXECUTED ROUTINES THAT ARE RQE'S
.... 1....			RBIQENR	BIT4 IQE IS NOT TO BE RETURNED AT EXIT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... 11..			RBIRBAIQ	BIT4+BIT5 IRB HAS QUEUE ELEMENTS FOR ASYNCHRONOUSLY EXECUTED ROUTINES THAT ARE IQE'S
=====				
Rbfdyn	EQU BIT6 -			SEE COMMON SECTION
RbEcbwt	EQU BIT7 -			SEE COMMON SECTION

12	(C) A-ADDRESS	4	RBEP	ENTRY POINT ADDRESS OF ASYNCHRONOUSLY EXECUTED ROUTINE (IRB, SIRB)

16	(10) CHARACTER	8		RBOPSW

24	(18) A-ADDRESS	4	RBPGMQ	SAME AS RBPGMQ1 BELOW

24	(18) HEX	1		ZERO
25	(19) A-ADDRESS	3	RBPGMQ1	ADDRESS OF RB INDICATING A REQUEST TO USE SAME SERIALY REUSABLE PROGRAM (SVRB-RES, PRB)

28	(1C) A-ADDRESS	4		RBLINK

28	(1C) SIGNED	1		RBWCF

28	(1C) SIGNED	1	RBSCF	RB SUSPENDED COUNT
29	(1D) A-ADDRESS	3		RBLINKB

32	(20) CHARACTER	64		RBGRSAVE

96	(60) SIGNED	4	IRBEND	END OF IRB UNLESS OPTIONAL FIELDS RBNEXAV AND RBIQWRK ARE PRESENT

96	(60) CHARACTER	48		RBEXSAVE

96	(60) A-ADDRESS	4	RBRV135	RESERVED

100	(64) SIGNED	2	RBRV136	RESERVED
102	(66) HEX	1	RERSV137	RESERVED
103	(67) BITSTRING	1	RERSV138	RESERVED
	1... ..		RERSV139	X'80',,C'X'
				RESERVED
	.1... ..		RBRV140	X'40',,C'X'
				RESERVED

RB

RB

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
...1			RBRSV141	X'20',,C'X' RESERVED
...1			RBRSV142	X'10',,C'X' RESERVED
.... 1...			RBRSV143	X'08',,C'X' RESERVED
.... .1..			RBRSV144	X'04',,C'X' RESERVED
.... ..1.			RBRSV145	X'02',,C'X' RESERVED
.... ...1			RBRSV146	X'01',,C'X' RESERVED

104	(68) SIGNED	4	PRBEND	END OF PRB

104	(68) SIGNED	4	TIPBEND	END OF TIRB

104	(68) CHARACTER	40		LAST 40 BYTES OF RBEXSAVE

144	(90) CHARACTER	20	RBSCBB	AREA CONTAINING STAE CONTROL BLOCK (SCB) (SVRB ONLY)

144	(90) A-ADDRESS	4	RBSCHAIN	POINTER TO NEXT SCB ON CHAIN

148	(94) A-ADDRESS	4	RDSEXIT	POINTER TO USER WRITTEN EXIT ROUTINE

152	(98) A-ADDRESS	4	RBSPARM	ADDRESS OF PARAMETER LIST FOR STA EXIT

152	(98) BITSTRING	1	RBSFLGS1	FIRST FLAG BYTE
1...			RBSSTAI	BIT0 STAI SCB
.1...			RBSSTAR	BIT1 STAR SCB. SCB IF FOR STAE IF NEITHER RDSSTAI NOR RBSSTAR BIT IS SET ON.
..1.			RBSDUMMY	BIT2 DUMMY SCB (WILL NOT BE SCHEDULED)
...1			RBSESTAE	BIT3 ESTAE INDICATOR
.... 1...			RBRSV162	BIT4 RESERVED
.... .1..			RBSASync	BIT5 ALLOW ASYNCHRONOUS INTERRUPTS
.... ..11			RBSIOPRC	BIT6+BIT7 I/O PROCESSING OPTION. BOTH BITS OFF MEANS QUIESCE I/O. BOTH BITS ON IS NOT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... .1.		RBSNOIOP	DEFINED. BIT6 BYPASS I/O
153	(99) A-ADDRESS	3	RBSHALT RBSPARMA	INTERVENTION BIT7 HALT I/O ADDRESS OF PARAMETER LIST FOR STA EXIT
156	(9C) A-ADDRESS	4	RBSOWNR	TCB/RB ADDRESS CONTROLLING THIS SCB
156	(9C) BITSTRING	1	RBSFLG52	SECOND FLAG BYTE
	1...		RBERSV163	BIT0 RESERVED
	.1..		RBSXCTL2	BIT1 RETAIN THIS SCB ACROSS XCTL
	..1.		RBERSV164	BIT2 RESERVED
	...1		RBSINUSE	BIT3 THIS SCB IN USE
	.... 1...		RBERSV165	BIT4 RESERVED
	.... .1..		RBERSV166	BIT5 RESERVED
	.... .1.		RBSKEY0	BIT6 USER IN KEY 0
	.... ...1		RBSUPER	BIT7 USER IN SUPERVISOR MODE
157	(9D) A-ADDRESS	3	RBSOWNRA	RB ADDRESS IF STAE/STAR, TCB ADDRESS IF STAI
160	(A0) SIGNED	4	RBSDATA	FLAGS AND DATA FIELD
160	(A0) BITSTRING	1	RBSFLG3	OPTION FLAGS
	1...		RBERSV167	BIT0 RESERVED
	.1..		RBSTERMI	BIT1 AUTHORIZED FOR TERM PROCESSING
	..1.		RBSRECRD	BIT2 ERROR RECORD TO BE WRITTEN TO SYS1.LOGREC
	...1		RBSNCCEL	BIT3 SCB IS LOGICALLY CANCELED
	.... 1...		RBSPRNTR	BIT4 SCB IS PREVIOUSLY ENTERED
	.... .1..		RBSBRNTR	BIT5 BRANCH ENTERED SVC 60
	.... .1.		RBSTERMO	BIT6 TERM PROCESSING ONLY
	.... ...1		RBERSV168	BIT7 RESERVED
161	(A1) CHARACTER	1	RBSPKEY	PROGRAM KEY
162	(A2) CHARACTER	1	RBSID	SCB IDENTIFIER
163	(A3) HEX	1	RBERSV169	RESERVED
164	(A4) SIGNED	2	RBERSV148	RESERVED

RB

RB

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
166	(A6) HEX	1	RBRVS149	RESERVED
167	(A7) BITSTRING	1	RBRVS150	RESERVED
	1... ..		RBRVS151	X'80',,C'X'
	.1..		RBRVS152	RESERVED
	..1.		RBRVS153	X'40',,C'X'
	...1		RBRVS154	RESERVED
	.... 1...		RBRVS155	X'20',,C'X'
	.... .1..		RBRVS156	RESERVED
	.... ..1.		RBRVS157	X'10',,C'X'
	.... ...1		RBRVS158	RESERVED
				RESERVED
168	(A8) SIGNED	4	SIRBEND	END OF SIRB MDC021-
168	(A8) SIGNED	4	RBFE Parm(6)	PARAMETER AREA FOR ROUTINES THAT USE FESTAE AND DEFAULT TO USE THIS AREA (I.E., DO NOT CODE PARAM=)
192	(C0) SIGNED	4	SVRBEND	END OF SVRB (BOTH)
12	(C) A-ADDRESS	4	RBCDE	SAME AS RBCDE1 BELOW
12	(C) BITSTRING	1	RBCDFLGS	CONTROL FLAGS
	1... ..		RBNOCCELL	BIT0 EXIT SHOULD FREEMAIN THIS SVRB RATHER THAN FREECELL
	.1..		RBRVS009	BIT1,,C'X'
	..1.		RBCDATCH	RESERVED
	...1		RBCDSAVE	BIT2 CONTENTS SUPERVISION HAS BEEN ENTERED VIA ATTACH
	.... 1...		RBCDNODE	BIT3 EXIT WILL LOAD REGISTERS FROM PRB ON RETURN FROM SYNCH TO ROUTINE
	.... .1..		RBCDSYNC	BIT4 NO DE SAVE AREA REQUIRED
				BIT5 SYNCH MACRO INSTRUCTION REQUESTED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... ..1.		RBCDXCTL	BIT6 XCTL MACRO INSTRUCTION REQUESTED
	.... ....1		RBCDLOAD	BIT7 LOAD MACRO INSTRUCTION REQUESTED
13	(D) A-ADDRESS	3	RBCDE1	ADDRESS OF CDE, ADDRESS OF LPDE OR ZERO (SEE COMMENTS FOR BIT RBTRSVRB)

24	(18) A-ADDRESS	4	RBSQE	SAME AS RBSQEA BELOW

24	(18) SIGNED	1		RBUSE CONTAINS ZEROS
25	(19) A-ADDRESS	3	RBSQEA	CHAIN OF SUPERVISOR QUEUE ELEMENTS (SQE'S) WHICH REPRESENT ASYNCHRONOUS SUPERVISOR SERVICE REQUESTS RELATED TO TCB UNDER WHICH TIRB IS PRESENTLY OPERATING (TIRB)

24	(18) A-ADDRESS	4	RBIQE	LIST ORIGIN FOR IQE (IRB)

24	(18) SIGNED	1	RBUSE	USE COUNT USED BY ATTACH (IRB)
25	(19) A-ADDRESS	3	RBIQE1	LIST ORIGIN FOR IQE (IRB)

24	(18) SIGNED	4	RBIQE2	

24	(18) SIGNED	4	RBIQEA	LIST ORIGIN FOR RQE (IRB WITH 4-BYTE LINK FIELD SEGMENT, SIRB)

96	(60) A-ADDRESS	4	RBNEXAV	ADDRESS OF NEXT AVAILABLE IQE (IRB)

100	(64) SIGNED	4	RBIQWRK	IQE WORK SPACE, VARIABLE LENGTH, MAXIMUM SIZE IS 1984 BYTES

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
(IRB)				
96	(60) CHARACTER	64	RBSIRBWA	SIRB WORK AREA
160	(A0) A-ADDRESS	4	RBRSV161	RESERVED RBRSV148 FOLLOWS THIS FIELD
	.1..		SIRBVALN	64 LENGTH OF RBSIRBWA

CROSS REFERENCE

IRBEND	96 (60)	RBLONGWT	-8 X'04'
FRBEND	104 (68)	RBEXAV	96 (60)
RBABEND	-8 X'20'	RBNOCELL	12 X'80'
RBABOPSW	4 (4)	RBOPSW	16 (10)
RDASIR	-8 X'08'	RBOPSWB2	17 (11)
RBATHXIT	10 X'02'	RBOPSHPS	17 X'01'
RBATTN	11 X'20'	RBFGHQ	24 (18)
RBCDATCH	12 X'20'	RBFGHQ1	25 (19)
RBCDE	12 (C)	RBFMVSRB	10 X'01'
RBCDE1	13 (D)	RBPPSAV	0 (0)
RBCDFLGS	12 (C)	RBPPSAV1	1 (1)
RBCDLOAD	12 X'01'	RBPRFX	0 (0)
RBCDNODE	12 X'08'	RBPRFXND	0 (0)
RBCDSAVE	12 X'10'	RBPRFXST	-32(-20)
RBCDSYHC	12 X'04'	RBRCENR	11 X'00'
RBCDXCTL	12 X'02'	RBRRER	0 X'03'
RBECBWT	11 X'01'	RBRVS004	-7 (-7)
RBEPE	12 (C)	RBRVS005	0 X'20'
RBETXR	11 X'10'	RBRVS009	12 X'40'
RBEXRTNM	0 (0)	RBRVS012	-64(-40)
RBEXSAVE	96 (60)	RBRVS013	-60(-3C)
RBFACTV	11 X'40'	RBRVS014	-56(-38)
RBFDYN	11 X'02'	RBRVS015	-54(-36)
RBFEFARM	168 (A8)	RBRVS016	-53(-35)
RBF LAGS1	-8 (-8)	RBRVS017	-52(-34)
RBFNVSVRB	10 X'10'	RBRVS018	-51(-33)
RBFTCKPT	10 X'04'	RBRVS019	-50(-32)
RBFTIRB	10 X'40'	RBRVS020	-50 X'80'
RBFTP	10 X'E0'	RBRVS021	-50 X'40'
RBFTFRB	10 X'00'	RBRVS022	-50 X'20'
RBFTSIRB	10 X'80'	RBRVS023	-50 X'10'
RBFTSVRB	10 X'CO'	RBRVS024	-50 X'08'
RBFTTIRB	10 X'60'	RBRVS025	-50 X'04'
RBGRSAVE	32 (20)	RBRVS026	-50 X'02'
RBGRS0	32 (20)	RBRVS027	-50 X'01'
RBGRS1	36 (24)	RBRVS028	-49(-31)
RBGRS10	72 (48)	RBRVS029	-49 X'80'
RBGRS11	76 (4C)	RBRVS030	-49 X'40'
RBGRS12	80 (50)	RBRVS031	-49 X'20'
RBGRS13	84 (54)	RBRVS032	-49 X'10'
RBGRS14	88 (58)	RBRVS033	-49 X'08'
RBGRS15	92 (5C)	RBRVS034	-49 X'04'
RBGRS2	40 (28)	RBRVS035	-49 X'02'
RBGRS3	44 (2C)	RBRVS036	-49 X'01'
RBGRS4	48 (30)	RBRVS037	-48(-30)
RBGRS5	52 (34)	RBRVS038	-44(-2C)
RBGRS6	56 (38)	RBRVS039	-40(-28)
RBGRS7	60 (3C)	RBRVS040	-38(-26)
RBGRS8	64 (40)	RBRVS041	-37(-25)
RBGRS9	68 (44)	RBRVS042	-37 X'80'
RBINLNTH	-3 (-3)	RBRVS043	-37 X'40'
RBINTCOA	-3 (-3)	RBRVS044	-37 X'20'
RBINTCOD	-2 (-2)	RBRVS045	-37 X'10'
RBIQE	24 (18)	RBRVS046	-37 X'08'
RBIQEA	24 (18)	RBRVS047	-37 X'04'
RBIQENR	11 X'08'	RBRVS048	-37 X'02'
RBIQETP	11 X'0C'	RBRVS049	-37 X'01'
RBIQEKRK	100 (64)	RBRVS050	-36(-24)
RBIQE1	25 (19)	RBRVS051	-32(-20)
RBIQE2	24 (18)	RBRVS052	-28(-1C)
RBIRBAER	11 X'04'	RBRVS053	-26(-1A)
RBIRBAIQ	11 X'0C'	RBRVS054	-25(-19)
RBLINK	28 (1C)	RBRVS055	-25 X'80'
RBLINKB	29 (1D)	RBRVS056	-25 X'40'

RB

RB

CROSS REFERENCE

RBRVS057	-25 X'20'	RBSIOPRC	152 X'03'
RBRVS058	-25 X'10'	RBSIREWA	96 (60)
RBRVS059	-25 X'08'	RBSIZE	8 (8)
RBRVS060	-25 X'04'	RBSKEYO	156 X'02'
RBRVS061	-25 X'02'	RBSLOCK	-8 X'80'
RBRVS062	-25 X'01'	RBSMOIOP	152 X'02'
RBRSV135	96 (60)	RBSO:NR	156 (9C)
RBRSV136	100 (64)	RBSO:NRRA	157 (9D)
RBRSV137	102 (66)	RBSPARM	152 (98)
RBRSV138	103 (67)	RBSPARMA	153 (99)
RBRSV139	103 X'80'	RBSPKEY	161 (A1)
RBRSV140	103 X'40'	RBSPRNTR	160 X'08'
RBRSV141	103 X'20'	RBSQE	24 (18)
RBRSV142	103 X'10'	RBSQEA	25 (19)
RBRSV143	103 X'08'	RBSRECRD	160 X'20'
RBRSV144	103 X'04'	RBSSSYN	-8 X'01'
RBRSV145	103 X'02'	RBSSTAI	152 X'80'
RBRSV146	103 X'01'	RBSSTAR	152 X'40'
RBRSV148	164 (A4)	RBSUPER	156 X'01'
RBRSV149	166 (A6)	RBSTAB	10 (A)
RBRSV150	167 (A7)	RBSTAB1	10 (A)
RBRSV151	167 X'80'	RBSTAB2	11 (B)
RBRSV152	167 X'40'	RBSTERMI	160 X'40'
RBRSV153	167 X'20'	RBSTERMO	160 X'02'
RBRSV154	167 X'10'	RBSXCTL2	156 X'40'
RBRSV155	167 X'08'	RBTCENXT	11 X'80'
RBRSV156	167 X'04'	RBTMCHP	0 X'08'
RBRSV157	167 X'02'	RBTMFLD	0 (0)
RBRSV158	167 X'01'	RBTMIND2	0 X'04'
RBRSV159	-8 X'10'	RBTMIND3	0 X'03'
RBRSV160	-16(-10)	RBTMQUE	0 X'80'
RBRSV161	160 (A0)	RBTMTOD	0 X'40'
RBRSV162	152 X'08'	RBTREQ	0 X'00'
RBRSV163	156 X'80'	RBT:SVRB	10 X'10'
RBRSV164	156 X'20'	RBUSE	24 (18)
RBRSV165	156 X'08'	RBUSIQE	11 X'10'
RBRSV166	156 X'04'	RBWAITP	10 X'08'
RBRSV167	160 X'80'	RBWCF	28 (1C)
RBRSV168	160 X'01'	RBWCSA	-4 (-4)
RBRSV169	163 (A3)	RBWLIM	0 X'10'
RBRTICIL	-16(-10)	RBWREQ	0 X'01'
RBRTILC	-15 (-F)	RBXWAIT	-8 X'40'
RBRTINCD	-14 (-E)	SIRBEND	168 (A8)
RBRTOPSW	-24(-18)	SIR:HALN	160 X'40'
RBRTPSW1	-24(-18)	SVRBEND	192 (C0)
RBRTPSW2	-16(-10)	TIRBEND	104 (68)
RBSTRAN	-12 (-C)	XRBACTV	11 X'40'
RBSASYNC	152 X'04'	XRBACKPT	10 X'04'
RBSBRNTR	160 X'04'	XRBEA	96 (60)
RBSCB	-8 X'02'	XRBFRRB	11 X'02'
RBSCEB	144 (90)	XRBLNK	28 (1C)
RBSCF	28 (1C)	XRBLHKA	29 (1D)
RBSCHAIN	144 (90)	XRBP:SW	16 (10)
RBSNCCEL	160 X'10'	XRBR:EG	32 (20)
RBSDATA	160 (A0)	XRBR:EG0	32 (20)
RBSDUMMY	152 X'20'	XRBR:EG1	36 (24)
RBSSESTAE	152 X'10'	XRBR:EG10	72 (48)
RBSEXIT	148 (94)	XRBR:EG11	76 (4C)
RBSFLGS1	152 (98)	XRBR:EG12	80 (50)
RBSFLGS2	156 (9C)	XRBR:EG13	84 (54)
RBSFLGS3	160 (A0)	XRBR:EG14	88 (58)
RBSHALT	152 X'01'	XRBR:EG15	92 (5C)
RBSID	162 (A2)	XRBR:EG2	40 (28)
RBSINUSE	156 X'10'	XRBR:EG3	44 (2C)

CROSS REFERENCE

XRREG4	48 (30)
XRREG5	52 (34)
XRREG6	56 (38)
XRREG7	60 (3C)
XRREG8	64 (40)
XRREG9	68 (44)
XRBCBP	11 X'80'
XREWAIT	11 X'01'
XREWT	28 (1C)
XSTAB	10 (A)
XSTAB1	10 (A)
XSTAB2	11 (B)

RCT

Common Name: System Resources Manager Resource Control Table

Macro ID: IRARCT

DSECT Name: RCT

Created by: Assembled into nucleus module IRARMCNS

Subpool and Key: Nucleus and Key 0

Size: 88 bytes

Pointed to by: Located at X'1F8' from beginning of RMCT data area

Serialization: SRM lock

Function: Contains constants and statistics used by the system resources manager resource monitor routine.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	88	RCT	RESOURCE CONTROL TABLE
0	(0) UNKNOWN	4	RCTRCT	ACRONYM IN EBCDIC RCT-

RESOURCE CONTROL CONSTANTS

4	(4) UNKNOWN	2	RCCUICTL	UIC THRESHOLD LOW
6	(6) UNKNOWN	2	RCCUICTH	UIC HIGH THRESHOLD
8	(8) UNKNOWN	2	RCCCPUTL	CPU LOW THRESHOLD
10	(A) UNKNOWN	2	RCCCPUTH	CPU HIGH THRESHOLD
12	(C) UNKNOWN	2	RCCPRTL	PAGING RATE LOW THRESHOLD
14	(E) UNKNOWN	2	RCCPTRH	PAGING RATE HIGH THRESHOLD
16	(10) UNKNOWN	2	RCCASMTL	ASM QUEUED REQUEST LOW THRESHOLD
18	(12) UNKNOWN	2	RCCASMTH	ASM QUEUED REQUEST HIGH THRESHOLD
20	(14) UNKNOWN	2	RCCTOTUT	AVERAGE DEFERRED IO UTIL THRESHOLD
22	(16) UNKNOWN	2	RCCLCHUT	LCH DEFERRED UTIL THRESHOLD
24	(18) UNKNOWN	2	RCCLCHRR	LCH REQ RATE THRESHOLD
26	(1A) UNKNOWN	2	RCCRSVF1	RESERVED
28	(1C) UNKNOWN	4	RCCRSVF2	RESERVED
32	(20) UNKNOWN	4	RCCRSVF3	RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
RESOURCE CONTROL VARIABLES				
36	(24)	UNKNOWN	2 RCVCTMC	SAMPLE INTERVALS COUNT
38	(26)	UNKNOWN	2 RCVUICA	UIC AVERAGE
40	(28)	UNKNOWN	2 RCVCPUA	CPU USAGE AVERAGE
42	(2A)	UNKNOWN	2 RCVAVQC	AVQ LOW COUNT
44	(2C)	UNKNOWN	2 RCVASHQA	ASM QUEUE LENGTH AVERAGE
46	(2E)	UNKNOWN	2 RCVPTR	PAGING RATE
48	(30)	UNKNOWN	4 RCVUICC	UIC ACCUMULATOR
52	(34)	UNKNOWN	4 RCVCPUC	CPU USAGE ACCUMULATOR
56	(38)	UNKNOWN	4 RCVAVQP	AVQ LOW COUNT SAVE AREA
60	(3C)	UNKNOWN	4 RCVASHQ	ASM QUEUE LENGTH ACCUMULATOR
64	(40)	UNKNOWN	4 RCVBPTCT	BASE PAGE FAULT COUNT
68	(44)	UNKNOWN	4 RCVBPTTM	BASE PAGE FAULT TIME
72	(48)	UNKNOWN	2 RCVTOTDF	AVERAGE DEFERRED IO UTILIZATION
74	(4A)	UNKNOWN	2 RCVRSVF1	RESERVED
76	(4C)	UNKNOWN	4 RCVTAPAD	LAST ALLOCATED TAPE
80	(50)	UNKNOWN	4 RCVRSVF2	RESERVED
84	(54)	UNKNOWN	4 RCVRSVF3	RESERVED
88	(58)	UNKNOWN	0 RCTEND	END OF RCT

RDCM

Common Name: DIDOCS Resident Display Control Module/Screen
Area Control Block
Macro ID: IEERDCM
DSECT Name: DCNTRT
Created by: SYSGEN (1 per graphic console)
Subpool and Key: NUCLEUS and key 0
Size: 60 bytes plus 45 bytes for each SACB
Pointed to by: UCHXB field of the UCME data area
Serialization: Local and CMS locks
Function: Contains console screen and support interface information. The SACB contains information concerning the out-of-line screen areas defined on this console.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	DCNTRT	DCNTRPTR
0	(0) A-ADDRESS	4	DCMADTRN	POINTER TO PAGABLE DCM
4	(4) CHARACTER	1		RESERVED
5	(5) BITSTRING ...1	1	DCMRFLGS DCMDOM	FLAGS X'10' DOM MUST BE TRIED
	.... 1...		DCMNIPP	X'08' DCM WAS USED BY NIP
6	(6) SIGNED	2	DCMLEN	LENGTH OF PAGABLE DCM
8	(8) A-ADDRESS	4	DCMADKP	ADDRESS OF ROUTED K COMMAND PARAMETER LIST
12	(C) CHARACTER	1	DCMTOPAR	TOP DISPLAY AREA DEFINED
13	(D) CHARACTER	1	DCMTOPDS	TOP DISPLAY ON SCREEN
14	(E) BITSTRING	1		RESERVED
15	(F) BITSTRING 1... .... .1..	1	DCMDEVTY DCMTY60 DCMTY50	DEVICE TYPE FLAGS X'80' USABLE FOR SD X'40' NOT USABLE FOR SD
16	(10) A-ADDRESS	4	DCMADSDS	POINTER TO FIRST SDS SUPPORT AREA
20	(14) CHARACTER	1	DCMRMS	NUMBER OF CCWS TO WRITE
21	(15) A-ADDRESS	3	DCMADRMS	POINTER TO RMS CCWS
24	(18) A-ADDRESS	4	DCM\LAST	PT CON Q ENTRY LAST OUT (O-O-L)
28	(1C) SIGNED	2	DCMRMSAL	NUMBER LINES IN MSG AREA

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
30	(1E) SIGNED	2	DCMDOMKY	CONSOLE DOM ELEMENT MC
32	(20) A-ADDRESS	4	DCMSUBAD	POINTER TO SUB CONTROL BLOCK
36	(24) A-ADDRESS	4	DCMADPFK	POINTER TO RESIDENT PFK AREA
40	(28) SIGNED	2	DCMINTVL	INTERVAL FOR THIS DCM
42	(2A) SIGNED	2	DCMTMCTR	TIME COUNTER FOR THIS DCM
44	(2C) BITSTRING 1... .. .1... .. ..1... .. ...1... 1... .... .1.	1	DCMR2FLG DCNRXSFL DCMRXUNV DCMRXTHR DCMRXRLL DCMRXDEL DCMRXTIM	TIMER FLAGS X'60' FULL SCREEN FLAG X'40' UNVIEWABLE MESSAGE DISPLAYED X'20' TIMER FLAG X'10' READY TO ROLL X'08' PENDING DELETE REQUEST X'02' TIMER ELAPSED FOR THIS DISPLAY
45	(2D) BITSTRING 1... .. .1... .. ..1... .. ...1... 1... .... .1.	1	DCNR3FLG DCMSTSWT DCMKVIP DCMCLPR DCMRXSCN DCMR3PKA DCMRXHMT	MISC FLAGS X'80' CHANGING STATUS OF OUTPUT ONLY CON X'40' ENTRY FOR K VARY COMMAND X'20' CLOSE IN PROCESS X'10' ASY ERROR MESSAGE ON SCREEN X'08' DA I/O COMPLETE X'04' FULL SCREEN SIMULATED MC RESERVED
46	(2E) SIGNED	2		
48	(30) A-ADDRESS	4	DCMRQDEL	DELETE REQUEST BUFFER
52	(34) A-ADDRESS	4		DELETE REQUEST BUFFER
56	(38) A-ADDRESS	4	DCMMSGSV	POINTER TO SAVED NIP MESSAGES
60	(3C) SIGNED	2	DCMPLN	SYSGEN LENGTH OF AREA

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
62	(3E) SIGNED	2	DCMPLNPR	LENGTH OF SACB PREFIX-IN BYTES
64	(40) A-ADDRESS	4	DCMACBNX	POINTER TO NEXT SACB
68	(44) CHARACTER	1	DCMAID	AREA ID
69	(45) BITSTRING 1... ..	1	DCMASACB DCMAUSE	SACB FLAGS X'80' AREA PRESENTLY DEFINED MB
=====				
IF DCMAUSE IS OFF, A SYSGEND AREA HAS BEEN FREED E.G. K A,NO				
	.1.. ..		DCMAGM	X'40' GETMAINED SACB
70	(46) SIGNED	2	DCMALN	LENGTH OF AREA
72	(48) SIGNED	1	DCMATOP	TOP ROW OF AREA
73	(49) SIGNED	1	DCMAROW	ROW TO BE WRITTEN NEXT
74	(4A) SIGNED	2	DCMAFR	FRAME ON SCREEN
76	(4C) A-ADDRESS	4	DCMAMJWQ	POINTER TO CON Q ENTRY FOR MAJOR
80	(50) A-ADDRESS	4	DCMAMIN	POINTER TO MINOR WQE
84	(54) SIGNED	4	DCMATIME	TIME CONTROL LINE WAS WRITTEN
88	(58) HEX	2	DCMAMT	RESERVED MB
90	(5A) HEX .1.. ..	1	DCMAFLG1 DCMADISP	AREA FLAGS1 X'40' DISPLAY IN AREA
	..1.		DCMADEND	X'20' END OF DISPLAY ON SCREEN
	...1		DCMAFRPR	X'10' FRAMING IN PROGRESS
	.... 1...		DCMAFULL	X'08' FRAME FULL
	.... .1..		DCMABL	X'04' BLANKING TO BE DONE
91	(5B) HEX 1... ..	1	DCMAFLG2 DCMALMIN	AREA FLAGS 2 X'80' SAVED POINTER TO LAST MINOR OUTPUT
	.1.. ..		DCMAWCON	X'40' WRITE CONTROL LINE
	..1.		DCMARCON	X'20' REWRITE CONTROL LINE
	...1		DCMAMJFR	X'10' MAJOR WQE HAS BEEN FOUND

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
92	(5C) HEX	1	DCMADFLG	DYNAMIC DISPLAY FLAGS MB
	1... ..		DCMADD	X'80' TRACK IN AREA MB
	.1.. ..		DCMAHOLD	X'40' TRACK IN HOLD MODE MB
	..1.		DCMACSIB	X'20' TRACK WITH CONTINUATION LINE IN SCREEN IMAGE BUFFER MB
93	(5D) HEX	1	DCMATRCK	TRACK REQUEST INDICATORS MB
	1... ..		DCMATJOB	X'80' TRACK JOBS MB
	.1.. ..		DCMATJBL	X'40' TRACK JOBS,LIST MB
	.... 1..		DCMATTS	X'08' TRACK TS MB
	.... .1..		DCMATTSL	X'04' TRACK TS,LIST MB
	1... 1..		DCMATA	X'88' TRACK A MB
	.1.. .1..		DCMATAL	X'44' TRACK A,LIST MB
94	(5E) HEX	2	DCMAUTME	UTME=NNN VALUE MB

96	(60) SIGNED	4	DCMATECB	TRACK CANCEL ECB ADDRESS MB

100	(64) SIGNED	4	DCMAPAD	RESERVED MB

104	(68) CHARACTER	1	DCMREND	END OF DCM

RMCA

Common Name: SRM Control Area

Macro ID: IRARMCA

DSECT Name: RMCA

Created by: Assembled into nucleus module, IRARMCNS

Subpool and Key: NUCLEUS and key 0

Size: 168 bytes

Pointed to by: RMCTRMCA field of the RMCT data area

Serialization: SRM lock

Function: Contains swap analysis variables used within SRM.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	168	RMCA	
0	(0) UNKNOWN	4	RMCA NAME	BLOCK IDENTIFICATION 'RMCA'
4	(4) UNKNOWN	2	RMCA R04	RESERVED
6	(6) UNKNOWN	2	RMCA INUS	COUNT OF IN-CORE USERS
8	(8) UNKNOWN	2	RMCA RSV1	RESERVED
10	(A) UNKNOWN	2	RMCA RSV2	RESERVED
12	(C) UNKNOWN	4	RMCA TQS	SYSTEM QUIESCE TIME
16	(10) UNKNOWN	4	RMCA TRS	SYSTEM RESTART TIME
20	(14) UNKNOWN	4	RMCA TOI	TIME OF EXPECTD INTERRUPT
24	(18) UNKNOWN	4	RMCA RSV3	RESERVED
28	(1C) UNKNOWN	4	RMCA RSV4	RESERVED
32	(20) UNKNOWN	4	RMCA RSV5	RESERVED
36	(24) UNKNOWN	4	RMCA FLGS	SAVEAREA AVAIL. FLAGS SIXTH LVL SAVEAREA AVAIL. FLG
	1... ..		RMCA SAAF	
	.111 1111			
	1111 1111			
	1111 1111			
	1111 1111		RMCA RSVF	RESERVED
40	(28) UNKNOWN	4	RMCA RSV7	RESERVED
44	(2C) UNKNOWN	4	RMCA RSV8	RESERVED
48	(30) UNKNOWN	4	RMCA CHP	CHAP LIST FOR SNAP
52	(34) UNKNOWN	4	RMCA CHU	USER CHAPPED FOR SWAP

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
56	(38) UNKNOWN	4	RMCARSV9	RESERVED
60	(3C) UNKNOWN	4	RMCAR10	RESERVED
64	(40) UNKNOWN	4	RMCAINV	RTHE INVOCATION WORK AREA
68	(44) UNKNOWN	2	RMCAR11	RESERVED
70	(46) UNKNOWN	2	RMCAISV	ISV REC. VALUE BOOST
72	(48) UNKNOWN	1	RMCALGPG	DEF LOGON PERF GRP #
73	(49) UNKNOWN	1	RMCABCPG	DEF BATCH PERF GRP #
74	(4A) UNKNOWN	2	RMCAR20	RESERVED
76	(4C) UNKNOWN	4	RMCAMAS	ASCB ADDR FOR MASTER SCHEDULR
80	(50) UNKNOWN	32	RMCAWKA	NONRESIDENT RTN WORKAREA
112	(70) UNKNOWN	4	RMCAR13	RESERVED
116	(74) UNKNOWN	2	RMCAR14	RESERVED
118	(76) UNKNOWN	2	RMCACIUS	CT OF USERS COMING IN
120	(78) UNKNOWN	4	RMCACPH1	CAP WORK AREA
124	(7C) UNKNOWN	40	RMCASRC	SWAP OUT REASON CNTS.
124	(7C) UNKNOWN	4	RMCATOSC	TERMINAL OUTPUT SWAP COUNT
128	(80) UNKNOWN	4	RMCATISC	TERMINAL OUTPUT SWAP COUNT
132	(84) UNKNOWN	4	RMCALHSC	LONG WAIT SWAP COUNT
136	(88) UNKNOWN	4	RMCAXSSC	AUT STOR SHORTAGE SWAP COUNT
140	(8C) UNKNOWN	4	RMCARSSC	REAL STOR SHORTAGE SWAP COUNT
144	(90) UNKNOWN	4	RMCADWSC	DETECTED WAIT SWAP COUNT
148	(94) UNKNOWN	4	RMCARQSC	REQSWAP SWAP COUNT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>	
152	(98)	UNKNOWN	4	RMCAEQSC	CAP ENQ EXCHANGE SWAP COUNT
156	(9C)	UNKNOWN	4	RMCAEXSC	CAP EXCHANGE BASED ON RECOMM. VALUE SWAP COUNT
160	(A0)	UNKNOWN	4	RMCAUSSC	CAP UNILATERAL SWAP OUT COUNT
164	(A4)	UNKNOWN	4	RMCA90	RESERVED
168	(A8)	UNKNOWN	0	RMCAEND	END OF RMCA

RMCTCommon Name: SRM Control TableMacro ID: IRARMCTDSECT Name: RMCTCreated by: Assembled into nucleus module, IRARMCNSSubpool and Key: NUCLEUS and key 0Size: 192 bytesPointed to by: CVTOPCTP field of the CVT data areaSerialization: SRM lockFunction: Serves as the origin to locate SRM tables and entry points.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	192	RMCT	
0	(0) UNKNOWN	4	RMCTNAME	BLOCK IDENTIFICATION 'RMCT'
4	(4) UNKNOWN	4	RMCTCCT	CPU MGMT CONTROL TABLE
8	(8) UNKNOWN	4	RMCTICT	I/O MGMT CONTROL TABLE
12	(C) UNKNOWN	4	RMCTMCT	STORAGE MGMT CONTROL TABLE
16	(10) UNKNOWN	4	RMCTRMPT	CTL ALGORITHM PARAMETER TBL
20	(14) UNKNOWN	4	RMCTRMCA	CTL ALGORITHM CONTROL AREA
24	(18) UNKNOWN	4	RMCTWMST	WLM SPECIFICATION TABLE
28	(1C) UNKNOWN	4	RMCTRLCT	LOGICAL CHANNEL MGMT TABLE
32	(20) UNKNOWN	4	RMCTRMSA	RESOURCES MANAGER SAVE AREA
36	(24) UNKNOWN	4	RMCTRMPD	RESOURCES MANAGER PERF DATA
40	(28) UNKNOWN	4	RMCTRMEX	ROUTINE EXITING VECTOR TABLE
44	(2C) UNKNOWN	4	RMCTRMSB	SUBRTNE CALLING VECTOR TABLE
48	(30) UNKNOWN	4	RMCTEPPA	PRTL ANALYSIS ENTRY TABLE

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
52	(34) UNKNOWN	4	RMCTEPTD	USER ACTION ENTRY TABLE
56	(38) UNKNOWN	4	RMCTEPAT	ALGORITHM ENTRY TABLE
60	(3C) UNKNOWN	4	RMCTEPBG	BEGIN ALG ENTRY PT TABLE
64	(40) UNKNOWN	4	RMCTADJC	CPU RATE ADJUSTMENT
68	(44) UNKNOWN	4	RMCTITT	EVENT CHARACTERISTICS TABLE
72	(48) UNKNOWN	4	RMCTEPET	EVENT ROUTING VECTOR TABLE
76	(4C) UNKNOWN	4	RMCTFLTM	TIME OF DAY DEPENDENT TABLE
80	(50) UNKNOWN	4	RMCTEPPR	PROCESS RATE DEPENDENT TABLE
84	(54) UNKNOWN	4	RMCTWAST	WAR SPECIFICATION TABLE
88	(58) UNKNOWN	4	RMCTWAMT	WAR MEASUREMENT TABLE
92	(5C) UNKNOWN	4	RMCTTMQE	SCHED RTNE QUEUE HEAD ADDR
96	(60) UNKNOWN	4	RMCTAQCT	ACTION QUEUE MEMBER COUNT
100	(64) UNKNOWN	4	RMCTAQHD	ACTION QUEUE FORWARD POINTER
104	(68) UNKNOWN	4	RMCTWTQE	WAIT QUEUE HEADER ADDRESS
108	(6C) UNKNOWN	4	RMCTOTQE	OUT QUEUE HEADER ADDRESS
112	(70) UNKNOWN	4	RMCTINQE	IN QUEUE HEADER ADDRESS
116	(74) UNKNOWN	4	RMCTR10	RESERVED
120	(78) UNKNOWN	4	RMCTTBS	SRM TIME OF DAY BASE
124	(7C) UNKNOWN	4	RMCTTOD	CURRENT TIME OF DAY

RMCT

RMCT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
128	(80) UNKNOWN	8	RMCTTOC	CURR TIME OF CENTURY
136	(88) UNKNOWN	4	RMCTALA	ALG REQUEST ACCUMULATOR
140	(8C) UNKNOWN	4	RMCTALR	IMMED ALG REQUEST ACCUMUL
144	(90) UNKNOWN	4	RMCTRQSV	REQ SERVICE WORK AREA
148	(94) UNKNOWN	4	RMCTFLGS	PROCESSING CONTROL FLAGS
	1... ..		RMCTMFA	MEASUREMENT FACILITY ACTIVE
	.1.. ..		RMCTCPS1	CAP SWITCH
	..1.		RMCTF03	RESERVED
	...1		RMCTINIT	SRM INITIALIZATION DONE
	.... 1..		RMCTRSV1	RESERVED
	.... .1..		RMCTSTW	SET STOPPED
	.... ..1.		RMCTRSV2	WAR COLLECTION
	.... ...1		RMCTF06	RESERVED
	1...		RMCTF07	RESERVED
	.1..		RMCTNFS	MF1 ACT.,SET
	..11 1111			IPS RCVD
	1111 1111			
	1111 1111		RMCTF09	RESERVED
152	(98) UNKNOWN	4	RMCTTELM	RSRC MANAGER TIMING ELEMENT
156	(9C) UNKNOWN	4	RMCTCPID	RSRC MANAGER CELL PCOL ID
160	(A0) UNKNOWN	8	RMCTTOCI	TOD CLOCK READ AREA
168	(A8) UNKNOWN	4	RMCTOUCB	PREASSEMBLED MODEL OUCB
172	(AC) UNKNOWN	4	RMCTOUXB	INTERFOSED DUMMY OUXB
176	(B0) UNKNOWN	4	RMCTSRBT	PREBUILT SRB TABLE
180	(B4) UNKNOWN	4	RMCTDMDT	ADDR OF DOMAIN TABLE
184	(B8) UNKNOWN	4	RMCTOMDE	ADDR OF LAST DMDT ENT
188	(BC) UNKNOWN	2	RMCTDINC	NUMBER OF DOMAINS
190	(BE) UNKNOWN	2	RMCTR50	RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
192	(C0) UNKNOWN	0	RMCTEND	END OF RMCT

RMEPCommon Name: SRM Entry Point BlockMacro ID: IRARMEPDSECT Name: RMEPCreated by: Assembled into nucleus module, IRARMCNSSubpool and Key: Nucleus and key 0Size: 32 bytesPointed to by: RRPAEPA field of the RRPA data areaSerialization: SRM lock

Function: Designates a SRM processing routine that may be invoked through SRM control; contains the routine entry point address, defines the bit mask to be used to request the routine, and optionally provides for periodic execution of the routine. Contains flags indicating how the described routine may be invoked.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	32	RMEP	
0	(0) UNKNOWN	16	RMEPEPB	ENTRY POINT BLOCK
0	(0) UNKNOWN	4	RMEPEPA	ENTRY POINT ADDRESS
4	(4) UNKNOWN	4	RMEPERA	ERROR RETRY POINT ADDRESS
8	(8) UNKNOWN	4	RMEPFLG	INVOCATION FLAG MASK
	1111 1111		RMEPVFL	RTNE INVOC FLAG FIELD
	1111 1111		RMEPRCR	CRITICAL ALGORITHM INDICATOR
	1111 1111		RMEPTMD	RTNE INVOC TIME-DEPENDENT
	1111 1...		RMEPACN	RTNE PERFORMS USER LEVL ACTN
	.... .1..			
	.... ...1.			
	.... ...1			
12	(C) UNKNOWN	4	RMEPPRV	ADDRESS OF PREV RMEP BLOCK
16	(10) UNKNOWN	0	RMEPEND	END OF BASE RMEP
16	(10) UNKNOWN	16	RMEPSCH	SCHEDULING EXTENSN
16	(10) UNKNOWN	4	RMEPFWD	TIME DRIVEN CHAIN FORWARD PTR
20	(14) UNKNOWN	4	RMEPBCK	TIME DRIVEN CHAIN BCKWRD PTR

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
24	(18) UNKNOWN	4	RMEPTME	TIME WHEN ENTRY SCHED

28	(1C) UNKNOWN	4	RMEPINT	INVOCATION INTERVAL

32	(20) UNKNOWN	0	RMEPSND	END OF SCHED RMEP

RMEXCommon Name: SRM External Entry Point Descriptor TableMacro ID: IRARMEXDSECT Name: RMEXCreated by: Assembled into nucleus module, IRARMCNSSubpool and Key: NUCLEUS and Key 0Size: 64 bytesPointed to by: RMCTRMEX field of the RMCT data areaSerialization: SRM lockFunction: Contains the entry point descriptions of all externally entered branch points (routines that do not return control) within the SRM. The IRACTLCL macro keys off the RMEX displacements to route control to the requested point.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	64	RMEX	
0	(0) UNKNOWN	16	RMEPBVT	PERFORM SYSEVENT PROCESS
0	(0) UNKNOWN	4	RMEXEVT	EVT RTNE ENTRY POINT ADDRESS
16	(10) UNKNOWN	16	RMEPBCTL	ROUTE CONTROL WITHIN SRM
16	(10) UNKNOWN	4	RMEXCTL	CTL RTNE ENTRY POINT ADDRESS
32	(20) UNKNOWN	4	RMEXI01	NORM EXIT FROM SRM PROCESSING
36	(24) UNKNOWN	4	RMEXCXX	RESERVED
40	(28) UNKNOWN	4	RMEXCET	SRM TIMEREXP PROCESS ENTRY PT
44	(2C) UNKNOWN	4	RMEXI48	SRM SYSEVENT PROCESS ENTRY PT
48	(30) UNKNOWN	4	RMEXRR1	RECOVERY RTNE IF W/O SRM LOCK
52	(34) UNKNOWN	4	RMEXRR2	RECOVERY RTNE IF HAV SRM LOCK
56	(38) UNKNOWN	4	RMEXXPE	RECOVERY RTNE IF XM-POST FAIL
60	(3C) UNKNOWN	4	RMEXSRE	RECOVERY RTNE IF SRM SRB PURG

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
64	(40)	UNKNOWN	0 RMEXEND	END OF RMEX TABLE

RMPT

Common Name: SRM Parameter Table

Macro ID: IRARMPT

DSECT Name: RMPT

Created by: Assembled into nucleus module, IRARMCNS

Subpool and Key: NUCLEUS and key 0

Size: 72 bytes

Pointed to by: RMCTRMPT field of the RMCT data area

Serialization: SRM lock

Function: Contains certain values and SRM external parameters used by SRM control to determine the criteria and frequency of SRM analysis.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	72	RMPT	
0	(0) UNKNOWN	4	RMPTNAME	BLOCK IDENTIFICATION 'RMPT'
4	(4) UNKNOWN	4	RMPTCPU	CPU RESOURCE FACTOR
8	(8) UNKNOWN	4	RMPTIOC	I/O RESOURCE FACTOR
12	(C) UNKNOWN	4	RMPTERV	ENQ RESIDENCE INTERVAL VALUE
16	(10) UNKNOWN	4	RMPTIMN	MIN INTERVAL SERVICE VALUE
20	(14) UNKNOWN	4	RMPTTCS	SYSTEM CLOCK STEP TIME
24	(18) UNKNOWN	4	RMPTTOM	TIME DRIVEN MINIMUM TOLERANCE
28	(1C) UNKNOWN	4	RMPTTOL	TIME DRIVEN INVOKE TOLERANCE
32	(20) UNKNOWN	4	RMPTRSV1	RESERVED
36	(24) UNKNOWN	2	RMPTRSV2	RESERVED
38	(26) UNKNOWN	2	RMPTRSV3	RESERVED
40	(28) UNKNOWN	4	RMPTXCHT	SWAP EXCHANGE THRESH.
44	(2C) UNKNOWN	4	RMPTSAET	SWAP ANAL. EVALUATION THRES. (UNSIGNED TIME VALUE)

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
48	(30)	UNKNOWN	4 RMPTWMET	WLM EVALUATION THRESH (UNSIGNED TIME VALUE
52	(34)	UNKNOWN	4 RMPTCPET	CPU EVALUATION THRESHOLD UNSIGNED TIME VALUE
56	(38)	UNKNOWN	4 RMPTIOET	I/O EVALUATION THRESHOLD UNSIGNED TIME VALUE
60	(3C)	UNKNOWN	3 RMPTOPC	CPU RESOURCE FACTOR
63	(3F)	UNKNOWN	3 RMPTOPI	COEFFICIENT I/O RESOURCE FACTOR
66	(42)	UNKNOWN	6 RMPTOPE	COEFFICIENT ENQ RES CPU SERV VALU
72	(48)	UNKNOWN	0 RMPTEND	END OF RMPT

RMSBCommon Name: SRM Subroutine Vector TableMacro ID: IRARMSBDSECT Name: RMSBCreated by: Assembled into nucleus module, IRARMCNSSubpool and Key: NUCLEUS and Key 0Size: 120 bytesPointed to by: RMCTRMSB field of the RMCT data areaSerialization: SRM lock

Function: Contains the entry point addresses of all externally entered subroutines (routines which return control to the invoker) within the system resources manager. The IRACTLCL macro Keys off the RMSB displacements to route control to the requested subroutine.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	120	RMSB	
0	(0) UNKNOWN	4	RMSBI02	INVOKE ASCBCHAP SERVICE RTNE
4	(4) UNKNOWN	4	RMSBI03	INVOKE REAL FRAME STEAL RTNE
8	(8) UNKNOWN	4	RMSBI04	INVOKE STORAGE GET/FREE RTNE
12	(C) UNKNOWN	4	RMSBI05	INVOKE TIME INTERVL SET RTNE
16	(10) UNKNOWN	4	RMSBI06	INVOKE QUIESCE FOR SWAPOUT
20	(14) UNKNOWN	4	RMSBI07	INVOKE SCHEDULE OF SWAP-IN
24	(18) UNKNOWN	4	RMSBR24	RESERVED
28	(1C) UNKNOWN	4	RMSBI09	INVOKE RECORD TO OPERATOR
32	(20) UNKNOWN	4	RMSBI10	INVOKE ABNORMAL TERMINATION
36	(24) UNKNOWN	4	RMSBCRL	RECEIVE SYS ALGRTHM REQUEST
40	(28) UNKNOWN	4	RMSBCRN	RECEIVE USER ACTION REQUEST
44	(2C) UNKNOWN	4	RMSBCRY	RECEIVE USER ANLYZE REQUEST

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
48	(30)	UNKNOWN	4 RMSBWM5	CHECK USER FOR PERIOD CHANGE
52	(34)	UNKNOWN	4 RMSBWM1	CALCULAT USER SERVICE AMOUNT
56	(38)	UNKNOWN	4 RMSBWM4	CALCULAT USER NORMALIZD LEVL
60	(3C)	UNKNOWN	4 RMSBWMK	DETERMINE ANLZ APPLICABILITY
64	(40)	UNKNOWN	4 RMSBWMN	START A NEW USER TRANSACTION
68	(44)	UNKNOWN	4 RMSBWM0	STOP CURRNT USER TRANSACTION
72	(48)	UNKNOWN	4 RMSBWMQ	PROCESS QUIESCE CMPLT EVENT
76	(4C)	UNKNOWN	4 RMSBWMR	PROCESS RESTORE CMPLT EVENT
80	(50)	UNKNOWN	4 RMSBWMY	PROCESS SYSTEM TIME ADJUST
84	(54)	UNKNOWN	4 RMSBTRC	ADDR OF ADDR TO TRACE SRM INVOKES
88	(58)	UNKNOWN	4 RMSBWR4	CALCULATE ACTIVITY MEASRINT
92	(5C)	UNKNOWN	4 RMSBWR6	RECALCULATE ACTIVITY RATE
96	(60)	UNKNOWN	4 RMSBSET	PROCESS NEHIPS SYSEVENT RTN
100	(64)	UNKNOWN	4 RMSBNOP	RETURN TO INVCKING ROUTINE
104	(68)	UNKNOWN	4 RMSBRA6	RESERVED
108	(6C)	UNKNOWN	4 RMSBCLO	ADJ CPU UTIL WHEN SWAP USER
112	(70)	UNKNOWN	4 RMSBILO	COMPUTE USER I/C PROFILE
116	(74)	UNKNOWN	4 RMSBRA9	RESERVED
120	(78)	UNKNOWN	0 RMSBEND	END OF RMSB TABLE

RPL

Common Name: Request Parameter List

Macro ID: IFGRPL

DSECT Name: IFGRPL

Created by: User via the RPL macro instruction

Subpool and Key: 250 and user's key

Size: 76 bytes

Pointed to by: Register 1 for use by REQUEST processing routines
PLHMRPL field of the PLH data area

Serialization: The RPLACTIV field prevents concurrent use of the RPL.

Function: Contains user-request information and error feedback information. Also maintains information required by the GET and PUT macro instructions.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	IFGRPL	REQUEST PARAMETER LIST

0	(0) HEX	1	RPLID RPLIDD	RPL IDENTIFIER X'00' IDENTIFIER VALUE X'00'
1	(1) HEX ...1 .......1 ...1 ..1. .... .1.. 1111 1111	1	RPLSTYP RPLSVSAM RPLSVRP RPLSVTAM RPLS3540 RPLCRID	RPL SUBTYPE SET TO X'00' FOR DATA MANAGEMENT AND X'00' FOR JECS X'10' VSAM SUBTYPE X04SVHS X'11' VRP SUBTYPE X04SVHS X'20' VTAM SUBTYPE X04SVHS X'40' 3540 SUBTYPE X04SVHS X'FF' CRPL ID (VTAM)
2	(2) HEX 1111.1111	1	RPLREQ RPLGET RPLPUT RPLPOINT RPLERASE RPLJSFHT	RPL REQUEST TYPE X'00' GET X'01' PUT X'03' POINT X'05' ERASE X'07' JES FORMAT REQUEST

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
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THE FOLLOWING CODES ARE NOT STORED IN RPLREQ, BUT ARE AVAILABLE IN REGISTER 0 WHEN THE FUNCTION IS ENTERED AND STORED IN RPLREQ DURING PROCESSING OF THE FUNCTION.

....	.1.		RPLCHECK	X'02' CHECK
....	.1..		RPLENDRE	X'04' ENDREQ
....	.11.		RPLVERIF	X'06' VERIFY
....	.111		RPLMPRT	X'07' IMPORT
....	1...		RPLPFMTD	X'08' DATA PREFORMAT
....	1..1		RPLPFMTI	X'09' INDEX PREFORMAT
....	1.1.		RPLFRCIO	X'0A' FORCE I/O
...1	...1		RPLWRITE	X'11' WRITE(VTAM)
...1	.1.1.		RPLRESET	X'12' RESET(VTAM)
...1	.111		RPLDO	X'13' DO(VTAM)
...1	.1.1		RPLQUISE	X'15' SETLOGON(VTAM)
...1	.11.		RPLSMLGO	X'16' SIMLOGON(VTAM)
...1	.111		RPLPNDS	X'17' OPNDST(VTAM)
...1	1..1		RPLCHNG	X'19' CHANGE(VTAM)
...1	1.1.		RPLINQIR	X'1A' INQUIRE(VTAM)
...1	1.11		RPLINTPT	X'1B' INTERPRET(VTAM)
...1	11.1		RPLREAD	X'1D' READ(VTAM)
...1	111.		RPLSLICT	X'1E' SOLICIT(VTAM)
...1	1111		RPLCLOSE	X'1F' CLSDST(VTAM)
..1.	...1		RPLCLACB	X'21' CLOSEACB(VTAM)
..1.	.1.1.		RPLSNDCD	X'22' SEND(VTAM)
..1.	.1.11		RPLRCVCD	X3004BS X'23' RECEIVE(VTAM)
..1.	.1..		RPLRSRCD	X3004BS X'24' RESETSR(VTAM)
..1.	.1.1		RPLSSCCD	X3004BS X'25' SESSIONC(VTAM)
3	(3) HEX	1	RPLLEN	X3004BS LENGTH OF THIS RPL
3	(3) HEX	1	RPLLEN2	ALTERNATE NAME FOR RPLLEN
4	(4) A-ADDRESS	4	RPLPLHPT	POINTER TO LAST RECORD PROCESSED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
8	(8) A-ADDRESS	4	RPLECB	INTERNAL ECB OR POINTER TO EXTERNAL ECB
=====				
ECB FLAGS				
	1... ..		RPLWAIT	X'80' A REQUEST HAS BEEN ISSUED
	.1.. ..		RPLPOST	X'40' THE REQUEST HAS COMPLETED

12	(C) HEX	4	RPLFDBWD	FEEDBACK WORD X04SVHS

12	(C) HEX	1	RPLSTAT	CURRENT RPL STATUS
13	(D) HEX	3	RPLFDBK	ERROR FEEDBACK
13	(D) HEX	1	RPLRTNCD	RPL RETURN CODE
	.... ..		RPLNOERR	X'00' NORMAL RETURN
	.... .1..		RPLBLKER	X'04' INVALID CONTROL BLOCK
	.... .1..		RPLCBLKE	X'04' ALTERNATE NAME FOR RPLBLKER
	.... 1...		RPLLOGER	X'08' ILLOGICAL REQUEST
	.... 1...		RPLLOGIC	X'08' ALTERNATE NAME FOR RPLLOGER
	.... 11..		RPLPHYER	X'0C' PHYSICAL I/O ERROR
	.... 11..		RPLPHYSC	X'0C' ALTERNATE NAME FOR RPLPHYER
	...1		RPLNGRCC	X'10' A CONDITIONAL COMMAND WAS ISSUED BUT THE CONDITION WAS NOT MET(VTAM)
	...1 .1..		RPLSPECC	X'14' A TEMPORARY OUT-OF-CORE SITUATION EXISTS(VTAM)
	...1 1...		RPLCMDRT	X'18' THE REQUEST WAS CANCELLED BY THE RESET COMMAND(VTAM)
	...1 11..		RPLPURGE	X'1C' THE COMMAND WAS PURGED(VTAM)
	..1.		RPLVTHNA	X'20' VTAM IS NOT ACTIVE(VTAM)

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
...	...		RPLSYERR	X'24' SYSTEM ERROR(VTAM)
...	1...		RPLDEVDC	X'28' DIAL LINE IS DISCONNECTED(VTAM)
...	11..		RPLLMEX	X'2C' RESPONSE LIMIT EXCEEDED(VTAM)
...	....		RPLXRQ	X3004BS X'30' EXCEPTION REQUEST RECEIVED(VTAM)
...	...		RPLXRS	X3004BS X'34' EXCEPTION RESPONSE RECEIVED(VTAM)
...	1...		RPLNOIN	X3004BS X'38' NO INPUT AVAILABLE(VTAM)
...	11..		RPLVABND	X3004BS X'3C' VTAM ENCOUNTERED ABEND CONDITION
13	(D) HEX	1	RPLERREG	ALTERNATE NAME FOR RPLRTNCD
14	(E) HEX	2	RPLCNDCD	RPL CONDITION CODE
14	(E) HEX	1	RPLCMPON	COMPONENT ISSUING CODE(VSAM)
14	(E) HEX	1	RPLFDB2	REASON CODE(VTAM)
1...	....		RPLERLK	X'80' ERROR LOCK SET
...	....		RPLRVID	X'40' RVI RECEIVED
...	....		RPLATND	X'20' ATTN RECEIVED
...	....		RPLDVUNS	X'10' DEVICE UNUSABLE
...	1...		RPLIOERR	X'08' I/O ERROR TYPE-0=INPUT/1=OUTPUT
...	...		RPLDLGFL	X'04' DIALOG INIT FAILED
...	...		RPLCUERR	X'02' CONTROL UNIT FAILURE
...	...		RPLSTSAV	X'01' SENSE BYTES PRESENT
15	(F) HEX	1	RPLERRCD	ERROR CODE(VSAM)
15	(F) HEX	1	RPLFDB3	DATA FLAGS(VTAM)
1...	....		RPLUINPT	X'80' UNSOLICITED INPUT
...	....		RPLSV32	X'40' RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
..1.			RPLREOB	X'20' END OF BLOCK
...1			RPLREOM	X'10' END OF MESSAGE
.... 1...			RPLREOT	X'08' END OF TRANSMISSION
.... .1..			RPLLGFRG	X'04' LOSOFF DETECTED
.... ..1.			RPLRLG	X'02' LEADING GRAPHICS RECEIVED
.... ...1			RPLRDSOH	X'01' START OF HEADER (SOH) RECEIVED

16	(10) SIGNED	2	RPLKEYLE	KEY LENGTH (PROC=GEN)

16	(10) SIGNED	2	RPLKEYL	ALTERNATE NAME FOR RPLKEYLE
18	(12) SIGNED	2	RPLSTRID	CCW STRING IDENTIFIER

20	(14) A-ADDRESS	4	RPLCCHAR	POINTER TO CONTROL CHARACTER FOR UNIT RECORD DEVICES

24	(18) A-ADDRESS	4	RPLDACB	POINTER TO DATA ACB

28	(1C) A-ADDRESS	4	RPLTCBPT	POINTER TO TCB

32	(20) A-ADDRESS	4	RPLAREA	POINTER TO AREA CONTAINING DATA RECORD

36	(24) A-ADDRESS	4	RPLARG	POINTER TO SEARCH ARGUMENT; POINTER TO RELATIVE ADDRESS FOR POINT OPERATION

36	(24) HEX	2	RPLSAF	SOURCE ADDRESS FIELD(VTAM)
38	(26) HEX	2	RPLDAF	DESTINATION ADDRESS FIELD(VTAM)

40	(28) BITSTRING	4	RPLOPTCD	OPTION CODES

40	(28) BITSTRING 1...	1	RPLOPT1 RPLLOC	OPTION BYTE 1 X'80' LOCATE MODE; MOVE MODE IF 0
	.1...		RPLDIR	X'40' DIRECT ACCESS

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.1.			RPLSEQ	X'20' SEQUENTIAL ACCESS
...1			RPLSKP	X'10' SKIP SEQUENTIAL ACCESS
.... 1...			RPLASY	X'08' ASYNCHRONOUS PROCESSING
.... .1..			RPLKGE	X'04' SEARCH KEY GT/EQ
.... .1.			RPLGEN	X'02' GENERIC KEY REQUEST
.... ...1			RPLECBSW	X'01' EXTERNAL ECB
.... ...1			RPLECBIN	X'01' ALTERNATE NAME FOR RPLECBSW
41 (29) BITSTRING		1	RPLOPT2	OPTION BYTE 2
1...			RPLKEY	X'80' KEYED ACCESS
.1..			RPLADR	X'40' ADDRESSED ACCESS
.1..			RPLADD	X'40' ALTERNATE NAME FOR RPLADR
..1.			RPLCNV	X'20' CONTROL INTERVAL ACCESS
...1			RPLBWD	X'10' FWD=0/BWD=1 X04SVHS
.... 1...			RPLLRD	X'08' ARD=0/LRD=1 X04SVHS
.... .1..			RPLWAITX	X'04' AYNCH PROC WAIT
.... .1.			RPLUPD	X'02' UPDATE
.... ...1			RPLNSP	X'01' NOTE STRING POSITION
42 (2A) BITSTRING		1	RPLOPT3	OPTION BYTE 3
1...			RPLEODS	X'80' END OF USER SYSCUT
.1..			RPLSFORM	X'40' SPECIAL FORM ON REMOTE PRINTER
..1.			RPLBLK	X'20' BLOCKED UCS DATA CHECKS FIXED BLOCK PROCESSING
...1			RPLVfy	X'10' VERIFY UCS/FCB INFORMATION
.... 1...			RPLFLD	X'08' LOAD UCS BUFFER IN FOLD MODE
.... .1.			RPLFMT	X'02' FCB LOAD
.... .11.			RPLFRMT	X'06' UCS LOAD IF 00

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... ...1		RPLALIGN	X'01' ALIGN FCB BUFFER LOADING RESERVED
43	(2B) BITSTRING	1	RPLOPT4	
44	(2C) A-ADDRESS	4	RPLNXTRP	POINTER TO NEXT RPL
44	(2C) A-ADDRESS	4	RPLCHAIN	ALTERNATE NAME FOR RPLNXTRP
48	(30) A-ADDRESS	4	RPLRLEN	LENGTH OF RECORD
52	(34) A-ADDRESS	4	RPLBUFL	USER BUFFER LENGTH
56	(38) HEX	4	RPLOPTC2	VTAM OPTIONS
56	(38) HEX 1... ..	1	RPLOPT5 RPLDLGIN	OPTION BYTE 5 X'80' CONTINUE READING IN SPECIFIC TERMINAL MODE; IF 0, CONTINUE READING IN ANY TERMINAL MODE
	.1..		RPLSSNIN	X'40' CONTINUE DIALOG WITH THE SAME TERMINAL; IF 0, END DIALOG WITH THAT TERMINAL
	..1.		RPLPSOPT	X'20' PASS TERMINAL TO REQUESTING APPLICATION; IF 0, MAKE TERMINAL AVAILABLE TO ANY APPLICATION
	...1		RPLNERAS	X'10' WRITE TO 3270 BUT DO NOT ERASE WHAT IS CURRENTLY DISPLAYED
	.... 1...		RPLEAU	X'08' WRITE TO 3270 AND ERASE UNPROTECTED FIELDS
	.... .1..		RPLERACE	X'04' WRITE TO 3270 AND ERASE CURRENT DISPLAY
	.... ...1.		RPLNODE	X'02' READ FROM ANY TERMINAL; IF 0, READ FROM A SPECIFIC TERMINAL

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... .1		RPLWROPT	X'01' CONVERSATIONAL MODE; IF 0, NON-CONVERSATIO NAL MODE
57	(39) HEX 1... ..	1	RPLOPT6	OPTION BYTE 6
	.1... ..		RPLEOB	X'80' WRITE A BLOCK OF DATA
	..1.		RPLEOM	X'40' WRITE THE LAST BLOCK OF A MESSAGE
	...1		RPLEOT	X'20' WRITE THE LAST BLOCK OF THE TRANSMISSION
	.... 1...		RPLCOND	X'10' DO NOT STOP OPERATION IF STARTED (USED WITH RESET REQUEST)
	.... .1..		RPLNCOND	X'08' STOP OPERATION IMMEDIATELY (USED WITH RESET REQUEST)
	.... .1..		RPLLOCK	X'04' RESET ERROR LOCK TO UNLOCKED STATUS
58	(3A) HEX 1... ..	1	RPLRSV67	X'02' RESERVED
	.... .1.		RPLRSV68	X'01' RESERVED
	.... .1.		RPLOPT7	OPTION BYTE 7
	.... .1.		RPLCNALL	X'80' ALL TERMINALS IN OPNDST LIST MUST BE AVAILABLE BEFORE ANY ARE CONNECTED
	.1... ..		RPLCNANY	X'40' CONNECT ANY ONE TERMINAL IN OPNDST LIST
	..1.		RPLCNIMM	X'20' RESERVED
	...1		RPLQOPT	X'10' QUEUE THE OPNDST REQUEST IF IT CANNOT BE SATISFIED IMMEDIATELY; IF 0, REJECT THE OPNDST REQUEST IF IT CANNOT BE SATISFIED IMMEDIATELY
	.... 1...		RPLTPOST	X'08' RPL ALREADY UNDER PSS

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... .1..		RPLRLSOP	X'04' SCHEDULE THE RELREQ EXIT OF THE REQUIRED TERMINAL IMMEDIATELY; IF 0, EITHER WAIT FOR THE TERMINAL TO BECOME AVAILABLE OR REJECT THE REQUEST IF THE TERMINAL IS BUSY(DEPENDS ON THE SETTING OF RPLQOPT)
59	.... .1. .... .1. (3B) HEX 1... ..	1	RPLRSV77 RPLRSV78 RPLOPT8 RPLDACQ	X'02' RESERVED X'01' RESERVED OPTION BYTE 8 X'80' THE APPLICATION REQUIRES A SPECIFIC TERMINAL
	.1..		RPLDACP	X'40' THE APPLICATION WILL ACCEPT ANY TERMINAL DESIRING LOGON
	...1.		RPLDPRM	X'20' A SPECIFIC TERMINAL IS TO BE PREEMPTED EVEN THOUGH ANOTHER APPLICATION IS HOLDING IT (TCLTEP ONLY)
	...1		RPLPEND	X'10' PREEMPT THE TERMINAL AFTER ALL PENDING OPERATIONS ARE COMPLETED (TOLTEP ONLY)
	.... 1...		RPLSESS	X'08' PREEMPT THE TERMINAL AFTER COMPLETION OF THE CURRENT DIALOG SESSION (TOLTEP ONLY)
1..		RPLACTV	X'04' PREEMPT THE TERMINAL IF CONNECTED BUT NOT BUSY (TOLTEP ONLY)
1.		RPLUNCON	X'02' PREEMPT THE TERMINAL IMMEDIATELY (TOLTEP ONLY)

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
1		RPLRSV88	X'01' RESERVED
60	(3C) CHARACTER	8	RPLRBAR	RBA RETURN LOCATION
60	(3C) CHARACTER	2	RPLAIXPC	AIX POINTER COUNTX04SVHS
62	(3E) HEX	1	RPLAIXID	AIX POINTER TYPE X04SVHS
	1... ..		RPLAXPKP	X'80'
63	(3F) HEX	1		RBA=1/PRIME=0 RESERVED X04SVHS
64	(40) CHARACTER	4	RPLDDDD	RETURN AREA FOR RELATIVE BYTE ADDRESS
68	(44) HEX	1	RPLEXTDS	EXIT DEFINITIONS(VTAM)
68	(44) HEX	1	RPLEXTD1	ALTERNATE NAME FOR RPLEXTDS
	1... ..		RPLEXSCH	X'80' AN EXIT HAS BEEN SCHEDULED
	.1.. ..		RPLNEXIT	X'40' NO EXIT WAS SPECIFIED
	..1.		RPLEXIT	X'20' ASYNCH EXIT
	.... .1..		RPLNIB	X'04' THE RPLARG FIELD CONTAINS A POINTER TO THE NIB
	.... ..1.		RPLBRANC	X'02' USE A BRANCH ENTRY TO THE MACRO
69	(45) HEX	1	RPLACTIV	ACTIVE INDICAT(R X'FF' INDICATES ACTIVE; X'00' INDICATES INACTIVE
70	(46) SIGNED	2	RPLEMLEN	LENGTH OF THE ERROR MESSAGE AREA
72	(48) A-ADDRESS	4	RPLERMSA	POINTER TO THE ERROR MESSAGE AREA

CROSS REFERENCE

IFGRPL	0 (0)	RPLEXTDS	68 (44)
RPLACTIV	69 (45)	RPLEXTD1	68 (44)
RPLACTV	59 X'04'	RPLFDBK	13 (D)
RPLADD	41 X'40'	RPLFDBWD	12 (C)
RPLADR	41 X'40'	RPLFDB2	14 (E)
RPLAIXID	62 (3E)	RPLFDB3	15 (F)
RPLAIXPC	60 (3C)	RPLFLD	42 X'08'
RPLALIGN	42 X'01'	RPLFMT	42 X'02'
RPLAREA	32 (20)	RPLFRCIO	2 X'0A'
RPLARG	36 (24)	RPLFRMT	42 X'06'
RPLASY	40 X'08'	RPLGEN	40 X'02'
RPLATND	14 X'20'	RPLGET	2 X'00'
RPLAXPKP	62 X'80'	RPLID	0 (0)
RPLBLK	42 X'20'	RPLIDD	0 X'00'
RPLBLKER	13 X'04'	RPLIMPRT	2 X'07'
RPLBRANC	68 X'02'	RPLINQIR	2 X'1A'
RPLBUFL	52 (34)	RPLINTPT	2 X'1B'
RPLBWD	41 X'10'	RPLIOERR	14 X'08'
RPLCBLKE	13 X'04'	RPLJSFMT	2 X'07'
RPLCCHAR	20 (14)	RPLKEY	41 X'80'
RPLCHAIN	44 (2C)	RPLKEYL	16 (10)
RPLCHECK	2 X'02'	RPLKEYLE	16 (10)
RPLCHNG	2 X'19'	RPLKGE	40 X'04'
RPLCLACB	2 X'21'	RPLLEN	3 (3)
RPLCLOSE	2 X'1F'	RPLLEN2	3 (3)
RPLCMDRT	13 X'18'	RPLLGFR	15 X'04'
RPLCMFON	14 (E)	RPLLMEX	13 X'2C'
RPLCNALL	58 X'80'	RPLLOC	40 X'80'
RPLCNANY	58 X'40'	RPLLOCK	57 X'04'
RPLCNDCD	14 (E)	RPLLCGER	13 X'08'
RPLCNIMM	58 X'20'	RPLLOGIC	13 X'08'
RPLCNV	41 X'20'	RPLLRD	41 X'08'
RPLCOND	57 X'10'	RPLNCOND	57 X'08'
RPLCRID	1 X'FF'	RPLNERAS	56 X'10'
RPLCUERR	14 X'02'	RPLNEXIT	68 X'40'
RPLDACB	24 (18)	RPLNGRCC	13 X'10'
RPLDAF	38 (26)	RPLNIB	68 X'04'
RPLDDDD	64 (40)	RPLNODE	56 X'02'
RPLDEVDC	13 X'28'	RPLNOERR	13 X'00'
RPLDIR	40 X'40'	RPLNOIN	13 X'38'
RPLDLGFL	14 X'04'	RPLNSP	41 X'01'
RPLDLGIN	56 X'80'	RPLNXTRP	44 (2C)
RPLDO	2 X'13'	RPLDACP	59 X'40'
RPLDVUNS	14 X'10'	RPLDACP	59 X'80'
RPLEAU	56 X'08'	RPLDPRM	59 X'20'
RPLECB	8 (8)	RPLDPNS	2 X'17'
RPLECBIN	40 X'01'	RPLOPTCD	40 (28)
RPLECBSW	40 X'01'	RPLOPTC2	56 (38)
RPLEHLEN	70 (46)	RPLOPT1	40 (28)
RPLENDRE	2 X'04'	RPLOPT2	41 (29)
RPLEOB	57 X'80'	RPLOPT3	42 (2A)
RPLEODS	42 X'80'	RPLOPT4	43 (2B)
RPLEOM	57 X'40'	RPLOPT5	56 (38)
RPLEOT	57 X'20'	RPLOPT6	57 (39)
RPLERACE	56 X'04'	RPLOPT7	58 (3A)
RPLERASE	2 X'05'	RPLOPT8	59 (3B)
RPLERLK	14 X'80'	RPLPEND	59 X'10'
RPLERNSA	72 (48)	RPLPFMTD	2 X'08'
RPLERRCD	15 (F)	RPLPFMTI	2 X'09'
RPLERRREG	13 (D)	RPLPHYER	13 X'0C'
RPLEXIT	66 X'20'	RPLPHYSC	13 X'0C'
RPLEXRQ	13 X'30'	RPLPLHPT	4 (4)
RPLEXRS	13 X'34'	RPLPOINT	2 X'03'
RPLEXSCH	68 X'80'	RPLPOST	8 X'40'

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CROSS REFERENCE

RPLPSOPT	56 X'20'
RPLPURGE	13 X'1C'
RPLPUT	2 X'01'
RPLQOPT	58 X'10'
RPLQUISE	2 X'15'
RPLRBAR	60 (3C)
RPLRCVCD	2 X'23'
RPLRDSOH	15 X'01'
RPLREAD	2 X'1D'
RPLREOB	15 X'20'
RPLREOM	15 X'10'
RPLREOT	15 X'08'
RPLREQ	2 (2)
RPLRESET	2 X'12'
RPLRLEN	48 (30)
RPLRLG	15 X'02'
RPLRLSOP	58 X'04'
RPLRSRCD	2 X'24'
RPLRSV67	57 X'02'
RPLRSV68	57 X'01'
RPLRSV77	58 X'02'
RPLRSV78	58 X'01'
RPLRSV88	59 X'01'
RPLRTNCD	13 (D)
RPLRVID	14 X'40'
RPLSAF	36 (24)
RPLSEQ	40 X'20'
RPLSESS	59 X'08'
RPLSFORM	42 X'40'
RPLSKP	40 X'10'
RPLSLICT	2 X'1E'
RPLSHLGO	2 X'16'
RPLSNDCD	2 X'22'
RPLSPECC	13 X'14'
RPLSSCCD	2 X'25'
RPLSSHIN	56 X'40'
RPLSTAT	12 (C)
RPLSTRID	18 (12)
RPLSTSAV	14 X'01'
RPLSTYP	1 (1)
RPLSVRP	1 X'11'
RPLSVSAM	1 X'10'
RPLSVTAM	1 X'20'
RPLSV32	15 X'40'
RPLSYERR	13 X'24'
RPLS3540	1 X'40'
RPLTCBPT	26 (1C)
RPLTPOST	58 X'08'
RPLUIHPT	15 X'80'
RPLUNCON	59 X'02'
RPLUPD	41 X'02'
RPLVABND	13 X'3C'
RPLVERIF	2 X'06'
RPLVfy	42 X'10'
RPLVTHNA	13 X'20'
RPLWAIT	8 X'80'
RPLWAITX	41 X'04'
RPLWRITE	2 X'11'
RPLWROPT	56 X'01'

RQE

Common Name: IOS Request Queue Element

Macro ID: IECDRQE

DSECT Name: RQE

Created by: IECVEXCP, EXCP

Subpool and Key: 245 and key 0

Size: 40 bytes

Pointed to by: ASXBFRQE field of the ASXB data area
ASXBLRQE field of the ASXB data area
IOSUSE field of the IOSB data area
RQELNK field of the RQE data area

Serialization: Local lock

Function: Used by the EXCP processor to describe an I/O request, record its progress, and contain the addresses of associated control blocks. Also used by EXCP to queue related I/O requests on the data extent block (DEB), and by the stage II and III exit effectors to schedule asynchronous processing on behalf of a channel-end or abnormal-end appendage.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0)	STRUCTURE	0 RQE	
0	(0)	A-ADDRESS	4 RQEUCB	ADDRESS OF THE UNIT CONTROL BLOCK
4	(4)	A-ADDRESS	4 RQEIOB	ADDRESS OF THE INPUT-OUTPUT BLOCK
8	(8)	A-ADDRESS	4 RQEDEB	ADDRESS OF THE DATA EXTENT BLOCK
12	(C)	A-ADDRESS	4 RQETCB	ADDRESS OF THE TASK CONTROL BLOCK
16	(10)	A-ADDRESS	4 RQETCCW	ADDRESS OF TRANSLATION CONTROL BLOCK USED BY VIO AS A WORK AREA
20	(14)	A-ADDRESS	4 RQENRQE	ADDRESS OF THE NEXT RQE ON RELATED REQUEST CHAIN USED BY VIO AS A WORK AREA
24	(18)	A-ADDRESS	4 RQERRQ	ADDRESS OF RELATED REQUEST QUEUE USED BY VIO AS A WORK AREA

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
28	(1C) A-ADDRESS	4	RQESRB	ADDRESS OF ASSOCIATED SRB USED BY VIO AS A WORK AREA

32	(20) A-ADDRESS	4	RQEIPIB	ADDRESS OF PURGE IPIB

36	(24) HEX	1	RQEPRT	PROTECT KEY FROM SVC OLD PSW@Z (BITS 0-3) AND FLAGS(4-7)
	1111		RQEPKEY	X'F0' PROTECT KEY BITS 0-3
	.... 1...		RQEPRT4R	X'08' BIT4 RESERVED
	.... .1..		RQEPRT5R	X'04' BIT5 RESERVED
	.... ..1.		RQEPRT6R	X'02' BIT6 RESERVED
	.... ...1		RQESMFRQ	X'01' BIT7 SMF RECORDING REQD
37	(25) HEX	1	RQETYPE	REQUEST TYPE FLAGS
=====				
BIT SETTINGS FOR RQETYPE				
	1...		RQE114	X'80' EXCPVR REQUEST
	.1..		RQEVRT	X'40' VIRTUAL EXCP REQUEST
	..1.		RQE1T01	X'20' VIRTUAL EQUAL REAL REQUEST
	...1		RQEVAM	X'10' VIO RQE
	.... 1...		RQEE0EE	X'08' END-OF-EXTENT-ERROR, TO BE PURGED
	.... .1..		RQEDIE	X'04' EXCP DIE GOING TO PCI APPEND@
	.... ..11		RQERRTYP	X'03' RELATED REQUEST FLAGS
	.... ..11		RQETYP3	X'03' RELATED REQUEST TYPE 3
	.... ..1.		RQETYP2	X'02' RELATED REQUEST TYPE 2
	.... ...1		RQETYP1	X'01' RELATED REQUEST TYPE 1
38	(26) HEX	1	RQEFLAG	FLAG BYTE IN RQE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
BIT SETTINGS FOR RQFLAG2				
1... ..			RQERETRY	X'80' RETRY REQUESTED
.1... ..			RQENOPST	X'40' NO POST REQUESTED
..1... ..			RQENOFRE	X'20' DONT FREE RQE
...1... ..			RQEFIXST	X'10' FIX PROCESS HAS BEEN STARTED, UNFIX REQUIRED
.... 1...			RQUESTBL	X'08' THIS REQUEST IS STARTABLE THAT IS ALL FIXING AND TRANSLATION IS DONE
.... .1..			RQESRBS	X'04' SRB SCHEDULED FOR THIS RQE
.... ..1.			RQEPURGE	X'02' RQE UNDERGOING PURGE
.... ...1			RQECHEAC	X'01' CHANNEL END APPENDAGE COMPLETE
=====				

BIT SETTINGS FOR RQFLAG3

39	(27) HEX	1	RQFLAG3	
	1... ..		RQEINIOS	X'80' REQUEST IN IOS
	.... ..		RQECLEAR	X'00' RESET FLAG BYTES

RSMHD

Common Name: RSM Header

Macro ID: IHARSMHD

DSECT Name: RSMHD

Created by: IEAVITAS (RSM supervisor)

Subpool and Key: 245 and key 0

Size: 40 bytes

Pointed to by: ASCBRSM field of the ASCB data area

Serialization: SALLOC lock

Function: A header exists for each address space. It contains address space related pointers, data fields, and queue headers used internally by RSM functions.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	RSMHD	, RSMHDPTR
0	(0) A-ADDRESS	4	RSMVSTO	VSA OF SEGMENT TABLE ORIGIN
4	(4) A-ADDRESS	4	RSMSPCT	VSA OF SWAP CONTROL TABLE
8	(8) A-ADDRESS	4	RSMASCB	VSA OF ADDR SPACE CONTROL BLOCK (ASCB), USED BY RSM AS BACKWARD REFERENCE TO THE MAIN ADDRESS SPACE CONTROL BLOCK
12	(C) BITSTRING 1... ..	1	RSMFLG1 RSMIOCPU	FLAG FIELD BIT0 WHEN 1, IOCP HAS BEEN SCHEDULED TO REQUEST THE LOCAL LOCK UNCONDITIONALLY BUT HAS NOT BEEN DISPATCHED
	.1.. ..		RSMIOPC	BIT1 WHEN 1, IOCP HAS BEEN SCHEDULED TO RUN WITHOUT THE LOCAL LOCK BUT HAS NOT BEEN DISPATCHED
	..1.		RSMGFAD	BIT2 GFA DEFER PROCESSOR FLAG. WHEN 1, GFA DEFER PROCESSOR HAS BEEN SCHEDULED.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
...1			RSMCPNU	BIT3 IOCP NOT SCHEDULED UNC FLAG. WHEN 1, IEAVIOCP MUST BE SCHEDULED TO REQUEST THE LOCAL LOCK UNCONDITIONALLY, BUT HAS NOT YET BEEN SCHEDULED.
.... 1...			RSMCPNC	BIT4 IOCP NOT SCHEDULED WITHOUT FLAG. WHEN 1, IEAVIOCP MUST BE SCHEDULED TO RUN WITHOUT THE LOCAL LOCK, BUT HAS NOT YET BEEN SCHEDULED.
.... .1..			RSMGFADD	BIT5 GFAD NOT SCHEDULED FLAG. WHEN 1, IEAVGFAD MUST BE SCHEDULED, BUT HAS NOT BEEN SCHEDULED YET.
.... ..1.			RSMFAIL	BIT6 RSM FAIL FLAG. WHEN 1, AN I/O ERROR OCCURED ON A LSQA PAGE SWAP-IN. QZ40WPY D
13	(D) HEX	1	RSMRSV1	RESERVED
14	(E) SIGNED	2	RSMCNTFX	NUMBER OF FRAMES FIXED IN THIS ADDRESS SPACE

16	(10) HEX	4	RSMRSV2	RESERVED
=====				

THE FOLLOWING ARE PFTE AND PCB QUEUE HEADERS FOR THOSE QUEUES LOCAL TO A SPECIFIC ADDRESS SPACE. EACH QUEUE HEADER CONSISTS OF TWO PARTS, THE FIRST CONTAINING A POINTER TO THE FIRST ELEMENT ON THE QUEUE, THE SECOND CONTAINING A POINTER TO THE LAST ELEMENT ON THE QUEUE. SEE THE PFTE OR PCB DESCRIPTION FOR A DISCUSSION. IF THE ORDER OR DISPLACEMENT OF ANY HEADER CHANGES, THE PFTE OR PCB QUEUE INDEX VALUES MUST BE ADJUSTED ACCORDINGLY.

20	(14) SIGNED	4	RSMQ5	BEGINNING OF LOCAL QUEUE HEADERS
----	-------------	---	-------	----------------------------------

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
20	(14) SIGNED	4	RSMLFQ	LOCAL FRAME QUEUE (LFQ) HEADER. THIS QUEUE REPRESENTS THE REAL STORAGE FRAMES CURRENTLY ASSIGNED TO PRIVATE AREA VIRTUAL PAGES OF AN ADDRESS SPACE. BOTH PAGEABLE AND FIXED.
20	(14) A-ADDRESS	2	RSMLFQF	PFTE INDEX TO FIRST PFTE ON LFQ
22	(16) A-ADDRESS	2	RSMLFQL	PFTE INDEX TO LAST PFTE ON LFQ
24	(18) SIGNED	4	RSMLSQA	THE LSQA QUEUE HEADER. THE QUEUE REPRESENTS ALL REAL FRAMES ASSIGNED TO VIRTUAL LSQA PAGES FOR AN ADDRESS SPACE.
24	(18) A-ADDRESS	2	RSMLSQAF	PFTE INDEX OF FIRST PFTE ON LSQA QUEUE
26	(1A) A-ADDRESS	2	RSMLSQAL	PFTE INDEX OF LAST PFTE ON LSQA QUEUE
28	(1C) CHARACTER	8	RSHLIOQ	THE LOCAL I/O ACTIVE PCB QUEUE HEADER FOR A VIRTUAL ADDRESS SPACE. THIS QUEUE REPRESENTS PAGING I/O REQUESTS FOR PRIVATE AREA VIRTUAL PAGES THAT HAVE BEEN TRANSMITTED TO ASM. THE PCB REMAINS ON THE QUEUE UNTIL ALL PROCESSING FOR THE REQUEST HAS COMPLETED.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
28	(1C) A-ADDRESS	4	RSMLIOQF	THE VIRTUAL ADDRESS OF THE FIRST PCB ON THE LOCAL I/O ACTIVE QUEUE.
32	(20) A-ADDRESS	4	RSMLIOQL	THE VIRTUAL ADDRESS OF THE LAST PCB ON THE LOCAL I/O ACTIVE QUEUE.
36	(24) A-ADDRESS	4	RSMFOEQ	ADDRESS OF AVAILABLE FOE(S)
40	(28) CHARACTER	32	RSMASHMD	AN ASM HEADER MAPPED BY ILRASHMD.

RTCT

Common Name: RTM Recovery Termination Control Table

Macro ID: IHARTCT

DSECT Name: RTCT

Created by: IEAVNPA6

Subpool and Key: 245 and Key 0

Size: 334 bytes

Pointed to by: CVTRTMCT field of the CVT data area

Serialization: Most fields in the RTCT have no serialization other than the use of Compare and Swap instructions to update fields such as the dump options. The SVC dump fields in the RTCT are serialized through the RTCTSDPL field. When RTCTSDPL is nonzero, SVC dump is SERIALIZED. (NOTE THAT THE CVTSDBUF FIELD IS ALSO SET NONZERO TO SERIALIZE THE SVC DUMP WHENEVER RTCTSDPL IS SET.)

Function: The RTCT provides a communication area between the various functions associated with dumping facilities, for SYSABEND, SYSDUMP, SYSUDUMP, and SVC dumps. It is used for coordination of the dump-related processes of task and system recovery, the memory termination controller, and installation- and operator-defined dump requirements.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	RTCT	, BAL MAPPING OF TABLE
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) CHARACTER	4	RTCTNAME	CONTAINS C'RTCT' AS IDENTIFIER.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
SNAP/ABEND PARMLIB VALUES				

4	(4) CHARACTER	12	RTCTPLIB	

4	(4) BITSTRING	4	RTCTSAP	SYSABEND INITIAL PARMLIB VALUES**

4	(4) BITSTRING	1	RTCTSAP1	(BYTE 1 OF SDATA OPTIONS:)
	1... ..		RTCTSAB0	BIT0 1=DISPLAY NUCLEUS
	.1... ..		RTCTSAB1	BIT1 1=DISPLAY SQA
	..1... ..		RTCTSAB2	BIT2 1=DISPLAY LSQA
	...1... ..		RTCTSAB3	BIT3 1=DISPLAY SWA
	.... 1... ..		RTCTSAB4	BIT4 1=DISPLAY GTF OR SUPERVISOR TRACE
	.... .1... ..		RTCTSAB5	BIT5 1=DISPLAY CONTROL BLOCKS FOR TASK
	.... ..1... ..		RTCTSAB6	BIT6 1=DISPLAY ENQUEUE CONTROL BLOCKS
	.... ....1... ..		RTCTSAB7	BIT7 1=FORMAT DATA MGMT C.B.S
5	(5) BITSTRING	1	RTCTSAP2	(BYTE 2 OF SDATA OPTIONS:)
	1... ..		RTCTSABG	BIT0 1=FORMAT IOS CONTROL BLOCKS
	.1... ..		RTCTSABH	BIT1 1=FORMAT ERROR CONTROL BLKS
=====				
EQU	BIT2		RESERVED	
EQU	BIT3		RESERVED	
EQU	BIT4		RESERVED	
EQU	BIT5		RESERVED	
EQU	BIT6		RESERVED	
EQU	BIT7		RESERVED	
6	(6) BITSTRING	1	RTCTSAP3	(BYTE 1 OF PDATA OPTIONS:)
	1... ..		RTCTSAB8	BIT0 1=DISPLAY SAVE AREA TRACE(SA KEYWORD)

RTCT

RTCT
Data Area Descriptions 179

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.1..			RTCTSAB9	BIT1 0=DISPLAY ENTIRE SAVE AREA 1=DISPLAY SAVE AREA HEADINGS(SAH KWD)
..1.			RTCTSABA	BIT2 1=DISPLAY REGISTERS
...1			RTCTSABB	BIT3 1=DISPLAY LINK PACK AREA
.... 1...			RTCTSABC	BIT4 1=DISPLAY JOB PACK AREA
.... .1..			RTCTSADD	BIT5 1=DISPLAY PSW
.... ..1.			RTCTSABE	BIT6 1=DISPLAY USER SUBPOOLS: 0-127
7	.... ..1 (7) BITSTRING	1	RTCTSABF RTCTSAP4	BIT7 RESERVED RESERVED

8	(8) BITSTRING	4	RTCTSUP	SYSUDUMP INITIAL PARMLIB VALUES**

8	(8) BITSTRING	1	RTCTSUP1	(BYTE 1 OF SDATA OPTIONS:)
	1...		RTCTSUD0	BIT0 1=DISPLAY NUCLEUS
	.1..		RTCTSUD1	BIT1 1=DISPLAY SQA
	..1.		RTCTSUD2	BIT2 1=DISPLAY LSQA
	...1		RTCTSUD3	BIT3 1=DISPLAY SWA
	.... 1...		RTCTSUD4	BIT4 1=DISPLAY GTF OR SUPERVISOR TRACE
	.... .1..		RTCTSUD5	BIT5 1=DISPLAY CNTRL BLKS FOR TASK
	.... ..1.		RTCTSUD6	BIT6 1=DISPLAY ENQUEUE CNTRL BLKS
	.... ...1		RTCTSUD7	BIT7 1=FORMAT DATA MGMT C.B.S
9	(9) BITSTRING	1	RTCTSUP2	(BYTE 2 OF SDATA OPTIONS:)
	1...		RTCTSUDG	BIT0 1=FORMAT IOS CONTROL BLOCKS
	.1..		RTCTSUDH	BIT1 1=FORMAT ERROR CONTROL BLKS

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
EQU	BIT2		RESERVED	
EQU	BIT3		RESERVED	
EQU	BIT4		RESERVED	
EQU	BIT5		RESERVED	
EQU	BIT6		RESERVED	
EQU	BIT7		RESERVED	
10	(A) BITSTRING	1	RTCTSUP3	(BYTE 1 OF PDATA OPTIONS:)
	1...		RTCTSUD8	BIT0 1=DISPLAY SAVE AREA TRACE(SA KEYWORD)
	.1..		RTCTSUD9	BIT1 0=DISPLAY ENTIRE SAVE AREA 1=DISPLAY SAVE AREA HEADINGS(SAH KWD)
	...1		RTCTSUDA	BIT2 1=DISPLAY REGISTERS
	.... 1...		RTCTSUDC	BIT4 1=DISPLAY JOB PACK AREA
	.... .1..		RTCTSUDD	BIT5 1=DISPLAY PSW
	.... ..1		RTCTSUDF	BIT6 1=DISPLAY USER SUBPOOLS: 0-127
11	(B) BITSTRING	1	RTCTSUP4	RESERVED
12	(C) BITSTRING	4	RTCTSYD	SYSDUMP INITIAL PARMLIB VALUES**
12	(C) BITSTRING	1	RTCTSY01	(BYTE 1 OF SDATA OPTIONS:)
	1...		RTCTSYM0	BIT0 1=DISPLAY NUCLEUS
	.1..		RTCTSYM1	BIT1 1=DISPLAY SQA
	...1		RTCTSYM2	BIT2 1=DISPLAY LSQA
	.... 1...		RTCTSYM3	BIT3 1=DISPLAY SWA
	.... .1..		RTCTSYM4	BIT4 1=DISPLAY GTF OR SUPV TRACE
	.... ..1		RTCTSYM5	BIT5 1=DISPLAY REGION
	.... ...1		RTCTSYM6	BIT6 1=DISPLAY LPA FOR REGION
	.... ....1		RTCTSYM7	BIT7 1=DISPLAY CSA
13	(D) BITSTRING	1	RTCTSY02	RESERVED
14	(E) BITSTRING	1	RTCTSY03	RESERVED

RTCT

RTCT
Data Area Descriptions 181

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
15	(F) BITSTRING	1	RTCTSY04	RESERVED

 RTM AND LOGREC RECORDING INFORMATION

16	(10) SIGNED	2	RTCTYYY1	RESERVED**
18	(12) SIGNED	2	RTCTSDID	ASID OF MEMORY IN WHICH SVC DUMP IS OR WILL BE RUNNING.
20	(14) HEX	4	RTCTMECB	ECB WAIT'ED ON BY MEMORY TERMINATION CONTROLLER
24	(18) A-ADDRESS	4	RTCTFASB	ADDRESS OF FIRST ASCB ON MEMORY TERMINATION QUEUE.
28	(1C) HEX	4	RTCTRECB	ECB WAIT'ED ON BY RECORDING TASK.
32	(20) A-ADDRESS	4	RTCTRCB	ADDRESS OF RECORDER'S BUFFER CONTROL BLOCKS (CONTAIN LOGREC ENTRIES).

 THE FOLLOWING TABLE IS COMPOSED OF TEN TWELVE-BYTE ENTRIES,
 ONE CORRESPONDING TO AN SVC DUMP DATA SET.

36	(24) CHARACTER	120	RTCTSDDS	TOTAL OF TEN TWELVE-BYTE ENTRIES
36	(24) CHARACTER	3	RTCTDSNM	NAME IDENTIFIER OF THIS DATA SET... TAPE EBCDIC UNIT ADDRESS, DISK EBCDIC 00-09 WITH TRAILING BLANK.
39	(27) BITSTRING	1	RTCTFLG	FLAG BYTE.....
	1... ..		RTCTDSST	BIT0 1-D.S. FULL, 0-D.S. AVAILABLE.
	.1... ..		RTCTDSUS	BIT1 1-D.S. USED, 0-D.S. NOT USED.

RTCT

RTCT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	..1.		RTCTDETP	BIT2 0-TAPE D.S., 1-DASD D.S.
40	(28) A-ADDRESS	4	RTCTDCB	DEB ADDRESS FOR THIS DATA SET.
44	(2C) HEX	4	RTCTDEV	DEVICE TYPE CODE FOR THIS DATA SET.
48	(30) CHARACTER	108		REMAINING NINE ENTRIES. END OF TABLE
156	(9C) A-ADDRESS	4	RTCTSDPL	ADDRESS OF SVC DUMP PARAMETER LIST FOR CROSS-MEMORY REQUEST.
	1...		RTCTSDIP	BIT0 HIGH ORDER BIT IS SVC DUMP IN PROGRESS FLAG.
160	(A0) A-ADDRESS	4	RTCTFMT	USED FOR TESTING RTM MODULES
164	(A4) SIGNED	4	RTCTMLCK	LOCK FOR MEM TERM POST SRB
168	(A8) SIGNED	4	RTCTMSRB	PTR TO MEM TERM POST SRB
172	(AC) SIGNED	4	RTCTTEST	USED FOR TESTING RTM MODULES
176	(B0) BITSTRING	1	RTCTRFLG	RECORDING FLAGS
	1...		RTCTRTER	BIT0 RECORDING TEMPORARY ERROR
	.1..		RTCTRPER	BIT1 RECORDING PERMANENT ERROR
	..1.		RTCTRSTF	BIT2 INITIAL STF ENTRY
177	(B1) BITSTRING	1	RTCTXXX1	RESERVED
178	(B2) SIGNED	2	RTCTSEQ#	ERRORID SEQUENCE NUMBER
180	(B4) A-ADDRESS	4	RTCTSDSW	ADDRESS OF SUMMARY SVC DUMP (SUNDUMP) WORK AREA (IHASMK)

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
184	(B8) SIGNED	4	RTCTDCB(9)	TAPE DCB FOR SVC DUMP
220	(DC) A-ADDRESS	4	RTCTSDWK	ADDRESS OF SVC DUMP WORK AREA
224	(E0) CHARACTER	10	RTCTERID	ERRORID FOR THIS FAILURE'S SVC DUMP HEADER
224	(E0) CHARACTER	2	RTCTESEQ	ERRORID SEQUENCE NUMBER
226	(E2) CHARACTER	2	RTCTECPU	ERRORID LOGICAL CPU ID
228	(E4) CHARACTER	2	RTCTEASD	ERRORID ASID
230	(E6) CHARACTER	4	RTCTETIM	ERRORID TIMESTAMP
234	(EA) CHARACTER	2	RTCTXXX2	RESERVED

=====

DEFAULT DUMP OPTIONS, WHICH CAN BE CHANGED BY THE CHNGDUMP OPERATOR COMMAND

236	(EC) CHARACTER	16	RTCTOPT	
236	(EC) BITSTRING	4	RTCTSAO	SYSABEND EFFECTIVE OPTIONS**
236	(EC) BITSTRING	2	RTCTSAD	
236	(EC) BITSTRING	1	RTCTSA01	(BYTE 1 OF SDATA OPTIONS:)
	1... ..		RTCTSAD0	BIT0 1=DISPLAY NUCLEUS
	.1.. ..		RTCTSAD1	BIT1 1=DISPLAY SQA
	..1.		RTCTSAD2	BIT2 1=DISPLAY LSQA
	...1		RTCTSAD3	BIT3 1=DISPLAY SWA
	.... 1...		RTCTSAD4	BIT4 1=DISPLAY GTF OR SUPERVISOR TRACE
	.... .1..		RTCTSAD5	BIT5 1=DISPLAY CONTROL BLOCKS FOR TASK
	.... ..1.		RTCTSAD6	BIT6 1=DISPLAY ENQUEUE CONTROL BLOCKS
	.... ...1		RTCTSAD7	BIT7 1=FORMAT DATA MGMT C.B.S
237	(ED) BITSTRING	1	RTCTSA02	(BYTE 2 OF SDATA OPTIONS:)

RTCT

RTCT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	1... ..		RTCTSADG	BIT0 1=FORMAT IOS CONTROL BLOCKS
	.1... ..		RTCTSADH	BIT1 1=FORMAT ERROR CONTROL BLKS
=====				
BIT3			RESERVED	
BIT4			RESERVED	
BIT5			RESERVED	
BIT6			RESERVED	
BIT7			RESERVED	
238	(EE) BITSTRING	2	RTCTSAPD	
238	(EE) BITSTRING	1	RTCTSA03	(BYTE 1 OF PDATA OPTIONS:)
	1... ..		RTCTSAD8	BIT0 1=DISPLAY SAVE AREA TRACE(SA KEYWORD)
	.1... ..		RTCTSAD9	BIT1 0=DISPLAY ENTIRE SAVE AREA 1=DISPLAY SAVE AREA HEADINGS(SAH KWD)
	..1.		RTCTSADA	BIT2 1=DISPLAY REGISTERS
	...1		RTCTSADB	BIT3 1=DISPLAY LINK PACK AREA
	.... 1...		RTCTSADC	BIT4 1=DISPLAY JOB PACK AREA
	.... .1..		RTCTSADD	BIT5 1=DISPLAY PSW
	.... .1.		RTCTSADE	BIT6 1=DISPLAY USER SUBPOOLS: 0-127
239	(EF) BITSTRING	1	RTCTSADF RTCTSA04	BIT7 RESERVED (BYTE 1 OF OTHER OPTIONS:)
	.... .1.		RTCTSAMG	BIT6 SEE RTCTSAOV
	.... .1.		RTCTSAOV	BIT6 1=OVER MODE 0=ADD MODE
	.... ...1		RTCTISAB	BIT7 IGNORE REQUESTS FOR SYSABEND

240	(F0) BITSTRING	4	RTCTSUO	SYSUDUMP EFFECTIVE OPTIONS**

240	(F0) BITSTRING	2	RTCTSUSD	

240	(F0) BITSTRING	1	RTCTSU01	(BYTE 1 OF SDATA OPTIONS:)
	1... ..		RTCTSYD0	BIT0 1=DISPLAY NUCLEUS

RTCT

RTCT

Data Area Descriptions 185

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.1..			RTCTSYD1	BIT1 1=DISPLAY SQA
..1.			RTCTSYD2	BIT2 1=DISPLAY LSQA
...1			RTCTSYD3	BIT3 1=DISPLAY SHA
.... 1...			RTCTSYD4	BIT4 1=DISPLAY GTF OR SUPERVISOR TRACE
.... .1..			RTCTSYD5	BIT5 1=DISPLAY CNTRL BLKS FOR TASK
.... ..1.			RTCTSYD6	BIT6 1=DISPLAY ENQUEUE CNTRL BLKS
.... ...1			RTCTSYD7	BIT7 1=FORMAT DATA MGMT C.B.S
241 (F1) BITSTRING		1	RTCTSU02	(BYTE 2 OF SDATA OPTIONS:)
1...			RTCTSYDG	BIT0 1=FORMAT IOS CONTROL BLOCKS
.1..			RTCTSYDH	BIT1 1=FORMAT ERROR CONTROL BLKS RESERVED
=====				
EQU	BIT4		RESERVED	
EQU	BIT5		RESERVED	
EQU	BIT6		RESERVED	
EQU	BIT7		RESERVED	
242 (F2) BITSTRING		2	RTCTSUFD	
242 (F2) BITSTRING		1	RTCTSU03	(BYTE 1 OF PDATA OPTIONS:)
1...			RTCTSYD8	BIT0 1=DISPLAY SAVE AREA TRACE(SA KEYWORD)
.1..			RTCTSYD9	BIT1 0=DISPLAY ENTIRE SAVE AREA 1=DISPLAY SAVE AREA HEADINGS(SAH KWD)
..1.			RTCTSYDA	BIT2 1=DISPLAY REGISTERS
...1			RTCTSYDB	BIT3 1=DISPLAY LINK PACK AREA
.... 1...			RTCTSYDC	BIT4 1=DISPLAY JOB PACK AREA
.... .1..			RTCTSYDD	BIT5 1=DISPLAY PSW
.... ..1.			RTCTSYDE	BIT6 1=DISPLAY USER SUBPOOLS: 0-127
.... ...1			RTCTSYDF	BIT7 RESERVED
243 (F3) BITSTRING		1	RTCTSU04	(BYTE 1 OF OTHER OPTIONS:)

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... .1.		RTCTSUMG	BIT6 SEE RTCTSUOV
	.... .1.		RTCTSUOV	BIT6 1=OVER MODE 0=ADD MODE
	.... ...1		RTCTISYU	BIT7 IGNORE REQUESTS FOR SYSUDUMP

244	(F4) BITSTRING	4	RTCTSYO	SYSMDUMP EFFECTIVE OPTIONS**

244	(F4) BITSTRING	1	RTCTSD01	(BYTE 1 OF SDATA OPTIONS:)
	1...		RTCTSDS0	BIT0 1=DISPLAY NUCLEUS
	.1..		RTCTSDS1	BIT1 1=DISPLAY SQA
	..1.		RTCTSDS2	BIT2 1=DISPLAY LSQA
	...1		RTCTSDS3	BIT3 1=DISPLAY SWA
	.... 1...		RTCTSDS4	BIT4 1=DISPLAY GTF OR SPV.TRACE
	.... .1..		RTCTSDS5	BIT5 1=DISPLAY REGION
	.... .1.		RTCTSDS6	BIT6 1=DISPLAY ACTIVE LPA FOR RGN
	.... ...1		RTCTSDS7	BIT7 1=DISPLAY CSA
245	(F5) BITSTRING	1	RTCTSD02	RESERVED
246	(F6) BITSTRING	1	RTCTSD03	RESERVED
247	(F7) BITSTRING	1	RTCTSD04	(BYTE 1 OF OTHER OPTIONS:)
	.... .1.		RTCTSHMG	BIT6 SEE RTCTSMOV
	.... .1.		RTCTSMOV	BIT6 1=OVER MODE 0=ADD MODE
	.... ...1		RTCTISYM	BIT7 IGNORE REQUESTS FOR SYSMDUMP

248	(F8) BITSTRING	4	RTCTSDO	SVC DUMP EFFECTIVE OPTIONS**

248	(F8) BITSTRING	2	RTCTSDOD	

248	(F8) BITSTRING	1	RTCTSD01	(BYTE 1 OF SDATA OPTIONS:)
	1...		RTCTSDP0	BIT0 1=DISPLAY ALL PSA'S IN SYSTEM
	.1..		RTCTSDP1	BIT1 1=DISPLAY CURRENT PSA
	..1.		RTCTSDP2	BIT2 1=DISPLAY NUCLEUS

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	...1		RTCTSDP3	BIT3 1=DISPLAY SQA
	.... 1...		RTCTSDP4	BIT4 1=DISPLAY LSQA
	.... .1..		RTCTSDP5	BIT5 1=DISPLAY REGION (PRIVATE AREA)
	.... ..1.		RTCTSDP6	BIT6 1=DISPLAY ACTIVE LPA MODULES FOR RGN
	.... ....1		RTCTSDP7	BIT7 1=DISPLAY GTF OR SUPERVISOR TRACE
249	(F9) BITSTRING	1	RTCTSD02	
	1...		RTCTSDP8	BIT0 1=DISPLAY CSA
	.1..		RTCTSDP9	BIT1 1=DISPLAY SWA
	..1.		RTCTSDPA	BIT2 1=DISPLAY SUMMARY SVC DUMP (SUMDUMP)
	...1		RTCTSDPB	BIT3 1=NO SUMMARY DUMP DISPLAY
	.... 1...		RTCTSDPC	BIT4 1=NO ALL PSA DISPLAY
	.... .1..		RTCTSDPD	BIT5 1=NO SQA DISPLAY

=====

EQU	BIT6	RESERVED		
EQU	BIT7	RESERVED		
250	(FA) BITSTRING	1	RTCTSD03	(BYTE 1 OF OTHER OPTIONS:)
	1...		RTCTSDPG	BIT0 1 MEANS QUIESCE=YES SPECIFIED ON CHNGDUMP COMMAND
	.1..		RTCTSDPH	BIT1 1 MEANS QUIESCE=NO SPECIFIED ON CHNGDUMP COMMAND

=====

EQU	BIT3	RESERVED		
EQU	BIT4	RESERVED		
EQU	BIT5	RESERVED		
EQU	BIT6	RESERVED		
EQU	BIT7	RESERVED		
251	(FB) BITSTRING	1	RTCTSD04	(BYTE 2 OF OTHER OPTIONS:)
	.... ..1.		RTCTSDMG	BIT6 SEE RTCTSDOV
	.... ..1.		RTCTSDOV	BIT6 1=OVER MODE 0=ADD MODE

RTCT

RTCT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... ...1			RTCTISVC	BIT7 IGNORE REQUESTS FOR SVC DUMP
=====				
ADDITIONAL SVC DUMP INFORMATION AND FLAGS				

252	(FC) BITSTRING	2	RTCTASO	ACTUAL SVC DUMP OPTIONS FROM MERGER OF DEFAULTS AND SDUMP MACRO OPTIONS**

252	(FC) BITSTRING	2	RTCTASOD	

252	(FC) BITSTRING	1	RTCTASO1	(BYTE 1 OF SDATA:)
	1...		RTCTASAL	BIT0 1=DISPLAY ALL PSA'S
	.1..		RTCTASPS	BIT1 1=DISPLAY CURRENT PSA
	..1.		RTCTASNU	BIT2 1=DISPLAY NUCLEUS
	...1		RTCTASSQ	BIT3 1=DISPLAY SQA
	.... 1...		RTCTASLS	BIT4 1=DISPLAY LSQA
	.... .1..		RTCTASRG	BIT5 1=DISPLAY REGION (RGN)
	.... ..1.		RTCTASLP	BIT6 1=DISPLAY ACTIVE LPA
	.... ...1		RTCTASTR	BIT7 1=DISPLAY GTF OR SUPV TRACE
253	(FD) BITSTRING	1	RTCTASO2	(BYTE 2 OF SDATA:)
	1...		RTCTASCS	BIT0 1=DISPLAY CSA
	.1..		RTCTASSW	BIT1 1=DISPLAY SWA
	..1.		RTCTASSU	BIT2 1=DISPLAY SUMMARY DUMP
	...1		RTCTASNS	BIT3 1=DISPLAY NO SUNDUMP
	.... 1...		RTCTASNA	BIT4 1=DISPLAY NO ALLPSA
	.... .1..		RTCTASNQ	BIT5 1=DISPLAY NO SQA

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
EQU	BIT6		RESERVED	
EQU	BIT7		RESERVED	
254	(FE) BITSTRING	2	RTCTSDI	SVC DUMP INFORMATION**
254	(FE) BITSTRING	1	RTCTSDNA	NUMBER ADDR SPACES TO DUMP
255	(FF) BITSTRING	1	RTCTINDX	INDEX FOR ASID LIST ENTRY

256	(100) HEX	1	RTCTSDPR	PERMANENT RETURN CODE
257	(101) BITSTRING	7	RTCTZZZ2	RESERVED

264	(108) BITSTRING	2	RTCTSDF	SVC DUMP FLAGS**

264	(108) BITSTRING	1	RTCTSDF1	(BYTE 1 OF FLAGS:)
	1... ..		RTCTSDNO	BIT0 NO SYS1.DUMP DATASETS DEFINED
	.1.. ..		RTCTSDND	BIT1 SVC DUMP SET SYSTEM NON-DISP
	..1.		RTCTSDSH	BIT2 SCHEDULE DUMP (IEAVTSDX) REQUEST
	...1		RTCTSDMA	BIT3 MULTIPLE ADDR SPACE DUMP IN PROGRESS
	.... 1...		RTCTSDPE	BIT4 CALLER'S ECB POSTED
	.... .1..		RTCTSDSD	BIT5 SUMMARY DUMP (IEAVTSSD) RECEIVED CONTROL
	.... ..1.		RTCTSDRS	BIT6 REAL STORAGE BUFFER NGR (IEAVPRSB) RECEIVED CONTROL
	.... ...1		RTCTSDSC	BIT7 SUMMARY DUMP (IEAVTSSD) COMPLETED PROCESSING
265	(109) BITSTRING	1	RTCTSDF2	(BYTE 2 OF FLAGS:)
	1... ..		RTCTSDMR	BIT0 DUMP MASTER ADDR SPACE REQD
	.1.. ..		RTCTSDTQ	BIT1 TQE WAS ENQUEUED BY SETDIE

RTCT

RTCT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
...1			RTCTSDDI	BIT2 TIMER DIE RECEIVED CONTROL (SCHDIE IN IEAVTSDX)
...1			RTCTSDLA	BIT3 LAST ASID BEING PROCESSED
.... 1...			RTCTSDWF	BIT4 SUNDUMP WRITER (IEAVTSDW) HAS COMPLETED
.... .1..			RTCTSDSL	BIT5 DUMP DATA SET WAS SELECTED
.... .1.			RTCTSDRW	BIT6 SUNDUMP RECORDS (FROM IEAVTSSD) TO WRITE

=====

<u>EQU</u>	<u>BIT7</u>	<u>RESERVED</u>	<u>NAME</u>	<u>DESCRIPTION</u>
266	(10A) SIGNED	2	RTCTZZZ3	RESERVED
268	(10C) CHARACTER	64	RTCTSDF3	ARRAY OF INFO FOR SVC DUMP OF MULTIPLE ADDRESS SPACES**
268	(10C) BITSTRING	2	RTCTSDAS	ASID OF THIS ADDRESS SPACE (A.S.)
270	(10E) BITSTRING	1	RTCTSDF4	(BYTE 1 OF FLAGS:)
	1...		RTCTSDSS	BIT0 GSRB IN ADDR SPACE SCHEDULED
	.1..		RTCTSDNC	BIT1 NON-DISPATCHABLE SRB RECEIVED CONTROL
	..1.		RTCTSDAN	BIT2 ADDRESS SPACE SET NON-DISPATCHABLE
	...1		RTCTSDRM	BIT3 DUMP TASK HAS BEEN RESUMED
	.... 1...		RTCTSDTR	BIT4 DUMP TASK RUNNING
	.... .1..		RTCTSDEQ	BIT5 DUMP TASK ENQUEUED ON DUMP RESOURCE
1.		RTCTSDEN	BIT6 SVC DUMP (IEAVAD00 OR IEAVTSDT) IS PROCESSING THIS A.S.
1.		RTCTSDDO	BIT7 DUMP ATTEMPTED FOR THIS ASID

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
271 (10F)	BITSTRING	1	RTCTSDF5	RESERVED
272 (110)	CHARACTER	60		REMAINING 15 ASID ENTRIES

RTM INFORMATION

332 (14C)	A-ADDRESS	4	RTCTMRMQ	ADDRESS OF QUEUE OF STORAGE AREAS (USED FOR SYSDUMPS) TO BE FREED AT MEMTERM
336 (150)	SIGNED	4	RTCTZZZ4	RESERVED
340 (154)	SIGNED	4	RTCTZZZ5	RESERVED

CROSS REFERENCE

BIT0	0 X'80'	RTCTSABF	6 X'01'
BIT1	0 X'40'	RTCTSABG	5 X'80'
BIT2	0 X'20'	RTCTSABH	5 X'40'
BIT3	0 X'10'	RTCTSAB0	4 X'80'
BIT4	0 X'08'	RTCTSAB1	4 X'40'
BIT5	0 X'04'	RTCTSAB2	4 X'20'
BIT6	0 X'02'	RTCTSAB3	4 X'10'
BIT7	0 X'01'	RTCTSAB4	4 X'08'
RTCT	0 (0)	RTCTSAB5	4 X'04'
RTCTASAL	252 X'80'	RTCTSAB6	4 X'02'
RTCTASCS	253 X'80'	RTCTSAB7	4 X'01'
RTCTASLP	252 X'02'	RTCTSAB8	6 X'80'
RTCTASLS	252 X'08'	RTCTSAB9	6 X'40'
RTCTASNA	253 X'08'	RTCTSADA	238 X'20'
RTCTASNQ	253 X'04'	RTCTSADB	238 X'10'
RTCTASNS	253 X'10'	RTCTSADC	238 X'08'
RTCTASNU	252 X'20'	RTCTSADD	238 X'04'
RTCTASO	252 (FC)	RTCTSAD E	238 X'02'
RTCTASOD	252 (FC)	RTCTSADF	238 X'01'
RTCTASO1	252 (FC)	RTCTSADG	237 X'80'
RTCTASO2	253 (FD)	RTCTSADH	237 X'40'
RTCTASPS	252 X'40'	RTCTSAD0	236 X'80'
RTCTASRG	252 X'04'	RTCTSAD1	236 X'40'
RTCTASSQ	252 X'10'	RTCTSAD2	236 X'20'
RTCTASSU	253 X'20'	RTCTSAD3	236 X'10'
RTCTASSW	253 X'40'	RTCTSAD4	236 X'08'
RTCTASTR	252 X'01'	RTCTSAD5	236 X'04'
RTCTDCB	40 (28)	RTCTSAD6	236 X'02'
RTCTDETP	39 X'20'	RTCTSAD7	236 X'01'
RTCTDEV	44 (2C)	RTCTSAD8	238 X'80'
RTCTDSNM	36 (24)	RTCTSAD9	238 X'40'
RTCTDSST	39 X'80'	RTCTSADG	239 X'02'
RTCTDSUS	39 X'40'	RTCTSAO	236 (EC)
RTCTEASD	228 (E4)	RTCTSAOV	239 X'02'
RTCTECPU	226 (E2)	RTCTSAO1	236 (EC)
RTCTERID	224 (E0)	RTCTSAO2	237 (ED)
RTCTESEQ	224 (E0)	RTCTSAO3	238 (EE)
RTCTETIM	230 (E6)	RTCTSAO4	239 (EF)
RTCTFASB	24 (18)	RTCTSAP	4 (4)
RTCTFLG	39 (27)	RTCTSAPD	238 (EE)
RTCTFMT	160 (A0)	RTCTSAP1	4 (4)
RTCTINDX	255 (FF)	RTCTSAP2	5 (5)
RTCTISAB	239 X'01'	RTCTSAP3	6 (6)
RTCTISVC	251 X'01'	RTCTSAP4	7 (7)
RTCTISYM	247 X'01'	RTCTSASD	236 (EC)
RTCTISYU	243 X'01'	RTCTSDAN	270 X'20'
RTCTMECB	20 (14)	RTCTSDAS	268(10C)
RTCTMLCK	164 (A4)	RTCTSDDI	265 X'20'
RTCTHRMQ	332(14C)	RTCTSDDO	270 X'01'
RTCTMSRB	168 (A8)	RTCTSDDS	36 (24)
RTCTNAME	0 (0)	RTCTSDEN	270 X'02'
RTCTOPT	236 (EC)	RTCTSD EP	264 X'08'
RTCTPLIB	4 (4)	RTCTSD EQ	270 X'04'
RTCTRCB	32 (20)	RTCTSD F	264(108)
RTCTRECB	28 (1C)	RTCTSD F1	264(108)
RTCTRFLG	176 (B0)	RTCTSD F2	265(109)
RTCTRPER	176 X'40'	RTCTSD F3	268(10C)
RTCTRSTF	176 X'20'	RTCTSD F4	270(10E)
RTCTRTER	176 X'80'	RTCTSD F5	271(10F)
RTCTSABA	6 X'20'	RTCTSDI	254 (FE)
RTCTSABB	6 X'10'	RTCTSDID	18 (12)
RTCTSABC	6 X'08'	RTCTSDIP	156 X'80'
RTCTSABD	6 X'04'	RTCTSDLA	265 X'10'
RTCTSABE	6 X'02'	RTCTSDMA	264 X'10'

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CROSS REFERENCE

RTCTSDMG	251 X'02'	RTCTSUDF	10 X'01'
RTCTSDMR	265 X'80'	RTCTSUDG	9 X'80'
RTCTSDHA	254 (FE)	RTCTSUDH	9 X'40'
RTCTSDNC	270 X'40'	RTCTSUD0	8 X'80'
RTCTSDND	264 X'40'	RTCTSUD1	8 X'40'
RTCTSDNO	264 X'80'	RTCTSUD2	8 X'20'
RTCTSDO	248 (F8)	RTCTSUD3	8 X'10'
RTCTSDOD	248 (F8)	RTCTSUD4	8 X'08'
RTCTSDOV	251 X'02'	RTCTSUD5	8 X'04'
RTCTSDO1	248 (F8)	RTCTSUD6	8 X'02'
RTCTSDO2	249 (F9)	RTCTSUD7	8 X'01'
RTCTSDO3	250 (FA)	RTCTSUD8	10 X'80'
RTCTSDO4	251 (FB)	RTCTSUD9	10 X'40'
RTCTSDPA	249 X'20'	RTCTSUNG	243 X'02'
RTCTSDPB	249 X'10'	RTCTSUO	240 (F0)
RTCTSDPC	249 X'08'	RTCTSUOV	243 X'02'
RTCTSDPD	249 X'04'	RTCTSUO1	240 (F0)
RTCTSDPG	250 X'80'	RTCTSUO2	241 (F1)
RTCTSDPH	250 X'40'	RTCTSUO3	242 (F2)
RTCTSDPL	156 (9C)	RTCTSUO4	243 (F3)
RTCTSDPR	256(100)	RTCTSUP	8 (8)
RTCTSDP0	248 X'80'	RTCTSUPD	242 (F2)
RTCTSDP1	248 X'40'	RTCTSUP1	8 (8)
RTCTSDP2	248 X'20'	RTCTSUP2	9 (9)
RTCTSDP3	248 X'10'	RTCTSUP3	10 (A)
RTCTSDP4	248 X'08'	RTCTSUP4	11 (B)
RTCTSDP5	248 X'04'	RTCTSUSD	240 (F0)
RTCTSDP6	248 X'02'	RTCTSYD	12 (C)
RTCTSDP7	248 X'01'	RTCTSYDA	242 X'20'
RTCTSDP8	249 X'80'	RTCTSYDB	242 X'10'
RTCTSDP9	249 X'40'	RTCTSYDC	242 X'08'
RTCTSDRM	270 X'10'	RTCTSYDD	242 X'04'
RTCTSDRS	264 X'02'	RTCTSYDE	242 X'02'
RTCTSDRW	265 X'02'	RTCTSYDF	242 X'01'
RTCTSDSC	264 X'01'	RTCTSYDG	241 X'80'
RTCTSDSD	264 X'04'	RTCTSYDH	241 X'40'
RTCTSDSH	264 X'20'	RTCTSYD0	240 X'80'
RTCTSDSL	265 X'04'	RTCTSYD1	240 X'40'
RTCTSDSS	270 X'80'	RTCTSYD2	240 X'20'
RTCTSDSW	180 (B4)	RTCTSYD3	240 X'10'
RTCTSDS0	244 X'80'	RTCTSYD4	240 X'08'
RTCTSDS1	244 X'40'	RTCTSYD5	240 X'04'
RTCTSDS2	244 X'20'	RTCTSYD6	240 X'02'
RTCTSDS3	244 X'10'	RTCTSYD7	240 X'01'
RTCTSDS4	244 X'08'	RTCTSYD8	242 X'80'
RTCTSDS5	244 X'04'	RTCTSYD9	242 X'40'
RTCTSDS6	244 X'02'	RTCTSYM0	12 X'80'
RTCTSDS7	244 X'01'	RTCTSYM1	12 X'40'
RTCTSDTQ	265 X'40'	RTCTSYM2	12 X'20'
RTCTSDTR	270 X'08'	RTCTSYM3	12 X'10'
RTCTSDWF	265 X'08'	RTCTSYM4	12 X'08'
RTCTSDWK	220 (DC)	RTCTSYM5	12 X'04'
RTCTSD01	244 (F4)	RTCTSYM6	12 X'02'
RTCTSD02	245 (F5)	RTCTSYM7	12 X'01'
RTCTSD03	246 (F6)	RTCTSY0	244 (F4)
RTCTSD04	247 (F7)	RTCTSY01	12 (C)
RTCTSEQ#	178 (B2)	RTCTSY02	13 (D)
RTCTSMHG	247 X'02'	RTCTSY03	14 (E)
RTCTSMOV	247 X'02'	RTCTSY04	15 (F)
RTCTSUDA	10 X'20'	RTCTTDCB	184 (B8)
RTCTSUDB	10 X'10'	RTCTTEST	172 (AC)
RTCTSUDC	10 X'08'	RTCTXXX1	177 (B1)
RTCTSUDD	10 X'04'	RTCTXXX2	234 (EA)
RTCTSUDE	10 X'02'	RTCTYYY1	16 (10)

CROSS REFERENCE

RTCTZZZ2	257(101)
RTCTZZZ3	266(10A)
RTCTZZZ4	336(150)
RTCTZZZ5	340(154)

RTM2WACommon Name: RTM2 Work AreaMacro ID: IHARTM2ADSECT Name: RTM2WACreated by: IEAVTRT2Subpool and Key: 255 and key 0, or subpool 245 and key 0Size: 872 bytesPointed to by: TCERTWA field of the TCB data area
ESART2WA field of the RTM2ESA data area
in the ABEND SVRB
ASCERTWA field of the ASCB data area
RTM2PREV field of the RTM2WA data area
(previously acquired task RTM2WA)Serialization: NoneFunction: Maps description of the errors and control flags
for subfunctions of task or memory termination within RTM2.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	972	RTM2WA	MAPPHG OF WORK AREA
0	(0) UNKNOWN	12	RTM2DESC	RTM2 SELF DESCRIPTION
0	(0) UNKNOWN	4	RTM2ID	CONTAINS 'RTM2' AS ID
4	(4) UNKNOWN	4	RTM2ADDR	CONTAINS ADDR OF THIS RTM2WA
8	(8) UNKNOWN	4	RTM2RT2D	DESCRIPTION OF RTM2WA
8	(8) UNKNOWN	1	RTM2SPID	CONTAINS SPID OF THIS RTM2WA
9	(9) UNKNOWN	3	RTM2LGTH	CONTAINS LENGTH OF THIS RTM2WA
12	(C) UNKNOWN	4	RTM2CVT	CONTAINS ADDRESS OF THE CVT
16	(10) UNKNOWN	4	RTM2TCBC	ADDRESS OF THE CURRENT TCB
20	(14) UNKNOWN	4	RTM2VRBC	ADDRESS OF THE CURRENT SVRB
24	(18) UNKNOWN	4	RTM2ASC	ADDRESS OF CURRENT ASCB
28	(1C) UNKNOWN	4	RTM2CODE	CONTAINS COMPLETION CODE, FLAGS
28	(1C) UNKNOWN	1	RTM2CCF	FLAGS
	1... ..		RTM2DREQ	DUMP REQUESTED
	.1.. ..		RTM2STEP	STEP REQUESTED
	..1.		RTM2R0DP	REG 0 CONTAINS PARAMETERS

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	...1		RTM2EOM	MEMORY TERMINATION REQUESTED
	.... 1....		RTM2EOT	TASK TERMINATION REQUESTED
29	.... .111 (1D) UNKNOWN	3	RTM2CC	NOT USED COMPLETION CODE
32	(20) UNKNOWN	16	RTM2SFWA	WORK AREA FOR COMPILER TEMPS
48	(30) UNKNOWN	4	RTM2TCBT	ADDRESS OF TOP TCB IN THE FAILING TREE
52	(34) UNKNOWN	4	RTM2VRBT	RTM2 SVRB QUEUED FROM TOP TCB IN FAILING TREE
56	(38) UNKNOWN	4	RTM2CT	ADDRESS OF RTMCT
60	(3C) UNKNOWN	126	RTM2PGCY	THE FOLLOWING FIELDS ARE COPIED INTO THE RTM2WA WHEN RIM2 IS ENTERED FOR PURGE ONLY
60	(3C) UNKNOWN	126	RTM2TRRY	THE FOLLOWING ARE TASK RECOVERY FIELDS
60	(3C) UNKNOWN	80	RTM2EEDR	THE FOLLOWING CONTAINS ERROR REGISTERS AND PSW
60	(3C) UNKNOWN	64	RTM2EREG	GENERAL PURPOSE REGISTERS AT TIME OF ERROR
60	(3C) UNKNOWN	4	RTM2ER0	REGISTER 0
64	(40) UNKNOWN	4	RTM2ER1	REGISTER 1
68	(44) UNKNOWN	4	RTM2ER2	REGISTER 2
72	(48) UNKNOWN	4	RTM2ER3	REGISTER 3
76	(4C) UNKNOWN	4	RTM2ER4	REGISTER 4
80	(50) UNKNOWN	4	RTM2ER5	REGISTER 5
84	(54) UNKNOWN	4	RTM2ER6	REGISTER 6
88	(58) UNKNOWN	4	RTM2ER7	REGISTER 7

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
92	(5C) UNKNOWN	4	RTM2ER8	REGISTER 8
96	(60) UNKNOWN	4	RTM2ER9	REGISTER 9
100	(64) UNKNOWN	4	RTM2ER10	REGISTER 10
104	(68) UNKNOWN	4	RTM2ER11	REGISTER 11
108	(6C) UNKNOWN	4	RTM2ER12	REGISTER 12
112	(70) UNKNOWN	4	RTM2ER13	REGISTER 13
116	(74) UNKNOWN	4	RTM2ER14	REGISTER 14
120	(78) UNKNOWN	4	RTM2ER15	REGISTER 15
124	(7C) UNKNOWN	16	RTM2APSW	EXTENDED CONTROL PSW AT TIME OF ERROR
124	(7C) UNKNOWN	8	RTM2EPSW	EXTENDED CONTROL PSW AT TIME OF ERROR FIRST DBL WORD
124	(7C) UNKNOWN	1	RTM2EMK1	INTERRUPT INFORMATION MASKS
	1... ..			NOT USED
	.1.. ..		RTM2PER1	PROGRAM EVENT RECORDING
	..11 ..			NOT USED
	.... 1..		RTM2EAM1	EXTENDED ADDRESSING MODE
	.... .1..		RTM2TRM1	ADDRESS TRANSLATION ACTIVE
	.... ..1.		RTM2AIO1	OFF, I/O INTERRUPTION CANNOT OCCUR ON, I/O INTERRUPTIONS CAN OCCUR SUBJECT TO EXTERNAL SUBCLASS MASK BITS OF
	.... ...1		RTM2EXT1	CONTROL REG 0 OFF, EXTERNAL INTERRUPTIONS CANNOT OCCUR ON, EXTERNAL INTERRUPTIONS. CAN OCCUR SUBJECT TO EXTERNAL SUBCLASS MASK BITS OF
125	(7D) UNKNOWN	1	RTM2MWPI	CONTROL REG 0 PSW KEY AND
	1111 ..		RTM2KEY1	'M-W-P' PSW KEY

RTM2WA

RTM2WA

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... 1...		RTM2ECT1	EXTENDED CONTROL MODE
	.... .1..		RTM2MCK1	OFF, MACHINE CHECK CANNOT OCCUR ON, MACHINE CHECK DUE TO SYSTEM DAMAGE AND INSTRUCTION PROCESSING DAMAGE CAN OCCUR OTHER MACHINE CHECKS SUBJECT TO MASK BITS IN CONTROL REG 14
	.... .1.		RTM2WAT1	ON, CPU IN WAIT STATE
	.... ...1		RTM2PGM1	ON, PROBLEM STATE OFF, SUPERVISOR STATE
126	(7E) UNKNOWN	1	RTM2INT1	CONDITION CODE AND PROGRAM MASK
	11..			NOT USED
	..11		RTM2CC1	CONDITION CODE
	.... 1...		RTM2FPO1	FIXED POINT OVERFLOW
	.... .1..		RTM2DEC1	DECIMAL OVERFLOW
	.... .1.		RTM2EXP1	EXPONENT OVERFLOW
	.... ...1		RTM2SGN1	SIGNIFICANCE RESERVED
127	(7F) UNKNOWN	1		

128	(80) UNKNOWN	4	RTM2NXT1	ADDRESS OF NEXT INSTRUCTION

128	(80) UNKNOWN	1		RESERVED
129	(81) UNKNOWN	3	RTM2ADD1	INSTRUCTION ADDRESS

132	(84) UNKNOWN	8	RTM2AEC1	ADDITIONAL EC MODE INFORMATION

132	(84) UNKNOWN	1		RESERVED
133	(85) UNKNOWN	1	RTM2ILC1	INSTRUCTION LENGTH CODE
	1111 1...			RESERVED
	.... .11.		RTM2ILI1	ILC
	.... ...1			RESERVED
134	(86) UNKNOWN	2	RTM2INC1	INTERRUPT CODE
134	(86) UNKNOWN	1		RESERVED FOR IMPRECISE INTERRUPTS
135	(87) UNKNOWN	1	RTM2ICD1	8 BIT INTERRUPT CODE
	1...		RTM2IPR1	PER INTERRUPT OCCURRED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.1..		RTM2IMC1	MONITOR CALL INTERRUPT
	..11 1111		RTM2IPC1	AN UNSOLICITED PROGRAM CHECK HAS OCCURRED
136	(88) UNKNOWN	4	RTM2TRAN	TRANSLATION EXCEPTION ADDRESS
140	(8C) UNKNOWN	8	RTM2ABNM	NAME OF ABENDING PROGRAM
148	(94) UNKNOWN	4	RTM2ABEP	ENTRY POINT ADDRESS OF ABENDING PROGRAM
152	(98) UNKNOWN	28	RTM2EEDH	THE FOLLOWING FIELDS CONTAIN DATA CONCERNING MACHINE CHECKS
152	(98) UNKNOWN	8	RTM2STCK	BEGINNING AND ENDING STORAGE CHECK ADDRESSES
152	(98) UNKNOWN	4	RTM2SCKB	BEGINNING STORAGE CHECK ADDR
156	(9C) UNKNOWN	4	RTM2SCKE	ENDING STORAGE CHECK ADDR
160	(A0) UNKNOWN	2	RTM2MCHI	ADDITIONAL MCH INFORMATION FLAGS
160	(A0) UNKNOWN 1...	1	RTM2MCHS RTM2SRVL	MCH FLAG BYTE ON STORAGE ADDRESS SUPPLIED (RTM2STCK, RTM2RFSA) ARE VALID.
	.1..		RTM2RCDF	ON, MACHINE CHECK RECORD NOT RECORDED
	..1.		RTM2TSVL	ON, TIME STAMP VALID
	...1		RTM2INVP	ON, STORAGE IS RECONFIGURED, PAGE IS INVALIDATED.
	.... 1...		RTM2RSRC	ON, STORAGE RECONFIGURATION STATUS AVAILABLE (RTM2RSR1, RTM2RSR2)

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... .1..		RTM2RSRF	ON, STORAGE RECONFIGURATION NOT ATTEMPTED (RTM2RSR1, RTM2RSR2 ARE INVALID)
161	(A1) UNKNOWN	1	RTM2MCHD	RESERVED ADDITIONAL INFORMATION IF ERROR WAS MACHINE CHECK
	1... ..		RTM2SKYF	ON, STORAGE KEY FAILURE
	.1... ..		RTM2REGU	ON, REGISTERS AT TIME OF ERROR MAY BE INVALID
	..1.		RTM2PSWU	ON, PSW AT TIME OF ERROR MAY BE INVALID
	...1		RTM2SCK	ON, STORAGE CHECK
	.... 1...		RTM2ACR	ON, ACR
	.... .1..		RTM2INSF	ON, INSTRUCTION FAILURE
	.... .1.		RTM2SOFT	ON, SOFT ERROR
	.... ..1		RTM2TERR	ON, TIMER ERROR
162	(A2) UNKNOWN	2	RTM2CPID	ID OF FAILING CUP CAUSING ACR
<hr/>				
164	(A4) UNKNOWN	1	RTM2RSR1	ADDITIONAL STORAGE FRAME ERROR INDICATORS AS RETURNED FROM REAL STORAGE RECONFIGURATION
	1111 11..		RTM2MSER	RESERVED STORAGE ERROR ALREADY SET IN FRAME
	.... .1.		RTM2CHNG	CHANGE INDICATOR WAS ON IN FRAME
165	(A5) UNKNOWN	1	RTM2RSR2	ADDITIONAL STORAGE ERROR INDICATORS.
	1... ..		RTM2OFLN	FRAME OFFLINE OR SCHEDULED TO GO OFFLINE IF RTM2INTC IS ON
	.1... ..		RTM2INTC	INTERCEPT THE FRAME IS SCHEDULED TO GO OFFLINE OR THE FRAME HAS INCURRED A STORAGE ERROR OR IS V=R

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
..1.			RTM2SPER	STORAGE ERROR PERMANENT ON FRAME
...1			RTM2NUCL	FRAME CONTAINS PERMANENT RESIDENT STORAGE, I.E., NUCLEUS
.... 1...			RTM2FSQA	FRAME IN SQA
.... .1..			RTM2FLSQ	FRAME IN LSGA
.... .1.			RTM2PGFX	FRAME IS PAGE FIXED
.... ...1			RTM2VEQR	FRAME IS VIRTUAL=REAL OR SCHEDULED FOR VIRTUAL= REAL IF RTM2INTC IS ON RESERVED
166	(A6) UNKNOWN	2		

168	(A8) UNKNOWN	4	RTM2RFSA	REAL STORAGE FAILING ADDRESS. (VALID ONLY IF INDICATED BY RTM2SRVL)

172	(AC) UNKNOWN	8	RTM2TIME	TIME STAMP OF ASSOCIATED MACHINE CHECK

180	(B4) UNKNOWN	4	RTM2FLGS	INPUT FLAGS DESCRIBING REASONS AND CONDITIONS FOR ENTERING RTM2

180	(B4) UNKNOWN	1	RTM2ERRA	ERROR TYPE CAUSING ENTRY TO RTM2
	1...		RTM2MCHK	ON, MACHINE CHECK
	.1..		RTM2PCHK	ON, PROGRAM CHECK
	..1.		RTM2RKEY	ON, CONSOLE RESTART KEY WAS DEPRESSED
	...1		RTM2SVCD	ON, TASK ISSUED SVC 13
	.... 1...		RTM2ABTM	ON, ENTRY VIA ABTERM
	.... .1..		RTM2SVCE	ON, INDICATES AN SVC WAS ISSUED BY A LOCKED OR SRB ROUTINE.
	.... .1.		RTM2TEXC	ON, INDICATES AN UNRECOVERABLE TRANSLATION FAILURE
	.... ...1		RTM2PGIO	ON, INDICATES A PAGE I/O ERROR

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
181	(B5) UNKNOWN	1	RTM2ERRB	ADDITIONAL ERROR ENTRY INFORMATION RESERVED
	1111			
	.... 1...		RTM2TYP1	ON, TYPE 1 SVC IN CONTROL AT TIME OF ERROR
	.... .1..		RTM2ENRB	ON, ENABLED RB IN CONTROL AT TIME OF ERROR
	.... ..1.		RTM2LDIS	ON, A LOGICALLY OR PHYSICALLY DISABLED ROUTINE (OTHER THAN A TYPE 1 SVC) WAS IN CONTROL AT TIME OF ERROR
	.... ...1		RTM2SRBM	ON, SYSTEM IN SRB MODE AT TIME OF ERROR
182	(B6) UNKNOWN	1	RTM2ERRC	ADDITIONAL ERROR ENTRY INFORMATION
	1...		RTM2STAF	ON, A PREVIOUS (E)STAE EXIT FAILED
	.1..		RTM2STAI	ON, A (E)STAI EXIT PREVIOUSLY RECEIVED CONTROL
	..1.		RTM2IRB	ON, AN IRB PRECEDED THE RB THAT IS ASSOCIATED WITH THIS EXIT
	...1		RTM2PERC	ON, THIS RECOVERY ROUTINE IS BEING PERCOLATED TO
	.... 1...		RTM2EAS	ON, A LOWER LEVEL EXIT HAS RECOGNIZED AN ERROR AND PROVIDED SERVICABILITY INFO.
183	(B7) UNKNOWN	1	RTM2ERRD	RESERVED ADDITIONAL ERROR ENTRY INFORMATION
	.... .111			
	1...		RTM2CLUP	ON, INDICATES RECOVERY ROUTINE ONLY TO CLEAN UP AND NOT RETRY (IF 33E COMPLETION CODE THE DUMP IS TAKEN AFTER ENTRY TO THE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				RECOVERY ROUTINE, IF THE COMPLETION CODE IS OTHER THAN 33E, THE DUMP IS TAKEN BEFORE ENTRY TO THE RECOVERY ROUTINE)
.1..			RTM2NRBE	ON, RB ASSOCIATED WITH THIS ESTA EXIT WAS NOT IN CONTROL AT TIME OF ERROR
..1.			RTM2STAE	ON, THIS ESTA EXIT HAS BEEN ENTERED FOR A PREVIOUS ABEND.
...1			RTM2CTS	ON, THIS TASK WAS NOT IN CONTROL AT TIME OF ERROR BUT A TASK WITHIN THE SAME JOBSTEP TREE REQUESTED A 'STEP' ABEND. ONLY ON IF RTM2CLUP IS ON.
.... 1...			RTM2MABD	ON, THIS TASK WAS NOT IN CONTROL AT TIME OF ERROR BUT AN ANCESTOR OF THIS TASK HAS ABENDED. ONLY ON IF RTM2CLUP IS ON.
.... .1..			RTM2RPIV	ON, THE REGISTERS AND PSW AT TIME OF ERROR ARE UNAVAILABLE
.... ..1.			RTM2MCIV	ON, MACHINE CHECK ERROR INFORMATION IS UNAVAILABLE
.... ...1			RTM2ERFL	ON, ERRORID INFORMATION AVAILABLE

184	(B8) UNKNOWN	2	RTM2FMID	ASID OF MEMORY IN WHICH ERROR OCCURRED. EQUAL TO ZERO IF CURRENT MEMORY FAILED. NOT EQUAL TO ZERO IF CROSS

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
186	(BA) UNKNOWN	522	RTM2CVER	MEMORY ABTERM. THE FOLLOWING FIELDS ARE ZEROED IN THE RTM2WA WHEN RTM2 IS ENTERED FOR CONVERT TO STEP
186	(BA) UNKNOWN	50	RTM2TRRC	TASK RECOVERY FIELDS CONTINUED
186	(BA) UNKNOWN	1	RTM2IOFS	CURRENT I/O STATUS
	1... ..		RTM2IOQR	ON, I/O FOR TASK HAS BEEN QUIESCED AND IS RESTORABLE
	.1.. ..		RTM2IOHT	ON, I/O FOR FAILING TASK HAS BEEN HALTED AND IS NOT RESTORABLE
	..1.		RTM2NOIO	ON, FAILING TASK HAS NO OUTSTANDING I/O
	...1		RTM2NIOP	ON, TASK REQUESTED NO I/O PROCESSING RESERVED
	.... 1111			RESERVED
187	(BB) UNKNOWN	1		RESERVED

188	(BC) UNKNOWN	4	RTM2IOBP	4-BYTE PTR TO I/O RESTORE CHAIN

188	(BC) UNKNOWN	1		FILLER
189	(BD) UNKNOWN	3	RTM2FIOB	ADDRESS OF I/O RESTORE CHAIN

192	(C0) UNKNOWN	4	RTM2RBST	STOPPER RB USED BY TASK RECOVERY WHEN CHECKING FOR AN INTERVENING IRB

196	(C4) UNKNOWN	4	RTM2STAR	RB RELATED TO ESTAR EXIT

200	(C8) UNKNOWN	12	RTM2SCBS	BEGINNING, ENDING, AND CURRENT SCB ADDRESSES TO BE ENTERED

200	(C8) UNKNOWN	4	RTM2SCBC	ADDRESS OF CURRENT SCB

204	(CC) UNKNOWN	4	RTM2SCBN	ADDRESS OF NEWEST SCB

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
208	(D0) UNKNOWN	4	RTM2SCBO	ADDRESS OF OLDEST SCB
212	(D4) UNKNOWN	8	RTM2RTCD	DESCRIPTION OF THE SDWA
212	(D4) UNKNOWN	4	RTM2RTCA	ADDRESS OF THE SDWA
216	(D8) UNKNOWN	4	RTM2SPLL	SUBPL & LNGTH OF SDWA
216	(D8) UNKNOWN	1	RTM2SUBP	SUBPOOL ID OF SDWA
217	(D9) UNKNOWN	3	RTM2SIZE	LENGTH OF SDWA
220	(DC) UNKNOWN	4	RTM2COMP	USED TO SAVE SDWACOMP DURING PERCOLATION
224	(E0) UNKNOWN	4	RTM2RTYA	RETRY ADDRESS RETURNED FROM A RECOVERY EXIT
228	(E4) UNKNOWN	4	RTM2RYRB	ADDRESS OF THE RB AT WHICH THE RETRY WILL OCCUR
232	(E8) UNKNOWN	4	RTM2PARQ	USED TO SAVE RECOVERY ROUTINE FLAGS DURING PERCOLATION
232	(E8) UNKNOWN	1	RTM2RCDE	RETURN CODE FROM RECOVERY ROUTINE TO INDICATE RETRY OR TERMINATION 0, CONTINUE WITH TERMINATION IMPLIES PERCOLATION 4, RETRY 8, RETRY (ONLY VALID FROM STAE) 12, RETRY (ONLY VALID FROM STAE) 16, PREVENT FURTHER STAI/ESTAI PROCESSING AND CONTINUE WITH TERMINATION RESERVED
233	(E9) UNKNOWN	3		

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
236	(EC) UNKNOWN	8	RTM2CTL1	BC MODE PSW AT TIME OF ERROR
236	(EC) UNKNOWN	1	RTM2CMKA	CHANNEL INTERRUPTS MASKS.
	1111 111.		RTM2IOA	I/O INTERRUPTS (ALL ZEROES OR ALL ONES.
	.... ...1		RTM2EXTA	EXTERNAL INTERRUPT.
237	(ED) UNKNOWN	1	RTM2MWPA	PSW KEY AND 'M-W-P'.
	1111		RTM2KEYA	PSW KEY. RESERVED
	.... 1...		RTM2MCKA	MACHINE CHECK INTERRUPT
	.... .1..		RTM2WATA	WAIT STATE SUPERVISOR/PROBLEM-PROGRAM MODE
	.... ...1		RTM2SPVA	INTERRUPT CODE (LAST 2 BYTES OF INTERRUPT CODE IF I/O INTERRUPT
238	(EE) UNKNOWN	2	RTM2INTA	INTERRUPT CODE (LAST 2 BYTES OF INTERRUPT CODE IF I/O INTERRUPT
240	(F0) UNKNOWN	1	RTM2PMKA	INSTRUCTION LENGTH CODE, CONDITION CODE, AND PROGRAM MASKS.
	11..		RTM2ILA	INSTRUCTION LENGTH CODE
	..11		RTM2CCA	LAST CONDITION CODE
	.... 1...		RTM2FPA	FIXED-POINT OVERFLOW
	.... .1..		RTM2DOA	DECIMAL OVERFLOW
	.... ...1		RTM2EUA	EXPONENT OVERFLOW
	.... ...1		RTM2SGA	SIGNIFICANCE
241	(F1) UNKNOWN	3	RTM2NXTA	ADDRESS OF NEXT INSTRUCTION TO BE EXECUTED
244	(F4) UNKNOWN	8	RTM2CTL2	BC MODE PSW FROM LAST PRB ON RB CHAIN
244	(F4) UNKNOWN	1	RTM2CMKP	CHANNEL INTERRUPTS MASKS.
	1111 111.		RTM2IOP	I/O INTERRUPTS (ALL ZEROES OR ALL ONES.
	.... ...1		RTM2EXTP	EXTERNAL INTERRUPT.
245	(F5) UNKNOWN	1	RTM2MWPP	PSW KEY AND 'M-W-P'.
	1111		RTM2KEYP	PSW KEY

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... 1...			RESERVED
	.... .1..		RTM2MCKP	MACHINE CHECK INTERRUPT
	.... ..1.		RTM2WATP	WAIT STATE
	.... ....1		RTM2SPVP	SUPERVISOR/PROBLEM PROGRAM MODE
246	(F6) UNKNOWN	2	RTM2INTP	INTERRUPT CODE (LAST 2 BYTES OF INTERRUPT CODE IF I/O INTERRUPT

248	(F8) UNKNOWN	1	RTM2PMKP	INSTRUCTION LENGTH CODE, CONDITION CODE, AND PROGRAM MASKS
	11..		RTM2ILP	INSTRUCTION LENGTH CODE
	..11		RTM2CCP	LAST CONDITION CODE
	.... 1...		RTM2FPP	FIXED POINT OVERFLOW
	.... .1..		RTM2DOP	DECIMAL OVERFLOW
	.... ..1.		RTM2EUP	EXPONENT UNDERFLOW
	.... ....1		RTM2SGP	SIGNIFICANCE
249	(F9) UNKNOWN	3	RTM2NXTP	ADDRESS OF NEXT INSTRUCTION TO BE EXECUTED

252	(FC) UNKNOWN	72	RTM2SNAP	THE FOLLOWING FIELDS ARE INVOLVED WITH DUMP PROCESSING

252	(FC) UNKNOWN	4	RTM2DPLA	ADDRESS OF THE DUMP PARAMETER LIST

256	(100) UNKNOWN	20	RTM2SPRM	SNAP PARM LIST

276	(114) UNKNOWN	32	RTM2DPSL	DUMP STORAGE RANGES (MAXIMUM OF 4 RANGES)

276	(114) UNKNOWN	4	RTM2FRM1	BEGIN ADDR FOR STORAGE RANGE 1
	1...		RTM2LFR1	ON, LAST RANGE SPECIFIED

280	(118) UNKNOWN	4	RTM2TO1	END ADDR FOR STORAGE RANGE 1
	1...		RTM2LTO1	ON, LAST RANGE SPECIFIED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
284	(11C) UNKNOWN	4	RTM2FRM2	BEGIN ADDR FOR STORAGE RANGE 2
	1... ..		RTM2LFR2	ON, LAST RANGE SPECIFIED

288	(120) UNKNOWN	4	RTM2T02	END ADDR FOR STORAGE RANGE 2
	1... ..		RTM2LT02	ON, LAST RANGE SPECIFIED

292	(124) UNKNOWN	4	RTM2FRM3	BEGIN ADDR FOR STORAGE RANGE 3
	1... ..		RTM2LFR3	ON, LAST RANGE SPECIFIED

296	(128) UNKNOWN	4	RTM2T03	END ADDR FOR STORAGE RANGE 3
	1... ..		RTM2LT03	ON, LAST RANGE SPECIFIED

300	(12C) UNKNOWN	4	RTM2FRM4	BEGIN ADDR FOR STORAGE RANGE 4
	1... ..		RTM2LFR4	ON, LAST RANGE SPECIFIED

304	(130) UNKNOWN	4	RTM2T04	END ADDR FOR STORAGE RANGE 4
	1... ..		RTM2LT04	ON, LAST RANGE SPECIFIED

308	(134) UNKNOWN	8	RTM2DD	DDNAME FOR DUMP DATA SET

316	(13C) UNKNOWN	4	RTM2SNCC	RETURN CODE FROM SNAP/ABDUMP 0, SUCCESSFUL COMPLETION 4, INVALID DCB OR UPR ON DCB 8, INVALID TCB, UPR ON TCB, OR INSUFFICIENT STORAGE 12, INVALID DCB TYPE

320	(140) UNKNOWN	4	RTM2DTCB	ADDR OF TOP TCB IN TREE TO BE DUMPED

324	(144) UNKNOWN	32	RTM2SECB	ADDRESSES OF ECB LIST AND ECBs USED IN STACKING

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
324	(144) UNKNOWN	16	RTM2ECBA	ADDRESS OF ECBS
1... ..			RTM2LECB	ON, LAST ECB USED
340	(154) UNKNOWN	16	RTM2ECBS	ECBS
356	(164) UNKNOWN	4	RTM2DCBA	ADDRESS OF A DCB TO BE CLOSED BY TASK RECOVERY PRIOR TO RETRY
360	(168) UNKNOWN	4	RTM2SPWA	ADDRESS OF PREVIOUS RTM2WA GOTTEN FROM SQA FOR THIS MEMORY
364	(16C) UNKNOWN	4	RTM2PREV	ADDRESS OF PREVIOUS RTM2WA ACQUIRED FOR THIS TASK
368	(170) UNKNOWN	4	RTM2PRWA	ADDRESS OF PREVIOUS RTM2WA PERTINENT TO THIS RECURSION
372	(174) UNKNOWN	72	RTM2SFRG	SUBFUNCTION REGISTER SAVE AREA
372	(174) UNKNOWN	72	RTM2SFSA	SUBFUNCTION REGISTER SAVE AREA
444	(1BC) UNKNOWN	1	RTM2PKEY	HOLDS CALLER'S PROTECT KEY FOR MODSET
445	(1BD) UNKNOWN	7	RTM2SCTL	FLAGS USED TO MANAGE PATHS WITHIN RTM2
445	(1BD) UNKNOWN	2	RTM2CCTL	FLAGS USED TO MANAGE CONTROLLER PATHS
1... ..			RTM2STPT	ON, SCOPE OF ABEND IS STEP
.1.. ..			RTM2CNCL	ON, ENTRY IS FOR A 'CANCEL'
..1.			RTM2SQS	ON, RTM2WA ACQUIRED FROM SQS
...1			RTM2ISPC	ON, INITIAL SUBTASK PROCESSING HAS BEEN DONE.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... 1...		RTM2REED	SET ON WHEN RTM2 FINDS A REGISTER TYPE EED ON THE QUEUE
	.... .1..		RTM2HEED	SET ON WHEN RTM2 FINDS A HARDWARE EED
	.... ..1.		RTM2SLIP	ON WHEN SLIP REQUESTED FOR THIS ERROR
	.... ....1		RTM2CONT	USED BY RTM2 AS A CONTROL FLAG IN SEGMENT
	1...		RTM2RSCN	RTCFTCB USED BY RTM2 AS A CONTROL BIT DURING STACKING. ON INDICATES A SUBTASK IN RTM2 HAS BEEN FOUND
	.1..		RTM2DEND	USED BY RTM2 AS A CONTROL BIT WHEN PROCESSING DUMP OPTIONS
	..1.		RTM2RGEB	USED BY RTM2 AS A CONTROL BIT WHEN PROCESSING DUMP OPTIONS
	...1		RTM2NODP	ON=SLIP HAS SPECIFIED THAT ALL DUMP REQUESTS OUT OF THIS CALL TO RTM SHOULD BE IGNORED
447	.... 1111 (1BF) UNKNOWN	1	RTM2TCTL	RESERVED RESERVED FOR TASK TERMINATION
448	(1C0) UNKNOWN	1	RTM2MCTL	RESERVED FOR MEMORY TERMINATION
449	(1C1) UNKNOWN	2	RTM2ABDR	ABDUMP FLAGS
449	(1C1) UNKNOWN	1	RTM2ABID	AREAS DUMPED WHEN ABEND IN PROGRESS
	1...		RTM2CB	ON, DUMP CONTROL BLOCKS
	.1..		RTM2ENQ	ON, DUMP ENQ CONTROL BLOCKS
	..1.		RTM2PSW	ON, DUMP PSW
	...1		RTM2REG	ON, DUMP REGISTERS
	.... 1...		RTM2SAVE	ON, DUMP SAVEAREAS

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... .1..		RTM2SAV2	ON, DUMP SAVEAREA HEADINGS ONLY
	.... ..1.		RTM2OERR	ON, DUMP ERROR CONTROL BLOCKS RESERVED
450	(1C2) UNKNOWN	1	RTM2ABND RTM2NDMP	ABDUMP FLAGS REQ'D INFOR FOR DUMP MISSING NO DUMP PROVIDED
	.1..		RTM2STAT	INDICATES TREE MUST BE SET NO
451	(1C3) UNKNOWN	1	RTM2RCTL	FLAGS USED TO MANAGE TASK RECOVERY PATHS
	1...		RTM2STA2	ON, STAE EXIT ENTERED FOR THIS ERROR
	.1..		RTM2WAIN	ON, SDWA INVALID ON RETURN FROM EXIT
	..1.		RTM2WANA	ON, SDWA NOT ACQUIRED
	...1		RTM2TRSW	USED BY TASK RECOVERY FOR LOOP CONTROL
	.... 1...		RTM2BFTL	USED BY TASK RECOVERY AS FIRST TIME LOGIC INDICATOR
	.... .1..		RTM2LPAQ	USED BY TASK RECOVERY WHEN THE* LINK PACK AREA CDE CHAIN IS BEING SEARCHED
	.... ..1.		RTM2JPAQ	USED BY TASK RECOVERY WHEN THE JOB PACK AREA CDE CHAIN IS BEING SEARCHED RESERVED
	.... ...1			
452	(1C4) UNKNOWN	8	RTM2INTF	FLAGS USED TO MANAGE PATHS ACROSS RTM2 SUBFUNCTIONS
452	(1C4) UNKNOWN	1	RTM2CTLR	FLAGS USED TO COMMUNICATE WITH THE CONTROLLER
	1...		RTM2RECR	ON, THIS IS RECURSIVE ENTRY
	.1..		RTM2RETR	ON, RETRY REQUESTED BY EXIT

RTM2WA

RTM2WA

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	...1		RTM2TMEM	ON, TASK TERMINATION HAS ENDED THE LAST TASK IN THE MEMORY
	...1		RTM2WRAP	ON, INDICATES STORAGE RANGES WRAPPED AROUND RESERVED
453	.... 1111 (1C5) UNKNOWN	1		RESERVED
454	(1C6) UNKNOWN	1	RTM2TSKT	FLAGS USED TO COMMUNICATE WITH TASK TERMINATION
	1...		RTM2PURG	ON, PURGE ONLY ENTRY
455	.111 1111 (1C7) UNKNOWN	1	RTM2MEMT	RESERVED RESERVED FOR MEMORY TERMINATION

456	(1C8) UNKNOWN	1	RTM2ABDP	FLAGS USED TO COMMUNICATE WITH ABDUMP
	1...		RTM2DMP1	ON, DUMP ONLY ONE TASK (RETRY WITH DUMP WAS REQUESTED)
	.1..		RTM2SHDP	SYSDUMP IN PROCESS
457	..11 1111 (1C9) UNKNOWN	1	RTM2ASIR	RESERVED FLAGS USED TO COMMUNICATE WITH TASK RECOVERY
	1...		RTM2TRME	ON, ENTER ONLY TERM EXITS
	.1..		RTM2UPRG	ALL REGS TO BE UPDATED
458	..11 1111 (1CA) UNKNOWN	2	RTM2FLX	RESERVED FLAGS USED TO COMMUNICATE WITH THE EXIT HANDLER
458	(1CA) UNKNOWN 1...	1	RTM2FLX1 RTM2MTX	ON, MEMORY PURGE EXIT
	.1..		RTM2EOTX	ON, NORMAL END OF TASK EXIT
	..1.		RTM2ABX	ON, ABEND EXIT
	...1		RTM2DWX	ON, SUBTASK WAITING EXIT
	.... 1..		RTM2CVX	ON, CONVERT TO STEP EXIT
	.... .1.		RTM2PRX	ON, PERMANENT TASK EXIT
	.... ..1.		RTM2LTX	ON, LAST TASK EXIT
459	.... ..1 (1CB) UNKNOWN	1	RTM2RTRX RTM2FLX2 RTM2RCRX	ON, RETRY EXIT ON, RECURSION EXIT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.1..			RTM2CERX	ON, THE RTM2 CONTROLLER HAS DETECTED AN UNRECOVERABLE ERROR. EXIT IS TO CRITICAL ERROR ROUTINE RESERVED
..11 1111				
460 (1CC) UNKNOWN		20	RTM2RECL	FLAGS USED TO MAINTAIN TRACKS FOR RECURSIVE ENTRIES
460 (1CC) UNKNOWN		4	RTM2SCTC	CURRENT SECTION FLAG
464 (1D0) UNKNOWN		4	RTM2SCTR	PREVIOUS SECTION FLAGS INDICATING WHICH SECTIONS HAVE SUFFERED RECURSION
468 (1D4) UNKNOWN		4	RTM2SCTX	EXIT TYPE SECTION FLAGS INDICATING WHICH SECTIONS RECURSION ADDRESS SHOULD RECEIVE CONTROL
472 (1D8) UNKNOWN		1	RTM2DCTL	FUNCTIONS COMPLETED IN ABDUMP
1...			RTM2DENQ	ENQ ON DUMP DATA SET COMPLETED
.1..			RTM2DGET	GETMAIN FOR DCB COMPLETED
..1.			RTM2DOPN	OPEN FOR DUMP DATA SET DONE
...1			RTM2DSNP	SNAP PROCESSING COMPLETED
.... 1..			RTM2DCLS	CLOSE COMPLETED
.... .1..			RTM2DFRM	FREEMAIN FOR DCB COMPLETED
.... ..1.			RTM2DDEQ	DEQ COMPLETED
.... ...1			RTM2DFTK	FIRST TCB DUMPED
473 (1D9) UNKNOWN		1	RTM2ECTL	EXTERNAL ROUTINE INDICATORS (ABDUMP)
1...			RTM2EENQ	ENQ IN CNTRL
.1..			RTM2EGET	GETMAIN FOR DCB IN CNTRL
..1.			RTM2EOPN	OPEN IN CONTROL
...1			RTM2ESNP	SNAP IN CNTRL

RTM2WA

RTM2WA

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... 1...			RTM2ECLS	CLOSE IN CNTRL
.... .1..			RTM2EFRM	FREEMAIN IN CONTROL
.... ..1.			RTM2EDEQ	DEQ IN CONTROL
....1			RTM2EQMN	QMHGRIO IN CONTROL
474 (1DA) UNKNOWN		2	RTM2TMER	RESERVED FOR EOT, MEMORY TERMINATION, TASK TERMINATION

476 (1DC) UNKNOWN		4	RTM2TRYR	RESERVED FOR TASK RECOVERY AND TERM EXIT PROCESSOR

476 (1DC) UNKNOWN		2	RTM2TRF1	EXTERNAL ROUTINE INDICATORS (TASK RECOVERY)
1...			RTM2IOQS	QUIESCE IN CONTROL
.1..			RTM2IOHS	HALT IN CONTROL
..1.			RTM2IORS	RESTORE IN CONTROL
...1			RTM2GMS	GETMAIN IN CONTROL
.... 1...			RTM2PPS	PURGE PAGE-IN IN CONTROL
.... .1..			RTM2HOOK	GTF IN CONTROL
.... ..1.			RTM2VLDY	VALIDITY CHECK IN CONTROL
....1			RTM2FMS	FREEMAIN IN CONTROL
1...			RTM2RCD	RECORD IN CONTROL
.1..			RTM2RTYS	RETRY SECTION IN CONTROL
..1.			RTM2XIP	EXIT IN PROGRESS
...1			RTM2XABD	EXIT ABENDED
.... 1...			RTM2XFLG	EXIT HAS BEEN ENTERED
.... .1..			RTM2AS1R	AS1 IN CONTROL
.... ..1.			RTM2AS2R	AS2 IN CONTROL
....1			RTM2AS3R	AS3 IN CONTROL
478 (1DE) UNKNOWN		1	RTM2TRF2	PRE EXIT RECURSION INDICATORS
1...			RTM2IOR	I/O RECURSION
.1..			RTM2PPR	PURGE PAGE-IN RECURSION
..1.			RTM2GMR	GETMAIN RECURSION
...1			RTM2TREC	TRACE COPY RECURSION
.... 1111				RESERVED
479 (1DF) UNKNOWN		1		RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
480	(1E0) UNKNOWN	16	RTM2RECH	RECURSION HANDLER ADDRESSES
480	(1E0) UNKNOWN	4	RTM2TRRA	ADDRESS OF SUBFUNCTION RECURSION HANDLER
484	(1E4) UNKNOWN	4	RTM2SKRA	ADDRESS OF CONTROLLER RECURSION HANDLER
488	(1E8) UNKNOWN	4	RTM2STRA	ADDRESS OF STEP CONVERSION RECURSION HANDLER
492	(1EC) UNKNOWN	4	RTM2CTRA	ADDRESS OF CRITICAL RECURSION HANDLER
496	(1F0) UNKNOWN	2		RESERVED
498	(1F2) UNKNOWN	1	RTM2WARG	WORK AREA REGISTER
499	(1F3) UNKNOWN	1	RTM2RBRG	RB REGISTER FOR RTM2 SVRB
500	(1F4) UNKNOWN	64	RTM2RRG	RECURSION REGISTERS
500	(1F4) UNKNOWN	64	RTM2RREG	REGISTER VALUES TO BE LOADED BEFORE GOING TO A SUBFUNCTION RECURSION ROUTINE
564	(234) UNKNOWN	72	RTM2CRG	SAVE AREA FOR IEAVTRT2
564	(234) UNKNOWN	72	RTM2CREG	REGISTER SAVE AREA FOR IEAVTRTC AND IEAVTRTE
636	(27C) UNKNOWN	72	RTM2TRSA	REGISTER SAVE AREA FOR IEAVTAS2 AND IEAVTAS3
708	(2C4) UNKNOWN	164	RTM2RMIN	RESOURCE MANAGER INTERFACE AREA

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
708 (2C4)	UNKNOWN	4	RTM2RMPS	ADDR OF THE RESOURCE MANAGER PARAMETER LIST (RTM2RMPL)
712 (2C8)	UNKNOWN	24	RTM2RMPL	R/M PARM LIST
736 (2E0)	UNKNOWN	64	RTM2RMWA	FIELD REFERENCE NAME FOR RTM2RMWS
736 (2E0)	UNKNOWN	64	RTM2RMWS	WORK AREA FOR RESOURCE MANAGER USE
800 (320)	UNKNOWN	72	RTM2RMISA	RESOURCE MANAGER SAVE AREA
872 (368)	UNKNOWN	10	RTM2ERID	ERRORID
872 (368)	UNKNOWN	2	RTM2SEQ#	SEQUENCE NUMBER
874 (36A)	UNKNOWN	2	RTM2CPUI	LOGICAL CPUID
876 (36C)	UNKNOWN	2	RTM2ERAS	ASID FOR ERROR MEMORY
878 (36E)	UNKNOWN	4	RTM2ERTM	TIME STAMP
882 (372)	UNKNOWN	2		RESERVED
884 (374)	UNKNOWN	20	RTM2ENSN	USED BY ADDUMP, CONTAINS THE COPIED TRACE TABLE ADDRESS AND TRACE SIZE
884 (374)	UNKNOWN	4	RTM2SNLN	LENGTHS OF SAVED DATA AREA
884 (374)	UNKNOWN	4	RTM2TRLN	LENGTH OF COPIED TRACE TABLE
888 (378)	UNKNOWN	4	RTM2TRTB	COPIED TRACE TABLE ADDRESS
892 (37C)	UNKNOWN	4	RTM2TRCU	CURRENT TRACE TABLE ENTRY FOR THE COPIED TRACE TABLE
896 (380)	UNKNOWN	4	RTM2TRFS	FIRST TRACE TABLE ENTRY FOR THE COPIED TRACE TABLE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
900	(384) UNKNOWN	4	RTM2TRLS	LAST TRACE TABLE ENTRY FOR THE COPIED TRACE TABLE
904	(388) UNKNOWN	68	RTM2RYRG	REG SAVEAREA FOR RETRY@G33SPHW
904	(388) UNKNOWN	64	RTM2RYRS	SAVEAREA ARRAY
968	(3C8) UNKNOWN	4	RTM2TECB	TRACE PROCESS ECB
0	(0) UNKNOWN	32	STORAGE	
0	(0) UNKNOWN 1... ..	4	STORFRM STORB	
4	(4) UNKNOWN 1... ..	4	STORTO STORBTO	

CROSS REFERENCE

RTM2ABDP	456(1C8)	RTM2DOPN	472 X'20'
RTM2ABDR	449(1C1)	RTM2DPLA	252 (FC)
RTM2ABEP	148 (94)	RTM2DPSL	276(114)
RTM2ABID	449(1C1)	RTM2DREQ	28 X'80'
RTM2ABND	450(1C2)	RTM2DSNP	472 X'10'
RTM2ABNM	140 (8C)	RTM2DTCB	320(140)
RTM2ABTM	180 X'08'	RTM2DWX	458 X'10'
RTM2ABX	458 X'20'	RTM2EAM1	124 X'08'
RTM2ACR	161 X'03'	RTM2EAS	182 X'08'
RTM2ADDR	4 (4)	RTM2ECBA	324(144)
RTM2ADD1	129 (81)	RTM2ECBS	340(154)
RTM2AEC1	132 (84)	RTM2ECLS	473 X'08'
RTM2AIO1	124 X'02'	RTM2ECTL	473(109)
RTM2APSW	124 (7C)	RTM2ECT1	125 X'08'
RTM2ASC	24 (18)	RTM2EDEQ	473 X'02'
RTM2ASIR	457(1C9)	RTM2EEDH	152 (98)
RTM2AS1R	477 X'04'	RTM2EEDR	60 (3C)
RTM2AS2R	477 X'02'	RTM2EENQ	473 X'80'
RTM2AS3R	477 X'01'	RTM2EFRM	473 X'04'
RTM2BFTL	451 X'08'	RTM2EGET	473 X'40'
RTM2CB	449 X'80'	RTM2EMK1	124 (7C)
RTM2CC	29 (1D)	RTM2ENQ	449 X'40'
RTM2CCA	240 X'30'	RTM2ENRB	181 X'04'
RTM2CCF	28 (1C)	RTM2ENSN	884(374)
RTM2CCP	248 X'30'	RTM2EOM	28 X'10'
RTM2CCTL	445(1BD)	RTM2EOPN	473 X'20'
RTM2CC1	126 X'30'	RTM2EOT	28 X'08'
RTM2CERX	459 X'40'	RTM2EOTX	458 X'40'
RTM2CHNG	164 X'01'	RTM2EPSW	124 (7C)
RTM2CLUP	183 X'80'	RTM2EQMN	473 X'01'
RTM2CMKA	236 (EC)	RTM2ERAS	876(36C)
RTM2CMKP	244 (F4)	RTM2EREG	60 (3C)
RTM2CNCL	445 X'40'	RTM2ERFL	183 X'01'
RTM2CODE	28 (1C)	RTM2ERID	872(368)
RTM2COMP	220 (DC)	RTM2ERRA	180 (B4)
RTM2CONT	445 X'01'	RTM2ERRB	181 (B5)
RTM2CPID	162 (A2)	RTM2ERRC	182 (B6)
RTM2CPUI	874(36A)	RTM2ERRD	183 (B7)
RTM2CREG	564(234)	RTM2ERTM	878(36E)
RTM2CRG	564(234)	RTM2ER0	60 (3C)
RTM2CT	56 (38)	RTM2ER1	64 (40)
RTM2CTLR	452(1C4)	RTM2ER10	100 (64)
RTM2CTL1	236 (EC)	RTM2ER11	104 (68)
RTM2CTL2	244 (F4)	RTM2ER12	108 (6C)
RTM2CTRA	492(1EC)	RTM2ER13	112 (70)
RTM2CTS	183 X'10'	RTM2ER14	116 (74)
RTM2CVER	186 (BA)	RTM2ER15	120 (78)
RTM2CVT	12 (C)	RTM2ER2	68 (44)
RTM2CVX	458 X'08'	RTM2ER3	72 (48)
RTM2DCBA	356(164)	RTM2ER4	76 (4C)
RTM2DCLS	472 X'08'	RTM2ER5	80 (50)
RTM2DCTL	472(1D8)	RTM2ER6	84 (54)
RTM2DD	308(134)	RTM2ER7	88 (58)
RTM2DDEQ	472 X'02'	RTM2ER8	92 (5C)
RTM2DEC1	126 X'04'	RTM2ER9	96 (60)
RTM2DEND	446 X'40'	RTM2ESNP	473 X'10'
RTM2DENQ	472 X'80'	RTM2EUA	240 X'02'
RTM2DESC	0 (0)	RTM2EUP	248 X'02'
RTM2DFRM	472 X'04'	RTM2EXP1	126 X'02'
RTM2DFTK	472 X'01'	RTM2EXTA	236 X'01'
RTM2DGET	472 X'40'	RTM2EXTP	244 X'01'
RTM2DHP1	456 X'80'	RTM2EXT1	124 X'01'
RTM2DOA	240 X'04'	RTM2FIOB	189 (BD)
RTM2DOP	248 X'04'	RTM2FLGS	180 (B4)

CROSS REFERENCE

RTM2FLSQ	165 X'04'	RTM2MABD	183 X'08'
RTM2FLX	458(1CA)	RTM2MCHD	161 (A1)
RTM2FLX1	458(1CA)	RTM2MCHI	160 (A0)
RTM2FLX2	459(1CB)	RTM2MCHK	180 X'80'
RTM2FMID	184 (B8)	RTM2MCHS	160 (A0)
RTM2FMS	476 X'01'	RTM2MCIV	183 X'02'
RTM2FPA	240 X'08'	RTM2MCKA	237 X'04'
RTM2FP01	126 X'08'	RTM2MCKP	245 X'04'
RTM2FPP	248 X'08'	RTM2MCK1	125 X'04'
RTM2FRM1	276(114)	RTM2MCTL	448(1C0)
RTM2FRM2	284(11C)	RTM2MENT	455(1C7)
RTM2FRM3	292(124)	RTM2MSER	164 X'02'
RTM2FRM4	300(12C)	RTM2MTX	458 X'80'
RTM2FSQA	165 X'08'	RTM2MWPA	237 (ED)
RTM2GMR	478 X'20'	RTM2MWPP	245 (F5)
RTM2GMS	476 X'10'	RTM2MWPI	125 (7D)
RTM2HEED	445 X'04'	RTM2NDMP	450 X'80'
RTM2HOOK	476 X'04'	RTM2NIOP	186 X'10'
RTM2ICD1	135 (87)	RTM2NODP	446 X'10'
RTM2ID	0 (0)	RTM2NOIO	186 X'20'
RTM2ILA	240 X'C0'	RTM2NRBE	183 X'40'
RTM2ILC1	133 (85)	RTM2NUCL	165 X'10'
RTM2ILP	248 X'C0'	RTM2NXTA	241 (F1)
RTM2IL1	133 X'06'	RTM2NXTP	249 (F9)
RTM2IMC1	135 X'40'	RTM2NXT1	128 (80)
RTM2INC1	134 (86)	RTM2OERR	449 X'02'
RTM2INSF	161 X'04'	RTM2OFLN	165 X'80'
RTM2INTA	238 (EE)	RTM2PARQ	232 (E8)
RTM2INTC	165 X'40'	RTM2PCHK	180 X'40'
RTM2INTF	452(1C4)	RTM2PERC	182 X'10'
RTM2INTP	246 (F6)	RTM2PER1	124 X'40'
RTM2INT1	126 (7E)	RTM2PGCY	60 (3C)
RTM2INVP	160 X'10'	RTM2PGFX	165 X'02'
RTM2IOA	236 X'FE'	RTM2PGIO	180 X'01'
RTM2IOBP	188 (BC)	RTM2PGH1	125 X'01'
RTM2IOFS	186 (BA)	RTM2PKEY	444(1BC)
RTM2IOHS	476 X'40'	RTM2PMKA	240 (F0)
RTM2IOHT	186 X'40'	RTM2PMKP	248 (F8)
RTM2IOP	244 X'FE'	RTM2PPR	478 X'40'
RTM2IOQR	186 X'80'	RTM2PPS	476 X'08'
RTM2IOQS	476 X'80'	RTM2PREV	364(16C)
RTM2IOR	478 X'80'	RTM2PRWA	368(170)
RTM2IORS	476 X'20'	RTM2PRX	458 X'04'
RTM2IPC1	135 X'3F'	RTM2PSW	449 X'40'
RTM2IPR1	135 X'80'	RTM2PSWU	161 X'20'
RTM2IRB	182 X'20'	RTM2PURG	454 X'80'
RTM2ISPC	445 X'10'	RTM2RBRG	499(1F3)
RTM2JPAQ	451 X'02'	RTM2RBST	192 (C0)
RTM2KEYA	237 X'F0'	RTM2RCD	477 X'80'
RTM2KEYP	245 X'F0'	RTM2RCDE	232 (E8)
RTM2KEY1	125 X'F0'	RTM2RCDF	160 X'40'
RTM2LDIS	181 X'02'	RTM2RCRX	459 X'80'
RTM2LECB	324 X'80'	RTM2RCTL	451(1C3)
RTM2LFR1	276 X'80'	RTM2RECH	480(1E0)
RTM2LFR2	284 X'80'	RTM2RECL	460(1CC)
RTM2LFR3	292 X'80'	RTM2RECR	452 X'80'
RTM2LFR4	300 X'80'	RTM2REED	445 X'08'
RTM2LGTH	9 (9)	RTM2REG	449 X'10'
RTM2LPAQ	451 X'04'	RTM2REGU	161 X'40'
RTM2LTO1	280 X'80'	RTM2RETR	452 X'40'
RTM2LTO2	288 X'80'	RTM2RFSA	168 (A8)
RTM2LTO3	296 X'80'	RTM2RGEB	446 X'20'
RTM2LTO4	304 X'80'	RTM2RKEY	180 X'20'
RTM2LTX	458 X'02'	RTM2RMIN	708(2C4)

CROSS REFERENCE

RTM2RMPL	712(2C8)	RTM2STAF	182 X'80'
RTM2RMPS	708(2C4)	RTM2STAI	182 X'40'
RTM2RMSA	800(320)	RTM2STAP	196 (C4)
RTM2RMWA	736(2E0)	RTM2STAT	450 X'40'
RTM2RMWS	736(2E0)	RTM2STA2	451 X'80'
RTM2RPIV	183 X'04'	RTM2STCK	152 (98)
RTM2RREG	500(1F4)	RTM2STEP	28 X'40'
RTM2RRG	500(1F4)	RTM2STPT	445 X'80'
RTM2RSCN	446 X'80'	RTM2STRA	488(1E8)
RTM2RSRC	160 X'08'	RTM2SUBP	216 (D8)
RTM2RSRF	160 X'04'	RTM2SVCD	180 X'10'
RTM2RSR1	164 (A4)	RTM2SVCE	180 X'04'
RTM2RSR2	165 (A5)	RTM2TCBC	16 (10)
RTM2RTCA	212 (D4)	RTM2TCBT	48 (30)
RTM2RTCD	212 (D4)	RTM2TCTL	447(1BF)
RTM2RTRX	458 X'01'	RTM2TECB	968(3C8)
RTM2RTYA	224 (E0)	RTM2TERR	161 X'01'
RTM2RTYS	477 X'40'	RTM2TEXC	180 X'02'
RTM2RT2D	8 (8)	RTM2TIME	172 (AC)
RTM2RYRB	228 (E4)	RTM2THEM	452 X'20'
RTM2RYRG	904(388)	RTM2THER	474(1DA)
RTM2RYRS	904(388)	RTM2TO1	280(118)
RTM2R0DP	28 X'20'	RTM2TO2	288(120)
RTM2SAVE	449 X'08'	RTM2TO3	296(128)
RTM2SAV2	449 X'04'	RTM2TO4	304(130)
RTM2SCBC	200 (C8)	RTM2TRAN	136 (88)
RTM2SCBN	204 (CC)	RTM2TRCU	892(37C)
RTM2SCBO	208 (D0)	RTM2TREC	478 X'10'
RTM2SCBS	200 (C8)	RTM2TRFS	896(380)
RTM2SCK	161 X'10'	RTM2TRF1	476(1DC)
RTM2SCKB	152 (98)	RTM2TRF2	478(1DE)
RTM2SCKE	156 (9C)	RTM2TRLN	884(374)
RTM2SCTC	460(1CC)	RTM2TRLS	900(384)
RTM2SCTL	445(1BD)	RTM2TRHE	457 X'80'
RTM2SCTR	464(1D0)	RTM2TRM1	124 X'04'
RTM2SCTX	468(1D4)	RTM2TRRA	480(1E0)
RTM2SECB	324(144)	RTM2TRRC	186 (BA)
RTM2SEQ#	872(368)	RTM2TRRY	60 (3C)
RTM2SFRG	372(174)	RTM2TRSA	636(27C)
RTM2SFSA	372(174)	RTM2TRSH	451 X'10'
RTM2SFWA	32 (20)	RTM2TRTB	888(378)
RTM2SGA	240 X'01'	RTM2TRYR	476(1DC)
RTM2SGN1	126 X'01'	RTM2TSKT	454(1C6)
RTM2SGP	248 X'01'	RTM2TSVL	160 X'20'
RTM2SIZE	217 (D9)	RTM2TYP1	181 X'08'
RTM2SKRA	484(1E4)	RTM2UPRG	457 X'40'
RTM2SKYF	161 X'80'	RTM2VEGR	165 X'01'
RTM2SLIP	445 X'02'	RTM2VLDY	476 X'02'
RTM2SNDP	456 X'40'	RTM2VRBC	20 (14)
RTM2SNAP	252 (FC)	RTM2VRBT	52 (34)
RTM2SNCC	316(13C)	RTM2WA	0 (0)
RTM2SNLN	884(374)	RTM2WAIN	451 X'40'
RTM2SOFT	161 X'02'	RTM2WANA	451 X'20'
RTM2SPER	165 X'20'	RTM2WARG	498(1F2)
RTM2SPID	8 (8)	RTM2WATA	237 X'02'
RTM2SPLL	216 (D8)	RTM2WATP	245 X'02'
RTM2SPRM	256(100)	RTM2WAT1	125 X'02'
RTM2SPVA	237 X'01'	RTM2WRAP	452 X'10'
RTM2SPVP	245 X'01'	RTM2XABD	477 X'10'
RTM2SPWA	360(168)	RTM2XFLG	477 X'08'
RTM2SQS	445 X'20'	RTM2XIP	477 X'20'
RTM2SRBM	181 X'01'	STORAGE	0 (0)
RTM2SRVL	160 X'80'	STORB	0 X'80'
RTM2STAE	183 X'20'	STORBTO	4 X'80'

RTM2WA

RTM2WA
Data Area Descriptions 221

CROSS REFERENCE

STORFRM	0 (0)
STORTO	4 (4)

RT1W

Common Name: RTM RT1W Work Area

Macro ID: IHART1W

DSECT Name: RT1W

Created by: IEAVNIP0 or IEEVCPU

Subpool and Key: One data area created in the nucleus and seven created in subpool 245; all key 0

Size: 68 bytes

Pointed to by: FRRSRTMW field of the FRRS data area

Serialization: None

Function: The RT1W is used to describe the current error condition and provide an internal work area for the RTM1 subfunctions.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	68	RT1W	THE RTM1 WORK AREA
0	(0) UNKNOWN	52	RT1WNPRS	DATA NOT PRESERVED ON VALID ANTICIPATED RECURSION
0	(0) UNKNOWN	24	RT1WLPTA	TRACKING AREA FOR LOGICAL PHASE RECOVERY PROCESSING MAPPED BY RT1TRACK BELOW
24	(18) UNKNOWN	4	RT1WPSW1	CHECKPOINTED PTR TO PSH1
28	(1C) UNKNOWN	4	RT1WPSW2	CHECKPOINTED PTR TO PSH2
32	(20) UNKNOWN	20	RT1WVARI	VARIABLE FIELDS IN WA
52	(34) UNKNOWN	16	RT1WPRSV	DATA TO BE PRESERVED ON VALID ANTICIPATED RECURSION
52	(34) UNKNOWN	4	RT1WRTCA	POINTR TO THE SDWA CURNTLY IN USE (USED BY RTS)

RT1W

RT1W
Data Area Descriptions 223

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
56	(38) UNKNOWN	4	RT1WSRBR	POINTER TO THE SDWA PREVIOUSLY ACQUIRED FOR AN UNLOCKED SRB BUT NOT CURRENTLY IN USE BECAUSE OF A MODE CHANGE IN IN THE SRB FRR
60	(3C) UNKNOWN	4	RT1WEED	POINTER TO EEDS ACQUIRED
64	(40) UNKNOWN	4	RT1WENTR	ENTRY POINT DATA
64	(40) UNKNOWN	1	RT1WMODE	SYSTEM MODE AT TIME OF ERROR
65	(41) UNKNOWN	1	RT1WSRMD	RECOVERY MODE PRESERVED
66	(42) UNKNOWN	1	RT1WCOVR	CARRY OVER INFORMATION ON VALID RECURSIONS
	1... ..		RT1WCLUP	CLEANUP AND PERCOLATE INDICATION
	.1... ..		RT1WRTH	IF ON, INDICATES RTM'S FRR WAS IN CONTROL AT THE TIME OF THE ERROR
	..1.		RT1TLOCL	LOCAL LOCK ACQUIRED BY RTS
	...1		RT1TRTCA	SDWA ACQD BY RTS
	.... 1...		RT1WEREX	USED IN EEDPROC TO INDICATE AN ERRORID HAS BEEN PLACED IN AN EED. IT IS SET OFF BEFORE EXITING FROM EEDPROC
	.... .1..		RT1NODMP	SET BY SLIP TO INFORM DUMPING PROGRAMS THAT DUMP REQUESTS SHOULD BE IGNORED FOR THIS INVOKATION OF RTM
	.... ..11			RESERVED

RT1W

RT1W

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
67	(43) UNKNOWN	1	RT1WLPN	INITIAL LOGICAL PHASE NUMBER ON ENTRY TO RTM
0	(0) UNKNOWN	68	RT1RTRN	THE RTM WORK AREA IS USED TO CONTAIN RETRY REGISTERS IF AN FRR SUCCESSFULLY RETRYS. A LM INTRUCTION IS ISSUED FROM THE WA BEFORE THE RETRY ROU-TIME IS GIVEN CONTROL
0	(0) UNKNOWN	4		FIRST WORD NOT OVERLAID
4	(4) UNKNOWN	64	RT1RTRRG	16 REGISTERS FOR RETRY
4	(4) UNKNOWN	60	RT1R0R14	RETRY REGS 0 THRU 14
64	(40) UNKNOWN	4	RT1RTYAD	RETRY ADDRESS IN REG15 SLOT
0	(0) UNKNOWN	24	RT1TRACK	COMMON TRACKING AREA MAPPING FOR RTM1 RECOVERY
0	(0) UNKNOWN	4	RT1TRECC	RECURSION CONTROL DATA
0	(0) UNKNOWN	1	RT1TLPN	LOGICAL PHASE NUMBER
1	(1) UNKNOWN	1	RT1TLPID	LOGICAL PHASE REC RTN ID
2	(2) UNKNOWN	1	RT1TENPT	ORIGINAL ENTRY POINT
3	(3) UNKNOWN	1	RT1TACQR	RESOURCES ACQUIRED BY RTM1
	1... ..		RT1TDISP	DISPATCHER LOCK ACQUIRED
	.1..		RT1TLLCK	LOCAL LOCK ACQUIRED BY RT1
	..1.		RT1TRETY	RT1 ATTEMPTED RETRY
4	(4) UNKNOWN	20	RT1TREGS	CHECKPOINTED REGISTERS
0	(0) UNKNOWN	48	RTMBRTAB	RTM BRANCH TABLE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	8	RTMBTERM	INITIAL ENTRY POINT INSTRUCTIONS FOR CVTBTBTERM BRANCH
0	(0) UNKNOWN	2	RTMBBALR	BALR 15,0 INSTRUCTION
2	(2) UNKNOWN	4	RTMBBRAN	BRANCH INSTRUCTION
6	(6) UNKNOWN	2	RTMBPAD2	2 BYTES OF PADDING
8	(8) UNKNOWN	4	RTMBDAT	ENTRY IF TYPE = DATERR
12	(C) UNKNOWN	4	RTMBREST	ENTRY IF TYPE = RESTART
16	(10) UNKNOWN	4	RTMBMACH	ENTRY IF TYPE = MACHCK
20	(14) UNKNOWN	4	RTMBSVC	ENTRY IF TYPE = SVCERR
24	(18) UNKNOWN	4	RTMBPGIO	ENTRY IF TYPE = PGIOERR
28	(1C) UNKNOWN	4	RTMBCABT	ENTRY IF TYPE = ABTERM AND NO ASID WAS PROVIDED
32	(20) UNKNOWN	4	RTMBMENT	ENTRY IF TYPE = MEHTERM
36	(24) UNKNOWN	4	RTMBPROG	ENTRY IF TYPE = PROGCK
40	(28) UNKNOWN	4	RTMBACR	ENTRY IF TYPE = ACR
44	(2C) UNKNOWN	4	RTMBXABT	ENTRY IF TYPE = ABTERM AND AN ASID WAS PROVIDED
0	(0) UNKNOWN	1	MODEBYTE	SYSTEM MODE AT ERROR TIME
1... ..			MODESUPR	SUPERVISOR CONTROL MODE
.1.. ..			MODEDIS	PHYSICALLY DISABLED MODE
..1.			MODEGSPN	GLOBAL SPIN LOCK MODE
...1			MODEGSUS	GLOBAL SUSPEND LOCK MODE
.... 1...			MODELOC	LOCALLY LOCKED MODE
.... .1..			MODETYP1	TYPE 1 SVC MODE
.... ..1.			MODESRB	SRB MODE
....1			MODETCB	TASK MODE

SART

Common Name: Swap Activity Reference Table

Macro ID: ILRSART

DSECT Name: SART

Created by: ILRASRIM

Subpool and Key: 245 and key 0

Size: 80 bytes plus (48 bytes for each swap data set); 1280 bytes maximum

Pointed to by: ASMSART field of the ASMVT data area

Serialization: The SALLOC lock is used to serialize most of the SART header. Each SARTE is serialized by a special Compare and Swap lock. The SCCW available queue (SARSCCWA) and SRB count (SARSRBCT) in the SART header, as well as the SCCW queue in each SARTE (SRESCCH) are serialized via Compare and Swap logic.

Function: SART is the map relating the collection of logical swap sets of auxiliary storage to identifiable swap data sets (VSAM data spaces).

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	80	SART	SWAP ACTIVITY REFERENCE TABLE
0	(0) UNKNOWN	80	SARTHDR	SART HEADER
0	(0) UNKNOWN	4	SARID	SART IDENTIFIER. SET TO 'SART'
4	(4) UNKNOWN	4	SARSIZE	NO. OF SARTES IN THIS SART
8	(8) UNKNOWN	4	SARUSE	NUMBER OF SARTES IN USE
12	(C) UNKNOWN	4		RESERVED, USED IN PART HEADER MAPPING
16	(10) UNKNOWN	4	SARFXDNX	ADDRESS OF NEXT SARTE FROM WHICH TO ALLOCATE SWAP SETS ON A FIXED HEAD FILE
20	(14) UNKNOWN	4	SARMOVNX	ADDRESS OF NEXT SARTE FROM WHICH TO ALLOCATE SWAP SETS ON A MOVABLE HEAD FILE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
24	(18) UNKNOWN	4	SARDSNL	ADDRESS OF DATA SET NAME LIST IN CSA FOR THE SWAP DATA SETS
28	(1C) UNKNOWN	4	SARSDCT	ADDRESS OF SWAP DEVICE TABLE
=====				
THE FOLLOWING NAMES ARE UNIQUE FOR THE SART HEADER				
32	(20) UNKNOWN	4	SARSCCWQ	QUEUE OF AVAILABLE SCCWS
36	(24) UNKNOWN	4	SARSETCT	NUMBER OF SWAP SETS CURRENTLY AVAILABLE ON ALL SWAP DATA SETS
40	(28) UNKNOWN	8	SARWAITQ	WAIT QUEUE OF AIAS WAITING FOR AVAILABLE SWAP RESOURCES
40	(28) UNKNOWN	4	SARWAITF	ADDRESS OF FIRST AIA ON QUEUE
44	(2C) UNKNOWN	4	SARWAITL	ADDRESS OF LAST AIA ON QUEUE
48	(30) UNKNOWN	4	SARSRBP	ADDRESS OF SRB USED TO SCHEDULE SWAP DRIVER
52	(34) UNKNOWN	4	SARSRBCT	COUNT OF SRBS SCHEDULED FOR SWAP DRIVER WHICH HAVE NOT BEEN DISPATCHED-EITHER ZERO OR ONE.
56	(38) UNKNOWN	4	SARSETSZ	NO. OF PAGES/SLOTS IN SWAP SET
60	(3C) UNKNOWN	20		RESERVED
80	(50) UNKNOWN	0	SARENTS	SART ENTRIES
0	(0) UNKNOWN	48	SARTE	SART ENTRY

SART

SART

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	4	SRENEXT	NEXT SARTE IN CIRCULAR CHAIN
4	(4) UNKNOWN	4	SRELOCK	C&S LOCK TO SERIALIZE SWAP DRIVER PROCESSING
8	(8) UNKNOWN	1		RESERVED
9	(9) UNKNOWN	1	SREFLG	SARTE FLAGS
	1... ..		SRENUSE	1 = SARTE CURRENTLY NOT IN USE 0 = THIS SARTE IN USE
	.1.. ..		SREDSBD	1 = ASM HAS DETECTED ERRORS PRECLUDING USE OF THIS DATA SET 0 = SWAP DATA SET SATISFACTORY FOR USE
	..1.		SREDRIVE	SWAP DRIVER REDRIVE FLAG
	...1		SREFIXED	FIXED HEAD FILE FLAG 1 = SARTE FOR FIXED HEAD DEVICE 0 = SARTE FOR MOVABLE HEAD DEVICE
	.... 1111			RESERVED
10	(A) UNKNOWN	2	SRENN	SARTE NUMBER FOR THIS SARTE
12	(C) UNKNOWN	4	SRESCCM	FIRST IN A CHAIN OF ONE OR MORE SCCMS WAITING TO BE STARTED
16	(10) UNKNOWN	4	SRETOTSL	TOTAL NUMBER OF SWAP SETS ON THIS DATA SET
20	(14) UNKNOWN	4	SREAVLSL	COUNT OF AVAILABLE SWAP SETS ON THIS DATA SET
24	(18) UNKNOWN	4	SRERRCNT	COUNT OF ERROR SWAP SETS ON THIS DATA SET
28	(1C) UNKNOWN	4	SREIORB	FIRST IORB FOR THIS DATA SET

SART

SART
Data Area Descriptions 229

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
32	(20) UNKNOWN	4	SRESAT	PTR TO SAT FOR THIS DATA SET
36	(24) UNKNOWN	4	SRESDCTE	PTR TO SDCTE FOR THIS DATA SET
40	(28) UNKNOWN	4	SREEDB	PTR TO EDB FOR THIS DATA SET
44	(2C) UNKNOWN	4	SREUCB	PTR TO UCB FOR THIS DATA SET

SAT

Common Name: Swap Allocation Table

Macro ID: ILRSAT

DSECT Name: SAT

Created by: ILRASRIM, ILRPGEXP

Subpool and Key: 245 and key 0

Size: 32 plus number of swap sets in the swap data set

Pointed to by: SRESAT field of the SARTE data area within the SART data area

Serialization: The SATMAPs are serialized by the SALLOC lock.

Function: The SAT is a concise representation of the allocation of swap sets within a swap data set.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	32	SAT	SWAP ALLOCATION TABLE
0	(0) UNKNOWN	32	SATHDR	SAT HEADER
0	(0) UNKNOWN	4	SATID	SAT IDENTIFIER. SET TO 'SAT'
4	(4) UNKNOWN	4	SATSARTE	POINTER TO ASSOCIATED SARTE
8	(8) UNKNOWN	2	SATMAPLN	NUMBER OF BYTES IN SATMAP
10	(A) UNKNOWN	2	SATBYTCL	THE POWER OF 2 REPRESENTING THE NUMBER OF BYTES REQUIRED TO MAP A SINGLE CYLINDER FOR THIS DEVICE TYPE (ZERO ORIGINED)
12	(C) UNKNOWN	2	SATOFFST	THE OFFSET INTO THE SATMAP FROM WHICH TO START SCAN FOR AVAILABLE SWAP SET
14	(E) UNKNOWN	1	SATMASK	BYTE MASK FOR LAST SWAP SET FREED
15	(F) UNKNOWN	1		RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
16	(10) UNKNOWN	4	SATSCAN	ADDRESS OF THE SATMAP BYTE FROM WHICH TO START SCAN FOR AVAILABLE SWAP SET
20	(14) UNKNOWN	4	SATSLTNO	SLOT NUMBER OF LAST SWAP SET FREED
24	(18) UNKNOWN	4	SATASGN	ADDR OF THE SATMAP IN WHICH THE LAST SWAP SET RESIDES
28	(1C) UNKNOWN	4		RESERVED
32	(20) UNKNOWN	0	SATHAPS	SWAP SET BYTE MAPS. THE NUMBER OF BYTES REQUIRED TO MAP A CYLINDER IS DEPENDENT ON THE DEVICE TYPE AND IS MAINTAINED IN SATBYTCL.

SCACommon Name: SPIE Control AreaMacro ID: IHASCADSECT Name: SCACreated by: IEAVTB00(IGC0001D) SPIE service (SVC) routineSubpool and Key: 245 and key 0Size: 68 bytes including SRBPointed to by: TCBPIE field of the TCB data areaSerialization: Local lock and task active modeFunction: Provides information to program check FLIH in its processing of program interruptions covered by a SPIE EXIT. Also contains storage used as an SRB by program check FLIH.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SCA	
0	(0) A-ADDRESS	4	SCAPIE	ADDRESS OF PIE
4	(4) CHARACTER	1	SCAPMASK	PROGRAM MASK AT TIME OF SPIE INITIATION. RESTORED AT SPIE NULLIFICATION. RESERVED FOR FUTURE USE
5	(5) CHARACTER	3	SCARESV	
8	(8) CHARACTER	16	SCAPARMS	PROG CHECK FLIH'S SRB PARMS
24	(18) A-ADDRESS	4	SCARPTR	RECOVERY PIE PICA ADDRESS
28	(1C) A-ADDRESS	4	SCAFRPPQ	FREE RPIEPICA QUEUE HEADER
32	(20) SIGNED	4	SCASRB	SRB USED BY PROG CHECK FLIH

SCB

Common Name: STAE Control Block

Macro ID: IHASCB

DSECT Name: SCB

Created by: IEAVSTAO

Subpool and Key: 255 and key 0

Size: 20 bytes

Pointed to by: TCBSTABB field of the TCB data area
SCBCHAIN field of the SCB data area

Serialization: None

Function: The SCB is used to make STA/ESTA recovery known to the system.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SCB	, SCBPTR

0	(0) A-ADDRESS	4	SCBCHAIN	POINTER TO NEXT SCB ON CHAIN

4	(4) A-ADDRESS	4	SCBEXIT	POINTER TO USER WRITTEN EXIT ROUTINE

8	(8) A-ADDRESS	4	SCBPARM	ADDRESS OF PARAMETER LIST FOR STA EXIT

8	(8) BITSTRING	1	SCBFLGS1	FIRST FLAG BYTE...
	1... ..		SCBSTAI	X'80' STAI SCB
	.1... ..		SCBSTAR	X'40' STAR SCB
				SCB IS FOR STAE IF NEITHER SCBSTAI NOR SCBSTAR BIT IS SET ON
	...1... ..		SCBDUMMY	X'20' DUMMY SCB (WILL NOT BE SCHEDULED)
	...1... ..		SCBESTAE	X'10' ESTAE INDICATOR

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
X'08' -	.(RESERVED)			
....	.1..		SCBASYN	X'04' ALLOW ASYNCHRONOUS INTERRUPTS
....	...11		SCBIOPRC	X'03' I/O PROCESSING OPTION, BITS 6 AND 7-- 00
....	...1.		SCBNOIOP	QUIESCE I/O 01 HALT I/O 10 BYPASS I/O INTERVENTION 11 (RESERVED)
9	(9) A-ADDRESS	3	SCBHALT SCBPARMA	X'02' BYPASS I/O INTERVENTION X'01' HALT I/O ADDRESS OF PARAMETER LIST FOR STA EXIT

12	(C) A-ADDRESS	4	SCBOWNR	TCB/RB ADDRESS CONTROLLING THIS SCB

12	(C) BITSTRING	1	SCBFLGS2	SECOND FLAG BYTE...
=====				
X'80' -	.RESERVED			
..1..	....		SCBXCTL2	X'40' RETAIN THIS SCB ACROSS XCTL
=====				
X'20' -	.(RESERVED)			
...1	....		SCBINUSE	X'10' THIS SCB IN USE
=====				
X'08' -	.(RESERVED)			
X'04' -	.(RESERVED)			
....	...1.		SCBKEY0	X'02' USER IN KEY 0
....	...1		SCBSUPER	X'01' USER IN SUPERVISOR MODE
13	(D) A-ADDRESS	3	SCBOWNRA	RB ADDRESS IF STAE/STAR, TCB ADDRESS IF STAI.

16	(10) A-ADDRESS	4	SCBDATA	FLAGS AND DATA FIELD

16	(10) BITSTRING	1	SCBFLGS3	OPTION FLAGS

SCB

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
X'80' - .(RESERVED)				
.1..			SCBTERMI	X'40' AUTHORIZED FOR TERM
..1.			SCBRECRD	PROCESSING X'20' ERROR RECORD TO BE WRITTEN TO
...1			SCBCNCEL	SYS1.LOGREC X'10' SCB IS LOGICALLY CANCELED
.... 1...			SCBPRNTR	X'08' SCB PREVIOUSLY ENTERED
.... .1..			SCBBRNTR	X'04' BRANCH ENTERED SVC 60
.... ..1.			SCBTERMO	X'02' TERM PROCESSING ONLY
=====				
X'01' - .(RESERVED)				
17	(11) CHARACTER	1	SCBPKEY	PROGRAM KEY
18	(12) CHARACTER	1	SCBID	SCB IDENTIFIER
19	(13) CHARACTER	1	SCBRSVRE	RESERVED

SCCW

Common Name: Swap Channel Command Work Area

Macro ID: ILRSCCW

DSECT Name: SCCW

Created by: ILRASRIM

Subpool and Key: Nucleus buffer and key 0

Size: 400 bytes

Pointed to by: IORSCCW field of the IORB data area
SCCWSCCW field of the SCCW data area
SARSCCWQ field of the SART data area

Serialization: The SCCW is serialized by the SCCW available queue. The SCCW is kept on an available queue and removed when needed.

Function: SCCW describes the string of channel command words which are passed by the I/O manager to the channel for I/O processing of a swap set.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	400	SCCW	BASE STRUCTURE IS SCCW

HEADER SECTION OF SWAP CHANNEL COMMAND WORKAREA

0	(0) UNKNOWN	88	SCCWHDR	HEADER FOR SCCW
0	(0) UNKNOWN	1	SCCWID	SCCW IDENTIFIER X'87'
1	(1) UNKNOWN	1	SCCWSECT	SECTOR VALUE FOR SET SECTOR
2	(2) UNKNOWN 1... ..	1	SCCWFLAG SCCWERR	SCCW FLAGS I/O ERROR FLAG 1 = THIS SCCW SUFFERED AN I/O ERROR 0 = NO ERROR THIS SCCW
3	.111 1111 (3) UNKNOWN	1		RESERVED RESERVED
4	(4) UNKNOWN	4	SCCWSCCW	POINTER TO NEXT SCCW ON CHAIN
8	(8) UNKNOWN	4	SCCWAIA	POINTER TO FIRST AIA OF THE GROUP USING THIS SCCW
12	(C) UNKNOWN	4	SCCWIORB	ADDRESS OF IORB THAT THIS SCCW IS ASSOCIATED WITH

OFFSETS TYPE LENGTH NAME DESCRIPTION

=====

SEARCH ARGUMENT SECTION OF SWAP CHANNEL COMMAND WORKAREA

16	(10)	UNKNOWN	64	SCCWSARG	SEARCH ARGUMENTS SECTION
16	(10)	UNKNOWN	1	SCCWM	EXTENT NUMBER OF SEEK ADDRESS
17	(11)	UNKNOWN	2	SCCWBB	BIN NUMBER OF SEEK ADDRESS
19	(13)	UNKNOWN	60	SCCWSRH	TWELVE COPIES OF CCHRR
19	(13)	UNKNOWN	4	SCCWCCHH	CYLINDER AND HEAD
19	(13)	UNKNOWN	2	SCCWCC	CYLINDER
21	(15)	UNKNOWN	2	SCCWHH	HEAD
23	(17)	UNKNOWN	1	SCCWR	RECORD
79	(4F)	UNKNOWN	1	SCCWRSVI	RESERVED

=====

SPECIAL FIELDS NOT PRESENT IN A PCCW HEADER

80	(50)	UNKNOWN	4	SCCWLCCW	POINTER TO LAST R/W CCW IN USE
84	(54)	UNKNOWN	4	SCCWSVOA	SAVE AREA FOR SEARCH OP CODE AND ARGUMENT ADDRESS WHEN SEARCH CCW CONVERTED TO TIC FOR CCW CHAINING

=====

CCW SECTION OF SWAP CHANNEL COMMAND WORKAREA

88	(58)	UNKNOWN	312	SCCWCCW	CHANNEL COMMAND SECTION
88	(58)	UNKNOWN	8	SCCWSEEK	FULL SEEK CCW
88	(58)	UNKNOWN	1	SCCWSKOP	SEEK OP CODE
89	(59)	UNKNOWN	3	SCCWSKAD	SEEK CCW ADDRESS
92	(5C)	UNKNOWN	4	SCCWFGCT	SEEK FLAGS AND COUNT
96	(60)	UNKNOWN	8	SCCWSSEC	SET SECTOR CCW
96	(60)	UNKNOWN	1	SCCWS SOP	SET SECTOR OP CODE

SCCW

SCCW.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
97	(61) UNKNOWN	3	SCCWSSAD	SET SECTOR CCW ADDRESS
100	(64) UNKNOWN	4	SCCWFLCT	SET SECTOR FLAGS AND COUNT
104	(68) UNKNOWN	288	SCCWSLOT	12 SETS OF THREE CCW'S
104	(68) UNKNOWN	8	SCCWSRCH	SEARCH CCW
104	(68) UNKNOWN	1	SCCWSROP	SEARCH OP FIELD
105	(69) UNKNOWN	3	SCCWSRAD	SEARCH ADDRESS FIELD
108	(6C) UNKNOWN	1	SCCWSRFL	SEARCH FLAG FIELD
109	(6D) UNKNOWN	1		
110	(6E) UNKNOWN	2	SCCWSRCT	SEARCH COUNT FIELD
112	(70) UNKNOWN	8	SCCW TIC	TIC CCW
112	(70) UNKNOWN	1	SCCW TIOP	TIC OP FIELD
113	(71) UNKNOWN	3	SCCW TIAD	TIC ADDRESS FIELD
116	(74) UNKNOWN	4		
120	(78) UNKNOWN	8	SCCWRW	READ OR WRITE CCW
120	(78) UNKNOWN	1	SCCWRWOP	READ/WRITE OP FIELD
121	(79) UNKNOWN	3	SCCWRWAD	READ/WRITE ADDRESS FIELD
124	(7C) UNKNOWN	1	SCCWRWFL	READ/WRITE FLAG FIELD
125	(7D) UNKNOWN	1		
126	(7E) UNKNOWN	2	SCCWRWCT	READ/WRITE COUNT FIELD
392	(188) UNKNOWN	8	SCCWL TIC	LAST CCW USED TO TIC WHEN CHAINING TO ANOTHER SET OF CCWS
392	(188) UNKNOWN	1	SCCWL TOP	LAST TIC OP FIELD
393	(189) UNKNOWN	3	SCCWL TAD	LAST TIC ADDRESS FIELD
396	(18C) UNKNOWN	4		

SCVT

Common Name: Secondary Communication Vector Table

Macro ID: IHASCVT

DSECT Name: SCVTSECT

Created by: SYSGEN

Subpool and Key: NUCLEUS resident and key 0

Size: 184 bytes

Pointed to by: CVTABEND field of the CVT data area

Serialization: None

Function: Used by non-resident routines to refer to routines used by the Supervisor, by ABEND, and by other program components.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SCVTSECT	
0	(0) V-ADDRESS	4	SCVTPGTM	V(IEAQPSTM) ADDR OF EOT TIMER PURGE ROUTINE
4	(4) A-ADDRESS	4	SCVTPGWR	ADDRESS OF WTO/WTOR RESOURCE MANAGER. INITIALLY CONTAINS ADDRESS OF BR 14. CHANGED TO IEECVPRG (MODULE IEAVHED2) BY COMMUNICATIONS TASK INITIALIZATION (IEAVVINT).
8	(8) V-ADDRESS	4	SCVTSPET	V(IEAQSPET) ADDR OF EOT SUBPOOL RELEASE
12	(C) BAL STMT	2	SCVTBR14	RETURN TO CALLER
14	(E) HEX	2		RESERVED
16	(10) A-ADDRESS	4		SCVTERAS FIELD UNUSED IN OS/VS2 RELEASE 2
20	(14) A-ADDRESS	4		SCVTQCBO FIELD UNUSED IN OS/VS2 RELEASE 2
24	(18) A-ADDRESS	4		SCVTPGEQ FIELD UNUSED IN OS/VS2 RELEASE 2

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
28	(1C) V-ADDRESS	4	SCVTRMBR	V(RMBRANCH) ADDR OF REGMAIN BRANCH ENTRY
32	(20) A-ADDRESS	4		SCVTPGIO FIELD UNUSED IN OS/V52 RELEASE 2
36	(24) A-ADDRESS	4	SCVTRACE	ADDR OF POINTER TO TRACE ROUTINE
40	(28) A-ADDRESS	4		SCVTTASH FIELD UNUSED IN OS/V52 RELEASE 2
44	(2C) V-ADDRESS	4	SCVTCDCI	V(IEAQCS02) ADDR OF CDCONTROL IN LINK
48	(30) V-ADDRESS	4	SCVTLFRM	V(FMBRANCH) LIST FORMAT FREEMAIN BRANCH ENT PT
52	(34) A-ADDRESS	4		SCVTPABL FIELD UNUSED IN OS/V52 RELEASE 2
56	(38) A-ADDRESS	4		SCVTDQTC FIELD UNUSED IN OS/V52 RELEASE 2
60	(3C) V-ADDRESS	4	SCVTHSKP	V(CDHKEEP) ADDR OF CDHKEEP IN EOT
64	(40) A-ADDRESS	4	SCVTRPTR	ADDR OF TRACE TABLE POINTERS
68	(44) V-ADDRESS	4	SCVTGMBR	V(GMBRANCH) LIST FORMAT GETMAIN BRANCH ENTRY POINT
72	(48) A-ADDRESS	4		SCVTAUCT FIELD UNUSED IN VS2
76	(4C) A-ADDRESS	4		SCVTROCT FIELD UNUSED IN VS2
80	(50) A-ADDRESS	4		SCVTROQ FIELD UNUSED IN VS2
84	(54) A-ADDRESS	4		SCVTRIRB FIELD UNUSED IN VS2

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
88	(58) A-ADDRESS	4		SCVTRTCB FIELD UNUSED IN VS2
92	(5C) A-ADDRESS	4	SCVTCOMM	ADDR OF COMM TASK ROUTINE
96	(60) A-ADDRESS	4		SCVTABLK FIELD UNUSED IN VS2
100	(64) A-ADDRESS	4		SCVTNFND FIELD UNUSED IN VS2
104	(68) A-ADDRESS	4		SCVTRMTC FIELD UNUSED IN OS/VS2 RELEASE 2
108	(6C) A-ADDRESS	4		SCVTMSSQ FIELD UNUSED IN OS/VS2 RELEASE 2
112	(70) V-ADDRESS	4	SCVTCTCB	V(IEECVTCB) ADDR OF COMM TASK TCB
116	(74) A-ADDRESS	4		SCVTETCB FIELD UNUSED IN OS/VS2 RELEASE 2
120	(78) A-ADDRESS	4	SCVTRXLQ	ADDR OF RECOVERY EXTENT LIST
124	(7C) A-ADDRESS	4		SCVTRQND FIELD UNUSED IN OS/VS2 RELEASE 2
128	(80) A-ADDRESS	4		SCVTTAR FIELD UNUSED IN VS2
132	(84) V-ADDRESS	4	SCVTSVCT	V(SVCTABLE) ORIGIN OF SVC TABLE
136	(88) A-ADDRESS	4		SCVTSTXP FIELD UNUSED IN OS/VS2 RELEASE 3
140	(8C) V-ADDRESS	4	SCVTTQE	V(IEATSELM) ADDR OF TSO SUBSYSTEM'S TQE
144	(90) A-ADDRESS	4		SCVTRMSV FIELD UNUSED IN OS/VS2 RELEASE 2

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
148	(94) V-ADDRESS	4	SCVTSTAT	V(IGC07902) ADDR OF SVC STATUS ROUTINE
152	(98) V-ADDRESS	4	SCVTQCBR	V(QCBRANCH) BRANCH ENTRY POINT TO GETMAIN/ FREEMAIN QUICKCELL ROUTINE
156	(9C) A-ADDRESS	4		SCVTABBR FIELD UNUSED IN OS/V52 RELEASE 2
160	(A0) A-ADDRESS	4		SCVTAPIO FIELD UNUSED IN OS/V52 RELEASE 2
164	(A4) V-ADDRESS	4	SCVTPTRM	V(IEAVTERM) ADDRESS OF REAL STORAGE MANAGER (RSM) TERMINATION RESOURCE MANAGER ROUTINE THAT QUIESCES PAGING I/O AND PGFIX REQUESTS
168	(A8) A-ADDRESS	4		SCVTHOOK FIELD UNUSED IN OS/V52 RELEASE 2
172	(AC) V-ADDRESS	4	SCVTPIQE	V(IEADQIQE) ADDR OF RESIDENT SUBROUTINE IN EOT TO REMOVE IQE'S FROM ASYNCHRONOUS EXIT QUEUE
176	(B0) A-ADDRESS	4		SCVTTMBR FIELD UNUSED IN OS/V52 RELEASE 2
180	(B4) A-ADDRESS	4		SCVTFONG FIELD UNUSED IN OS/V52 RELEASE 2
0	(0) BAL STMT	0		

SCVT

SCVT
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SDCT

Common Name: Swap Device Characteristics Table

Macro ID: ILRSDCT

DSECT Name: SDCT

Created by: ILRASRIM

Subpool and Key: 245 and Key 0

Size: 128 bytes

Pointed to by: SARSDCT field of the SART data area
addressed by the SRESDCTE field of the SARTE data area.

Serialization: None

Function: The SDCT provides a single location for
device-dependent information for ASM swapping logic.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	128	SDCT	BASE STRUCTURE IS SDCT
0	(0) UNKNOWN	8	SDCHDR	HEADER FOR SDCT
0	(0) UNKNOWN	4	SDCID	SDCT IDENTIFIER SET TO C'SDCT'
4	(4) UNKNOWN	2	SDCSIZE	NUMBER OF SDCTE'S
6	(6) UNKNOWN	2	SDCRSV1	RESERVED

SWAP DEVICE CHARACTERISTICS TABLE ENTRIES

8	(8) UNKNOWN	120	SDCENTS	SDC ENTRY SECTION. CONTAINS 6 ENTRIES OF 20 BYTES EACH. EACH ENTRY IS MAPPED BY SDCTE BELOW.
128	(80) UNKNOWN	0		
0	(0) UNKNOWN	20	SDCTE	SWAP DEVICE TABLE ENTRY
0	(0) UNKNOWN	6	SDCDEVTP	EBCDIC DEVICE TYPE INDICATOR
6	(6) UNKNOWN	2	SDCDTYPX	DEVICE TYPE IN BINARY
8	(8) UNKNOWN	2	SDCSLTRK	NUMBER OF SLOTS PER TRACK
10	(A) UNKNOWN	2	SDCCYLSZ	NUMBER OF SLOTS PER CYLINDER

SDCT

SDCT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
12	(C) UNKNOWN	4	SDCCMASK	MASK FOR SAT CYLINDER MAP INIT

16	(10) UNKNOWN	1	SDCSSECT	SWAP SECTOR VALUE FOR THIS DEVICE TYPE
17	(11) UNKNOWN	1	SDCMPEXP	THE POWER OF 2 REPRESENTING THE NUMBER OF BYTES REQUIRED TO MAP A SINGLE CYLINDER FOR THIS DEVICE TYPE (ZERO ORIGINED)
18	(12) UNKNOWN	2	SDCRESV	RESERVED

SDUMP

Common Name: SVC Dump Parameter List

Macro ID: IHASDUMP

DSECT Name: SDUMP

Created by: SDUMP macro expansion

Subpool and Key: Subpool and Key of the issuer of the SDUMP MACRO

Size: 40 bytes

Pointed to by: Register 1, when SVC dump is invoked through the

SDUMP executable macro.

Serialization: None

Function: Parameter list to indicate to SVC dump that an SVC dump is requested and what storage areas are to be included in the dump.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SDUMP	, SDUMPPTR SDUMP PARAMETER LIST
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) HEX	1	SDUFLAG0	FIRST BYTE OF FLAGS
1... ..			SDUDCB	BIT0 1=USER SUPPLIED DCB 0=USE OF SYS1.DUMP DATA SET
.1... ..			SDUBUF	BIT1 1=DUMP 4K SQA BUFFER 0=BYPASS 4K SQA BUFFER
..1... ..			SDUSTOR	BIT2 1=STORAGE LIST SPECIFIED 0=NO STORAGE LIST
...1... ..			SDUHDR	BIT3 1=USER DATA SPECIFIED 0=NO USER DATA
.... 1...			SDUECB	BIT4 1=ECB SPECIFIED 0=ECB NOT SPECIFIED
.... .1..			SDUASID	BIT5 1=SCHEDULE DUMP REQUEST ASID SPECIFIED 0=ASID NOT SPECIFIED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
....	.1.		SDUQUIET	BIT6 1=SET SYSTEM NON-DISPATCHABLE WHILE DUMPING SQA/CSA 0=MAINTAIN CURRENT SYSTEM STATUS
....	....1		SDUBRANH	BIT7 1=BRANCH ENTRY 0=SVC 51 ENTRY
1	(1) HEX	1	SDUFLAG1	SECOND BYTE OF FLAGS
1...	....		DUMPTYPE	BIT0 1=SVC DUMP REQUEST
.1..	....		SDUABEND	BIT1 1=SYSMDUMP REQUEST
..1.	....		SDUNEW	BIT2 1=ENHANCED SVC DUMP REQUEST
...1	....		SDUASLST	BIT3 1=ASIDLST SPECIFIED
....	1...		SDUSULST	BIT4 1=SUMLIST SPECIFIED
....	.1..		SDUSLIP	BIT5 1=CALLED BY SLIP
2	(2) HEX	1	SDUSDAT1	FIRST BYTE OF SDATA FLAGS
1...	....		SDUALPSA	BIT0 DUMP ALL PSA'S IN SYSTEM
.1..	....		SDUPSA	BIT1 DUMP THE CURRENT PSA
..1.	....		SDUNUC	BIT2 DUMP THE NUCLEUS
...1	....		SDUSQA	BIT3 DUMP SQA
....	1...		SDULSQA	BIT4 DUMP LSQA
....	.1..		SDURGN	BIT5 DUMP REGION (PRIVATE AREA)
....	.1.		SDULPA	BIT6 DUMP ACTIVE LPA MOD. FOR RGN
....	....1		SDUTRT	BIT7 DUMP TRACE TABLE GTF BUFFERS
3	(3) HEX	1	SDUSDAT2	SECOND BYTE OF SDATA FLAGS
1...	....		SDUCSA	BIT0 DUMP CSA
.1..	....		SDUSWA	BIT1 DUMP SWA FOR REGION
..1.	....		SDUSMDMP	BIT2 SUMMARY DUMP REQUESTED
...1	....		SDUNSMDP	BIT3 DO NOT DUMP SUMMARY DUMP
....	1...		SDUNAPSA	BIT4 DO NOT DUMP ALL PSA
....	.1..		SDUNASQA	BIT5 DO NOT DUMP SQA

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
4	(4) A-ADDRESS	4	SDUFCBAD	ADDRESS USER SUPPLIED DCB
8	(8) A-ADDRESS	4	SDUSTORA	ADDRESS OF STORAGE LIST
12	(C) A-ADDRESS	4	SDUHDRAD	ADDRESS OF USER DATA
16	(10) A-ADDRESS	4	SDUECBAD	ADDRESS USER SUPPLIED ECB
20	(14) A-ADDRESS	4	SDUMASID	SCHEDULE DUMP ASIDS
20	(14) A-ADDRESS	2	SDUCASID	CALLERS ASID
22	(16) A-ADDRESS	2	SDUTASID	TARGET ASID OF SCHEDULE DUMP
24	(18) A-ADDRESS	4	SDUASIDP	ADDRESS CALLERS ASID LIST
28	(1C) A-ADDRESS	4	SDUSUMLP	ADDRESS CALLERS SUMMARY LIST
32	(20) A-ADDRESS	4	SDUSYSMS	ADDR SYSDUMP 4K SQA AREA
36	(24) A-ADDRESS	4	SDUSYSMC	ADDR SYSDUMP CSA WORK AREA

SDWA

Common Name: System Diagnostic Work Area

Macro ID: IHASDWA

DSECT Name: SDWA

Created by: Global and local SDWAs are preallocated.
GETMAIN'ed SDWAs for SRB mode are created
by IEAVTRTS.

Task mode - IEAVTAS1

Subpool and Key: subpool 0 and key 6
subpool 230 and key 0
subpool 245 and key 0

Size: 512 (plus variable recording area - FRR use only)

Pointed to by: Adjacent to each super FRR stack

(global SDWA)
ASXBFRWA field of the ASXB data area
(local SDQA)
RT1WRTCA field of the RT1W data area
(GETMAIN'ed SDWA for SRB mode)
RTM2RTCA field of the RTM2WA data area
(task mode SDWA)

Serialization: Global SDWA: Physically disabled or
globally locked

Local SDWA: Local lock

GETMAIN'ed SDWA: None

Function: The SDWA provides for communication between the
RTM and STA/ESTA/FRR recovery routines. This collection of
error data is also used for documentation of system control
program (SCP) errors via recording on SYS1.LOGREC. The
SDWA is also known as the RTCA.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SDWA	, SDWAPTR
0	(0) A-ADDRESS	4	SDWAPARM	PARAMETER LIST ADDRESS IF (E)STA MACRO SPECIFIED PARAM OPTION OR 0. FOR FRRS THIS IS THE ADDRESS OF THE 6 WORD PARM AREA RETURNED BY THE SETFRR MACRO WHEN THE PARMAD KEYWORD IS SPECIFIED ON THE SETFRR
4	(4) A-ADDRESS	4	SDWAFIOB	ADDRESS OF PURGE I/O REQUEST LIST (PIRL) OR 0 IF HALT I/O IS REQUESTED ON ENTRY TO RETRY ROUTINE FOR (E)STA.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
4	(4) BITSTRING	4	SDWAABCC	ABEND COMPLETION CODE ON ENTRY TO EXIT ROUTINE.

4	(4) BITSTRING	1	SDWACMPF	FLAG BITS IN COMPLETION CODE.
	1... ..		SDWAREQ	X'80' ON, DUMP TO BE GIVEN. SET IF DUMP REQUESTED BY ABEND, CALLRTM OR SETRP MACRO.
	.1.. ..		SDWASTEP	X'40' ON, JOBSTEP TO BE TERMINATED. SET IF STEP OPTION SPECIFIED ON ABEND MACRO.
	...1 ..		SDWASTCC	X'10' ON, DON'T STORE COMPLETION CODE. NOT USED IN OS/VS2 R2. SYSTEM
5	(5) BITSTRING	3	SDWACMPC	COMPLETION CODE (FIRST 12 BITS) AND USER COMPLETION CODE (SECOND 12 BITS).

8	(8) CHARACTER	8	SDWACTL1	BC MODE PSW AT TIME OF ERROR NOT INITIALIZED FOR FRRS.

8	(8) BITSTRING	1	SDWACHKA	CHANNEL INTERRUPT MASKS.
	1111 111.		SDWAIOA	X'FE' I/O INTERRUPTS (ALL ZEROS OR ALL ONES).
	.... ..1		SDWAEXTA	X'01' EXTERNAL INTERRUPT.
9	(9) BITSTRING	1	SDWAMWPA	PSW KEY AND 'M-W-P'.
	1111		SDWAKEYA	X'F0' PSW KEY.
	.... .1..		SDWAMCKA	X'04' MACHINE CHECK INTERRUPT.
	.... .1.		SDWAWATA	X'02' WAIT STATE.
	.... ..1		SDWASPVA	X'01' SUPERVISOR/PROB LEM-PROGRAM MODE.

SDWA

SDWA

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
10	(A) CHARACTER	2	SDWAINTA	INTERRUPT CODE (LAST 2 BYTES OF INTERRUPT CODE IF I/O INTERRUPT).
12	(C) BITSTRING	1	SDWAPIKA	INSTRUCTION LENGTH CODE, CONDITION CODE, AND PROGRAM MASKS.
	11..		SDWAILA	X'C0' INSTRUCTION LENGTH CODE.
	..11		SDWACCA	X'30' LAST CONDITION CODE.
	.... 1...		SDWAFPA	X'08' FIXED-POINT OVERFLOW.
	.... .1..		SDWADOA	X'04' DECIMAL OVERFLOW.
	.... ..1.		SDWAEUA	X'02' EXPONENT UNDERFLOW.
	.... ...1		SDWASGA	X'01' SIGNIFICANCE.
13	(D) A-ADDRESS	3	SDWANXTA	ADDRESS OF NEXT INSTRUCTION TO BE EXECUTED.
16	(10) CHARACTER	8	SDWACTL2	BC MODE PSW FROM LAST PRB ON RB CHAIN. ZERO FOR FRRS.
16	(10) BITSTRING	1	SDWACMKP	CHANNEL INTERRUPT MASKS.
	1111 111.		SDWAIOP	X'FE' I/O INTERRUPTS (ALL ZEROS OR ALL ONES).
	.... ...1		SDWAEXTP	X'01' EXTERNAL INTERRUPT.
17	(11) BITSTRING	1	SDWAMWPP	PSW KEY AND 'M-W-P'.
	1111		SDWAKEYP	X'F0' PSW KEY.
	.... .1..		SDWAMCKP	X'04' MACHINE CHECK INTERRUPT.
	.... ..1.		SDWAWATP	X'02' WAIT STATE.
	.... ...1		SDWASPVP	X'01' SUPERVISOR/PROBLEM-PROGRAM MODE.
18	(12) CHARACTER	2	SDWAINTP	INTERRUPT CODE (LAST 2 BYTES OF INTERRUPT CODE IF I/O INTERRUPT).

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
20	(14) BITSTRING	1	SDWAPMKP	INSTRUCTION LENGTH CODE, CONDITION CODE, AND PROGRAM MASKS.
	11..		SDWAILP	X'C0' INSTRUCTION LENGTH CODE.
	..11		SDWACCP	X'30' LAST CONDITION CODE.
	.... 1...		SDWAFPP	X'08' FIXED-POINT OVERFLOW.
	.... .1..		SDWADOP	X'04' DECIMAL OVERFLOW.
	.... ..1.		SDWAEUP	X'02' EXPONENT UNDERFLOW.
	.... ...1		SDWASGP	X'01' SIGNIFICANCE.
21	(15) A-ADDRESS	3	SDWANXTP	ADDRESS OF NEXT INSTRUCTION TO BE EXECUTED.

24	(18) CHARACTER	64	SDWAGRSV	GENERAL PURPOSE REGISTERS AT TIME OF ERROR

24	(18) SIGNED	4	SDWAGR00	GPR 0.

28	(1C) SIGNED	4	SDWAGR01	GPR 1.

32	(20) SIGNED	4	SDWAGR02	GPR 2.

36	(24) SIGNED	4	SDWAGR03	GPR 3.

40	(28) SIGNED	4	SDWAGR04	GPR 4.

44	(2C) SIGNED	4	SDWAGR05	GPR 5.

48	(30) SIGNED	4	SDWAGR06	GPR 6.

52	(34) SIGNED	4	SDWAGR07	GPR 7.

56	(38) SIGNED	4	SDWAGR08	GPR 8.

60	(3C) SIGNED	4	SDWAGR09	GPR 9.

64	(40) SIGNED	4	SDWAGR10	GPR 10.

68	(44) SIGNED	4	SDWAGR11	GPR 11.

72	(48) SIGNED	4	SDWAGR12	GPR 12.

76	(4C) SIGNED	4	SDWAGR13	GPR 13.

80	(50) SIGNED	4	SDWAGR14	GPR 14.

84	(54) SIGNED	4	SDWAGR15	GPR 15.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
88	(58) CHARACTER	8	SDWANAME	IF PROBLEM PROGRAM MODE NAME OF ABENDING PROGRAM, OR ZERO IF NO NAME IS AVAILABLE. ZERO IF NOT RUNNING UNDER AN RB
88	(58) A-ADDRESS	4	SDWARBAD	RB ADDRESS OF ABENDING PROGRAM (IF SUPERVISOR MODE PROGRAM RUNNING UNDER AN RB)
92	(5C) HEX	4		CONTAINS ZEROS IF SUPERVISOR MODE PROGRAM RUNNING UNDER AN RB OR IF PROGRAM NOT RUNNING UNDER AN RB
96	(60) A-ADDRESS	4	SDWAEP A	ENTRY POINT ADDRESS OF ABENDING PROGRAM. ZERO IF NOT RUNNING UNDER AN RB
100	(64) A-ADDRESS	4	SDWAI OBR	POINTER TO SDWAFIOB FIELD, OR 0 IF NO RETRY, OR 0 IF HALT I/O IS REQUESTED FOR (E)STA EXITS. ZERO FOR FRRS
104	(68) CHARACTER	8	SDWAEC1	EXTENDED CONTROL PSW AT TIME OF ERROR(ABEND)
104	(68) BITSTRING	1	SDWAEMK1	INTERRUPT INFORMATION MASKS
	.1... ..		SDWAPER1	X'40' ON, PROGRAM EVENT RECORDING INTERRUPTS CAN OCCUR OFF, PROGRAM EVENT RECORDING INTERRUPTS CANNOT OCCUR

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... .1..		SDWATRM1	X'04' ON, ADDRESS TRANSLATION ACTIVE
	.... ..1.		SDWAI01	X'02' OFF, I/O INTERRUPTION CAN NOT OCCUR ON, I/O INTERRUPTIONS CAN OCCUR SUBJECT TO CHANNEL MASK BITS IN CONTROL REGS 2 AND 3
	.... ...1		SDWAEXT1	X'01' OFF, EXTERNAL INTERRUPTION CANNOT OCCUR ON, EXTERNAL INTERRUPTIONS CAN OCCUR SUBJECT TO EXTERNAL SUBCLASS MASK BITS OF CONTROL REG 0
105	(69) BITSTRING	1	SDWAMWP1	PSW KEY AND 'M-W-P'
	1111		SDWAKEY1	X'F0' PSW KEY
	.... 1...		SDWAECT1	X'08' EXTENDED CONTROL MODE BIT
	.... .1..		SDWAMCK1	X'04' OFF, MACHINE CHECK CANNOT OCCUR ON, MACHINE CHECK DUE TO SYSTEM DAMAGE AND INSTRUCTION-PRO CESSING DAMAGE CAN OCCUR OTHER MACHINE CHECKS SUBJECT TO MASK BITS IN CONTROL REGISTER 14
	.... ..1.		SDWAWAT1	X'02' ON, CPU IN WAIT STATE
	.... ...1		SDWAPGM1	X'01' ON, PROBLEM STATE OFF, SUPERVISOR STATE
106	(6A) BITSTRING	1	SDWAINT1	CONDITION CODE AND PROGRAM MASK
	..11		SDWACC1	X'30' CONDITION CODE
	.... 1...		SDWAFPO1	X'08' FIXED POINT OVERFLOW

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... .1..		SDWADEC1	X'04' DECIMAL OVERFLOW
	.... ..1.		SDWAEXPI	X'02' EXPONENT UNDERFLOW
	.... ....1		SDWASGN1	X'01' SIGNIFICANCE RESERVED
107	(6B) BITSTRING	1		
108	(6C) SIGNED	4	SDWANXT1	ADDRESS OF NEXT INSTRUCTION TO BE EXECUTED.
108	(6C) CHARACTER	1		RESERVED
109	(6D) CHARACTER	3	SDWAADD1	INSTRUCTION ADDRESS
112	(70) CHARACTER	8	SDWAAEC1	ADDITIONAL EC MODE INFORMATION
112	(70) CHARACTER	1		RESERVED
113	(71) BITSTRING	1	SDWAILC1	INSTRUCTION LENGTH CODE FOR PSW DEFINED BY SDWAE1
114	.... .11. (72) CHARACTER	2	SDWAIL1 SDWAINC1	X'06' ILC INTERRUPT CODE. IF PROGRAM CHECK OCCURRED THE SUBFIELDS ARE FURTHER DIVIDED
114	(72) CHARACTER	1		RESERVED FOR IMPRECISE INTERRUPTS ON PROGRAM CHECK INTERRUPT
115	(73) BITSTRING	1	SDWAICD1	8 BIT INTERRUPT CODE IF PROGRAM CHECK OCCURRED
	1...		SDWAIPR1	X'80' PER INTERRUPT OCCURRED
	.1...		SDWAIMC1	X'40' MONITOR CALL INTERRUPT OCCURRED
	..11 1111		SDWAIPC1	X'3F' AN UNSOLICITED PROGRAM CHECK HAS OCCURRED
116	(74) A-ADDRESS	4	SDWATRAN	VIRTUAL ADDRESS CAUSING TRANSLATION EXCEPTION

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
120	(78) CHARACTER	8	SDWAEC2	EXTENDED CONTROL PSW FROM THE RB LEVEL WHICH CREATED THE ESTAE EXIT AT THE TIME IT LAST INCURRED AN INTERRUPT OR 0 FOR ESTAI. OR PSW USED TO GIVE FRR CONTROL

120	(78) BITSTRING	1	SDWAEMK2	INTERRUPT INFORMATION MASKS
	.1..		SDWAPER2	X'40' ON, PROGRAM EVENT RECORDING INTERRUPTS CAN OCCUR OFF, PROGRAM EVENT RECORDING INTERRUPTS CANNOT OCCUR
	.... .1..		SDWATRM2	X'04' ON, ADDRESS TRANSLATION ACTIVE
	.... .1.		SDWAI02	X'02' OFF, I/O INTERRUPTION CANNOT OCCUR ON, I/O INTERRUPTIONS CAN OCCUR SUBJECT TO TO CHANNEL MASK BITS IN CONTROL REGS 2 AND 3
	.... ....1		SDWAEXT2	X'01' OFF, EXTERNAL INTERRUPTION CANNOT OCCUR ON, EXTERNAL INTERRUPTIONS CAN OCCUR SUBJECT TO EXTERNAL SUBCLASS MASK BITS OF CONTROL REG 0
121	(79) BITSTRING	1	SDWAMP2	PSW KEY AND 'M-W-P'
	1111		SDWAKEY2	X'F0' PSW KEY
	.... 1...		SDWAECT2	X'08' EXTENDED CONTROL MODE BIT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... .1..		SDWAMCK2	X'04' OFF, MACHINE CHECK C/NNOT OCCUR ON, MACHINE CHECK DUE TO SYSTEM DAMAGE AND INSTRUCTION-PRO CESSING DAMAGE CAN OCCUR OTHER MACHINE CHECKS SUBJECT TO MASK BITS IN CONTROL REGISTER 14
	.... .1.		SDWAHAT2	X'02' ON, CPU IN WAIT STATE
	.... ....1		SDWAPGM2	X'01' ON, PROBLEM STATE OFF, SUPERVISOR STATE
122	(7A) BITSTRING	1	SDWAIN2	CONDITION CODE AND PROGRAM MASK
	..11		SDWACC2	X'30' CONDITION CODE
	.... 1..		SDWAFP02	X'08' FIXED POINT OVERFLOW
	.... .1..		SDWADEC2	X'04' DECIMAL OVERFLOW
	.... .1.		SDWAEXP2	X'02' EXPONENT UNDERFLOW
	.... ....1		SDWASGN2	X'01' SIGNIFICANCE RESERVED
123	(7B) BITSTRING	1		

124	(7C) SIGNED	4	SDWANXT2	ADDRESS OF NEXT INSTRUCTION TO BE EXECUTED

124	(7C) CHARACTER	1		RESERVED
125	(7D) CHARACTER	3	SDWAADD2	INSTRUCTION ADDRESS

128	(80) CHARACTER	8	SDWAAEC2	ADDITIONAL EC MODE INFORMATION

128	(80) CHARACTER	1		RESERVED
129	(81) BITSTRING	1	SDWAILC2	INSTRUCTION LENGTH CODE FOR PSW DEFINED BY SDWAAEC2
	.... .11.		SDWAIL2	X'06' ILC
130	(82) CHARACTER	2	SDWAINC2	INTERRUPT CODE. IF PROGRAM CHECK OCCURRED THE SUBFIELDS ARE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
130	(82) CHARACTER	1		FURTHER DIVIDED RESERVED FOR IMPRECISE INTERRUPTS ON PROGRAM CHECK INTERRUPT
131	(83) BITSTRING	1	SDWAICD2	8 BIT INTERRUPT CODE IF PROGRAM CHECK
	1... ..		SDWAIPR2	X'80' PER INTERRUPT OCCURRED
	.1... ..		SDWAIMC2	X'40' MONITOR CALL INTERRUPT OCCURRED
	..11 1111		SDWAIPC2	X'3F' AN UNSOLICITED PROGRAM CHECK HAS OCCURRED

132	(84) A-ADDRESS	4	SDWATRN2	VIRTUAL ADDRESS CAUSING TRANSLATION EXCEPTION

136	(88) CHARACTER	64	SDWASRSV	GENERAL PURPOSE REGISTERS OF THE RB LEVEL WHICH CREATED THE ESTAE EXIT AT THE TIME IT LAST INCURRED AN INTERRUPT OR 0 FOR ESTAI FOR FRRS INITIALIZED TO REGISTERS AT TIME OF ERROR. THIS REGISTER AREA IS USED TO UPDATE REGISTER CONTENTS FOR RETRY IF REQUESTED

136	(88) SIGNED	4	SDWASR00	GPR 0.

140	(8C) SIGNED	4	SDWASR01	GPR 1.

144	(90) SIGNED	4	SDWASR02	GPR 2.

148	(94) SIGNED	4	SDWASR03	GPR 3.

152	(98) SIGNED	4	SDWASR04	GPR 4.

156	(9C) SIGNED	4	SDWASR05	GPR 5.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
160	(A0) SIGNED	4	SDWASR06	GPR 6.
164	(A4) SIGNED	4	SDWASR07	GPR 7.
168	(A8) SIGNED	4	SDWASR08	GPR 8.
172	(AC) SIGNED	4	SDWASR09	GPR 9.
176	(B0) SIGNED	4	SDWASR10	GPR 10.
180	(B4) SIGNED	4	SDWASR11	GPR 11.
184	(B8) SIGNED	4	SDWASR12	GPR 12.
188	(BC) SIGNED	4	SDWASR13	GPR 13.
192	(C0) SIGNED	4	SDWASR14	GPR 14.
196	(C4) SIGNED	4	SDWASR15	GPR 15.
200	(C8) CHARACTER	4	SDWAIDNT	SDWA IDENTIFICATION ATTRIBUTES
200	(C8) CHARACTER	1	SDWASPID	SUBPOOL ID OF STORAGE CONTAINING THIS SDWA
201	(C9) CHARACTER	3	SDWALNTH	LENGTH OF THIS SDWA IN BYTES
204	(CC) CHARACTER	28	SDWAMCH	CONTAINS MACHINE CHECK DATA IF SDWAMCHK IS ON
204	(CC) CHARACTER	8	SDWASTCK	BEGINNING AND ENDING STORAGE CHECK ADDRESSES. FILLED IN DUE TO STORAGE ERROR (SDWASCK) OR A KEY FAILURE (SDWASKYF). THESE ADDRESSES ARE VALID ONLY IF INDICATED BY THE SDWASRVL FLAG.
204	(CC) A-ADDRESS	4	SDWASCKB	BEGINNING VIRTUAL ADDRESS OF STORAGE CHECK
208	(D0) A-ADDRESS	4	SDWASCKE	ENDING VIRTUAL ADDRESS OF STORAGE CHECK

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
212	(D4) BITSTRING	2	SDWAMCHI	ADDITIONAL MCH INFORMATION. FLAGS
212	(D4) BITSTRING 1...	1	SDWAMCHS SDWASRVL	MCH FLAG BYTE X'80' ON, STORAGE ADDRESSES SUPPLIED (SDWASTCK, SDWARFSA) ARE VALID.
	.1...		SDWARCDF	X'40' ON, MACHINE CHECK RECORD NOT RECORDED
	..1.		SDWATSVL	X'20' ON, TIME STAMP IS VALID
	...1		SDWAINVP	X'10' ON, STORAGE IS RECONFIGURED, PAGE IS INVALIDATED
	.... 1...		SDWARSRC	X'08' ON, STORAGE RECONFIGURATION (SDWARCR1, SDWASR2) STATUS AVAILABLE.
	.... .1..		SDWARSRF	X'04' ON, STORAGE RECONFIGURATION NOT ATTEMPTED. (SDWARSR1 AND SDWARSR2 ARE INVALID)
213	(D5) BITSTRING	1	SDWAMCHD	INPUT INFORMATION TO RECOVERY ROUTINE CONCERNING A MACHINE CHECK ERROR
	1...		SDWASKYF	X'80' ON, STORAGE KEY FAILURE
	.1...		SDWAREGU	X'40' ON, GENERAL PURPOSE REGISTER CONTENTS AT TIME OF MACHINE CHECK UNPREDICTABLE
	..1.		SDWAPSWU	X'20' ON, PSW AND/OR CONTROL REGISTERS AT TIME OF MACHINE CHECK UNPREDICTABLE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
....1			SDWASCK	X'10' ON, INDICATES STORAGE DATA CHECK
.... 1...			SDWAACR	X'08' ON, INDICATES ACR REQUEST
.... .1..			SDWAINSF	X'04' ON, INSTRUCTION FAILURE
.... .1..			SDWAFPRX	X'02' ON, CONTENTS OF FLOATING POINT REGISTERS AT TIME MACHINE CHECK ARE UNPREDICTABLE
....1			SDWATERR	X'01' ON, TIMER ERROR CAUSES ENTRY TO RECOVERY ROUTINES ONLY IF LOGOUT FAILED.
214	(D6) CHARACTER	2	SDWACPID	ID OF OF FAILING CPU CAUSING ACR

216	(D8) BITSTRING	1	SDWARSR1	ADDITIONAL STORAGE FRAME ERRCR INDICATORS AS RETURNED FROM REAL STORAGE RECONFIGURATION
.... .1..			SDWAMSER	X'02' STORAGE ERROR ALREADY SET IN FRAME.
....1			SDWACHNG	X'01' CHANGE INDICATOR WAS ON IN FRAME.
217	(D9) BITSTRING	1	SDWARSR2	ADDITIONAL STORAGE ERROR INDICATORS.
1...			SDWAOFLN	X'80' FRAME OFFLINE OR SCHEDULED TO GO OFFLINE IF SDWAINTC IS ON
.1...			SDWAINTC	X'40' INTERCEPT THE FRAME IS SCHEDULED TO GO OFFLINE, OR THE FRAME HAS INCURRED A STORAGE ERROR, OR IS V=R
..1.			SDWASPER	X'20' STORAGE ERROR PERMANENT ON FRAME.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
....1			SDWANUCL	X'10' FRAME CONTAINS PERMANENT RESIDENT STORAGE, I.E. NUCLEUS.
.... 1...			SDWAFSQA	X'08' FRAME IN SQA
.... .1..			SDWAFLSQ	X'04' FRAME IN LSQA
.... ..1.			SDWAPGFX	X'02' FRAME IS PAGE FIXED
.... ...1			SDWAVEQR	X'01' FRAME IS VIRTUAL = REAL, OR SCHEDULED FOR VIRTUAL = REAL IF SDWAINTC IS ON
218	(DA) CHARACTER	2		RESERVED

220	(DC) A-ADDRESS	4	SDWARFSA	REAL STORAGE FAILING ADDRESS (VALID ONLY IF INDICATED BY SDWASRVL)

224	(E0) CHARACTER	8	SDWATIME	TIME STAMP OF ASSOCIATED MACHINE CHECK RECORD

232	(E8) BITSTRING	4	SDWAFGLS	INPUT FLAGS DESCRIBING REASONS AND CONDITIONS FOR ENTERING A RECOVERY EXIT ROUTINE.

232	(E8) BITSTRING	1	SDWAERRA	ERROR TYPE CAUSING ENTRY TO RECOVERY EXIT
1...			SDWAMCHK	X'80' ON INDICATES MACHINE CHECK
.1...			SDWAPCHK	X'40' ON INDICATES PROGRAM CHECK
..1.			SDWARKEY	X'20' ON INDICATES CONSOLE RESTART KEY WAS DEPRESSED
....1			SDWASVCD	X'10' ON INDICATES TASK ISSUED SVC 13
.... 1...			SDWAABTM	X'08' ON INDICATES SYSTEM FORCED SVC 13(I.E.ABTERM)

SDWA

SDWA

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... .1..		SDWASVCE	X'04' ON, INDICATES AN SVC WAS ISSUED BY A LOCKED OR SRB ROUTINE
	.... ..1.		SDWATEXC	X'02' ON, INDICATES AN UNRECOVERABLE TRANSLATION FAILURE
	.... ...1		SDWAPGIO	X'01' ON, INDICATES A PAGE I/O ERROR
233	(E9) BITSTRING	1	SDWAERRB	ADDITIONAL ERROR ENTRY INFORMATION
	.... 1...		SDWATYPI	X'08' ON TYPE 1 SVC IN CONTROL AT TIME OF ERROR
	.... .1..		SDWAENRB	X'04' ON ENABLED RB IN CONTROL AT TIME OF ERROR
	.... ..1.		SDWALDIS	X'02' ON A LOGICALLY OR PHYSICALLY DISABLED ROUTINE WAS IN CONTROL AT THE TIME OF ERROR.
	.... ...1		SDWASRBM	X'01' ON SYSTEM IN SRB MODE AT TIME OF ERROR
234	(EA) BITSTRING	1	SDWAERRC	ADDITIONAL ERROR ENTRY INFORMATION
	1...		SDWASTAF	X'80' ON INDICATES A PREVIOUS (E)STA OR FRR EXIT FAILED.
	.1..		SDWASTAI	X'40' ON A (E)STAI EXIT PREVIOUSLY RECEIVED CONTROL
	..1.		SDWAIRB	X'20' ON AN IRB PRECEDED THE RB THAT IS ASSOCIATED WITH THIS EXIT
	...1		SDWAPERC	X'10' ON THIS RECOVERY ROUTINE IS BEING PERCOLATED TO

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... 1...			SDWAEAS	X'08' ON INDICATES A LOWER LEVEL EXIT HAS RECOGNIZED AN ERROR AND PROVIDED SERVICEABILITY INFORMATION
235 (EB) BITSTRING		1	SDWAERRD	ADDITIONAL ERROR ENTRY INFORMATION
1...			SDWACLUP	X'80' ON INDICATES RECOVERY EXIT ONLY TO CLEANUP AND NOT RETRY (IF ESTA EXIT AND 33E COMPLETION CODE THE DUMP IS TAKEN AFTER ENTRY TO THE RECOVERY ROUTINE,IF THE COMPLETION CODE IS OTHER THAN 33E AND IT IS AN ESTA EXIT THE DUMP IS TAKEN BEFORE ENTRY TO THE RECOVERY ROUTINE)
.1..			SDWANRBE	X'40' ON RB ASSOCIATED WITH THIS ESTA EXIT WAS NOT IN CONTROL AT TIME OF ERROR NEVER ON FOR FRRS
...1.			SDWASTAE	X'20' ON THIS ESTA EXIT HAS BEEN ENTERED FOR A PREVIOUS ABEND NEVER ON FOR FRRS
...1			SDWACTS	X'10' ON,THIS TASK WAS NOT IN CONTROL AT TIME OF ERROR BUT A TASK WITHIN THE SAME JOBSTEP TREE REQUESTED A 'STEP' ABEND. ONLY 'ON' IF SDWACLUP IS 'ON'

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... 1...			SDWAMABD	X'08' ON, THIS TASK WAS NOT IN CONTROL AT TIME OF ERROR BUT AN ANCESTOR OF THIS TASK HAS ABEND'ED ONLY 'ON' IF SDWACLUP IS 'ON'.
.... .1..			SDWARPIV	X'04' ON, THE REGISTERS AND PSW AT TIME OF ERROR ARE UNAVAILABLE
.... ..1.			SDWAMCIV	X'02' ON, MACHINE CHECK ERROR INFORMATION IS UNAVAILABLE.
....1			SDWAERFL	X'01' ON, ERRORID INFORMATION AVAILABLE

236	(EC) CHARACTER	2	SDWAFMID	ASID OF MEMORY IN WHICH ERROR OCCURRED. =0, IF THE MEMORY IS CURRENT NOT=0 IF OTHER MEMORY IS CURRENT FOR FRRS- IF THE VALUE IS NON ZERO THE FRR IS RECEIVING CONTROL IN THE MASTER SCHEDULER ADDRESS SPACE AND CANNOT ADDRESS THE PRIVATE AREA OF THE FAILING ADDRESS SPACE. FOR ESTA- IF THE VALUE IS NON ZERO ENTRY IS DUE TO CROSS MEMORY ABTERM.
238	(EE) BITSTRING	1	SDWAIOFS	THIS IS THE CURRENT I/O STATUS (THE I/O PROCESSING REQUESTED BY THE FIRST (E)STA EXIT IS THE ONLY REQUEST HONORED)

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	1... ..		SDWAICQR	X'80' ON,I/O FOR FAILING PROGRAM HAS BEEN QUIESCED AND IS RESTOREABLE
	.1... ..		SDWAIOHT	X'40' ON,I/O FOR FAILING PROGRAM HAS BEEN HALTED AND IS NOT RESTOREABLE
	..1.		SDWANOIO	X'20' ON,FAILING PROGRAM HAS NO I/O OUTSTANDING
	...1		SDWANIOF	X'10' ON,USER REQUESTED NO I/O PROCESSING ERRORID
239	(EF) CHARACTER	1	SDWACPUJ	LOGICAL CPUID

240	(F0) A-ADDRESS	4	SDWARTYA	ADDRESS OF RETRY ROUTINE

244	(F4) A-ADDRESS	4	SDWARECA	ADDRESS OF VARIABLE RECORDING AREA WITHIN SDWA

248	(F8) CHARACTER	4	SDWACPUA	ADDRESS OF CPU HOLDING RESOURCE WHICH CAUSES VALID SPIN ON CURRENT CPU USED WITH RESTART KEY ERROR TYPE.IF THIS FIELD IS VALIDLY FILLED IN BY AN FRR THE FRRS MAINLINE PROGRAM WILL BE RESUMED AT THE NEXT SEQUENTIAL INSTRUCTION. NOT VALID FOR ESTAE EXITS.

248	(F8) CHARACTER	2		RESERVED
250	(FA) SIGNED	2	SDWALCPU	LOGICAL ADDRESS OF CPU HOLDING RESOURCE

252	(FC) BITSTRING	4	SDWAPARQ	FLAGS SET BY RECOVERY ROUTINE TO REQUEST FURTHER

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
252	(FC) BITSTRING	1	SDWARCDE	RETURN CODE FROM RECOVERY ROUTINE TO INDICATE RETRY OR TERMINATION
	.... ....		SDWACHT	0 0 ,CONTINUE WITH TERMINATION. THIS INDICATION IMPLIES PERCOLATION
	.... .1..		SDWARETY	4 4 ,RETRY USING RETRY ADDRESS IN SDWARTYA FIELD
	...1		SDWAPSTI	16 16,PREVENT FURTHER (E)STAI PROCESSING
253	(FD) BITSTRING	1	SDWAACF2	FLAGS TO INDICATE ADDITIONAL PROCESSING REQUESTS
	1...		SDWARCRD	X'80' ON,RECORDING REQUESTED
	..1.		SDWASPIN	X'20' ON,PROGRAM INTERRUPTED VIA THE RESTART KEY WAS IN A VALID SPIN(SET BY THE SETRP MACRO WHEN CPU ADDRESS IS SPECIFIED ALONG WITH THE CPU ADDRESS IN SDWACPUA FIELD TO ALLOW RESTART OF THE ALTERNATE CPU)
	.... 1...		SDWAUPRG	X'08' ON,UPDATED REGISTERS STARTING WITH SDWASR00 ARE TO BE USED FOR RETRY
	.... .1..		SDWAFREE	X'04' ON,SDWA/RTCA TO BE FREED PRIOR TO RETRY. ONLY VALID FOR ESTA EXITS

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
254	(FE) BITSTRING	1	SDWAACF3	FLAGS INDICATING WHAT GLOBAL LOCKS ARE TO BE FREED (KEY 0 SUPERVISOR ONLY) ONLY VALID FOR FRRS.
	...1		SDWADISP	X'10' ON,THE DISPATCHER LOCK
	.... 1...		SDWAASMP	X'08' ON,THE ASM CLASS LOCK Z40WPXH
	.... .1..		SDWASALL	X'04' ON, THE SALLOC LOCK
	.... ..1.		SDWAIPRG	X'02' ON, THE IOSYNCH LOCK
	.... ....1		SDWAICAT	X'01' ON,THE IOSCAT LOCK
255	(FF) BITSTRING	1	SDWAACF4	ADDITIONAL LOCKS TO BE FREED FOR FRRS
	1...		SDWAIUCB	X'80' ON, THE IOSUCB LOCK
	.1..		SDWAILCH	X'40' ON, THE IOSLCH LOCK
	..1.		SDWATNCB	X'20' RESERVED LOCK Z40WPXH
	...1		SDWATDNB	X'10' RESERVED LOCK Z40WPXH
	.... 1...		SDWATADB	X'08' RESERVED LOCK Z40WPXH
	.... .1..		SDWAOPTM	X'04' ON,THE SYSTEM RESOURCES MGR(SRM) LOCK LOCK
	.... ..1.		SDWACMS	X'02' ON,THE CMS LOCK
	.... ....1		SDWAFLLK	X'01' ON,THE LOCAL LOCK

256	(100) CHARACTER	32	SDWALKWA	LOCK AREA

256	(100) CHARACTER	32	SDWALKWS	LOCKWORDS REQUIRED TO FREE GLOBAL LOCKS ONLY USED FOR FRRS

256	(100) A-ADDRESS	4	SDWAICLW	LOCKWORD FOR THE IOSCAT LOCK

260	(104) A-ADDRESS	4	SDWAIULW	LOCKWORD FOR THE IOSUCB LOCK

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
264	(108) A-ADDRESS	4	SDWAILLW	LOCKWORD FOR THE IOSLCH LOCK
268	(10C) A-ADDRESS	4	SDWAIPLW	LOCKWORD FOR THE IOSYNCH LOCK
272	(110) A-ADDRESS	4	SDWAAPLW	LOCKWORD FOR THE ASM CLASS LOCK Z40WPXH
276	(114) A-ADDRESS	4	SDWATNLW	LOCKWORD RESERVED Z40WPXH
280	(118) A-ADDRESS	4	SDWATDLW	LOCKWORD RESERVED Z40WPXH
284	(11C) A-ADDRESS	4	SDWATALW	LOCKWORD RESERVED Z40WPXH
288	(120) CHARACTER	2	SDWAASID	ASID FOR LOGREC DEBUGGING
290	(122) CHARACTER	2	SDWASEQ#	ERRORID SEQUENCE NUMBER
292	(124) CHARACTER	24	SDWARECP	RECORDING PARAMETERS (MODULE,CSECT AND RECOVERY ROUTINE NAMES-RESPECTIVELY)
292	(124) CHARACTER	8	SDWAMODN	THE MODULE NAME INVOLVED IN THE ERROR (SUPPLIED BY THE RECOVERY ROUTINE)
300	(12C) CHARACTER	8	SDWAC SCT	THE CSECT NAME INVOLVED IN THE ERROR (SUPPLIED BY THE RECOVERY ROUTINE)
308	(134) CHARACTER	8	SDWAREXN	THE RECOVERY ROUTINE NAME HANDLING THE ERROR
316	(13C) A-ADDRESS	4	SDWADPLA	POINTER TO DUMP PARAMETER LIST RESIDING IN SDWA.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
320	(140) CHARACTER	8	SDWASNPA	SNAP PARAMETER LIST FLAGS

320	(140) CHARACTER	4	SDWADUMP	DUMP CHARACTERISTICS

320	(140) CHARACTER	1	SDWADPID	ID OF DUMP REQUESTED
321	(141) BITSTRING	1	SDWADPFS	DUMP FLAGS
	1... ..		SDWADPT	X'80' ALWAYS OFF, INDICATES SNAP DUMP REQUEST
	.1... ..		SDWADLST	X'40' ALWAYS ON, INDICATES THAT OS/V52 REL. 2 DUMP PARAMETER LIST SUPPLIED USED BY RTM TO INDICATE DUMP OPTIONS ARE AVAILABLE IN THE SDWA
	...1.		SDWAENSX	X'20' ON, ENHANCED DUMP OPTIONS
	.... .1.		SDWASLST	X'02' ON, STORAGE LISTS SUPPLIED FOR DUMP RESERVED
322	(142) CHARACTER	2		

324	(144) CHARACTER	4	SDWADDAT	SDATA AND PDATA OPTIONS

324	(144) CHARACTER	2	SDWASDAT	SDATA OPTIONS

324	(144) BITSTRING	1	SDWASDA0	SDATA OPTIONS FLAG ONE
	1... ..		SDWANUC	X'80' DISPLAY NUCLEUS
	.1... ..		SDWASQA	X'40' DISPLAY SQA
	..1.		SDWALSQA	X'20' DISPLAY LSQA
	...1		SDWASHA	X'10' DISPLAY SWA
	.... 1...		SDWAGTF	X'08' DISPLAY GTF INCORE TRACE TABLE
	.... .1..		SDWACBS	X'04' FORMAT AND DISPLAY CONTROL BLOCKS
	.... .1.		SDWAQQS	X'02' FORMAT AND DISPLAY QCBS/QELS
	.... .1		SDWADM	X'01' FORMAT DATA MGT CONTROL BLOCKS
325	(145) BITSTRING	1	SDWASDA1	SDATA OPTIONS

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	1... ..		SDWAI0	X'80' FORMAT I/O SUPERVISOR CONTROL BLOCKS
	.1... ..		SDWAERR	X'40' FORMAT ERROR CONTROL BLOCKS
326	(146) BITSTRING 1... ..	1	SDWAFDAT SDWADSAS	PDATA OPTIONS X'80' DISPLAY SAVE AREAS
	.1... ..		SDWADSAH	X'40' DISPLAY SAVE AREA HEADER
	..1.		SDWADREG	X'20' DISPLAY REGISTERS
	...1		SDWATLPA	X'10' DISPLAY LPA MODULES OF TASK
	.... 1...		SDWATJPA	X'08' DISPLAY JPA MODULES OF TASK
	.... .1..		SDWADPSW	X'04' DISPLAY PEW
	.... ..1.		SDWAUSPL	X'02' DISPLAY USER SUBPOOLS RESERVED
327	(147) BITSTRING	1		
328	(148) CHARACTER	36	SDWADPSA	DUMP RANGES AREA
328	(148) CHARACTER	32	SDWADPSL	DUMP STORAGE LISTS (MAX 4 RANGES AVAILABLE)
328	(140) A-ADDRESS	4	SDWAFRM1	BEGINNING ADDRESS FOR STORAGE RANGE 1
332	(14C) A-ADDRESS	4	SDWATO1	ENDING ADDRESS FOR STORAGE RANGE 1
336	(150) A-ADDRESS	4	SDWAFRM2	BEGINNING ADDRESS FOR STORAGE RANGE2
340	(154) A-ADDRESS	4	SDWATO2	ENDING ADDRESS FOR STORAGE RANGE 2
344	(158) A-ADDRESS	4	SDWAFRM3	BEGINNING ADDRESS FOR STORAGE RANGE 3
348	(15C) A-ADDRESS	4	SDWATO3	ENDING ADDRESS FOR STORAGE RANGE 3

SDWA

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
352 (160)	A-ADDRESS	4	SDWAFRM4	BEGINNING ADDRESS FOR STORAGE RANGE 4
356 (164)	A-ADDRESS	4	SDWAT04	ENDING ADDRESS FOR STORAGE RANGE 4
360 (168)	A-ADDRESS	4		RESERVED
364 (16C)	CHARACTER	28	SDWARCP L	RESERVED FOR RTM USE.
392 (188)	A-ADDRESS	4	SDWACOMP	THIS WORD IS PROVIDED FOR COMMUNICATION OF ADDITIONAL RECOVERY DATA ON A PER COMPONENT BASIS (FOR OS/VS2 RELEASE 2 THIS FIELD IS ONLY USED BY DATA MANAGER)
396 (18C)	CHARACTER	4	SDWAERTM	ERRORID TIME STAMP
400 (190)	CHARACTER	112	SDWARA	VARIABLE RECORDING AREA PREFIXED BY A TWO BYTE LENGTH FIELD OF AREA AND A TWO BYTE LENGTH FIELD OF USER SUPPLIED RECORDING DATA
400 (190)	CHARACTER	2	SDWAVRAL	LENGTH OF VARIABLE RECORDING AREA
402 (192)	BITSTRING	1	SDWADPVA	DEFINES DUMPING OF DATA IN VARIABLE AREA
	1... ..		SDWAHEX	X'80' DATA TO BE DUMPED BY EREP IN HEX.
	.1... ..		SDWAEB C	X'40' DATA TO BE DUMPED BY EREP IN EBCDIC
403 (193)	CHARACTER	1	SDWAURAL	LENGTH OF USER SUPPLIED RECORDING DATA
404 (194)	CHARACTER	108	SDHAVRA	VARIABLE RECORDING AREA

SDWA

SDWA

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
512 (200)	FLOATING	8	SDWAEND	END OF SDWA FORCED TO DOUBLE WORD

CROSS REFERENCE

SDWA	0 (0)	SDWAENRB	233 X'04'
SDWAABCC	4 (4)	SDWAENSN	321 X'20'
SDWAABTM	232 X'08'	SDWAEP A	96 (60)
SDWAACF2	253 (FD)	SDWAERFL	235 X'01'
SDWAACF3	254 (FE)	SDWAERR	325 X'40'
SDWAACF4	255 (FF)	SDWAERRA	232 (E8)
SDWAACR	213 X'08'	SDWAERRB	233 (E9)
SDWAADD1	109 (6D)	SDWAERRC	234 (EA)
SDWAADD2	125 (7D)	SDWAERRD	235 (EB)
SDWAAEC1	112 (70)	SDWAERTM	396(18C)
SDWAAEC2	128 (80)	SDWAEUA	12 X'02'
SDWAAPLW	272(110)	SDWAEUP	20 X'02'
SDWAASID	288(120)	SDWAEXP1	106 X'02'
SDWAASMP	254 X'08'	SDWAEXP2	122 X'02'
SDWACBS	324 X'04'	SDWAEXTA	8 X'01'
SDWACCA	12 X'30'	SDWAEXTP	16 X'01'
SDWACCP	20 X'30'	SDWAEXT1	104 X'01'
SDWACC1	106 X'30'	SDWAEXT2	120 X'01'
SDWACC2	122 X'30'	SDWAFIOB	4 (4)
SDWACHNG	216 X'01'	SDWAFLLS	232 (E8)
SDWACLUP	235 X'80'	SDWAFLLK	255 X'01'
SDWACMKA	8 (8)	SDWAFLSQ	217 X'04'
SDWACMKP	16 (10)	SDWAFMID	236 (EC)
SDWACHPC	5 (5)	SDWAFPA	12 X'08'
SDWACMPF	4 (4)	SDWAFPO1	106 X'08'
SDWACHS	255 X'02'	SDWAFPO2	122 X'08'
SDWACOMP	392(188)	SDWAFPP	20 X'08'
SDWACPID	214 (D6)	SDWAFPRX	213 X'02'
SDWACPUA	248 (F8)	SDWAFREE	253 X'04'
SDWACPUI	239 (EF)	SDWAFRH1	328(148)
SDWACSCT	300(12C)	SDWAFRH2	336(150)
SDWACTL1	8 (8)	SDWAFRM3	344(158)
SDWACTL2	16 (10)	SDWAFRM4	352(160)
SDWACTS	235 X'10'	SDWAFSQA	217 X'08'
SDWACWT	252 X'00'	SDWAGRSV	24 (18)
SDWADDAT	324(144)	SDWAGR00	24 (18)
SDWADEC1	106 X'04'	SDWAGR01	28 (1C)
SDWADEC2	122 X'04'	SDWAGR02	32 (20)
SDWADISP	254 X'10'	SDWAGR03	36 (24)
SDWADLST	321 X'40'	SDWAGR04	40 (28)
SDWADM	324 X'01'	SDWAGR05	44 (2C)
SDWADQA	12 X'04'	SDWAGR06	48 (30)
SDWADOP	20 X'04'	SDWAGR07	52 (34)
SDWADPFS	321(141)	SDWAGR08	56 (38)
SDWADPID	320(140)	SDWAGR09	60 (3C)
SDWADPLA	316(13C)	SDWAGR10	64 (40)
SDWADPSA	328(148)	SDWAGR11	68 (44)
SDWADPSL	328(148)	SDWAGR12	72 (48)
SDWADPSW	326 X'04'	SDWAGR13	76 (4C)
SDWADPT	321 X'80'	SDWAGR14	80 (50)
SDWADPVA	402(192)	SDWAGR15	84 (54)
SDWADREG	326 X'20'	SDWAGTF	324 X'08'
SDWADSAH	326 X'40'	SDWAHEX	402 X'60'
SDWADSAS	326 X'80'	SDWAICAT	254 X'01'
SDWADUMP	320(140)	SDWAICD1	115 (73)
SDWAEAS	234 X'08'	SDWAICD2	131 (83)
SDWAEBC	402 X'40'	SDWAICLW	256(100)
SDWAECT1	105 X'08'	SDWAIDNT	200 (C8)
SDWAECT2	121 X'08'	SDWAILA	12 X'00'
SDWAECL	104 (68)	SDWAILCH	255 X'40'
SDWAECL2	120 (78)	SDWAILC1	113 (71)
SDWAEMK1	104 (68)	SDWAILC2	129 (81)
SDWAEMK2	120 (78)	SDWAILLW	264(108)
SDWAEND	512(200)	SDWAILP	20 X'00'

CROSS REFERENCE

SDWAIL1	113 X'06'	SDWANXTA	13 (D)
SDWAIL2	129 X'06'	SDWANXTP	21 (15)
SDWAINC1	115 X'40'	SDWANXT1	108 (6C)
SDWAINC2	131 X'40'	SDWANXT2	124 (7C)
SDWAINC1	114 (72)	SDWAOFLN	217 X'80'
SDWAINC2	130 (82)	SDWAOPTM	255 X'04'
SDWAINSF	213 X'04'	SDWAPARM	0 (0)
SDWAINTA	10 (A)	SDWAPARQ	252 (FC)
SDWAINTC	217 X'40'	SDWAPCHK	232 X'40'
SDWAINTP	18 (12)	SDWAPDAT	326(146)
SDWAINT1	106 (6A)	SDWAFERC	234 X'10'
SDWAINT2	122 (7A)	SDWAPER1	104 X'40'
SDWAINVP	212 X'10'	SDWAPER2	120 X'40'
SDWAI0	325 X'80'	SDWAPGFX	217 X'02'
SDWAI0A	8 X'FE'	SDWAPGIO	232 X'01'
SDWAI0BR	100 (64)	SDWAPGM1	105 X'01'
SDWAI0FS	238 (EE)	SDWAPGM2	121 X'01'
SDWAI0HT	238 X'40'	SDWAPNIKA	12 (C)
SDWAI0P	16 X'FE'	SDWAPMKP	20 (14)
SDWAI0GR	238 X'80'	SDWAPSTI	252 X'10'
SDWAI0I	104 X'02'	SDWAPSWU	213 X'20'
SDWAI02	120 X'02'	SDWAGQS	324 X'02'
SDWAI0F1	115 X'3F'	SDWARA	400(190)
SDWAI0F2	131 X'3F'	SDWARBAD	88 (58)
SDWAIPLW	268(10C)	SDWARCDE	252 (FC)
SDWAI0PRG	254 X'02'	SDWARCDF	212 X'40'
SDWAI0FR1	115 X'80'	SDWARCPL	364(16C)
SDWAI0FR2	131 X'80'	SDWARCRD	253 X'80'
SDWAI0RB	234 X'20'	SDWARECA	244 (F4)
SDWAIUCB	255 X'80'	SDWARECP	292(124)
SDWAIUJLW	260(104)	SDWAREGU	213 X'40'
SDWAKEYA	9 X'F0'	SDWAREQ	4 X'80'
SDWAKEYP	17 X'F0'	SDWARETY	252 X'04'
SDWAKEY1	105 X'F0'	SDWAREXN	308(134)
SDWAKEY2	121 X'F0'	SDWARFSA	220 (DC)
SDWALCPU	250 (FA)	SDWARKEY	232 X'20'
SDWALDIS	233 X'02'	SDWARPIV	235 X'04'
SDWALKWA	256(100)	SDWARSRC	212 X'08'
SDWALKWS	256(100)	SDWARSRF	212 X'04'
SDWALNTH	201 (C9)	SDWARSR1	216 (D8)
SDWALSQA	324 X'20'	SDWARSR2	217 (D9)
SDWAMABD	235 X'08'	SDWARTYA	240 (F0)
SDWAMCH	204 (CC)	SDWASALL	254 X'04'
SDWAMCHD	213 (D5)	SDWASCK	213 X'10'
SDWAMCHI	212 (D4)	SDWASCKB	204 (CC)
SDWAMCHK	232 X'80'	SDWASCKE	208 (D0)
SDWAMCHS	212 (D4)	SDWASDAT	324(144)
SDWAMCIV	235 X'02'	SDWASDA0	324(144)
SDWAMCKA	9 X'04'	SDWASDA1	325(145)
SDWAMCKP	17 X'04'	SDWASEQ#	290(122)
SDWAMCK1	105 X'04'	SDWASGA	12 X'01'
SDWAMCK2	121 X'04'	SDWASGN1	106 X'01'
SDWAM00N	292(124)	SDWASGN2	122 X'01'
SDWANSER	216 X'02'	SDWASGP	20 X'01'
SDWAMWPA	9 (9)	SDWASKYF	213 X'80'
SDWAMWPP	17 (11)	SDWASLST	321 X'02'
SDWAMWPI	105 (69)	SDWASNPA	320(140)
SDWAMWPI2	121 (79)	SDWASPER	217 X'20'
SDWANAME	88 (58)	SDWASPID	200 (C8)
SDWANIOF	238 X'10'	SDWASPIN	253 X'20'
SDWAN0IO	238 X'20'	SDWASPVA	9 X'01'
SDWANRBE	235 X'40'	SDWASPVP	17 X'01'
SDWANUC	324 X'80'	SDWASQA	324 X'40'
SDWANUCL	217 X'10'	SDWASRBM	233 X'01'

CROSS REFERENCE

SDWASRSV	136 (88)
SDHASRVL	212 X'80'
SDWASR00	136 (88)
SDWASR01	140 (8C)
SDHASR02	144 (90)
SDWASR03	148 (94)
SDHASR04	152 (98)
SDWASR05	156 (9C)
SDWASR06	160 (A0)
SDHASR07	164 (A4)
SDWASR08	168 (A8)
SDHASR09	172 (AC)
SDWASR10	176 (B0)
SDWASR11	180 (B4)
SDHASR12	184 (B8)
SDWASR13	188 (BC)
SDWASR14	192 (C0)
SDWASR15	196 (C4)
SDWASTAE	235 X'20'
SDWASTAF	234 X'80'
SDWASTAI	234 X'40'
SDWASTCC	4 X'10'
SDWASTCK	204 (CC)
SDWASTEP	4 X'40'
SDWASVCD	232 X'10'
SDWASVCE	232 X'04'
SDWASWA	324 X'10'
SDWATADB	255 X'08'
SDWATALW	284(11C)
SDWATDLW	280(118)
SDWATDHB	255 X'10'
SDWATERR	213 X'01'
SDWATEXC	232 X'02'
SDWATIME	224 (E0)
SDWATJPA	326 X'08'
SDWATLPA	326 X'10'
SDWATNCB	255 X'20'
SDWATNLW	276(114)
SDWATO1	332(14C)
SDWATO2	340(154)
SDWATO3	348(15C)
SDWATO4	356(164)
SDWATRAN	116 (74)
SDWATRM1	104 X'04'
SDWATRM2	120 X'04'
SDWATRN2	132 (84)
SDWATSVL	212 X'20'
SDWATYP1	233 X'08'
SDWAUFRG	253 X'08'
SDWAURAL	403(193)
SDWAUSPL	326 X'02'
SDWAVEQR	217 X'01'
SDWAVRA	404(194)
SDWAVRAL	400(190)
SDWAHATA	9 X'02'
SDWAWATP	17 X'02'
SDWAHAT1	105 X'02'
SDWAWAT2	121 X'02'

SGTECommon Name: RSM Segment Table EntryMacro ID: IHASGTEDSECT Name: SGTSTECreated by: IEAVITAS (RSM supervisor)Subpool and Key: 255 and key 0Size: 4 bytesPointed to by: NoneSerialization: SALLOC lockFunction: Contains real address of page table origin.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SGTE	, STEPTR
0	(0) STRUCTURE	0	SGTSTE	, STEPTR

0	(0) BITSTRING	1	SGTLK	LENGTH AND KEY BYTE
	1111		SGTPL	X'F0' PAGE TABLE LENGTH
	.... 1111		SGTKEY	X'0F' SEGMENT PROTECTION KEY
1	(1) A-ADDRESS	3	SGPTO	FIRST 21 BITS CONCATENATED WITH THREE ZEROS ON THE LOW ORDER END FORM A 24 BIT REAL ADDRESS OF THE PAGE TABLE ORIGIN
1	(1) BITSTRING	2	SGTORG	FIRST 16 BITS OF THE ADDRESS OF THE PAGE TABLE ORIGIN
3	(3) BITSTRING	1	SGTBYTE	NEXT 5 BITS OF ADDRESS AND FLAG BITS
	.... .11.		SGTEAC	X'06' EXTERNAL ACCESS CODE
1		SGTPAM	X'01' PAGE TABLE AVAILABILITY FLAG WHEN 1 = SEGMENT IS INVALID

4	(4) CHARACTER	1	SGTEND	END OF SEGMENT TABLE ENTRY

May 15, 1979

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SGTE

SIOT

Common Name: System Input/Output Table

Macro ID: IEFASIOTDSECT Name: INDMISIOTCreated by: IEFVDASubpool and Key: 236 or 237 and key 1Size: 174 bytesPointed to by: SCT or previous SIOTsFunction: Contains information per data definition card.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	174	INDMSIOT	NAME OF TABLE
0	(0) UNKNOWN	3	SIOTDSKA	DISK ADDRESS OF SIOT
3	(3) UNKNOWN	1	SIOTTYPE	TABLE ID OF SIOT = 3
4	(4) UNKNOWN	8	SCTDDNAM	DD NAME
12	(C) UNKNOWN	8	SIOTDEST	USER ID FOR SYSOUT
20	(14) UNKNOWN	2	SCTUSADD	INT. DD NO. FOR UNIT AFF.REQ
20	(14) UNKNOWN	2	SIOTUNAF	
22	(16) UNKNOWN	2	SIODSNT	DSMT OFFSET FOR DCB REF TO DS
24	(18) UNKNOWN	2	SIOTVLSP	VOL SEP DD NO.
26	(1A) UNKNOWN	2	SIOTAFID	AFFINITY ID ASSOCIATION WITH MULTI-UNIT/GENE RIC REQUEST
28	(1C) UNKNOWN	3	SCTPSIOT	TTR OF NEXT SIOT
31	(1F) UNKNOWN	1		RESERVED FOR FUTURE USE
32	(20) UNKNOWN	3	SCTPJFCB	DISK ADDRESS OF JFCB
35	(23) UNKNOWN	1		RESERVED FOR FUTURE USE
36	(24) UNKNOWN	3	SIOTVRSB	TTR OF SIOT FOR VOLREF OR SUBALLOCATE
39	(27) UNKNOWN	1	SIOTOTUN	NO. OF UNITS FOR THIS SIOT
40	(28) UNKNOWN	2	SIOTREFN	DD NO. OF INTRA STEP VOL REF
42	(2A) UNKNOWN	1	SIOPSCNT	PUBLIC STORAGE COUNT
43	(2B) UNKNOWN	1	SIOTBYT1	NVM INDICATORS

SIOT

SIOT
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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
1... ..			SIOTOCKP	DATA SET OPEN AT LAST CHECKPOINT
.1... ..			SIOTHOLD	SYSDATA SET TO BE PLACED ON THE HOLD QUEUE
..1.			SIOVAMDS	VIO DATA SET
...1			SIODUNAL	DS HAS BEEN DYNAM. UNALLOC
.... 1..			SIOTDADR	DADSM IS REQUIRED
.... .1..			SIODADSM	DADSM WAS SUCCESSFUL
.... ..1.			SIOTALCD	THIS SIOT IS COMPLETED
.... ...1			SIOTDDNT	ALLOC IN TSO, COMMAND PROCESSOR SVC MUST PUT DDNAME IN DDNT

44	(2C) UNKNOWN	2	SCTDDINO	INTERNAL NUMBER OF DD STMT
46	(2E) UNKNOWN	1	SIOTBYT3	ALLOCATION INDICATOR BYTE
	1... ..		SIOALIAS	ALIAS EXISTS FOR THIS DATA SET
	.1... ..		SIOCDEVT	DEVICE TYPE FOR THIS DS OBTAINED FROM CATALOG
	..1.		SIOTJES3	DEVICES FOR THIS ALLOCATION SELECTED BY JES3
	...1		S34000FF	INITIALIZE S3400DSP TO OFF
	.... 1..		SIOTDSID	ON FOR DSID KEYWORD RESERVED
47	(2F) UNKNOWN	1	SIOTTSTC	INDIC FOR TSO & TCAM
	1... ..		SIOTINFC	SIOT INF CODE INDIC
	.1... ..		SIOTTERM	TSO TERMINAL (DD TERM=TS) SET BY IEFVDA RESERVED FOR FUTURE
	..1.			USE@G29AN2F GROUP SS REQUEST(SUBSYS)
	...1		SIOTSSGP	@G29AN2F SUBSYSTEM ERROR MSG
	.... 1..		SIOTSSMG	IND.@G29AN2F

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... .1..		SIOTTRKM	XB609 SETS FOR AB427 WHEN DYNAMIC
	.... .1.		SIOTDSNM	SYSOUT DSDR FOUND ON CHECKPOINT DS
	.... ...1		SIOTQNAM	TCAM ON IF QNAME= ON DD STMT SET BY IEFVDA, CHECKED BY ALLOC.

48	(30) UNKNOWN	1	SCTSPool	INTERNAL NO. OF PCOL DD
49	(31) UNKNOWN	1	SCTVOLCT	NUMBER OF VOLUMES FOR THIS DS
50	(32) UNKNOWN	2	SIOTGIID	GROUP INTERSECTION ID

52	(34) UNKNOWN	1	SIOTBYTO	FOR EXTENDED ALLOCATION
	1...		SIOTSSDS	DS WILL BE PROC. BY A SUBSYSTEM
	.1..		SIOTDYAL	DATA SET DYNAMICALLY ALLOCATED
	..1.		SIOTFUDA	MIXED DEV. SPEC. AFF OR DEFER
	...1		SPVTAMSG	PVT ASSUMED MESSAGE REQD
	.... 1...		SIOTGIGN	IGNORE PROC.SIOT FOR THIS GENERIC
	.... .1..		SIOTNOPV	USE ATTR. MADE PRIV.
	.... ..1		SIOTPUV	USE ATTR. CHANGED FROM PUB TO FRV
	.... ...1		SIOTRTRY	THIS REQUEST REQUIRES RETRY IN ALLOCATION
53	(35) UNKNOWN	1	SCTNMBUT	NUMBER OF UNITS FOR THE DATA SET
54	(36) UNKNOWN	1	SIOTVLCT	VOLUME COUNT
55	(37) UNKNOWN	1	SCTSDisp	SCHEDULER DISPOSITION
	1...		SIOTRETN	RETAIN BIT
	.1..		S3400DSP	DISP PROCESSING OF DS ON ASPEN
	..1.		SIOTPRIV	PRIVATE VOLUME
	...1		SIOTPASS	PASS DATA SET
	.... 1...		SIOTKEEP	KEEP DATA SET
	.... .1..		SIOTDLET	DELETE DATA SET
	.... ..1.		SIOTCTLG	CATALOG DATA SET

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... .1		SIOTUNCT	UNCATALOG DATA SET

56	(38) UNKNOWN	1	SCTSBYT1	INDICATOR BYTE 1
	1... ..		SCTDUMMY	DUMMY DATA SET
	.1... ..		SCTSYSIN	SYSIN DATA SET
	..1... ..		SIOTCCAT	BLANK DD NAME CONCATEHATION
	...1		SIOTGDSN	GENERATED DATA SET NAME
	.... 1...		SIOTQDSN	QUALIFIED DATA SET IS SPECIFIED
	.... .1..		SCTPARLM	PARALLEL MOUNT
	.... .1..		SCTUNAFF	UNIT AFFINITY
	.... .1..		SIOTJSCT	SIOT ASSOC. WITH JCBCAT/STEPCAT
57	(39) UNKNOWN	1	SCTSBYT2	INDICATOR BYTE 2
	1... ..		SIOCLUNL	CLOSE SHOULD DYNAM UNALLOC DS
	.1... ..		SIOTCATL	DATA SET IS A CATALOG
	..1... ..		SCTVOLAF	VOLUME AFFINITY
	...1		SCTJOBFB	JOBLIB DD STATEMENT
	.... 1...		SCTUNLBD	NO LABEL
	.... .1..		SCTLABEL	NON-STANDARD LABEL
	.... .1..		SCTDEFER	DEFER MOUNTING
	.... .1..		SCTRECVD	RECEIVED DATA SET
58	(3A) UNKNOWN	1	SCTSBYT3	INDICATOR BYTE 3
	1... ..		SCTDSNRF	VOLUME REFERENCE IS DSNAME
	.1... ..		SCTSYSNE	SYSIN EXPECTED (PROCS ONLY)
	..1... ..		SCTALCHK	THIS SIOT ALLOC AT LAST CHKPT
	...1		SCTVREF	VOLUME REFERENCE IN STEP
	.... 1...		SCTSYSOU	SYSOUT IS SPECIFIED
	.... .1..		SCTSNEW	NEW DATA SET
	.... .1..		SCTSMOD	MODIFIED DATA SET
	.... .1..		SCTSOLD	OLD DATA SET
				PTM 220
59	(3B) UNKNOWN	1	SCTSBYT4	INDICATOR BYTE 4
	1... ..		SCTSGDGS	GDG SINGLE
	.1... ..		SIOTGDGA	THIS IS A GENERATED SIOT RESERVED
	..1... ..			

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
....1			SIOTASCI	USASCII TAPE LABEL SET BY IEFVDA, TEST BY IEFHA000
.... 1...			SIOTSTEP	STEP PROCESSED
.... .1..			SIOTVAFF	INTRA-STEP VOLUME AFFINITY
.... ..1.			SIOTIPDI	DATA SET IS IN PDI
....1			SIOTOMN	OLD (MCD) INDICATOR

60	(3C) UNKNOWN	8	SCTUTYPE	

60	(3C) UNKNOWN	4	SIOTDEVT	DEVICE TYPE

60	(3C) UNKNOWN	1	SIOUBYT1	
61	(3D) UNKNOWN	1	SIOUBYT2	
62	(3E) UNKNOWN	1	SIOUBYT3	DEVICE CLASS
	1...		SIO3TAPE	TAPE DEVICE
	.1..		SIO3CCHM	COMMUNICATIONS DEVICE
	..1.		SIO3DACC	DIRECT ACCESS DEVICE
	...1		SIO3DISP	GRAPHICS DEVICE
	.... 1...		SIO3UREC	UNIT RECORD DEVICE
	.... .111			
63	(3F) UNKNOWN	1	SIOUBYT4	

64	(40) UNKNOWN	1	SIOUCNVT	SET TO ZERO AFTER UNITNAME CONVERSION
65	(41) UNKNOWN	3	SIOUCBAD	UCB ADDRESS

68	(44) UNKNOWN	8	SCTOUTNM	SYSTEM OUTPUT PROGRAM NAME

76	(4C) UNKNOWN	4	SCTOUTNO	SYSTEM OUTPUT FORM NUMBER

80	(50) UNKNOWN	1	SCTOUTPN	SYSCUT CLASS NAME
81	(51) UNKNOWN	1	SIOTBYT4	
	1...		SIOTFROT	PROTECT SPECIFIED ON DD
	.1..		SIOTRACD	PROTECT OK IF ALLOCATED TO DASD
	..1.		SIOTRACT	PROTECT OK IF ALLOCATED TO TAPE
	...1 1111			RESERVED
82	(52) UNKNOWN	2	SIOTDPCD	RESERVED FOR FUTURE USE

84	(54) UNKNOWN	4		RESERVED

88	(58) UNKNOWN	3	SIOTNDSB	QUEUE ADDR OF NEXT DSB

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
91	(5B) UNKNOWN	1		RESERVED FOR FUTURE USE

92	(5C) UNKNOWN	1	SIOTALTD	CONDITIONAL DISPOSITION
	1... ..			RESERVED FOR FUTURE USE
	.1.. ..			RESERVED FOR FUTURE USE
	..1.		SIJCATS	JOB CAT SWITCH USED ONLY BY
=====				
INTERPRETER WHEN READING IN COPIES OF CONCATENATED				
JOB CAT SIOTS				
	...1		SIOTNPRV	NOT PRIVATE (RESTART)
	.... 1...		SIOTAKEP	KEEP DATA SET
	.... .1..		SIOTADEL	DELETE DATA SET
	.... ..1.		SIOTACAT	CATALOG DATA SET
	.... ...1		SIOTAUNC	UNCATALOG DATA SET
93	(5D) UNKNOWN	3	SIOTSSWA	SVA OF SSWA

96	(60) UNKNOWN	1	SIOTOUTC	NO. OF SYSOUT COPIES TO BE PRINTED
97	(61) UNKNOWN	2	SIOTOUTR	RESERVED 21774
99	(63) UNKNOWN	4	SIOTOPUC	RESERVED 21774
103	(67) UNKNOWN	1	SIOTBYT2	MORE MVM INDICATORS
	1... ..		SIOTDMND	SPECIFIC UNIT REQUEST MADE
	.1.. ..		SIOTDSPD	DISP FOR THIS DATA SET HAS BEEN PROCESSED
	..1.		SIOTGALL	SIOT IS PART OF A GDG ALL REQUEST
	...1		SIOTCALC	DATA SET CATLD WHEN ALLOC'D
	.... 1...		SIOTCNEW	ORIG ALLOC'D STAT OF NEW
	.... .1..		SIOTCVOL	CONVRTD SIOT IS FOIR OS CVOL
	.... ..11			RESERVED

104	(68) UNKNOWN	4	SIOTSSNM	SUBSYS. NAME WHICH WILL PROC. DS

108	(6C) UNKNOWN	12		RESERVED FOR FUTURE USE

120	(78) UNKNOWN	2	SIOTSSIC	SIOT INFORMATION REASON CODE
122	(7A) UNKNOWN	8	SCTANAME	TEMP NAME FOR DEDICATED WORK FILES

SIOT

SIOT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
130	(82) UNKNOWN	2	SIOTRSNC	ERROR CODE
132	(84) UNKNOWN	4	SIOTEDLS	SIZE OF EDL
136	(88) UNKNOWN	4	SIOTEDLP	EDL POINTER
140	(8C) UNKNOWN	4	SVOLUNAD	PTR TO VOLUNIT TABLE ENTRIES
144	(90) UNKNOWN	4	SIOTATE	PTR TO ALGORITHM TABLE ENTRY
148	(94) UNKNOWN	4	SIOTETIO	PTR TO ETIOT ENTRY
152	(98) UNKNOWN	4	SIOTNPTR	VIRTUAL ADDRESS OF NEXT SIOT
156	(9C) UNKNOWN	4	SJFCBPTR	VIRTUAL ADDRESS OF JFCB
160	(A0) UNKNOWN	4	SIOTJFX	VIRTUAL ADDRESS OF JFCBX
164	(A4) UNKNOWN	4	SIOTVMVP	VOLUME MOUNT AND VERIFY REQ
168	(A8) UNKNOWN	2	SVOLUNNO	COUNT OF VOLUNIT ENTRIES
170	(AA) UNKNOWN	2	SIOVDSNT	OFFSET INTO DSNT FOR VOLREF TO DSNAME
172	(AC) UNKNOWN	1	SIOVDSNL	LEN. OF DSN OF VOL REF TO DSN
173	(AD) UNKNOWN	1	SIODDSNL	LEN. OF DSN OF DCB REF TO DSN

CROSS REFERENCE

INDMSIOT	0 (0)	SIOTCNEW	103 X'08'
SCTALCHK	58 X'20'	SIOTCTLG	55 X'02'
SCTANAME	122 (7A)	SIOTCVOL	103 X'04'
SCTDDINO	44 (2C)	SIOTDADR	43 X'08'
SCDDNAM	4 (4)	SIOTDDNT	43 X'01'
SCTDEFER	57 X'02'	SIOTDEST	12 (C)
SCTDSNRF	58 X'80'	SIOTDEVT	60 (3C)
SCTDUMMY	56 X'80'	SIOTDLET	55 X'04'
SCTJOBLB	57 X'10'	SIOTDMND	103 X'80'
SCTLABEL	57 X'04'	SIOTDPCD	82 (52)
SCTNMBUT	53 (35)	SIOTDSID	46 X'08'
SCTOUTNM	68 (44)	SIOTDSKA	0 (0)
SCTOUTNO	76 (4C)	SIOTDSNM	47 X'02'
SCTOUTPN	80 (50)	SIOTDSPD	103 X'40'
SCTPARLM	56 X'04'	SIOTDYAL	52 X'40'
SCTPJFCB	32 (20)	SIOTEDLP	136 (88)
SCTPSIOT	28 (1C)	SIOTEDLS	132 (84)
SCTRECDV	57 X'01'	SIOTETIO	148 (94)
SCTSBYT1	56 (38)	SIOTFUDA	52 X'20'
SCTSBYT2	57 (39)	SIOTGALL	103 X'20'
SCTSBYT3	58 (3A)	SIOTGDGA	59 X'40'
SCTSBYT4	59 (3B)	SIOTGDSN	56 X'10'
SCTSDISP	55 (37)	SIOTGIGN	52 X'08'
SCTSGDGS	59 X'80'	SIOTGIID	50 (32)
SCTSMOD	58 X'02'	SIOTHOLD	43 X'40'
SCTSNEW	58 X'04'	SIOTINFC	47 X'80'
SCTSOLD	58 X'01'	SIOTIPDI	59 X'02'
SCTSPOOL	48 (30)	SIOTJES3	46 X'20'
SCTSYSIN	56 X'40'	SIOTJFX	160 (A0)
SCTSYSNE	58 X'40'	SIOTJSCT	56 X'01'
SCTSYSOU	58 X'08'	SIOTKEEP	55 X'08'
SCTUNAFF	56 X'02'	SIOTNDSB	88 (58)
SCTUNLBD	57 X'08'	SIOTNOPV	52 X'04'
SCTUSADD	20 (14)	SIOTNPRV	92 X'10'
SCTUTYPE	60 (3C)	SIOTNPTR	152 (98)
SCTVOLAF	57 X'20'	SIOTOCKP	43 X'80'
SCTVOLCT	49 (31)	SIOTOMN	59 X'01'
SCTVREF	58 X'10'	SIOTOPUC	99 (63)
SIOALIAS	46 X'80'	SIOTOTUN	39 (27)
SIOCDEVT	46 X'40'	SIOTOUTC	96 (60)
SIACLUNL	57 X'80'	SIOTOUTR	97 (61)
SIODADSM	43 X'04'	SIOTPASS	55 X'10'
SIODDSNL	173 (AD)	SIOTPRIV	55 X'20'
SIODSNTE	22 (16)	SIOTPROT	81 X'80'
SIODUNAL	43 X'10'	SIOTPUV	52 X'02'
SIIOJCATS	92 X'20'	SIOTQDSN	56 X'08'
SIOPSCNT	42 (2A)	SIOTQNAM	47 X'01'
SIOTACAT	92 X'02'	SIOTRACD	81 X'40'
SIOTADEL	92 X'04'	SIOTRACT	81 X'20'
SIOTAFID	26 (1A)	SIOTREFN	40 (28)
SIOTAKEP	92 X'08'	SIOTRETN	55 X'80'
SIOTALCD	43 X'02'	SIOTRSNC	130 (82)
SIOTALTD	92 (5C)	SIOTRTRY	52 X'01'
SIOTASCI	59 X'10'	SIOTSSDS	52 X'80'
SIOTATE	144 (90)	SIOTSSGP	47 X'10'
SIOTAUNC	92 X'01'	SIOTSSIC	120 (78)
SIOTBYT0	52 (34)	SIOTSSMG	47 X'08'
SIOTBYT1	43 (2B)	SIOTSSNM	104 (68)
SIOTBYT2	103 (67)	SIOTSSKA	93 (5D)
SIOTBYT3	46 (2E)	SIOTSTEP	59 X'08'
SIOTBYT4	81 (51)	SIOTTERM	47 X'40'
SIOTCALC	103 X'10'	SIOTTRKM	47 X'04'
SIOTCATL	57 X'40'	SIOTTSTC	47 (2F)
SIOTCCAT	56 X'20'	SIOTTYPE	3 (3)

CROSS REFERENCE

SIOTUNAF	20 (14)
SIOTUNCT	55 X'01'
SIOTVAFF	59 X'04'
SIOTVLCT	54 (36)
SIOTVLSP	24 (18)
SIOTVMVP	164 (A4)
SIOTVRSB	36 (24)
SIIOBYT1	60 (3C)
SIIOBYT2	61 (3D)
SIIOBYT3	62 (3E)
SIIOBYT4	63 (3F)
SIIOCBAD	65 (41)
SIIOCNVT	64 (40)
SIIOVAMDS	43 X'20'
SIIOVSNL	172 (AC)
SIIOVSNT	170 (AA)
SIIO3COMM	62 X'40'
SIIO3DACC	62 X'20'
SIIO3DISP	62 X'10'
SIIO3TAPE	62 X'80'
SIIO3UREC	62 X'08'
SJFCBPTR	156 (9C)
SPVTAMSG	52 X'10'
SVOLUNAD	140 (8C)
SVOLUNNO	168 (A8)
S3400DSP	55 X'40'
S3400OFF	46 X'10'

SMCACommon Name: SMF (System Management Facilities) Control AreaMacro ID: IEESMCADSECT Name: SMCABASECreated by: IEEMB820Subpool and Key: 245 and key 0Size: 180 bytesPointed to by: CVTSMCA field of the CVT data areaSerialization: NoneFunction: Contains information used by the System Management Facilities, SMF ECBs and other useful information. Provides an anchor for other SMF global control blocks.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SMCABASE	
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) BITSTRING	1	SMCAOPT	SMFDEFLT OPTIONS SELECTED AT INITIALIZATION TIME. THE OPTIONS APPLY TO BACKGROUND PROCESSING. SMCAFOPT (OFFSET 82) CONTAINS THE FOREGROUND OPTIONS.
1...			SMCAOPT1	BIT0 JOB ACCOUNTING (OPT=1)
.1...			SMCAOPT2	BIT1 STEP ACCOUNTING (OPT=2)
..1.			SMCAEXT	BIT2 USER EXITS WILL BE TAKEN (EXT=YES)
...1			SMCADSA	BIT3 DATA SET ACCOUNTING (DSV=2 OR 3)
.... 1...			SMCAVOL	BIT4 VOLUME ACCOUNTING (DSV=1 OR 3)
.... .1..			SMCAR501	BIT5,,C'X' RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... .1.			SMCATDS	BIT6 TYPE 17 RECORDS MAINTAINED FOR TEMPORARY DATA SETS (REC=2 OR 3)
.... .1			SMCAFGND	BIT7 SMF FOREGROUND OPTIONS BIT. IF 0, ABOVE BITS DESCRIBE BACKGROUND OPTIONS. IF 1, ABOVE BITS DESCRIBE FOREGROUND OPTIONS.
1 (1) BITSTRING		1	SMCAMISC	MISCELLANEOUS INDICATORS
1... ..			SMCAUSER	BIT0 SMF RECORDING REQUESTED
.1... ..			SMCAMAN	BIT1 SYS1.MAN DATA SET IS/IS NOT PRESENT BITS 0 AND 1 MEAN 00 NO SMF RECORDING REQUESTED (MAN=NONE) 01 ONLY USER RECORDS TO BE RECORDED (MAN=USER) 10 INVALID COMBINATION 11 SMF AND USER RECORDING REQUESTED (MAN=ALL)
..1.			SMCAOPI	BIT2 IF 0, OPERATOR MAY CHANGE SMF FOREGROUND OPTIONS WHEN HE ISSUES A TSO START COMMAND OR TSO MODIFY COMMAND (OPI=YES). IF 1, OPERATOR MAY NOT CHANGE SMF FOREGROUND OPTIONS (OPI=NO). 20011
...1			SMCAFIRT	BIT3 SMF DATA SET TO BE OPENED

SMCA

SMCA

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... 1...			SMCAPSDP	BIT4 PSEUDO-DUMP SWITCH (DEVICE SWITCHING ONLY)
.... .1..			SMCADBSY	BIT5 DUMP IS BUSY (SMF WRITER)
.... ..1.			SMCABSW	BIT6 BUFFER SWITCH. IF 0, LEFT HALF OF BUFFER IN USE. IF 1, RIGHT HALF OF BUFFER IN USE.
21 (2) SIGNED		2	SMCADUMP SMCATOFF	BIT7 DUMP BUSY OFFSET OF THE FIRST SMF TIOT ENTRY FROM THE BEGINNING OF THE MASTER SCHEDULER TIOT

4	(4) A-ADDRESS	4	SMCATIOT	ADDRESS OF THE MASTER SCHEDULER TIOT
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THE FOLLOWING FIELDS ARE SET UP BY IPL INITIALIZATION

8	(8) SIGNED	4	SMCAJMT	JOB WAIT TIME LIMIT IN MICROSEC. TIMER UNITS. DERIVED FROM JMT IN SMFDEFLT.
12	(C) SIGNED	4	SMCABUF	SMF BUFFER SIZE IN BYTES. AT INITIALIZATION, IT CONTAINS BUF=VALUE.
12	(C) SIGNED	4	SMCABSIZ	AFTER IPL, IT CONTAINS THE BUFFER WORKING SIZE
16	(10) CHARACTER	4	SMCASID	SYSTEM IDENTIFICATION (SID)
20	(14) A-ADDRESS	4	SMCABUFP	ADDRESS OF THE SMF BUFFER

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
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SMF DEVICE CHARACTERISTICS

CURRENT RECORDING DATA SET

WHEN THE SMF RECORDING DEVICE IS A DIRECT ACCESS DEVICE, THE FOLLOWING FIELDS MAY DESCRIBE EITHER THE PRIMARY OR ALTERNATE DATA SET, WHICHEVER IS CURRENTLY BEING WRITTEN

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
24	(18) CHARACTER	6	SMCAPDEV	VOLUME SERIAL NUMBER OF THE CURRENTLY USED SMF DATA SET
30	(1E) BITSTRING	1	SMCAPSTA	CURRENTLY USED SMF DATA SET DEVICE STATUS
	1... ..		SMCAPNAV	BIT0 DATA SET IS NOT AVAILABLE FOR RECORDING
	.1.. ..		SMCAPTAP	BIT1 THE SMF RECORDING DEVICE IS A MAGNETIC TAPE DEVICE
	..1.		SMCAPDA	BIT2 THE SMF RECORDING DEVICE IS A DIRECT ACCESS DEVICE
	...1		SMCAPMTY	BIT3 THE DATA SET IS READY TO USE
	.... 1...		SMCAMOD	BIT4 OPEN MODULE
	.... .1..		SMCARS02	BIT5,,C'X' RESERVED
	.... ..1.		SMCAPUNT	BIT6 A DEVICE ADDRESS WAS SPECIFIED FOR THE SMF DATA SET AT SYSTEM INITIALIZATION
	.... ...1		SMCAPVOL	BIT7 A VOLUME SERIAL NUMBER WAS SPECIFIED FOR THE SMF DATA SET AT SYSTEM INITIALIZATION
31	(1F) CHARACTER	3	SMCAPDAR	CURRENTLY USED SMF DATA SET DEVICE ADDRESS (EBCDIC)
34	(22) BITSTRING	1	SMCAPLBL	LABEL STATUS OF THE CURRENTLY USED SMF DATA SET
	1... ..		SMCARS03	BIT0,,C'X' RESERVED
	.1..		SMCARS04	BIT1,,C'X' RESERVED

SMCA

SMCA

Data Area Descriptions 285.3

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
..1.			SMCARS05	BIT2,,C'X' RESERVED
...1			SMCARS06	BIT3,,C'X' RESERVED
.... 1...			SMCARS07	BIT4,,C'X' RESERVED
.... .1..			SMCAPNSL	BIT5 NON-STANDARD LABEL (NSL)
.... ...1.			SMCAPSL	BIT6 STANDARD LABEL (SL)
.... ...1			SMCAPNL	BIT7 NO LABEL (NL)
35 (23) CHARACTER		1	SMCAXORY	AN EBCDIC X OR Y CORRESPONDING TO THE DATA SET THAT IS TO RECEIVE THIS ENTRY

36 (24) A-ADDRESS		4	SMCAPDCB	ADDRESS OF THE CURRENTLY USED SMF DATA SET DCB
=====				

DATA SET NOT CURRENTLY IN USE

WHEN THE SMF RECORDING DEVICE IS A DIRECT ACCESS DEVICE,
THE FOLLOWING FIELDS MAY DESCRIBE EITHER THE PRIMARY OR
ALTERNATE DATA SET, WHICHEVER IS CURRENTLY NOT IN USE.

40 (28) CHARACTER		6	SMCAADEV	VOLUME SERIAL NUMBER OF THE NON-CURRENT SMF DATA SET
46 (2E) BITSTRING		1	SMCASTA	NON-CURRENT SMF DATA SET DEVICE STATUS. BIT SETTINGS ARE SAME AS FOR SMCAPSTA.
47 (2F) CHARACTER		3	SMCAADAR	NON-CURRENT SMF DATA SET DEVICE ADDRESS
50 (32) BITSTRING		1	SMCAALBL	ADDRESS LABEL STATUS OF THE NON-CURRENT SMF DATA SET. BIT SETTINGS ARE SAME AS FOR SMCAPLBL.
51 (33) CHARACTER		1	SMCAYORX	AN EBCDIC X OR Y CORRESPONDING TO THE DATA SET THAT IS TO RECEIVE THIS ENTRY

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
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52	(34) A-ADDRESS	4	SMCAADCB	ADDRESS OF THE NON-CURRENT SMF DATA SET DCB
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SMF ECB'S

56	(38) CHARACTER	4	SMCAWECB	WRITE REQUEST ECB WAITED UPON BY THE SMF WRITER. POSTED BY IGC0008C WHEN A WRITE IS REQUESTED.
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60	(3C) CHARACTER	4	SMCABECB	ECB FOR THE SMF BUFFER
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64	(40) SIGNED	4	SMCASGWR	IF THE LOGICAL RECORD EXCEEDS 1/2 THE BUFFER SIZE, THIS FIELD INDICATES THE NUMBER OF BUFFER LOADS REQUIRED TO ACCOMMODATE THE RECORD
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68	(44) SIGNED	4	SMCASGFT	THE NUMBER OF RECORD SEGMENTS (BUFFER LOADS) THAT WILL FIT IN THE DATA SET
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MISCELLANEOUS POINTERS AND COMMUNICATION AREAS

72	(48) SIGNED	4	SMCAWAIT(2)	THE ACCUMULATED WAIT TIME, EXPRESSED IN 26 USEC TIMER UNITS. FIRST WORD IS OVERFLOW FROM SECOND WORD.
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80	(50) CHARACTER	2	SMCAENTY	THESE SWITCHES GOVERN ENTRY CONDITIONS FOR DEVICE SWITCHING/ALLOC ATION/ OPENING ROUTINES
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SMCA

SMCA

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
80	(50) BITSTRING	1	SMCAENDI	A COMMUNICATION FIELD
	1... ..		SMCARS14	BIT0,,C'X' RESERVED
	.1.. ..		SMCARS15	BIT1,,C'X' RESERVED
	..1.		SMCARS16	BIT2,,C'X' RESERVED
	...1		SMCARS17	BIT3,,C'X' RESERVED
	.... 1...		SMCARS18	BIT4,,C'X' RESERVED
	.... .1..		SMCARS19	BIT5,,C'X' RESERVED
	.... ..1.		SMCARS20	BIT6,,C'X' RESERVED
	.... ....1		SMCADSNF	BIT7 IF ZERO, DATA SET (X OR Y) WAS FOUND. IF ONE, DATA SET (X OR Y) WAS NOT FOUND.
81	(51) CHARACTER	1	SMCAENOP	ENTRY CODE THAT INDICATES WHICH LOAD OF SVC 83 HAS PASSED CONTROL TO CURRENT LOAD
82	(52) BITSTRING	1	SMCAFOPT	SMF FOREGROUND OPTIONS. BIT SETTINGS ARE SAME AS SMCAOPT.
83	(53) HEX	1	SMCAENAL	RESERVED
84	(54) SIGNED	4	SMCAWRTP	AN OPTIMUM BUFFER LOAD DISPLACEMENT FIGURE. WHEN THE BUFFER IS LOADED TO OR BEYOND THIS POINT, IT WILL BE WRITTEN TO THE SMF DATA SET.

=====

XCTL REMOTE LIST USED BY SVC 83

88	(58) A-ADDRESS	4	SMCAXCTL	ADDRESS OF THE NAME OF THE ROUTINE TO WHICH XCTL IS TO PASS CONTROL
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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
92	(5C) A-ADDRESS	4		DCB POINTER. ALWAYS ZERO ACCORDING TO THE XCTL MACRO INSTRUCTION FORMAT.
96	(60) CHARACTER	8	SMCAXNAM	NAME OF THE ROUTINE TO WHICH XCTL IS TO PASS CONTROL
104	(68) BITSTRING 1... ..	1	SMCASWA SMCASWAR	INDICATOR BITS BIT0 RESERVED 19028
	.1.. ..		SMCADSTR	BIT1 DISASTER BIT. BOTH DATA SETS ARE FULL. SMF IS NOT RECORDING. 19028
	..1.		SMCAOPFL	BIT2 OPEN FAILURE ON SMF DATA SET. SMF IS NOT RECORDING. 19028
	...1		SMCANADA	BIT3 NEXT ALLOCATION MUST BE FOR A DIRECT ACCESS DEVICE
	.... 1...		SMCANAVL	BIT4 ALLOCATION SEARCH IS BY VOLUME SERIAL NUMBER
	.... .1..		SMCAZEOD	BIT5 SMF HALT END-OF-DAY IS PROCESSING
	.... ..1.		SMCADSSP	BIT6 ENTRY TO THE WRITER IS FOR A SPACE CHECK OF THE DATA SET
	.... ...1		SMCADSSW	BIT7 ENTRY TO THE WRITER IS FOR DATA SET SWITCHING ONLY
105	(69) BITSTRING	1	SMCASWB	RESERVED
106	(6A) BITSTRING	1	SMCASWC	RESERVED
107	(6B) BITSTRING	1	SMCASWD	RESERVED
108	(6C) CHARACTER	8	SMCADSTM	START TIME AND DATE AT WHICH NO DATA SET WAS AVAILABLE TO RECORD ON. APPEARS IN PACKED DECIMAL

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				IN THE FORM 00YYDDDF WHERE 00 = ZEROS, YY = LAST 2 DIGITS OF THE YEAR, DDD = DAY OF THE YEAR AND F IS A SIGN.
116	(74) SIGNED	4	SMCADSCT	THE NUMBER OF SMF RECORDS THAT HAVE BEEN OMITTED FROM THE SMF DATA SET DUE TO THE UNAVAILABILITY OF A DATA SET TO RECORD ON
120	(78) A-ADDRESS	4	SMCAASCB	CURRENT TASK ASCB ADDRESS (OS/VS2)
120	(78) SIGNED	2	SMCAPOST	RESERVED (OS/VS1)
122	(7A) CHARACTER	2	SMCATJID	CURRENT TASK TJID (OS/VS1)
124	(7C) SIGNED	4	SMCARS21	RESERVED
128	(80) A-ADDRESS	4	SMCASAVE	USER EXIT ADDRESS SAVE FIELD (OS/VS2)
132	(84) SIGNED	4	SMCATEXP	TIME OF MOST RECENT EXPIRATION OF A TEN-MINUTE TIMER QUEUE ELEMENT (TQE)
136	(88) SIGNED	4	SMCAPGIN	NUMBER OF PAGE-INS PERFORMED (OS/VS1)
136	(88) SIGNED	4	SMCADOMX	MANX DOM WTO ID (OS/VS2)
140	(8C) SIGNED	4	SMCAPGOT	NUMBER OF PAGE-OUTS PERFORMED (OS/VS1)
140	(8C) SIGNED	4	SMCADOMY	MANX DOM WTO ID (OS/VS2)
144	(90) SIGNED	4	SMCAPGRL	NUMBER OF PAGES RECLAIMED. RECLAMATION RESULTS WHEN A PAGE IS NEEDED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				TO SATISFY A PAGE FAULT BUT DOES NOT HAVE TO BE RETRIEVED FROM AUXILIARY STORAGE BECAUSE IT IS RESIDENT IN REAL MAIN STORAGE AWAITING PAGE-OUT.
148	(94) SIGNED	4	SMCARGNS	NUMBER OF REGIONS SWAPPED IN AND OUT
152	(98) SIGNED	4	SMCASPIN	NUMBER OF SWAP PAGE-INS
156	(9C) SIGNED	4	SMCASPOT	NUMBER OF SWAP PAGE-OUTS
160	(A0) SIGNED	4	SMCARGNM	NUMBER OF REGIONS MIGRATED
164	(A4) SIGNED	4	SMCAPGM	NUMBER OF PAGES MIGRATED
168	(A8) A-ADDRESS	4	SMCAU83	ADDRESS OF SMF OUTPUT EXIT (IEFU83) TAKEN WHEN RECORDS ARE TO BE WRITTEN TO AN SMF DATA SET
172	(AC) A-ADDRESS	4	SMCAWTCB	ADDRESS OF SMF WRITER'S TCB USED BY XMPOST ERROR PROCESSOR (IEEMB827) (OS/VS2)
176	(B0) A-ADDRESS	4	SMCASTCB	ADDRESS OF SMF SVC CURRENTLY WAITING FOR WRITER USED BY XMPOST ERROR PROCESSOR (IEEMB827) (OS/VS2)

CROSS REFERENCE

BIT0	0 X'80'	SMCAPSL	34 X'02'
BIT1	0 X'40'	SMCAPSTA	30 (1E)
BIT2	0 X'20'	SMCAPTAP	30 X'40'
BIT3	0 X'10'	SMCAPUNT	30 X'02'
BIT4	0 X'08'	SMCAPVOL	30 X'01'
BIT5	0 X'04'	SMCARGNM	160 (A0)
BIT6	0 X'02'	SMCARGNS	148 (94)
BIT7	0 X'01'	SMCARS01	0 X'04'
SMCAADAR	47 (2F)	SMCARS02	30 X'04'
SMCAADCB	52 (34)	SMCARS03	34 X'80'
SMCAAEV	40 (28)	SMCARS04	34 X'40'
SMCAALBL	50 (32)	SMCARS05	34 X'20'
SMCAASCB	120 (78)	SMCARS06	34 X'10'
SMCABASE	0 (0)	SMCARS07	34 X'08'
SMCABECB	60 (3C)	SMCARS14	80 X'80'
SMCABSIZ	12 (C)	SMCARS15	80 X'40'
SMCABSZ	1 X'02'	SMCARS16	80 X'20'
SMCABUF	12 (C)	SMCARS17	80 X'10'
SMCABUFP	20 (14)	SMCARS18	80 X'08'
SMCADBSY	1 X'04'	SMCARS19	80 X'04'
SMCADOMX	136 (88)	SMCARS20	80 X'02'
SMCADOMY	140 (8C)	SMCARS21	124 (7C)
SMCADSA	0 X'10'	SMCASAVE	128 (80)
SMCADSCT	116 (74)	SMCASGFT	68 (44)
SMCADSNF	80 X'01'	SMCASGWR	64 (40)
SMCADSSP	104 X'02'	SMCASID	16 (10)
SMCADSSW	104 X'01'	SMCASPIN	152 (98)
SMCADSTM	108 (6C)	SMCASPOT	156 (9C)
SMCADSTR	104 X'40'	SMCASTA	46 (2E)
SMCADUMP	1 X'01'	SMCASTCB	176 (B0)
SMCAENAL	83 (53)	SMCASWA	104 (68)
SMCAENDI	80 (50)	SMCASWAR	104 X'80'
SMCAENOP	81 (51)	SMCASWB	105 (69)
SMCAENTY	80 (50)	SMCASWC	106 (6A)
SMCAEXT	0 X'20'	SMCASWD	107 (6B)
SMCAFGND	0 X'01'	SMCATDS	0 X'02'
SMCAFIRT	1 X'10'	SMCATEXP	132 (84)
SMCAFOPT	82 (52)	SMCATIOT	4 (4)
SMCAJW	8 (8)	SMCATJID	122 (7A)
SMCAMAN	1 X'40'	SMCATOFF	2 (2)
SMCAMISC	1 (1)	SMCAUSER	1 X'80'
SMCAMOD	30 X'08'	SMCAU83	168 (A8)
SMCANADA	104 X'10'	SMCAVOL	0 X'08'
SMCANAVL	104 X'08'	SMCAWAIT	72 (48)
SMCAOPFL	104 X'20'	SMCAWECB	56 (38)
SMCAOPI	1 X'20'	SMCAWRTP	84 (54)
SMCAOPT	0 (0)	SMCAWTCB	172 (AC)
SMCAOPT1	0 X'80'	SMCAXCTL	88 (58)
SMCAOPT2	0 X'40'	SMCAXNAM	96 (60)
SMCAPDA	30 X'20'	SMCAXORY	35 (23)
SMCAPDAR	31 (1F)	SMCAYORX	51 (33)
SMCAPDCB	36 (24)	SMCAZEOD	104 X'04'
SMCAPDEV	24 (18)		
SMCAPGIN	136 (88)		
SMCAPGM	164 (A4)		
SMCAPGOT	140 (8C)		
SMCAPGRL	144 (90)		
SMCAPLBL	34 (22)		
SMCAPHTY	30 X'10'		
SMCAPNAV	30 X'80'		
SMCAPNL	34 X'01'		
SMCAPNSL	34 X'04'		
SMCAPOST	120 (78)		
SMCAPSDP	1 X'08'		

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SMCA

SMCA

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SMDLR

Common Name: Summary Dump Logical Record

Macro ID: IHASMDLR

DSECT Name: SMDLR

Created by: IEAVTSSD

Subpool and Key: Not applicable

Size: 20 bytes plus the length of the data contained in the record

Pointed to by: None

Serialization: None

Function: The summary dump logical record describes each record of a summary dump. It provides a format by which a summary dump can be accessed and printed. It tells the type, address and length of the data dumped as one summary dump record.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SMDLR	

0	(0) HEX	20	SMDLRHDR	HEADER FOR EACH SUMMARY DUMP LOGICAL RECORD

0	(0) SIGNED	2	SMDLRID	UNIQUE ID FOR EACH RECORD. SEE THE CONSTANTS BELOW RESERVED
2	(2) SIGNED	2		

4	(4) SIGNED	4	SMDLRLEN	TOTAL LENGTH OF THE DATA AREA WHICH IS REPRESENTED BY THIS LOGICAL RECORD AND ALL ITS CONTINUATIONS. THIS WILL BE 0 FOR A CONTINUATION

8	(8) SIGNED	4	SMDLRADR	ORIGINAL ADDR OF THE DATA FOLLOWING

12	(C) SIGNED	4	SMDLRPL	LENGTH OF THE DATA THAT ACTUALLY FOLLOWS THIS HEADER

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
16	(10) HEX	1	SMDLRMSG	IF NONZERO THIS IS THE ID OF A SUMMARY DUMP MESSAGE WHICH IS TO BE GENERATED AS PART OF THE PRINTED OUTPUT WHEN THE DATA IS FORMATED RESERVED
17	(11) HEX	3		
20	(14) CHARACTER	1	SMDLRDAT	DATA X'FFFA',2,C'H' PSEUDO ASID FOR THE SUMMARY DUMP RECORDS IN THE SDUMP

=====

CONSTANTS IDENTIFYING MESSAGES TO BE ASSOCIATED WITH SUMMARY
DUMP RECORDS. SEE FIELD SMDLRMSG

.... ..1	SMDLSTER	1 AN ERROR IN THE SDUMP SUMLIST
.... ..1.	SMDNORT2	2 NO RTM2 WA FOUND FOR THE ASID

=====

CONSTANTS IDENTIFYING EACH TYPE OF SUMMARY DUMP RECORD. SE
FIELD SMDLRID

.... ..1	SMDPCCA	1 PCCA PHYSICAL CONFIG COMMUNICATION AREA
.... ..1.	SMDLCCA	2 LCCA LOCAL CONFIG COMMUNICATION AREA
.... ..11	SMDPSA	3 PSA PREFIX SAVE AREA
.... ..1..	SMDTRT	4 SYSTEM TRACE TABLE WITH PRECEEDING CNTL INFO
..11 1.1.	SMDR2TRT	58 SYSTEM TRACE TABLE W/O PRECEEDING CNTL INFO
.... ..1.1	SMDFRRS	5 THE SUPERVISOR FRR STACKS
..1. 111.	SMDLIST	46 STORAGE INDICATED BY THE SUMLIST KEYWORD

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
..1. 1111			SMDIHS	47 IHS INT HANDLER SAVE AREA
..11			SMDREGV	48 STORAGE NEAR ADDRESSES IN REGISTERS
..11 ...1			SMDPSWS	49 STORAGE NEAR ADDRESSES IN PSWS
..11 ...1.			SMDWSAGV	50 WSAVTC GLOBAL WSA VECTOR TABLE
.... .11.			SMDGPGIO	6 WSA FOR PAGE IO
.... .111			SMDGGMFM	7 WSA FOR GETMAIN/FREEMAI N
.... 1...			SMDGRSM	8 WSA FOR REAL STORAGE MANAGEMENT
.... 1..1			SMDGSSRS	9 WSA FOR SUSPEND/RESET FOR RSM
.... 1.1.			SMDGEMSO	10 WSA FOR MEMORY SWITCH
.... 1.11			SMDGSTAT	11 WSA FOR STATUS
.... 11..			SMDGOPTM	12 WSA FOR SYSTEM RESOURCE MANAGER
.... 11.1			SMDGMENT	13 WSA FOR MEMORY TERMINATION
.... 111.			SMDGNQDQ	14 WSA FOR ENQ/DEQ
.... 1111			SMDGREST	15 WSA FOR STOP RESTART ROUTINE
...1			SMDWSCHE	16 WSA FOR SCHEDULE ROUTINE (BRANCH ENTRY)
..11 ...1			SMDWSACV	51 WSAVTC CPU WSA VECTOR TABLE
...1 ...1			SMDCCWSA	17 WSA FOR LOW-LEVEL COMMON
...1 ...1.			SMDCGTF	18 WSA FOR GENERALIZED TRACE FACILITY
...1 ...11			SMDCOPTM	19 WSA FOR SYSTEM RESOURCES MANAGER
...1 .1..			SMDCTIME	20 WSA FOR TIMER SAVE AREA
...1 .1.1			SMDCACR	21 WSA FOR AUTOMATIC CPU RECONFIGURATION

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
...1	.11.		SMDCRTMK	22 WSA FOR RTM MACHINE CHECK HANDLER
...1	.111		SMDCIOS	23 WSA FOR IOS FLIH
...1	1...		SMDCEDS0	24 WSA FOR DISPATCHER
...1	1..1		SMDCMF1	25 WSA FOR MANAGEMENT FACILITY 1
...1	1.1.		SMDCABTM	26 WSA FOR ABTERM
...1	1.11		SMDCRSTI	27 WSA FOR RESTART
...1	11..		SMDCREST	28 WSA FOR STOP RESTART
...1	11.1		SMDCRRSA	29 WSA FOR SUPERVISOR REPAIR ROUTINE
...1	111.		SMDCCCH	30 WSA FOR RMS CHANNEL CHECK HANDLER
..11	.11.		SMDCASMD	54 WSA FOR ASM DISABLED INTERRUPT HANDLER
..11	.111		SMDCASMS	55 WSA FOR ASM SRB DRIVEN IO ROUTINES
..11	.1..		SMDWSALV	52 WSAVTL LOCAL WSA VECTOR TABLE
...1	1111		SMDLCHSA	31 WSA FOR LOW-LEVEL COMMON
...1	....		SMDLVALC	32 WSA FOR VALIDITY CHECK ROUTINE
...1	...1		SMDLRTH2	33 WSA FOR RTM
...1	...1.		SMDLSOMP	34 WSA FOR SDUMP
...1	...11		SMDLABTM	35 WSA FOR ABTERM
...1	.1..		SMDLCIRB	36 WSA FOR CIRB
...1	.1.1		SMDLS2EE	37 WSA FOR STAGE 2 EXIT EFFECTOR
...1	.11.		SMDLEXIT	38 WSA FOR EXIT (SVC 3)
...1	.111		SMDLPOST	39 WSA FOR POST
...1	1...		SMDLWAIT	40 WSA FOR WAIT
...1	1..1		SMDLSTAT	41 WSA FOR STATUS
...1	1.1.		SMDLSTAE	42 WSA FOR STAE
...1	1.11		SMDLEVNT	43 WSA FOR EVENTS (FAST MULTIPLE WAIT)
...1	11..		SMDLRSM	44 WSA FOR REAL STORAGE MANAGER

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
..1. 11.1			SMDLACHP	45 WSA FOR ASCB CHAP ROUTINE
..11 1...			SMDSOWA	56 SDWA SYSTEM DIAGNOSTIC WORK AREA
..11 1..1			SMDRTM2A	57 RTM2WA RTM2 WORK AREA
..11 1.11			SMDNULL	59 EMPTY RECORD,CONTAINS NO DATA
..11 11..			SMDASIDR	60 ASID JOB PROCSTEP & STEP NAME FOR FOLLOWING RECORDS
..11 .1.1			SMDEOD	53 END OF SUMMARY DUMP

SPCT

Common Name: RSM Swap Control Table

Macro ID: IHASPCT

DSECT Name: SPCT

Created by: IEAVITAS (RSM supervisor)

Subpool and Key: 245 and key 0

Size: 168 bytes

Pointed to by: RSMSPCT field of the RSMHD data area

Serialization: SALLOC lock

Function: Contains the necessary information to complete a swapout or swapin operation.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	72	SPCT	DECLARE SPCT LEVEL 1
0	(0) UNKNOWN	4	SPCTSWRT	VSA OF THE SWAP IN ROOT PCB IF SPCTSWIN = 1. VSA OF SWAP OUT WORK PCB IF SPCTOUT = 1.
4	(4) UNKNOWN	2	SPCTFIX	NUMBER OF FIX ENTRIES IN THIS SPCT
6	(6) UNKNOWN	2	SPCTLSQA	NUMBER OF LSQA ENTRIES IN THIS SPCT
8	(8) UNKNOWN	1	SPCTNSEG	NUMBER OF SEGMENT ENTRIES THAT CAN BE HELD IN THIS SPCT
9	(9) UNKNOWN	1	SPCTSSEG	NUMBER OF ACTIVE SEGMENT ENTRIES IN THIS SPCT. THERE IS ONE ENTRY FOR EACH ACTIVE PRIVATE AREA SEGMENT.
10	(A) UNKNOWN 1... ..	1	SPCTFLG1 SPCTSWIN	SPCT FLAG BYTE 1 SHAP-IN IN PROGRESS
	.1... ..		SPCTOUT	1 SHAP OUT IN PROGRESS
	..1.		SPCTPURG	1 PAGING WAS PURGED DURING SWAP OUT
	...1		SPCTBIG	1 THERE EXISTS ONE OR MORE FIX ENTRIES WITH A FIX COUNT GREATER THAN 255

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... 1...			SPCTPSET	1 PAGE DATASET USED FOR LSQA PAGES ON LAST SWAP OUT. 0 SWAP DATASET USED FOR LSQA PAGES ON LAST SWAP OUT.
.... .1..			SPCTVROT	1 SWAP OUT HAS BEEN REQUESTED BY VQGRP
.... ..11				RESERVED BIT FLAGS
11	(B) UNKNOWN	1	SPCTIDEN	IEAVITAS WILL SET TO SPCT ID CHARACTER 'S'

12	(C) UNKNOWN	2	SPCTWSSZ	WORKING SET SIZE
14	(E) UNKNOWN	2	SPCTSIZE	THE SIZE IN BYTES OF THE SPCT

16	(10) UNKNOWN	56	SPCTSWAP	THIS AREA AND EVERY EXTENSION IS MAPPED BY SPCTEXTM
=====				
SPCTSWAP CONTAINS A MAXIMUM OF 6 FIX SWAP ENTRIES OR 8 LSQA SWAP ENTRIES OR A COMBINATION OF THE TWO NOT EXCEEDING 48 BYTES. ALL LSQA ENTRIES PRECEDE ALL FIX ENTRIES.				

72	(48) UNKNOWN	0	SPCTSEGS	AN AREA CONTAINING A LIST OF SEGMENT ENTRIES FOR THE ADDRESS SPACE. AS SEGMENTS ARE CREATED OR DESTROYED FOR THE ADDRESS SPACE THIS AREA EXPANDS OR CONTRACTS AS REQUIRED IN INCREMENTS OF 96 BYTES (6 BYTES PER ACTIVE SEGMENT).

0	(0) UNKNOWN	6	SPCTSEGE	DECLARE BASE FOR ENTRY

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	1	SPCTSEGX	CORRESPONDING INDEX INTO SEGMENT TABLE FOR THIS ENTRY.
1	(1) UNKNOWN	3	SPCTPGT	VSA OF PAGE TABLE FOR SEGMENT IDENTIFIED IN INDEX.

4	(4) UNKNOWN	2	SPCTBITM	BIT MAP REPRESENTING PRIVATE AREA SEGMENT EACH PAGE MAPS TO A UNIQUE FLAG BIT. 1 PAGE IS TO BE SWAPPED IN.

0	(0) UNKNOWN	8	SPCTSWPE	DECLARE BASE FOR ENTRY

0	(0) UNKNOWN	6	SPCTLS	REFERENCE TO BEGINNING OF A LSQA ENTRY.

0	(0) UNKNOWN	1	SPCTFLAG	SPCT FLAG BITS.
	1... ..		SPCTLVAL	1=LSID IN SPCTSSID IS VALID
	.1.. ..		SPCTLSQ	1=THIS IS A 6 BYTE LSQA ENTRY, ELSE, THIS IS AN 8 BYTE FIXED ENTRY.
	..1.		SPCTCOMM	1=VBN IS FOR COMMON AREA
	...1		SPCTDEFR	1=PAGE WAS FLAGGED DEFER RELEASE AT SWAP TIME.
	.... 1111			RESERVED
1	(1) UNKNOWN	3	SPCTSSID	THREE BYTE LSID

4	(4) UNKNOWN	2	SPCTVBN	VBN AND RESERVED BITS
6	(6) UNKNOWN	2	SPCTFIXC	FIX COUNT ASSOCIATED WITH FIX ENTRY. THIS FIELD DOESN'T EXIST FOR LSQA ENTRY

0	(0) UNKNOWN	56	SPCTEXTM	DECLARE STRUCTURE BASED

SPCT

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0)	UNKNOWN	4 SPCTEXT	ADDRESS OF NEXT EXTENSION

4	(4)	UNKNOWN	4	RESERVED

8	(8)	UNKNOWN	48 SPCTENT	FIX AND LSQA ENTRIES

8	(8)	UNKNOWN	48 SPCTENTS	LSQA AND FIXED SWAP ENTRIES.

56	(38)	UNKNOWN	0 SPCTXEND	END OF EXTENSION

SPL

Common Name: Service Priority List

Macro ID: IHASPL

DSECT Name: SPLENTRY

Created by: Memory request and sysgen

Subpool and Key: 245 and key 0

Size: 16 bytes

Pointed to by: CVTGSPL field of the CVT data area
ASCBSPL field of the ASCB data area

Serialization: Compare and Swap (CS) logic

Function: Serves as queue anchors for the SRB dispatching queues; i.e., points to the non-quietseable SRB queue and to the system SRB queue.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SPLENTRY	

0	(0) A-ADDRESS	4	SPLFSRB	ADDRESS OF FIRST SRB

4	(4) A-ADDRESS	4	SPLLSRB	ADDRESS OF LAST SRB
=====				

GLOBAL SPL

0	(0) STRUCTURE	0	GSPL	

0	(0) CHARACTER	8	GSPLNQ	NON-QUIESCABLE LEVEL

0	(0) A-ADDRESS	4	GSPLNQF	FIRST NONQ SRB

4	(4) A-ADDRESS	4	GSPLNQL	LAST NONQ SRB

8	(8) CHARACTER	8	GSPLSYS	SYSTEM PRIORITY LEVEL

8	(8) A-ADDRESS	4	GSPLSYSF	FIRST SYSTEM SRB

12	(C) A-ADDRESS	4	GSPLSYSL	LAST SYSTEM SRB

16	(10) A-ADDRESS	4	GSPLEND	END OF GSPL

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
LOCAL SPL				
0	(0)	STRUCTURE	0 LSPL	
0	(0)	CHARACTER	8 LSPLNQ	NON-QUIESCEABLE LEVEL
0	(0)	A-ADDRESS	4 LSPLNQF	FIRST NONQ SRB
4	(4)	A-ADDRESS	4 LSPLNQL	LAST NONQ SRB
8	(8)	CHARACTER	8 LSPLSYS	SYSTEM PRIORITY LEVEL
8	(8)	A-ADDRESS	4 LSPLSYSF	FIRST SYSTEM SRB
12	(C)	A-ADDRESS	4 LSPLSYSL	LAST SYSTEM SRB
16	(10)	A-ADDRESS	4 LSPLEND	END OF LSPL

SPQE

Common Name: VSM Subpool Queue Element

Macro ID: IHASPPQE

DSECT Name: SPQESECT

Created by: IEAVGM00 (VSM supervisor)

Subpool and Key: 245 or 255 and key 0

Size: 16 bytes

Pointed to by: TCBMSS field of the TCB data area (last SPQE)

CSASPPQEP field of the GDA data area (CSA SPQE)

LSQAPTR field of the LDA data area (LSQA SPQE)

SQASPPQEP field of the GDA data area (SQA SPQE)

SPQEAD field of the SPQE data area (previous SPQE)

Serialization: SALLOC lock for SQA and CSA

LOCAL lock for the private area

Function: Description of space in subpool.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SPQESECT	SUBPOOL QUEUE ELEMENT

0	(0) SIGNED	4	SPQEAD	ADDRESS OF NEXT OLDEST SPQE

4	(4) SIGNED	4	SPDQEPTR	POINTER TO FIRST DQE FOR SUBPOOL

8	(8) BITSTRING 1... ..	1	SPQEFLGS SPSHARE	SPQE FLAGS X'80' 0=SUBPOOL OWNED 1=SUBPOOL SHARED, NOT OWNED
	.1.. ..		LASTSPQE	X'40' LAST SPQE ON CHAIN
	..1.		SPQEOWN	X'20' 0=SUBPOOL IS OWNED, NOT SHARED 1=SUBPOOL IS OWNED AND SHARED
9	(9) CHARACTER	1	SPQERES1	RESERVED
10	(A) CHARACTER	1	SPQEID	IDENTIFYING NUMBER OF SUBPOOL
11	(B) CHARACTER	1	SPQEKEY	KEY OF THE OWNING TASK

12	(C) SIGNED	4	SPQERES2	RESERVED

SRB

Common Name: Service Request Block

Macro ID: IHASRB

DSECT Name: SRBSECT

Created by: Control program routines

Subpool and Key: 245 and key 0

Size: 44 bytes

Pointed to by: ASCBLSMQ field of the ASCB data area
ASCBLSPL field of the ASCB data area
ASCBFSLQ field of the ASCB data area
ASCBLSLQ field of the ASCB data area
ASCBXMPQ field of the ASCB data area
ASXBFSRB field of the ASXB data area
ASXBLSRB field of the ASXB data area
IOSSRB field of the IOSB data area
PCBSRB field of the PCB data area
SRBFLNK field of the SRB data area
TQESRB field of the TQE data area
TVCSSRBA field of the TVCS data area
..... field of the GSMQ data area
..... field of the GSPL data area
..... field of the LSMQ data area
..... field of the LSPL data area

Serialization: SRBFLNK - compare & swap, all others - owner serialized

Function: The I/O supervisor uses the SRB to dispatch I/O processing for a request. It identifies the address space in which processing is to be done. Also used as input to the SCHEDULE macro when scheduling a routine for asynchronous execution.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SRBSECT	

0	(0) A-ADDRESS	4	SRB	

0	(0) CHARACTER	4	SRBID	EBCDIC ACRONYM FOR SRB

4	(4) A-ADDRESS	4	SRBFLNK	FORWARD CHAIN FIELD

8	(8) A-ADDRESS	4	SRBASCB	PTR TO ASCB OF ADDRESS SPACE SRB IS TO BE DISPATCHED TO

12	(C) CHARACTER	8	SRBFLC	SRB AREA MOVED TO LOW CORE

12	(C) BITSTRING	2	SRBCPAFF	CPU AFFINITY MASK
14	(E) SIGNED	2	SRBPASID	PURGEDQ ASID IDENTIFIER

16	(10) A-ADDRESS	4	SRBPTCB	PURGEDQ TCB IDENTIFIER

20	(14) A-ADDRESS	4	SRBEP	ENTRY POINT OF ROUTINE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
24	(18) A-ADDRESS	4	SRBRMTR	ADDRESS OF RESOURCE MGR RTN
28	(1C) A-ADDRESS	4	SRBPARM	USER PARAMETER
32	(20) A-ADDRESS	4	SRBSAVE	SAVE AREA POINTER
36	(24) BITSTRING	1	SRBPKF	PROTECT KEY INDICATION
37	(25) BITSTRING	1	SRBPRIOR	PRIORITY LEVEL INDICATION
	.... ....		SRBPSYS	0 SYSTEM PRIORITY LEVEL
	.... .1..		SRBPNONQ	4 NON-QUIESCEABLE PRIORITY RESERVED
38	(26) BITSTRING	2		
40	(28) A-ADDRESS	4		RESERVED

SSARB

Common Name: Subsystem Allocation Request Block

Macro ID: IEFSSARB

DSECT Name: SSABARBK

Created by: IEFAB427

Subpool and Key: Subpool 230 and key 1

Size: 60 bytes

Pointed to by: SSAGNRBP field of the SSARB data area
SSAGNRBP field of the SSOB data area

Serialization: None

Function: Contains the information needed by a subsystem to allocate a SUBSYS DD request or its equivalent dynamic allocation request.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	60	SSAGARBK	SSAG REQUEST BLOCK MAPPING
0	(0) UNKNOWN	2	SSAGRBLN	REQUEST BLOCK LENGTH
2	(2) UNKNOWN	2	SSAGRBFL	RESERVED FLAGS
4	(4) UNKNOWN	2	SSAGRBECC	DD RELATED ERROR CODE
6	(6) UNKNOWN	2	SSAGRBIIC	DD RELATED INFO CODE-DEFINED BY SUBSYSTEM
8	(8) UNKNOWN	2	SSAGDMLN	MAX LENGTH OF DD LEVEL MSG
10	(A) UNKNOWN	2		RESERVED
12	(C) UNKNOWN	4	SSAGNRBP	POINTER TO NEXT RB OR 0
16	(10) UNKNOWN	4	SSAGDDNM	POINTER TO DDNAME
20	(14) UNKNOWN	4	SSAGDISP	POINTER TO DATA SET DISP
24	(18) UNKNOWN	4	SSAGDUMY	POINTER TO DUMY/SYSIN FLAGS
28	(1C) UNKNOWN	4	SSAGSOUT	POINTER TO SYSOUT FLAGS
32	(20) UNKNOWN	4	SSAGUNIT	POINTER TO UNIT TYPE
36	(24) UNKNOWN	4	SSAGADSP	POINTER TO ALTERNATE DISP
40	(28) UNKNOWN	4	SSAGSSNM	POINTER TO SUBSYSTEM NAME
44	(2C) UNKNOWN	4	SSAGJFCB	POINTER TO JFCB

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
48	(30)	UNKNOWN	4 SSAGSSWA	POINTER TO SSHA
52	(34)	UNKNOWN	4 SSAGSSCM	POINTER TO INFO
56	(38)	UNKNOWN	4 SSAGDMGP	POINTER TO DD LEVEL MESSAGE BLOCK
0	(0)	UNKNOWN	2 SSAGDMBK	DD LEVEL MESSAGE BLOCK
0	(0)	UNKNOWN	2 SSAGDMGL	LENGTH OF MESSAGE RETURNED BY SUBSYSTEM
2	(2)	UNKNOWN	0 SSAGDMSG	DD LEVEL MESSAGE TEXT
0	(0)	UNKNOWN	2 SSAGGMBK	GROUP LEVEL MESSAGE BLK
0	(0)	UNKNOWN	2 SSAGGMGL	LENGTH OF MESSAGE RETURNED BY SUBSYSTEM
2	(2)	UNKNOWN	0 SSAGGMSG	GROUP LEVEL MESSAGE TEXT

SSCVT

Common Name: Subsystem Communications Vector Table

Macro ID: IEFJSCVT

DSECT Name: SSCT

Created by: IEFJSINT

Subpool and Key: 241 and key 0

Size: 24 bytes

Pointed to by: JESSSCT field of the JESCT data area (first SSCVT)

SSCTSCTA field of the SSCVT data area (next SSCVT)

Serialization: None

Function: Identifies each subsystem defined to the system and points to the SSVT for each subsystem.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SSCT	

0	(0) CHARACTER	4	SSCTID	CONTROL BLOCK IDENTIFIER

4	(4) A-ADDRESS	4	SSCTSCTA	PTR TO NEXT SSCVT OR ZERO

8	(8) CHARACTER	4	SSCTSNAME	SUBSYSTEM NAME

12	(C) BITSTRING	1	SSCTFLG1	FLAGS
	1... ..		SSCTSFOR	X'80' SERIAL FIB OPERATIONS REQUIRED
	.1... ..		SSCTUPSS	X'40' USE PRIMARY SUBSYSTEM'S SERVICES FOR THIS SUBSYSTEM (E.G. SYSOUT)
13	(D) HEX	1	SSCTRSV1(3)	RESERVED

16	(10) A-ADDRESS	4	SSCTSSVT	SUBSYSTEM VECTOR TABLE POINTER

20	(14) SIGNED	4	SSCTSUSE	RESERVED FOR SUBSYSTEM USAGE

SSIB

Common Name: Subsystem Identification Block

Macro ID: IEFJSSIB

DSECT Name: SSIB

Created by: Many users (IEFIIC, IEE0403D, IEE0803D, IEAVSWCH,...)

Subpool and Key: User subpool and key

Size: 36 bytes

Pointed to by: JSCBSSIB field of the JSCB data area

SSOBSSIB field of the SSOB data area

Serialization: None

Function: Identifies the subsystem to the subsystem interface and passes information between the subsystem and its caller.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SSIB	
0	(0) CHARACTER	4	SSIBID	CONTROL BLOCK IDENTIFIER
4	(4) A-ADDRESS	2	SSIBLEN	SSIB LENGTH
6	(6) BITSTRING 1... ..	1	SSIBFLG1 SSIBPJES	FLAGS X'80' THIS SSIB IS USED TO START THE JOB ENTRY SUBSYSTEM RESERVED
7	(7) HEX	1	SSIBRESV	RESERVED
8	(8) CHARACTER	4	SSIBSSNM	SUBSYSTEM NAME
12	(C) CHARACTER	8	SSIBJBID	JOB IDENTIFIER
20	(14) CHARACTER	8	SSIBDEST	DEFAULT USERID FOR SYSOUT DESTINATION
28	(1C) SIGNED	4	SSIBRSV1	RESERVED
32	(20) SIGNED	4	SSIBSUSE	RESERVED FOR SUBSYSTEM USAGE

SSOB

Common Name: Subsystem Options Block

Macro ID: IEFJSSOB

DSECT Name: SSOB

Created by: Many users (IEFIIC, IEE0403D, IEE0803D, IEAVSWCH,...)

Subpool and Key: User subpool and key

Size: Header is of fixed length 20 bytes. The extensions are of variable lengths

Pointed to by: JSWASOBP field of the JSWA data area

LCTSSOBA field of the LCT data area

Serialization: None

Function: Parameter list for the subsystem interface.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SSOB	
0	(0) CHARACTER	4	SSOBID	CONTROL BLOCK IDENTIFIER
4	(4) A-ADDRESS	2	SSOBLEN	LENGTH OF SSOB HEADER
6	(6) SIGNED	2	SSOBFUNC	FUNCTION ID
8	(8) A-ADDRESS	4	SSOBSSIB	ADDRESS OF SSIB OR ZERO
12	(C) SIGNED	4	SSOBRETN	RETURN CODE FROM SUBSYSTEM

THE FOLLOWING RETURN CODES WILL BE RETURNED IN REGISTER 15 TO THE ISSUER OF THE IEFSSREQ MACRO
SSOBRETN CONTAINS FUNCTION-RELATED RETURN CODES
(DEFINED IN EACH FUNCTION EXTENSION)

....	SSRTOK	0 SUCCESSFUL COMPLETION REQUEST WENT TO A SUBSYSTEM.
.... .1..	SSRTNSUP	4 SUBSYSTEM DOES NOT SUPPORT THIS FUNCTION
.... 1...	SSRTNTUP	8 SUBSYSTEM EXISTS, BUT IS NOT UP
.... 11..	SSRTNOSS	12 SUBSYSTEM DOES NOT EXIST
...1	SSRTDIST	16 FUNCTION NOT COMPLETED-DISASTROUS ERROR
...1 .1..	SSRTLERR	20 LOGICAL ERROR (BAD SSOB FORMAT, INCORRECT LENGTH,...)

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
16	(10) SIGNED	4	SSOBINDV	FUNCTION DEPENDENT AREA POINTER
=====				
PROCESS SYSOUT DATA SETS FUNCTION				
....	...1		SSOBSOUT	1 SYSOUT FUNCTION ID (SSOBFUNC)
=====				
PROCESS SYSOUT DATA SETS RETURN CODES (SSOBRETN)				
....	....		SSSORTOK	0 EVERYTHING IS OK
....	.1..		SSSOEODS	4 NO MORE DATA SETS TO SELECT
....	1...		SSSONJOB	8 JOB NOT FOUND
....	11..		SSSOINVA	12 INVALID SEARCH ARGUMENTS
...1	....		SSSOUNAV	16 UNABLE TO PROCESS NOW
...1	.1..		SSSODUPJ	20 DUPLICATE JOB NAMES
...1	1...		SSSOINVJ	24 INVALID JOBNAME/JOBID COMBINATION
...1	11..		SSSOIDST	28 INVALID DESTINATION SPECIFIED

20	(14) A-ADDRESS	2	SSSOLEN	SYSOUT EXTENSION LENGTH
22	(16) BITSTRING	1	SSSOUFLG	USER SELECTION OPTIONS CLASS ROUTING AND DISPOSITION FLAGS
	1... ..		SSSOSETC	X'80' USE SSSOCLAS AS DISPOSITION
	.1.. ..		SSSODEL C	X'40' DELETE SELECTED DATA SET
	...1.		SSSOROUT	X'20' REROUTE SELECTED DATA SET TO DESTINATION IN SSSOEST
	...1		SSSOHOLD	X'10' HOLD ALL SELECTED DATA SETS
	.... 1...		SSSORLSE	X'08' RELEASE ALL SELECTED DATA SETS

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
EQU	X'07'		RESERVED FLAGS	
23	(17) HEX	1	SSSORESV	RESERVED

24	(18) BITSTRING	1	SSSOFLG1	DATA SET SELECTION CONTROL FLAGS
	1... ..		SSSOHLD	X'80' SELECTION SHOULD INCLUDE HELD SYSOUT
	.1.. ..		SSSOSCLS	DATA SETS X'40' USE
	..1.		SSSODST	CLASS X'20' USE REMOTE
	...1		SSSOSJBN	DESTINATION X'10' USE JOB
	.... 1...		SSSOSJBI	NAME X'08' USE JOB
	.... .1..		SSSOSPGM	ID X'04' USE USER WRITER PROGRAM
	.... ..1.		SSSOSFRM	NAME X'02' USE FORM
	.... ...1		SSSORSV2	NUMBER X'01' RESERVED
25	(19) BITSTRING	1	SSSOFLG2	CURRENT DATA SET DISPOSITION
	1... ..		SSSOCTRL	FLAGS X'60' 1 PROCESSING COMPLETED 0
	.1.. ..		SSSOCHKP	RETURN DATA SET NAME X'40' USE SSSORBA TO CHECKPOINT RBA OF CURRENT
	..11 1111		SSSORSV3	DATA SET IN CLASS X'3F' RESERVED
26	(1A) SIGNED	2	SSSOCOPY	FLAGS NUMBER OF COPIES

28	(1C) CHARACTER	8	SSSOJOBV	JOB NAME

36	(24) CHARACTER	8	SSSOJIBI	JOB ID

44	(2C) CHARACTER	1	SSSOCLAS	NAME OF DESTINATION CLASS SPECIFIED VIA THE NEWCLASS PARAMETER
45	(2D) CHARACTER	3	SSSORSV5	RESERVED

SSOB

SSOB

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
48	(30) CHARACTER	8	SSSODEST	REMOTE DESTINATION SPECIFIED VIA THE DEST PARAMETER
56	(38) CHARACTER	8	SSSOPGMN	USER WRITER NAME
64	(40) CHARACTER	8	SSSORBA	RBA OF SYSOUT DATA SET
72	(48) CHARACTER	44	SSSODSN	SYSOUT DATA SET NAME
116	(74) CHARACTER	4	SSSOFORM	FORM NUMBER
=====				
SSSOCLSL WILL CONTAIN 1-8 CLASSES WHEN USED FOR REROUTING OR FUNCTIONS AND WILL CONTAIN ONLY ONE CLASS WHEN USED FOR PRIN				
120	(78) CHARACTER	8	SSSOCLSL	CLASS SELECTION LIST FOR DATA SET SELECTION
128	(80) A-ADDRESS	4	SSSOWTRC	A POINTER TO A COMMUNICATION AREA FOR THE USER WRITTEN WRITER
132	(84) CHARACTER	8	SSSODSID	DATA SET ID TO PLACE SYSOUT ON EXTERNAL DEVICES
=====				
CANCEL/STATUS FUNCTION				
....	..1.		SSOBCANC	2 CANCEL FUNCTION ID (SSOBFUNC)
....	..11		SSOBSTAT	3 JOB STATUS FUNCTION ID (SSOBFUNC)
=====				
CANCEL/STATUS RETURN CODES (SSOBRETN)				
....	....		SSCSRTOK	0 CANCEL/STATUS' COMPLETED
....	..1..		SSCSNOJB	4 JOB NAME NOT FOUND
....	1...		SSCSBADI	8 INVALID JOBNAME/JOB ID COMBINATION

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... 11..			SSCSNCAN	12 JOB NOT CANCELLED DUPLICATE JOB NAMES AND NO JOB ID GIVEN
...1			SSCSMALL	16 STATUS ARRAY TOO SMALL
...1 .1..			SSCSOUTP	20 JOB NOT CANCELLED-JOB ON OUTPUT QUEUE
...1 1...			SSCSYNTX	24 JOBID WITH INVALID SYNTAX FOR SYBSYSTEM
...1 11..			SSCSICAN	28 INVALID CANCEL REQUEST CANNOT CANCEL AN ACTIVE TSO USER OR STARTED TASK TSO USER MAY NOT CANCEL THE ABOVE JOBS UNLESS THEY ARE ON AN OUTPUT QUEUE.

20	(14) A-ADDRESS	2	SSCSLEN	CANCEL/STATUS EXTENSION LENGTH
22	(16) BITSTRING	1	SSCSFLGS	USER SELECTION FLAGS
	1...		SSCSUSID	X'80' USERID IS IN JOBNAME FIELD
	.1...		SSCSCOUT	X'40' CANCEL THE JOBS OUTPUT
=====				
EQU	X'3F'		RESERVED FLAGS	
23	(17) HEX	1	SSCSULEN	USERID LENGTH
24	(18) CHARACTER	8	SSCSJOBN	JOB NAME
32	(20) CHARACTER	8	SSCSJOB I	JOB ID OR BLANKS
40	(28) SIGNED	2	SSCSDIMP	SET BY CALLER TO INDICATE SIZE OF ARRAY AVAILABLE TO SUBSYSTEM TO STORE RESULTS IN
42	(2A) SIGNED	2	SSCSDIMR	SET BY SUBSYSTEM TO INDICATE SIZE OF ARRAY USED, OR NEEDED IF

OFFSETS TYPE LENGTH NAME DESCRIPTION

NOT ENOUGH IS
AVAILABLE

=====

SSCSARAY MAPS AN ELEMENT OF AN ARRAY GOTTEN BY THE CALLER FO
THE SUBSYSTEM TO RETURN RESULTS IN. IF MORE THAN ONE ELEMEN
EXISTS, ADDRESSABILITY TO THIS ARRAY MUST BE UPDATED BY THE
ELEMENT SIZE (SSCSELSZ). THE TOTAL ARRAY SPACE USED FOR JOB
STATUS REPLIES FROM THE SUBSYSTEM(ARRAY ELEMENT SIZE IN BYTE
TIMES THE NUMBER OF ELEMENTS) MUST BE INDICATED IN SSCSDIMR.
MESSAGES MUST FOLLOW THE LAST SSCSARAY ELEMENT USED FOR JOB
STATUS.

OFFSET	TYPE	LENGTH	NAME	DESCRIPTION
44	(2C) CHARACTER	16	SSCSARAY	
44	(2C) CHARACTER	8	SSCSARID	JOB IDENTIFIER
52	(34) BITSTRING	1	SSCSFLG1	FLAGS SET BY SUBSYSTEM
	1... ..		SSCSJACT	X'80' JOB IS CURRENTLY ACTIVE (EXECUTING AFTER BEING GIVEN CONTROL BY THE INITIATOR)
	.1... ..		SSCSEXQC	X'40' JOB IS WAITING FOR EXECUTION (ON A PRE-EXECUTION QUEUE)
	..1.		SSCSOUTQ	X'20' JOB IS ON OUTPUT QUEUE
	...1		SSCSHOLD	X'10' JOB IS HELD IN ITS CURRENT QUEUE
	.... 1...		SSCSSECL	X'08' JOB HAS A SECOND LEVEL MESSAGE

EQU	OFFSET	TYPE	LENGTH	NAME	DESCRIPTION
	X'07'				RESERVED FLAGS
53	(35) CHARACTER	1	SSCSUJOB	JOBNAME CHARACTER RETURNED BY SUBSYSTEM FOR USERID AS JOBNAME	
54	(36) CHARACTER	2	SSCSRSV2	RESERVED	
56	(38) A-ADDRESS	4	SSCSMPTR	POINTER TO MESSAGE RETURNED IN ARRAY	

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
SUBSYSTEM JOB SELECTION FUNCTION				
....	.1.1		SSOBJBSL	5 JOB SELECTION FUNCTION ID (SSOBFUNC)
=====				
SUBSYSTEM JOB SELECTION RETURN CODES (SSOBRETN)				
....	....		SSJSRTOK	0 OK-JOB HAS BEEN SELECTED
....	.1..		SSJSISTP	4 INITIATOR SHOULD STOP
....	.1....		SSJSYSER	16 SYSTEM ERROR OCCURRED DURING SUBSYSTEM PROCESSING
....	.1..		SSJSPERR	SYSTEM ERROR CODE IS IN SSJSSERR 36 PROGRAM ERROR

20	(14) A-ADDRESS	2	SSJSLEN	JOB SELECT EXTENSION LENGTH
22	(16) SIGNED	2	SSJSRESV	RESERVED

24	(18) SIGNED	2	SSJSSTEP	STEP NUMBER OR ZERO
26	(1A) BITSTRING	1	SSJSFLG1	JOB DESCRIPTOR BITS
	1... ..		SSJSSTRS	X'80' STEP RESTART
	.1... ..		SSJSCHRS	X'40' CHECKPOINT/REST ART
	..1.		SSJSCNRS	X'20' CONTINUE RESTART
	...1		SSJSRSV1	X'10' RESERVED
	.... 1...		SSJSWARM	X'08' WARM START THE JOB
	.... .1..		SSJSAIFG	X'04' ALTERNATE INTERPRETER FLAG IF ON SELECT INTERPRETER ADDRESS FROM SSJSAIAD FIELD
27	.... ..11 (18) HEX	1	SSJSRSV2 SSJSRSV3	X'03' RESERVED RESERVED

28	(1C) A-ADDRESS	4	SSJSLCT	LCT ADDRESS

32	(20) A-ADDRESS	4	SSJSMACB	MESSAGE ACB ADDRESS

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
36	(24) A-ADDRESS	4	SSJSJACB	JOURNAL ACB ADDRESS
40	(28) A-ADDRESS	4	SSJSTACB	INTERNAL TEXT ACB ADDRESS
44	(2C) A-ADDRESS	4	SSJSIPRM	ADDRESS OF PARAMETER FOR PHASE TWO OF THE INTERPRETER
48	(30) A-ADDRESS	4	SSJSJMR	JMR ADDRESS
52	(34) SIGNED	4	SSJSSERR	SYSTEM ERROR RETURN CODE FROM CONVERTER OR SWA CREATE
56	(38) SIGNED	4	SSJSAIAD	ALTERNATE INTERPRETER ADDRESS
60	(3C) CHARACTER	9	SSJSPASS	SECURITY FIELD
60	(3C) HEX	1	SSJSPSLN	PASSWORD LENGTH
61	(3D) CHARACTER	8	SSJSPSWD	SECURITY PASSWORD
69	(45) CHARACTER	9	SSJSPAS2	NEW PASSWORD FIELD
69	(45) HEX	1	SSJSPSL2	NEW PASSWORD LENGTH
70	(46) CHARACTER	8	SSJSPSW2	NEW PASSWORD

=====

ALLOCATION/UNALLOCATION OF SYSOUT FUNCTION

.... .11.	SSOBALOC	6 ALLOCATION FUNCTION ID (SSOBFUNC)
.... .111	SSOBUNAL	7 UNALLOCATION FUNCTION ID (SSOBFUNC)

=====

ALLOCATION/UNALLOCATION RETURN CODES (SSOBRETN)

....	SSALRTOK	0 ALLOCATION/UNALLOCATION SUCCESSFUL
.... .1..	SSALWTFL	4 ALLOCATION WAIT FAILED
.... 1...	SSALCREQ	8 CANCEL REQUESTED
.... 11..	SSALIDST	12 INVALID DESTINATION
...1	SSALNAUT	16 USER UNAUTHORIZED TO ALLOCATE THIS DATA SET

SSOB

SSOB

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	...1 .1..		SSALUNAL	20 UNABLE TO ALLOCATE
20	(14) A-ADDRESS	2	SSALLEN	ALLOC/UNALLOC EXTENSION LENGTH
22	(16) BITSTRING	1	SSALFLG1	ALLOCATION/UNALLOCATION FLAGS
	1...		SSALDELT	X'80' DELETE AT UNALLOCATION
	.1..		SSALHOLD	X'40' HOLD AT UNALLOCATION
	..1.		SSALNHLD	X'20' NOHOLD OPTION SPECIFIED
	...1		SSALWAIT	X'10' WAIT FOR ALLOCATION
	.... 1..		SSALTRKM	X'08' ASSIGN A SEPARATE TRACK GROUP MAP
	.... .1..		SSALSPIN	X'04' SPIN OFF DATA SET
	.... ..1.		SSALASNM	X'02' DATA SET REQUIRES A DATA SET NAME
	.... ...1		SSALKEEP	X'01' SUBSYSTEM SHOULD KEEP THE DS RESERVED
23	(17) HEX	1	SSALRSV2	RESERVED

FOLLOWING FIELDS CONTAIN POINTERS TO THE INDICATED DATA
(NUMBERS IN PARENTHESES INDICATE LENGTH OF AREA POINTED TO)

24	(18) A-ADDRESS	4	SSALDDNM	DDNAME (8)
28	(1C) A-ADDRESS	4	SSALDEST	REMOTE DESTINATION ID OR BLANK (8)
32	(20) A-ADDRESS	4	SSALDISP	DATA SET DISPOSITION (1)
36	(24) A-ADDRESS	4	SSALDUMY	DUMMY/SYSIN FLAGS (1)
40	(28) A-ADDRESS	4	SSALSOUT	SYSOUT FLAGS (1)
44	(2C) A-ADDRESS	4	SSALUNIT	UNIT TYPE (8)
48	(30) A-ADDRESS	4	SSALPGMN	USER WRITER PROGRAM NAME (8)
52	(34) A-ADDRESS	4	SSALFORM	FORMS NUMBER (4)

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				IN 1ST 4 BYTES) LAST 8 BYTES JOBNAME ASSOCIATED WITH TERMINATING MEMORY
32	(20) A-ADDRESS	4	SSENASCB	ASCB ADDRESS OF TERMINATING MEMORY
=====				
WRITE TO OPERATOR FUNCTION				
	.... 1..1		SSOBWTO	9 WTO FUNCTION ID (SSOBFUNC)
	..1. ...1		SSOBCONS	33 CONSOLE STATUS FUNCTION ID
	..1. ...1.		SSOBWTL	34 WTL FUNCTION ID
=====				
WRITE TO OPERATOR RETURN CODES (SSOBRETN)				
	.... ....		SSWTRTOK	0 CONTINUE NORMAL WTO PROCESSING
	.... .1..		SSWTNDSP	4 DO NOT DISPLAY WTO
20	(14) A-ADDRESS	2	SSWTLEN	WTO EXTENSION LENGTH
22	(16) SIGNED	2	SSWTRESV	RESERVED
=====				
FOLLOWING WTO SUBSYSTEM INTERFACES MAY EXIST				
SINGLE WTO OR FIRST LINE OF MULTI-LINE WTO:				
SSWTHIN, SSWTORE ARE 0				
SECOND TO N-TH LINE OF MULTI-LINE WTO:				
SSWTORE IS 0				
WTOR:				
SSWTHIN IS 0				
24	(18) A-ADDRESS	4	SSWTWQE	WQE ADDRESS (MAJOR)
28	(1C) A-ADDRESS	4	SSWTMIN	MINOR WQE ADDRESS
32	(20) A-ADDRESS	4	SSWTORE	OPERATOR REPLY ELEMENT ADDRESS

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
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=====

COMMAND PROCESSING FUNCTION

.... 1.1.			SSOBCMND	10 CMD PROCESSING FUNCTION ID (SSOBFUNC)
-----------	--	--	----------	---------------------------------------------------

=====

COMMAND PROCESSING RETURN CODES (SSOBRETN)

....			SSCMSCMD	0 SVC 34 SHOULD PROCESS THIS COMMAND
.... .1..			SSCMSUBC	4 SUBSYSTEM PROCESSED THIS COMMAND
.... 1...			SSCMMSG	8 SUBSYSTEM COULD NOT EXECUTE THE COMMAND; SVC 34 ISSUES MESSAGE

20	(14) A-ADDRESS	2	SSCMLEN	COMMAND EXTENSION LENGTH
----	----------------	---	---------	--------------------------------

22	(16) SIGNED	2	SSCMRESV	RESERVED
----	-------------	---	----------	----------

24	(18) A-ADDRESS	4	SSCMBUFF	COMMAND BUFFER ADDRESS
----	----------------	---	----------	---------------------------

28	(1C) SIGNED	4	SSCMSCID	COMMAND SOURCE CONSOLE ID OR 0 ASID OF TIME-SHARING USER CMD AUTHORITY OF INPUT STREAM
----	-------------	---	----------	----------------------------------------------------------------------------------------------------------

=====

REMOTE DESTINATION VALIDITY CHECK FUNCTION

.... 1.11			SSOBUER	11 REMOTE DEST FUNCTION ID (SSOBFUNC)
-----------	--	--	---------	---------------------------------------------

=====

REMOTE DESTINATION VALIDITY CHECK RETURN CODES (SSOBRETN)

....			SSUSRTOK	0 VALID REQUEST
.... .1..			SSUSNOUS	4 INVALID DESTINATION
.... 1...			SSUSINCP	8 SUBSYSTEM COULD NOT COMPLETE THE VALIDITY CHECK

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
20	(14) A-ADDRESS	2	SSUSLEN	REMOTE DESTINATION EXTENSION LENGTH
22	(16) SIGNED	2	SSUSRESV	RESERVED

24	(18) SIGNED	4	SSUSRSV1	RESERVED

28	(1C) CHARACTER	8	SSUSUSER	REMOTE DESTINATION TO BE VERIFIED
=====				
JOB DELETION FUNCTION				
	.... 11..		SSOBTERRM	12 JOB DELETION FUNCTION ID (SSOBFUNC)
=====				
JOB DELETION RETURN CODES (SSOBRETN)				
	... .1..		SSJTPERR	36 PROGRAM ERROR

20	(14) A-ADDRESS	2	SSJTLEN	JOB DELETION EXTENSION LENGTH
=====				
JOB STATUS INFORMATION				
22	(16) BITSTRING	1	SSJTFLG1	JOB STATUS FLAGS
	1...		SSJTJFAL	X'80' JOB FAILED INDICATOR
	.1...		SSJTCFAL	X'40' JOB FAILED BECAUSE OF CONDITION CODE
	...1.		SSJTABND	X'20' JOB ABENDED (JCTABEND=ON)
23	(17) BITSTRING	1	SSJTRSV1	RESERVED

24	(18) A-ADDRESS	4	SSJTMHR	JMR ADDRESS

28	(1C) SIGNED	4	SSJTPCOD	PTR TO THE 2 BYTE CONDITION CODE OR ZERO

32	(20) SIGNED	4	SSJTSPN1	PTR TO THE STEPNAME OF THE ABENDING STEP IF JOB ABENDED OR ZERO

SSOB

SSOB

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
36	(24) SIGNED	4	SSJTPSN2	PTR TO THE STEPNAME OF THE STEP WHICH CALLED THE PROC ANY OR ZERO

40	(28) SIGNED	4	SSJTSNUM	PTR TO THE NUMBER OF THE LAST STEP TO COMPLETE EXECUTION.
=====				

RE-ENQUEUE A JOB FUNCTION

.... 11.1			SSOBRENQ	13 RE-ENQUEUE FUNCTION ID (SSOBFUNC)
=====				

JOB RE-ENQUEUE RETURN CODES (SSOBRETN)

..1. .1..			SSRQPERR	36 PROGRAM ERROR

20	(14) A-ADDRESS	2	SSRQLEN	RE-ENQUEUE EXTENSION LENGTH RESERVED
22	(16) SIGNED	2	SSRQRESV	

24	(18) SIGNED	2	SSRQSTEP	STEP NUMBER
26	(1A) BITSTRING	1	SSRQFLG1	REASON FOR REENQUEING FLAGS
	1...		SSRQSTRS	X'80' STEP RESTART
	.1..		SSRQCHRS	X'40' CHECKPOINT RESTART
	..1.		SSRQCNRS	X'20' CONTINUE RESTART
	...1		SSRQHOLD	X'10' HOLD THE JOB
	.... 1111		SSRQRSV1	X'0F' RESERVED FLAGS
27	(1B) HEX	1	SSRQRSV2	RESERVED
=====				

DELETE OPERATOR MESSAGES FUNCTION

.... 111.			SSOBDOM	14 DOM FUNCTION ID (SSOBFUNC)
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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
DOM RETURN CODES (SSOBRETN)				
NO DOM RETURN CODES CURRENTLY DEFINED				

20	(14) A-ADDRESS	2	SSDMLN	DOM EXTENSION LENGTH
22	(16) SIGNED	2	SSDMRESV	RESERVED

24	(18) A-ADDRESS	4	SSDMDCB	DOM CONTROL BLOCK ADDRESS
=====				
SUBSYSTEM VERIFICATION FUNCTION				
	.... 1111		SSOBVERS	15 FUNCTION ID (SSOBFUNC)
=====				
SUBSYSTEM VERIFICATION RETURN CODES (SSOBRETN)				
	.... ....		SSVSSNAM	0 SSIB CONTAINS A SUBSYSTEM NAME AND FIELDS SSVSUPSS AND SSVSSCTP IN THE FUNCTION DEPENDENT SECTION ARE SET
	.... .1..		SSVSJBNM	4 NAME IS NOT NAME OF A SUBSYSTEM

20	(14) A-ADDRESS	2	SSVSLN	VS EXTENSION LENGTH
22	(16) BITSTRING 1...	1	SSVSFLG1 SSVSUPSS	FLAG BYTE X'80' SET BY MASTER SUBSYSTEM TO INDICATE THAT THE SPECIFIED SUBSYSTEM REQUIRES THE USE OF THE PRIMARY SUBSYSTEM'S SERVICES (E.G. SYSOUT)
23	(17) BITSTRING	1	SSVSFLG2	RESERVED FLAG BYTE

24	(18) A-ADDRESS	4	SSVSSCTP	PTR TO SSCT OF THE SPECIFIED SUBSYSTEM-RETURNED BY THE MASTER SUBSYSTEM

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
=====				
OPEN/CLOSE, CHECKPOINT/RESTART FUNCTION				
DATA MANAGEMENT SSOB FUNCTION IDS (SSOBFUNC)				
...	...		SSOBOPEN	16 OPEN FUNCTION ID
...	...		SSOBCLOS	17 CLOSE FUNCTION ID
...	...		SSOBCKPT	18 CHECKPOINT FUNCTION ID
...	...		SSOBRST	19 RESTART FUNCTION ID

=====

OPEN/CLOSE, C/R RETURN CODES (SSOBRETN)

....	....		SSDMOK	0 REQUEST SUCCESSFUL
....	..		SSDMFAIL	4 REQUEST UNSUCCESSFUL

20	(14) A-ADDRESS	2	SSDALEN	O/C, C/R EXTENSION LENGTH
22	(16) BITSTRING	1	SSDARESV	RESERVED
23	(17) BITSTRING	1	SSDARESF	RESTART FLAGS
	1... ..		SSDAAUTO	X'80' AUTO CHECKPOINT RESTART
	..		SSDADEFR	X'40' DEFERRED CHECKPOINT RESTART

24	(18) A-ADDRESS	4	SSDABUFR	4K BUFFER POINTER GOTTEN BY CHECKPT AND RESTART, USED BY SUBSYSTEM

28	(1C) A-ADDRESS	4	SSDAJFCB	JFCB POINTER

32	(20) A-ADDRESS	4	SSDADEBP	DEB POINTER

36	(24) A-ADDRESS	4	SSDASSCH	POINTER TO SUBSYSTEM INFORMATION

=====

REQUEST/RETURN JOB ID FUNCTION

...	..		SSOBRQST	20 REQUEST JOB ID FUNCTION ID(SSOBFUNC)
...	..		SSOBRTRN	21 RETURN JOB ID FUNCTION ID(SSOBFUNC)

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
REQUEST/RETURN JOB ID RETURN CODES (SSOBRETN)				
....	....		SSRROK	0 REQUEST/RETURN SUCCESSFUL
....	.1..		SSRRFAIL	4 REQUEST/RETURN UNSUCCESSFUL
..1.	.1..		SSRRPERR	36 PROGRAM ERROR

20	(14) A-ADDRESS	2	SSRRLEN	R/R EXTENSION LENGTH
22	(16) SIGNED	2	SSRRRSVO	RESERVED

24	(18) A-ADDRESS	4	SSRRSECB	REQUEST JOB ID STOP ECB POINTER
=====				
NOTIFY SUBSYSTEM OF STEP INITIATION/JES3 EXIT FUNCTION				
...1	.11.		SSOBNSSI	22 NOTIFY SUBSYSTEM OF STEP INITIATION FUNCTION ID (SSOBFUNC)
=====				
NOTIFY SUBSYSTEM OF STEP INITIATION RETURN CODES (SSOBRETN) NO NOTIFY SUBSYSTEM OF STEP INITIATION RETURN CODES CURRENTLY DEFINED				

20	(14) A-ADDRESS	2	SSSILEN	NSSI EXTENSION LENGTH
22	(16) SIGNED	2	SSSIRSVO	RESERVED
=====				
THE FOLLOWING FIELDS CONTAIN POINTERS TO THE INDICATED DATA, NUMBERS IN PARANTHESES INDICATE LENGTH OF AREA POINTED TO.				

24	(18) A-ADDRESS	4	SSSIPSNM	FOR A NORMAL JOB, POINTER TO NAME ON THE 'EXEC PGM=' STATEMENT. (8) FOR A STARTED JOB, POINTER TO THE ID, UNIT TYPE, OR 'STARTING'. (8)

28	(1C) A-ADDRESS	4	SSSIPPSN	FOR A NORMAL JOB, POINTER TO NAME ON THE 'EXEC PROC=' STATEMENT (OR

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				BLANKS). (8) FOR A STARTED JOB, POINTER TO BLANKS. (8)

32	(20) A-ADDRESS	4	SSSIPSNO	POINTER TO STEP NUMBER (1)

DYNAMIC ALLOCATION/JES3 EXIT FUNCTION				
	...1 .111		SSOBYCD	23 DYNAMIC ALLOCATION FUNCTION ID (SSOBFUNC)

DYNAMIC ALLOCATION RETURN CODES (SSOBRETN)				
	.... ....		SSDYSUCC	0 SUCCESSFUL
	.... .1..		SSDYVNMT	4 REQUESTED VOLUME NOT MOUNTED (VOLUME MOUNTING NOT ALLOWED)
	.... 1...		SSDYVBUS	8 VOLUME BUSY (WAITING FOR VOLUME IS NOT ALLOWED)
	.... 11..		SSDYUNAV	12 REQUESTED VOLUME UNAVAILABLE (VOLUME FOUND IN THE JES3 VOLUME UNAVAILABLE TABLE)
	...1		SSDYDBUS	16 REQUESTED DATA SET BUSY (WAITING FOR DATASET NOT ALLOWED)
	...1 .1..		SSDYNUNT	20 REQUESTED UNIT(S) NOT AVAILABLE (NO UNIT(S) OF TYPE AVAILABLE FOR USE)
	...1 1...		SSDYNEDP	24 NOT ENOUGH DEVICES OF TYPE REQUESTED EXIST ON THE PROCESSOR FROM WHICH THE ALLOCATION REQUEST ORIGINATED
	...1 11..		SSDYCNCL	28 REQUEST CANCELLED BY OPERATOR

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
20	(14) A-ADDRESS	2	SSDYLEN	DYNAMIC ALLOCATION EXTENSION LENGTH RESERVED
22	(16) SIGNED	2	SSDYRSV0	
24	(18) A-ADDRESS	4	SSDYSIOT	POINTER TO 1ST SIOT
28	(1C) A-ADDRESS	4	SSDYPFLG	POINTER TO FLAG FIELD
32	(20) SIGNED	4	SSDYRSV1	RESERVED

COMMON ALLOCATION/JES3 EXIT FUNCTION

....1 1...			SSOBCACD	24 COMMON ALLOCATION FUNCTION ID(SSOBFUNC)
------------	--	--	----------	--------------------------------------------

COMMON ALLOCATION RETURN CODES (SSOBRETN)

....			SSCAALCA	0 ALLOC SELECT RETURN CODE
.... .1..			SSCAJESA	4 JES3 SELECT DEV RETURN CODE
20	(14) A-ADDRESS	2	SSCALEN	COMMON ALLOCATION EXTENSION SIZE RESERVED
22	(16) SIGNED	2	SSCARSV0	
24	(18) A-ADDRESS	4	SSCAPSTN	POINTER TO STEP NUMBER
28	(1C) A-ADDRESS	4	SSCAPDDN	POINTER TO DDNAME
32	(20) A-ADDRESS	4	SSCAPDSN	POINTER TO DSNAME
36	(24) A-ADDRESS	4	SSCAPRPN	POINTER TO RELATIVE POSITION NUMBER
40	(28) A-ADDRESS	4	SSCAPNUN	POINTER TO NUMBER OF UNITS REQUIRED
44	(2C) A-ADDRESS	4	SSCAPUAR	POINTER TO UCB ADDRESS RETURN AREA
48	(30) A-ADDRESS	4	SSCAPFLG	POINTER TO FLAG FIELD

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
COMMON UNALLOCATION/JES3 EXIT FUNCTION				
...1 1..1			SSOBCUCD	25 COMMON UNALLOCATION FUNCTION ID(SSOBFUNC)
=====				
COMMON UNALLOCATION RETURN CODES (SSOBRETN)				
NO COMMON ALLOCATION RETURN CODES CURRENTLY DEFINED				

20	(14) A-ADDRESS	2	SSCULEN	COMMON UNALLOCATION EXTENSION LENGTH
22	(16) BITSTRING	1	SSCUFLGS	COMMON UNALLOCATION FLAGS
	1... ..		SSCULSCL	X'80' THIS IS THE LAST CALL FOR THE STEP, SET ON FOR EACH DD BEING UNALLOCATED AT STEP
	.111 1111		SSCURSVF	UNALLOCATION X'7F' RESERVED FLAGS
23	(17) HEX	1	SSCURSV0	RESERVED

24	(18) A-ADDRESS	4	SSCUPSTN	POINTER TO STEP NUMBER

28	(1C) A-ADDRESS	4	SSCUPDDN	POINTER TO DDNAME

32	(20) A-ADDRESS	4	SSCUPRPN	POINTER TO RELATIVE POSITION NUMBER

36	(24) A-ADDRESS	4	SSCUPAUR	ADDRESS OF ALLOCATION UNLOAD ROUTINE

40	(28) SIGNED	4	SSCURSV1	RESERVED

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
=====				
CHANGE DDNAME/JES3 EXIT FUNCTION				
....1 1.1.			SSOBDDCD	26 CHANGE DDNAME FUNCTION ID(SSOBFUNC)
=====				
CHANGE DDNAME RETURN CODES (SSOBRETN)				
NO CHANGE DDNAME RETURN CODES CURRENTLY DEFINED				

20	(14) A-ADDRESS	2	SSDDLEN	CHANGE DDNAME EXTENSION LENGTH
22	(16) SIGNED	2	SSDDRSV0	RESERVED

24	(18) SIGNED	4	SSDDNUMB	NUMBER OF CHANGED DDNAMES

28	(1C) A-ADDRESS	4	SSDDNPTR	POINTER TO DDNAME INFO

32	(20) SIGNED	4	SSDDRSV1	RESERVED
=====				
DYNAMIC ALLOCATION CHANGE ENQ USE ATTRIBUTE/JES3 EXIT				
...1 1.11			SSOBNQCD	27 CHANGE ENQ USE ATTRIBUTE FUNCTION ID(SSOBFUNC)
=====				
CHANGE ENQ USE ATTRIBUTE RETURN CODES (SSOBRETN)				
....			SSOBNQOK	0 ALLRIGHT TO ENQ TO CHANGE USE ATTRIBUTE
.... .1..			SSOBNQNO	4 NOT CURRENTLY POSSIBLE TO CHANGE THE ENQ USE ATTRIBUTE

20	(14) A-ADDRESS	2	SSNQLEN	SSNQ EXTENSION LENGTH
22	(16) SIGNED	2	SSNQRSV0	RESERVED

24	(18) A-ADDRESS	4	SSNQDSNP	ADDR DNAME BUFFER

28	(1C) A-ADDRESS	4	SSNQFLGP	ADDR FLAG FIELD

32	(20) SIGNED	4	SSNQRSV1	RESERVED

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
---------	------	--------	------	-------------

=====

DYNAMIC DEVICE RECONFIGURATION/JES3 EXIT FUNCTIONS
DYNAMIC DEVICE RECONFIGURATION JES3 FUNCTION IDS (SSOBFUNC)

...1 11..			SSOBDDR1	28 DDR DEVICE CANDIDATE SELECTION FUNCTION
...1 11.1			SSOBDDR2	29 DDR DEVICE CANDIDATE VERIFICATION FUNCTION
...1 111.			SSOBDDR3	30 DDR UCB SWAP NOTIFICATION FUNCTION
...1 1111			SSOBDDR4	31 DDR SWAP COMPLETION FUNCTION

=====

DYNAMIC DEVICE RECONFIGURATION/JES3 RETURN CODES (SSOBRETN)
RETURN CODES FOR SSOBDDR1 FUNCTION

....			SSDR1EDL	0 LIST OF ELIGIBLE DEVICES IS RETURNED
.... .1..			SSDR1IDL	4 LIST OF INELIGIBLE DEVICES IS RETURNED
.... 1...			SSDR1NOL	8 NO LIST RETURNED, NO MORE DEVICES ELIGIBLE

=====

RETURN CODES FOR SSOBDDR2 FUNCTION

....			SSDR2ED	0 CANDIDATE IS AN ELIGIBLE DEVICE
.... .1..			SSDR2ID	4 CANDIDATE IS AN INELIGIBLE DEVICE

=====

RETURN CODES FOR SSOBDDR3 FUNCTION
NO SSOBDDR3 RETURN CODES CURRENTLY DEFINED
RETURN CODES FOR SSOBDDR4 FUNCTION
NO SSOBDDR4 RETURN CODES CURRENTLY DEFINED

20	(14)	A-ADDRESS	2	SSDRLEN	SSDR EXTENSION LENGTH
22	(16)	BITSTRING	1	SSDRFLG1	SSDR FLAG BYTE FUNCTION 1&2
23	(17)	BITSTRING	1	SSDRFLG2	SSDR FLAG BYTE FUNCTION 3&4

SSOB

SSOB

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... 1...			SSDR4SWP	X'08' FOR FUNCTION SSOBDDR4 ONLY IF ON SWAP SUCCESSFUL IF OFF SWAP UNSUCCESSFUL
24	(18) A-ADDRESS	4	SSDRSFRU	POINTER TO SWAP FROM UCB
28	(1C) A-ADDRESS	4	SSDRSTOU	POINTER TO SWAP TO UCB
32	(20) A-ADDRESS	4	SSDRUCBL	POINTER TO JES3 UCB LIST (1/2 WORDS FOLLOWED BY X'FFFF')

=====

FAILING SVC 34 COMMAND FUNCTION

..1.			SSOBCFCD	32 COMMAND FAIL FUNCTION (SSOBFUNC)
-----------	--	--	----------	-------------------------------------------

=====

COMMAND FAIL RETURN CODES (SSOBRETN)

....			SSOBCFOK	0 ISSUE SVC34 COMMAND ABORTED MESSAGE
.... .1..			SSOBCFNO	4 SUPPRESS ISSUING SVC34 COMMAND ABORTED MESSAGE
20	(14) A-ADDRESS	2	SSCFLEN	SSFC EXTENSION LENGTH
22	(16) SIGNED	2	SSCFRSV0	RESERVED
24	(18) A-ADDRESS	4	SSCFBFAD	ADDRESS OF COMMAND BUFFER
28	(1C) SIGNED	4	SSCFMRRC	RETURN CODE FROM MEMORY REQUEST, OR CSCB CREATION FAILURE CODE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
MEMORY REQUEST RETURN CODES AND FAILURE CODES				
....			SSCFMROK	0 MEMORY REQUEST SUCCESSFUL
.... .1..			SSCFSRMN	4 SRM PROHIBITS ADDRESS SPACE CREATION
.... 1...			SSCFNORS	8 RESOURCES NOT AVAILABLE (INSUFFICIENT SQA OR NO ASID AVAILABLE)
.... 11..			SSCFABND	12 UNEXPECTED ABEND IN MEMORY REQUEST
...1.			SSCFCSFL	32 CSCB CREATION FAILURE CODE

32	(20) SIGNED	4	SSCFRSV1	RESERVED
=====				
MASS STORAGEVOLUME CONTROL JES3 EXIT FUNCTION				
...1. ...11			SSOBMSVC	35 MSS VOLUME CONTROL FUNCTION ID(SSOBFUNC)
...1. .1.1			SSOBOEOV	37 OPEN/EOV FUNCTION ID(SSOBFUNC)
=====				
MSS VOLUME CONTROL RETURN CODES				
....			SSMOVOLA	0 VOLUME AVAILABLE RETURN CODE
.... .1..			SSMOVOLB	4 VOLUME BUSY RETURN CODE

20	(14) A-ADDRESS	2	SSMOLEN	MSS VOL CNTR EXTENSION SIZE
22	(16) HEX	1	SSMOFLG1	SSMO FLAG BYTE
	1...		SSMOOPEN	X'80' SSI INVOKED BY OPEN
	.1..		SSMOFINL	X'40' FINAL CALL FROM OPEN/EOV
	..1.		SSMOSCR	X'20' DADSM SCRATCH IF ON
	...1		SSMORUSE	X'10' JES3 SHOULD TRY FOR VOLUME REUSE AND SWITCH SGD'S IF NEEDED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... 1...		SSMOMNTD	X'08' MSVC SHOWS VOLUME MOUNTED TO ANY HOST RESERVED
23	(17) HEX	1	SSMORSV0	
24	(18) A-ADDRESS	4	SSMOPNAM	POINTER TO JOBNAME
28	(1C) A-ADDRESS	4	SSMOPSTN	POINTER TO STEP NUMBER
32	(20) A-ADDRESS	4	SSMOPUAD	POINTER TO UNIT ADDRESS
36	(24) A-ADDRESS	4	SSMOPVOL	POINTER TO VOLUME SERIAL
40	(28) A-ADDRESS	4	SSMOPDDN	POINTER TO DDNAME
44	(2C) A-ADDRESS	4	SSMOPRPN	POINTER TO RELATIVE POS NUMBER

=====

MSSC MESSAGE TASK JES3 EXIT

	..1. .1..		SSOBMSSC	36 MSSC MSG TASK ID(SSOBFUNC)
20	(14) A-ADDRESS	2	SSMSLEN	MSSC MESSAGE TASK EXT SIZE RESERVED
22	(16) SIGNED	2	SSMSRSV0	
24	(18) A-ADDRESS	4	SSMSPSDG	POINTER TO THE SORTED SDG
28	(1C) A-ADDRESS	4	SSMSPLRU	POINTER TO FIRST SDG WITH LRU

=====

SUBSYS KEYWORD CONVERTER EXIT

	..1. .11.		SSOBCONV	38 CONVERTER SUBSYS EXIT (SSOBFUNC)
--	-----------	--	----------	-------------------------------------------

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
=====				
CONVERTER EXIT RETURN CODES (SSOBRETN)				
.....	.....		SSCIRTOK	0 SUCCESSFUL SYNTAX CHECK
.....	.1..		SSCICMOD	4 SUCCESSFUL-INTERNAL TEXT MODIFIED
.....	1...		SSCISYNC	8 SYNTACTICAL ERROR CONTINUE JOB
.....	11..		SSCISYNT	12 SYNTACTICAL ERROR TERMINATE JOB
..1.	.1..		SSCIPERR	36 PROGRAM ERROR IN ROUTINE

20	(14) A-ADDRESS	2	SSCILEN	CONVERTER EXTENSION SIZE
22	(16) HEX	1	SSCIFLG1	FLAGS RESERVED
23	(17) HEX	1	SSCIFLG2	FLAGS RESERVED

24	(18) A-ADDRESS	4	SSCIINTP	ADDRESS INTERNAL TEXT OF JCL STMT

28	(1C) A-ADDRESS	4	SSCISUBS	ADDRESS OF FIRST SUBSYS LEN/PARM

32	(20) SIGNED	2	SSCIMLEN	MAX LENGTH OF MESSAGE
34	(22) SIGNED	2	SSCINPRM	NUMBER OF LENGTH/PARM PAIRS IN SUBSYSTEM DATA

36	(24) A-ADDRESS	4	SSCIMPTR	POINTER TO MESSAGE AREA

40	(28) CHARACTER	4	SSCISSNM	SUBSYSTEM NAME
=====				

ERROR MESSAGE PROCESSING

FIELD SSCIMPTR POINTS TO A MESSAGE AREA CREATED BY THE CALLER IN WHICH THE SUBSYSTEM IS TO RETURN ERROR MESSAGES.

EACH MESSAGE AREA CONSISTS OF A 2 BYTE LENGTH FOLLOWED BY A MESSAGE TEXT AREA OF LENGTH DEFINED IN SSCIMLEN. A MESSAGE IS TO BE RETURNED WHEN A NON-ZERO SSOBRETN IS RETURNED BY THE SUBSYSTEM.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
ALLOCATION GROUPING OF SUBSYS DD REQUEST				
..1.	.111		SSOBAGRP	39 GROUP SUBSYS REQUEST(SSOBFUN C)
=====				

ALLOCATION GROUP RETURN CODES (SSOBRETN)

....	....		SSAGRTOK	0 ALL REQUESTS ALLOCATED
....	.1..		SSAGDDE	4 NO ALLOCATION-ONE OR MORE REQUESTS IN ERROR SSAGRBE IS TO BE SET FOR THE REQUESTS IN ERROR
....	1...		SSAGGPER	8 NO ALLOCATION-GROU P IN ERROR SSAGGPEC IS TO BE SET AND SSAGRBE MAY OPTIONALLY BE SET

=====

THE FOLLOWING RETURN CODES WILL BE RETURNED BY THE SUBSYSTEM IN FIELDS SSAGGPEC AND SSAGRBE.

FIELD SSAGGPEC (AND OPTIONALLY SSAGRBE) IS TO BE SET WHEN SSAGGPER IS RETURNED IN SSOBRETN.

FIELD SSAGRBE CORRESPONDING TO THE REQUEST(S) IN ERROR IS TO BE SET WHEN SSAGDDE IS RETURNED IN SSOBRETN.

THE ASSOCIATED FIELDS SSAGGPIC AND SSAGRBIC ARE TO BE SET TO SUBSYSTEM DEFINED VALUES THAT WILL BE RETURNED AS DYNAMIC ALLOCATION INFORMATIONAL REASON CODES.
ERROR MESSAGE PROCESSING

WHEN SSAGSMG IS SET BY THE CALLER FIELDS SSAGGMP AND SSAGDMGP WILL EACH CONTAIN A POINTER TO AN AREA IN WHICH THE SUBSYSTEM IS TO RETURN SUBSYSTEM DEFINED ERROR MESSAGES CORRESPONDING TO THE VALUES SET IN FIELDS SSAGGPIC AND SSAGRBIC.

EACH MESSAGE AREA CONSISTS OF A 2 BYTE LENGTH FOLLOWED BY A MESSAGE TEXT AREA OF LENGTH DEFINED IN SSAGGMLN AND SSAGDMLN. THE MESSAGE AREA IS NOT INITIALIZED BY THE CALLER AND THE SUBSYSTEM MUST SET THE LENGTH OF THE MESSAGE TEXT RETURNED. BLANKS WILL BE COMPRESSED BY THE CALLER.

MESSAGES ARE TO BE RETURNED ONLY FOR REQUESTS THAT ARE IN ERROR.

NOTE: FIELDS SSAGRBE, SSAGRBIC, SSAGDMGP, AND SSAGDMLN ARE DEFINED IN THE GROUP ALLOCATION REQUEST BLOCK, 'SSAGARBK' - MAPPED BY MACRO IEFSSARB.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
....			SSAGRQOK	0 REQUEST ALLOCATED
.... .1..			SSAGORUN	4 OPERATING SYSTEM RESOURCE NOT AVAILABLE
.... 1...			SSAGSRUN	8 SUBSYSTEM RESOURCE NOT AVAILABLE
.... 11..			SSAGIPRM	12 INVALID PARAMETER SPECIFIED
...1			SSAGIREQ	16 INVALID REQUEST
...1 .1..			SSAGCREQ	20 CANCEL REQUESTED
...1 1...			SSAGSSER	24 SUBSYSTEM LOGIC ERROR

20	(14) A-ADDRESS	2	SSAGLEN	EXTENSION SIZE
22	(16) BITSTRING	1	SSAGFLGS	FLAG BYTE
	1...		SSAGWAIT	X'80' OK TO WAIT
	.1...		SSAGSMMSG	X'40' SUBSYSTEM TO RETURN ERROR MESSAGES
	..1.		SSAGRSV1	X'20' RESERVED FLAG
	...1		SSAGRSV2	X'10' RESERVED FLAG
	.... 1...		SSAGRSV3	X'08' RESERVED FLAG
	.... .1..		SSAGRSV4	X'04' RESERVED FLAG
	.... ..1.		SSAGRSV5	X'02' RESERVED FLAG
	.... ...1		SSAGRSV6	X'01' RESERVED FLAG
23	(17) HEX	1	SSAGFLG2	RESERVED

24	(18) SIGNED	2	SSAGGPEC	GROUP(STEP) LEVEL ERROR CODE
26	(1A) SIGNED	2	SSAGGPIC	GROUP(STEP) LEVEL INFO CODE

28	(1C) A-ADDRESS	4	SSAGARBP	POINTER TO FIRST RB

32	(20) A-ADDRESS	4	SSAGCNCL	ADDRESS OF CANCEL ECB

36	(24) A-ADDRESS	4	SSAGJBHM	ADDRESS OF JOB NAME

40	(28) A-ADDRESS	4	SSAGGMLN	MAXIMUM LENGTH OF GROUP LEVEL MESSAGE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
44	(2C) A-ADDRESS	4	SSAGGMGP	ADDRESS OF GROUP LEVEL MSG BLOCK

CROSS REFERENCE

SSAGARBP	28 (1C)	SSCAPDSN	32 (20)
SSAGCNCL	32 (20)	SSCAPFLG	48 (30)
SSAGCREQ	44 X'14'	SSCAPNUN	40 (28)
SSAGDDER	44 X'04'	SSCAPRPN	36 (24)
SSAGFLGS	22 (16)	SSCAPSTN	24 (18)
SSAGFLG2	23 (17)	SSCAPUAR	44 (2C)
SSAGGMGP	44 (2C)	SSCARSV0	22 (16)
SSAGGMLN	40 (28)	SSCFABND	28 X'0C'
SSAGGPEC	24 (18)	SSCFBFAD	24 (18)
SSAGGPER	44 X'08'	SSCFCSFL	28 X'20'
SSAGGPIC	26 (1A)	SSCFLEN	20 (14)
SSAGIPRM	44 X'0C'	SSCFMROC	28 X'00'
SSAGIREQ	44 X'10'	SSCFMRRC	28 (1C)
SSAGJBHM	36 (24)	SSCFNORS	28 X'08'
SSAGLEN	20 (14)	SSCFRSV0	22 (16)
SSAGORUN	44 X'04'	SSCFRSV1	32 (20)
SSAGRQOK	44 X'00'	SSCFSRMN	28 X'04'
SSAGRSV1	22 X'20'	SSCICHOD	32 X'04'
SSAGRSV2	22 X'10'	SSCIFLG1	22 (16)
SSAGRSV3	22 X'08'	SSCIFLG2	23 (17)
SSAGRSV4	22 X'04'	SSCIINTP	24 (18)
SSAGRSV5	22 X'02'	SSCILEN	20 (14)
SSAGRSV6	22 X'01'	SSCIMLEN	32 (20)
SSAGRTOK	44 X'00'	SSCIMPTR	36 (24)
SSAGSMMSG	22 X'40'	SSCINFRM	34 (22)
SSAGSRUN	44 X'08'	SSCIPERR	32 X'24'
SSAGSSER	44 X'18'	SSCIRTOK	32 X'00'
SSAGWAIT	22 X'80'	SSCISSNM	40 (28)
SSALADSP	60 (3C)	SSCISUBS	28 (1C)
SSALASNM	22 X'02'	SSCISYNC	32 X'08'
SSALCLAS	56 (38)	SSCISYNT	32 X'0C'
SSALCNCL	80 (50)	SSCHBUFF	24 (18)
SSALCOPY	64 (40)	SSCHMSG	36 X'08'
SSALCREQ	78 X'08'	SSCHLEN	20 (14)
SSALDDNM	24 (18)	SSCHRESV	22 (16)
SSALDELT	22 X'80'	SSCHSCID	28 (1C)
SSALDEST	28 (1C)	SSCHSCMD	36 X'00'
SSALDISP	32 (20)	SSCHSUBC	36 X'04'
SSALDUMY	36 (24)	SSCSARAY	44 (2C)
SSALFLG1	22 (16)	SSCSARID	44 (2C)
SSALFORM	52 (34)	SSCSBADI	140 X'08'
SSALHOLD	22 X'40'	SSCSCOUT	22 X'40'
SSALIDST	78 X'0C'	SSCSDIMP	40 (28)
SSALJFCB	72 (48)	SSCSDIMR	42 (2A)
SSALKEEP	22 X'01'	SSCSEXCC	52 X'40'
SSALLEN	20 (14)	SSCSFLGS	22 (16)
SSALNAUT	78 X'10'	SSCSFLG1	52 (34)
SSALNHLD	22 X'20'	SSCSHOLD	52 X'10'
SSALPGMN	48 (30)	SSCSICAN	140 X'1C'
SSALRSV2	23 (17)	SSCSJACT	52 X'80'
SSALRTOK	78 X'00'	SSCSJOBI	32 (20)
SSALSOUT	40 (28)	SSCSJOBN	24 (18)
SSALSPIN	22 X'04'	SSCSLEN	20 (14)
SSALSSCM	76 (4C)	SSCSMALL	140 X'10'
SSALSSNM	68 (44)	SSCSMPTR	56 (38)
SSALTRKM	22 X'08'	SSCSNCAN	140 X'0C'
SSALUNAL	78 X'14'	SSCSNOJB	140 X'04'
SSALUNIT	44 (2C)	SSCSOUTP	140 X'14'
SSALWAIT	22 X'10'	SSCSOUTQ	52 X'20'
SSALWTFI	78 X'04'	SSCSRSV2	54 (36)
SSCAALCA	36 X'00'	SSCSRTOK	140 X'00'
SSCAJESA	36 X'04'	SSCSSECL	52 X'08'
SSCALEN	20 (14)	SSCSUJOB	53 (35)
SSCAPDDN	28 (1C)	SSCSULEN	23 (17)

CROSS REFERENCE

SSCSUSID	22 X'80'	SSETASCB	32 (20)
SSCSYNTX	140 X'18'	SSETASID	24 (18)
SSCUFLGS	22 (16)	SSETCBA	28 (1C)
SSCULEN	20 (14)	SSETFLAG	26 (1A)
SSCULSCL	22 X'80'	SSETLEN	20 (14)
SSCUPAUR	36 (24)	SSETRSV0	22 (16)
SSCUPDDN	28 (1C)	SSETRSV1	27 (1B)
SSCUPRPN	32 (20)	SSETYPE	26 X'80'
SSCUPSTN	24 (18)	SSJSAIAD	56 (38)
SSCURSVF	22 X'7F'	SSJSAIFG	26 X'04'
SSCURSV0	23 (17)	SSJSCHRS	26 X'40'
SSCURSV1	40 (28)	SSJSCHRS	26 X'20'
SSDAAUTO	23 X'80'	SSJSFLG1	26 (1A)
SSDABUFR	24 (18)	SSJSIPRM	44 (2C)
SSDADEBP	32 (20)	SSJSISTP	36 X'04'
SSDADEFR	23 X'40'	SSJSJACB	36 (24)
SSDAJFCB	28 (1C)	SSJSJMR	48 (30)
SSDALEN	20 (14)	SSJSLCT	28 (1C)
SSDARESF	23 (17)	SSJSLN	20 (14)
SSDARESV	22 (16)	SSJSMACB	32 (20)
SSDASSCM	36 (24)	SSJSPASS	60 (3C)
SSDDLLEN	20 (14)	SSJSPAS2	69 (45)
SSDDNPNTR	28 (1C)	SSJSPERR	36 X'24'
SSDDNUMB	24 (18)	SSJSPSLN	60 (3C)
SSDDRSV0	22 (16)	SSJSPSL2	69 (45)
SSDDRSV1	32 (20)	SSJSPSWD	61 (3D)
SSDDMDCB	24 (18)	SSJSPSW2	70 (46)
SSDMFAIL	28 X'04'	SSJSRESV	22 (16)
SSDMLEN	20 (14)	SSJSRSV1	26 X'10'
SSDMOK	28 X'00'	SSJSRSV2	26 X'03'
SSDMRESV	22 (16)	SSJSRSV3	27 (1B)
SSDRFLG1	22 (16)	SSJSRTOK	36 X'00'
SSDRFLG2	23 (17)	SSJSSERR	52 (34)
SSDRLEN	20 (14)	SSJSSTEP	24 (18)
SSDRSFRU	24 (18)	SSJSSTRS	26 X'80'
SSDRSTOU	28 (1C)	SSJSTACB	40 (28)
SSDRUCBL	32 (20)	SSJSWARM	26 X'08'
SSDR1EDL	36 X'00'	SSJSYSER	36 X'10'
SSDR1IDL	36 X'04'	SSJTABND	22 X'20'
SSDR1NOL	36 X'08'	SSJTCFAL	22 X'40'
SSDR2ED	36 X'00'	SSJTFLG1	22 (16)
SSDR2ID	36 X'04'	SSJTJFAL	22 X'80'
SSDR4SWP	23 X'08'	SSJTJMR	24 (18)
SSDYCNCL	36 X'1C'	SSJTLEN	20 (14)
SSDYDBUS	36 X'10'	SSJTPCOD	28 (1C)
SSDYLEN	20 (14)	SSJTPERR	36 X'24'
SSDYNEDP	36 X'18'	SSJTPSN1	32 (20)
SSDYNUNT	36 X'14'	SSJTPSN2	36 (24)
SSDYPLFG	28 (1C)	SSJTRSV1	23 (17)
SSDYRSV0	22 (16)	SSJTSNUM	40 (28)
SSDYRSV1	32 (20)	SSMOFINL	22 X'40'
SSDYSIOT	24 (18)	SSMOFLG1	22 (16)
SSDYSUCC	36 X'00'	SSMOLEN	20 (14)
SSDYUNAV	36 X'0C'	SSMOINTD	22 X'08'
SSDYVBUS	36 X'08'	SSMOOPEN	22 X'80'
SSDYVNM:IT	36 X'04'	SSMOPDDN	40 (28)
SSENASCB	32 (20)	SSMOPNAM	24 (18)
SSENASID	24 (18)	SSMOPRPN	44 (2C)
SSENFLAG	26 (1A)	SSMOPSTN	28 (1C)
SSENJENM	28 (1C)	SSMOPUAD	32 (20)
SSENLEN	20 (14)	SSMOPVOL	36 (24)
SSENRESV	22 (16)	SSMORSV0	23 (17)
SSENRSV1	27 (1B)	SSMORUSE	22 X'10'
SSENTYPE	26 X'80'	SSMOSCR	22 X'20'

CROSS REFERENCE

SSNOVOLA	36 X'00'	SSRQHOLD	26 X'10'
SSNOVOLB	36 X'04'	SSRQLEN	20 (14)
SSMSLEN	20 (14)	SSRQPERR	44 X'24'
SSMSPLRU	28 (1C)	SSRQRESV	22 (16)
SSMSPSDG	24 (18)	SSRQRSV1	26 X'0F'
SSMSRSV0	22 (16)	SSRQRSV2	27 (1B)
SSNQDSNP	24 (18)	SSRQSTEP	24 (18)
SSNQFLGP	28 (1C)	SSRQSTRS	26 X'80'
SSNQLEN	20 (14)	SSRRFAIL	40 X'04'
SSNQRSV0	22 (16)	SSRRLEN	20 (14)
SSNQRSV1	32 (20)	SSRR0K	40 X'00'
SSOB	0 (0)	SSRRPERR	40 X'24'
SSOBAGRP	44 X'27'	SSRRRSV0	22 (16)
SSOBALOC	78 X'06'	SSRRSECB	24 (18)
SSOBCACD	36 X'18'	SSRTDIST	12 X'10'
SSOBCANC	140 X'02'	SSRTLERR	12 X'14'
SSOBCFCD	36 X'20'	SSRTHOSS	12 X'0C'
SSOBCFNO	36 X'04'	SSRTNSUP	12 X'04'
SSOBCFOK	36 X'00'	SSRTNTUP	12 X'08'
SSOBCKPT	28 X'12'	SSRTOK	12 X'00'
SSOBCLOS	28 X'11'	SSSILEN	20 (14)
SSOBCMND	36 X'0A'	SSSIPPSN	28 (1C)
SSOBCONS	36 X'21'	SSSIPSNM	24 (18)
SSOBCONV	32 X'26'	SSSIPSN0	32 (20)
SSOBCUCD	52 X'19'	SSSIRSV0	22 (16)
SSOBD0CD	44 X'1A'	SSSOCHKP	25 X'40'
SSOBD0R1	36 X'1C'	SSSOCLAS	44 (2C)
SSOBD0R2	36 X'1D'	SSSOCLSL	120 (78)
SSOBD0R3	36 X'1E'	SSSOCOPY	26 (1A)
SSOBD0R4	36 X'1F'	SSSOCTRL	25 X'80'
SSOBD0M	28 X'0E'	SSSOELC	22 X'40'
SSOBDYCD	36 X'17'	SSSODEST	48 (30)
SSOBE0M	84 X'08'	SSS0DSID	132 (84)
SSOBE0T	60 X'04'	SSS0DSH	72 (48)
SSOBFUNC	6 (6)	SSS0DST	24 X'20'
SSOBID	0 (0)	SSS0DUPJ	20 X'14'
SSOBINDV	16 (10)	SSSOE0DS	20 X'04'
SSOJB0SL	36 X'05'	SSSOFLG1	24 (18)
SSOBLEN	4 (4)	SSSOFLG2	25 (19)
SSOBMSSC	48 X'24'	SSSOFORM	116 (74)
SSOBMSVC	36 X'23'	SSSOHLD	24 X'80'
SSOBHQCD	36 X'1B'	SSSOHOLD	22 X'10'
SSOBNQND	36 X'04'	SSSOIDST	20 X'1C'
SSOBNQOK	36 X'00'	SSSOINVA	20 X'0C'
SSOBNSSI	28 X'16'	SSSOINVJ	20 X'18'
SSOBOEOV	36 X'25'	SSSOJOBI	36 (24)
SSOBOPEN	28 X'10'	SSSOJOBN	28 (1C)
SSOBRENQ	44 X'0D'	SSSOLEN	20 (14)
SSOBREST	28 X'13'	SSSONJOB	20 X'08'
SSOBRETN	12 (C)	SSSOPGIN	56 (38)
SSOBRQST	40 X'14'	SSSORBA	64 (40)
SSO3RTRN	40 X'15'	SSS0RESV	23 (17)
SSO3SOUT	20 X'01'	SSSORLSE	22 X'08'
SSOBSSIB	8 (8)	SSSOROUT	22 X'20'
SSOBSTAT	140 X'03'	SSSORSV2	24 X'01'
SSOSTERM	36 X'0C'	SSSORSV3	25 X'3F'
SSOBUHAL	78 X'07'	SSSORSV5	45 (2D)
SSOBU0SER	32 X'0B'	SSSORTOK	20 X'00'
SSOBVERS	28 X'0F'	SSS0SCLS	24 X'40'
SSOBWTL	36 X'22'	SSS0SETC	22 X'80'
SSOBWTO	36 X'09'	SSS0SFRM	24 X'02'
SSRQCCHR5	26 X'40'	SSS0SJBI	24 X'08'
SSRQCCHR5	26 X'20'	SSS0SJBN	24 X'10'
SSRQFLG1	26 (1A)	SSS0SPGM	24 X'04'

CROSS REFERENCE

SSSOUFLG	22 (16)
SSSOUHAV	20 X'10'
SSSQWTRC	128 (80)
SSUSINCP	32 X'08'
SSUSLEN	20 (14)
SSUSHOUS	32 X'04'
SSUSRESV	22 (16)
SSUSRSV1	24 (18)
SSUSRTOK	32 X'00'
SSUSUSER	28 (1C)
SSVSFLG1	22 (16)
SSVSFLG2	23 (17)
SSVJBHM	28 X'04'
SSVLEN	20 (14)
SSVSSCTP	24 (18)
SSVSSNAM	28 X'00'
SSVSUPSS	22 X'80'
SSWTLEN	20 (14)
SSWTMIN	28 (1C)
SSWTHDSP	36 X'04'
SSWTORE	32 (20)
SSWTRESV	22 (16)
SSWTRTOK	36 X'00'
SSWTRQE	24 (18)

SSRBCommon Name: Suspended Service Request BlockMacro ID: IHASSRBDSECT Name: SSRBSECTCreated by: Program FLIH and lock manager when an SRB is to be suspendedSubpool and Key: 245 and key 0Size: 753 bytesPointed to by: SPL or service management queuesSerialization: SRBFLNK - compare & swap, all others - owner serializedFunction: Used to save PSW, registers and FRR stack when an SRB has to be suspended for a page fault or locking purposes.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0)	STRUCTURE	0 SRBSECT	

0	(0)	A-ADDRESS	4 SRB	

0	(0)	CHARACTER	4 SRBID	EBCDIC ACRONYM FOR SRB

4	(4)	A-ADDRESS	4 SRBFLNK	FORWARD CHAIN FIELD

8	(8)	A-ADDRESS	4 SRBASCB	PTR TO ASCB OF ADDRESS SPACE SRB IS TO BE DISPATCHED TO

12	(C)	CHARACTER	8 SRBFLC	SRB AREA MOVED TO LOW CORE

12	(C)	BITSTRING	2 SRBCPAFF	CPU AFFINITY MASK
14	(E)	SIGNED	2 SRBPASID	PURGEDQ ASID IDENTIFIER

16	(10)	A-ADDRESS	4 SRBPTCB	PURGEDQ TCB IDENTIFIER

20	(14)	A-ADDRESS	4 SRBEP	ENTRY POINT OF ROUTINE

24	(18)	A-ADDRESS	4 SRBRMTR	ADDRESS OF RESOURCE MGR RTN

28	(1C)	A-ADDRESS	4 SRBPARAM	USER PARAMETER

32	(20)	A-ADDRESS	4 SRBSAVE	SAVE AREA POINTER

36	(24)	BITSTRING	1 SRBPKF	PROTECT KEY INDICATION
37	(25)	BITSTRING	1 SRBPRIOR	PRIORITY LEVEL INDICATION
	....	....	SRBPSYS	0 SYSTEM PRIORITY LEVEL

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... .1..		SRBPNONQ	4 NON-QUIESCEABLE PRIORITY RESERVED
38	(26) BITSTRING	2		RESERVED
40	(28) A-ADDRESS	4		RESERVED
48	(30) FLOATING	8	SSRB	START OF SAVE AREA PORTION
48	(30) FLOATING	8	SSRBCPSW	VALUE OF CURRENT TCB
56	(38) CHARACTER	32	SSRBFPRS	FLOATING POINT REG SAVE AREA
56	(38) FLOATING	8	SSRBFPR0	FLOATING POINT REG 0
64	(40) FLOATING	8	SSRBFPR2	FLOATING POINT REG 2
72	(48) FLOATING	8	SSRBFPR4	FLOATING POINT REG 4
80	(50) FLOATING	8	SSRBFPR6	FLOATING POINT REG 6
88	(58) CHARACTER	64	SSRBGPRS	GENERAL REGISTER SAVE AREA
152	(98) SIGNED	4	SSRBTRAN	PAGE FAULT ADDRESS(FLIH ONLY)
156	(9C) CHARACTER	596	SSRBFRRS	FRR STACK SAVE AREA
752	(2F0) HEX	1	SSRBFLG1	STATUS ATTRIBUTES
	1... ..		SSRBLLH	X'80' LOCAL LOCK WAS HELD BY SRB
	.1... ..		SSRBMMAIN	X'40' SSRB MUST BE FREEMAINED

SSVT

Common Name: Subsystem Vector Table

Macro ID: IEFJSSVT

DSECT Name: SSVT

Created by: Subsystem owning the SSVT, at initialization of subsystem

Subpool and Key: Any - determined by subsystem

Size: 364 bytes

Pointed to by: SSVTSSVT field of the SSCVT data area

Serialization: None

Function: Contains the indications of functions of a subsystem and the addresses of the routines that perform those functions.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	260	SSVT	
0	(0) UNKNOWN	260	SSVTFSIZ	SSVT FIXED AREA SIZE
0	(0) UNKNOWN	2	SSVTRSV1	RESERVED
2	(2) UNKNOWN	2	SSVTFNUM	NUMBER OF FUNCTIONS SUPPORTED BY THIS SUBSYSTEM

=====

256 BYTE FUNCTION MATRIX

THE SSOB FUNCTION ID IS USED AS A SUBSCRIPT INTO THIS MATR
MATRIX FUNCTION BYTE =0 : THE FUNCTION SPECIFIED IN THE
SSOB IS NOT SUPPORTED BY THIS
SUBSYSTEM.

MATRIX FUNCTION BYTE ~0 : THE VALUE IN THE FUNCTION BYT
IS USED AS A SUBSCRIPT INTO
SSVTFRTN TO OBTAIN THE
ADDRESS OF THE WORD
CONTAINING THE FUNCTION ROUTINE
POINTER FOR THIS REQUEST

4	(4) UNKNOWN	256	SSVTFCOD	FUNCTION MATRIX
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OFFSETS TYPE LENGTH NAME DESCRIPTION

=====

SSVTFRTN IS THE FIRST WORD OF A VARIABLE LENGHT MATRIX CONTA
FUNCTION ROUTINE POINTERS FOR FUNCTIONS SUPPORTED BY THIS
SUBSYSTEM. THE MATRIX CAN BE A MAXIMUM OF 256 WORDS LONG.

260	(104)	UNKNOWN	0	SSVTFRTN	FUNCTION POINTER
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SSWACommon Name: Subsystem Scheduler Work AreaMacro ID: IEFJSSWADSECT Name: SSWACreated by: IEFVDA, IEFDB414Subpool and Key: SWA (Subpool 236 or 237) and Key 1Size: Variable lengthPointed to by: SIOTSSWA field of the SIOT data area
SSAGSSWA field of the SSARB data areaSerialization: NoneFunction: Contains the data coded as part of a SUBSYS DD card or its dynamic allocation equivalent.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	9	SSWA	SUBSYSTEM SCHEDULER WORK AREA
0	(0) UNKNOWN	8	SSWAHDR	FIXED LENGTH HEADER
0	(0) UNKNOWN	2	SSWATYPE	TYPE FIELD
2	(2) UNKNOWN	4	SSWASSNM	SUBSYSTEM NAME
6	(6) UNKNOWN	2	SSWAPRNO	NO OF LEN-PARM PAIRS2G29AN2F
8	(8) UNKNOWN	1	SSWAPREN	FIRST LEN-PARM ENTRY2G29AN2F
8	(8) UNKNOWN	1	SSWAPLEN	LENGTH OF FIRST (OR ONLY) PARAMETER
9	(9) UNKNOWN	0	SSWAPVAL	VALUE OF FIRST (OR ONLY) PARAMETER
0	(0) UNKNOWN	1	SSWAIFLD	INDIVIDUAL LEN-PARM PAIR MAP
0	(0) UNKNOWN	1	SSWAILEN	LEN OF PARM ITEM
1	(1) UNKNOWN	0	SSWAIPRM	VALUE OF PARM ITEM

SVCTABLECommon Name: SVC Table EntryMacro ID: IHASVCDSECT Name: SVCCreated by: SysgenSubpool and Key: NUCLEUS and key 0Size: 8 bytes per entryPointed to by: SCVSVCT field of the SCVT data areaSerialization: NoneFunction: Each entry contains information for a particular SVC function--the SVC entry point address, type, APF authorized, and locks needed before the module can be executed.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	SVCENTRY	
0	(0) A-ADDRESS	4	SVCEP	SVC ENTRY POINT ADDRESS
4	(4) SIGNED	2	SVCATTR1	ATTRIBUTES
....	....		SVCTP1	X'00' TYPE 1 SVC
1...	....		SVCTP2	X'80' TYPE 2 SVC
11..	....		SVCTP34	X'C0' TYPE 3 OR 4 SVC
..1.	....		SVCTP6	X'20' TYPE 6 SVC
....	1..		SVCAPF	X'08' APF AUTHORIZED
....	.1..		SVCESR	1-AUTHORIZED X'04' SVC IS A PART OF THE
....	..1.		SVCNP	ESR X'02' NON-PREEMPTIVE SVC
6	(6) SIGNED	2	SVCLOCKS	LOCK
1...	....		SVCLL	ATTRIBUTES X'80' LOCAL LOCK NEEDED
.1..	....		SVCCMS	X'40' CMS LOCK NEEDED
..1.	....		SVCOPT	X'20' OPT LOCK NEEDED
...1	....		SVCALLOC	X'10' SALLOC LOCK NEEDED
....	1..		SVCDISP	X'08' DISP LOCK NEEDED

TAXE

Common Name: TSO Terminal Attention Exit Element

Macro ID: IKJTAXE

DSECT Name: TAXE

Created by: IEAVAX00

Subpool and Key: 253 and Key 0

Size: 98 bytes

Pointed to by: RCTDTAXE field of the RCTD data area.

Serialization: Local lock

Function: This data area consists of an IRB, an IQE, and a work area. It maps an entire TAXE (with the exception of the RB prefix, because of its varying size and since it is not required when referencing the TAXE). The TAXE contains information necessary for scheduling attention exits and is used to queue STAX exit requests.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	144	TAXE	
=====				
STANDARD IRB *****				
0	(0) UNKNOWN	96	TAXEIRB	IRB
96	(60) UNKNOWN	4	TAXENIQE	PTR NEXT AVAILABLE IQE
=====				
STANDARD IQE *****				
100	(64) UNKNOWN	44	TAXEWORK	LABEL USED WHEN CLEARING WORK AREA Y02752
100	(64) UNKNOWN	4	TIQELNK	ADDR OF NEXT IQE ON IQE QUEUE Y02752
104	(68) UNKNOWN	4	TIQEPARM	PARM TO ASYNCHRONOUS EXIT ROUTINE Y02752
108	(6C) UNKNOWN	4	TIQEIRB	ADDR OF IRB TO BE SCHD. Y02752
112	(70) UNKNOWN	4	TAXETCB	PTR TO TCB Y02752

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
WORK AREA OF IRB *****				
116	(74) UNKNOWN	1		Z
117	(75) UNKNOWN	3	TAXELNK	PTR TO NEXT TAXE ON QUE Z
120	(78) UNKNOWN	4		RESERVED Y02752
124	(7C) UNKNOWN	4	TAXEEXIT	PTR TO USER ATTENTION EXIT ROUTINE Y02752
128	(80) UNKNOWN	4	TAXEPARM	PTR TO PARAMETER LIST TO STAX Y02752
128	(80) UNKNOWN	1	TAXESTAT	STATUS OF PROGRAM ISSUING THE STAX SVC Y02752
	1... ..		TAXEFKEY	STATUS FLAG FOR PROB KEY Y02752
	.1... ..		TAXEFMOD	STATUS FLAG FOR PROB MODE Y02752
	..1.		TAXEFREQ	STATUS FLAG FOR REQUESTED TAXE Y02752
	...1		TAXERESH	ON-ATTENTION PROLOGUE MUST NOT GO TO USER ATTENTION EXIT Y02752
	.... 1...		TAXESCHD	ON-TAXE HAS BEEN SCHEDULED BUT IS NOT IN USER CODE Y02752
	.... .1..		TAXEATTN	ON-ATTN IN EFFECT FOR CLIST RESERVED
129	(81) UNKNOWN	3	TAXESTAX	ADDRESS (24 BIT) TO PARM LIST TO STAX Y02752
132	(84) UNKNOWN	4	TAXETAIE	PTR TO TAIE Y02752
136	(88) UNKNOWN	4	TAXEIBUF	PTR TO USER INPUT BUFFER Y02752
=====				

TAXE

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Data Area Descriptions 345

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
140	(8C) UNKNOWN	4	TAXEUSER	PTR TO USER PARAMETER Y02752

144	(90) UNKNOWN	0	TAXEEND	TAXE WILL BE IN DBL WDS Y02752

TCAST

Common Name: TCAS Table

Macro ID: IKTTCAST

DSECT Name: TCAST

Created by: TCAS routine IKTCAS53

Subpool and Key: 231 and key 6

Size: 136 bytes

Pointed to by: CVTTCASP field of the CVT data area

TWATCAST field of the TWAR data area

Serialization: Compare & swap logic

Function: The TCAST is the primary control block for TSO/VTAM time sharing. It provides information and pointers for TCAS and VTIOC routines.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	136	TCAST	
0	(0) UNKNOWN	4	TCASID	'TCAS' EBCDIC IDENTIFIER
4	(4) UNKNOWN	4	TCASUSER	FULLWORD CONTAINING TCASUSEC FOR COMPARE AND SWAP
4	(4) UNKNOWN	2	TCASUSEC	NUMBER OF CURRENTLY ACTIVE USERS
6	(6) UNKNOWN	2	TCASUMAX	MAXIMUM NUMBER OF USERS ALLOWED
8	(8) UNKNOWN	8	TCASACBP	ACB PASSWORD
16	(10) UNKNOWN	2	TCASRCON	RECONNECT TIME INTERVAL IN MINUTES
18	(12) UNKNOWN	2	TCASCLSZ	CELL SIZE
20	(14) UNKNOWN	4	TCASHBUF	HIGH BUFFER THRESHOLD
24	(18) UNKNOWN	4	TCASLBUF	LOW BUFFER THRESHOLD
28	(1C) UNKNOWN	2	TCASCRSZ	3270 SCREEN SIZE
30	(1E) UNKNOWN	1	TCASCHNL	MAXIMUM CHAIN LENGTH IN RU'S RESERVED
31	(1F) UNKNOWN	1		
32	(20) UNKNOWN	8	TCASID	SYMBOLIC TERMINAL IDENTIFIER
40	(28) UNKNOWN	4	TCASXECB	CROSS MEMORY SYNC ECB

TCAST

TCAST
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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
44	(2C) UNKNOWN	4	TCASDATI	ADDR 3270 INPUT DATA ROUTINE
48	(30) UNKNOWN	4	TCASDATO	ADDR 3270 OUTPUT DATA ROUTINE
52	(34) UNKNOWN	4	TCASMSG5	POINTER TO LPALIB MESSAGE MODULE
56	(38) UNKNOWN	4	TCASFRR	ADDR I/O FRR RTN IKTIOFRR
60	(3C) UNKNOWN	4	TCASHA	POINTER TO TCAS WOPK AREA
64	(40) UNKNOWN	4	TCASTTL	POINTER TO 'TIM/TOM' LIST
68	(44) UNKNOWN	4	TCASSTB	POINTER TO FIRST TSO/VTAM TSB
72	(48) UNKNOWN	4	TCASIQM	POINTER TO INPUT QUEUE MANAGER
76	(4C) UNKNOWN	4	TCASOQM	POINTER TO OUTPUT QUEUE MANAGER
80	(50) UNKNOWN	4	TCASEXIT	ADDR 3270 EXIT RTN IKTEXIT@G58AK3A
84	(54) UNKNOWN	4	TCASLTE	POINTER TO LOSTERM EXIT
88	(58) UNKNOWN	1	TCASFLG1	FIRST TCAST FLAG BYTE
	1... ..		TCASBKMD	TERMINAL HAS BREAK MODE
	.1.. ..		TCASMDSW	BREAK MODE SWITCH ALLOWED
	..1.		TCASABND	TCAS ABENDED
	...1			RESERVED
	.... 1..		TCASNACT	TCAS NOT ACTIVE
	.... .111			RESERVED
89	(59) UNKNOWN	1	TCASFLG2	SECOND TCAST FLAG BYTE
89	(59) UNKNOWN	1		RESERVED
90	(5A) UNKNOWN	2		RESERVED
92	(5C) UNKNOWN	4	TCASASCB	POINTER TO TCAS ASCB
96	(60) UNKNOWN	2		RESERVED
98	(62) UNKNOWN	2		RESERVED

TCAST

TCAST

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
100	(64) UNKNOWN	2		RESERVED
102	(66) UNKNOWN	2		RESERVED
104	(68) UNKNOWN	4	TCASTTQH	POINTER TO FIRST TERM CHTL WORK ELEMENT
108	(6C) UNKNOWN	4	TCASASCI	POINTER TO ASCII TRANSLATE TABLE
112	(70) UNKNOWN	4	TCASATTN	ADDR 3270 ATTN RTN IKTATTN@G58AK3A
116	(74) UNKNOWN	2	TCASBR14	BR 14 INSTRUCTION FOR SRB RMPL ADDRESS
118	(76) UNKNOWN	2		RESERVED
120	(78) UNKNOWN	4	TCASOMJR	POINTER TO OUTPUT MANAGER JR
124	(7C) UNKNOWN	4		RESERVED
128	(80) UNKNOWN	4	TCASSCHD	PTR LOST TERM EXIT SCHED
132	(84) UNKNOWN	4	TCASDUMP	PT VTAM RETURN CODE TABLE
136	(88) UNKNOWN	0	TCASTEND	END OF TCAST

TCB

Common Name: Task Control Block

Macro ID: IKJTBC

DSECT Name: TCBFIX (DSECT card precedes prefix). The label, TCB, should be used in the USING statement for the TCB proper.

TCBXTNT2 is DSECT name for common extension.

Created by: SYSGEN, ATTACH

Subpool and Key: 253 and Key 0

Size: 360 bytes

Pointed to by: ASMTCBPT field of the ASMVT data area
ASXBFTCB field of the ASXB data area (first TCB)
ASXBLTCB field of the ASXB data area (last TCB)
CVTSLIDA field of the CVT data area (supervisor lock TCB)
CVTWTTCB field of the CVT data area (dummy WAIT TCB)
DEBTCBAD field of the DEB data area
DSABTCBP field of the DSAB data area
EVNTTCBP field of the EVNT data area
JSCBTCBP field of the JSCB data area (initiator TCB)
LCTTCBAD field of the LCT data area
ORETCB field of the ORE data area
PQETCB field of the PQE data area
PSATNEW field of the PSA data area (new TCB (to dispatch))
PSATOLD field of the PSA data area (current TCB dispatched)
QELTCB field of the QEL data area
QPLTCB field of the QPL data area
RBLINK field of the RB data area
RQETCB field of the RQE data area
SCVTCTCB field of the SCVT data area (Comm Task TCB)
SMCAHTCB field of the SMCA data area (SMF writer TCB)
SQETCB field of the SQE data area
SSETCBA field of the EOT SSOB data area (terminating TCB)
TAXETCB field of the TAXE data area
TCBTCB field of the TCB data area (next TCB)
TCBJSTCB field of the TCB data area (jobstep TCB)
TCBNTC field of the TCB data area (sister TCB)
TCBOTC field of the TCB data area (originating TCB)
TCBLTC field of the TCB data area (subtask TCB)
TCBACK field of the TCB data area (previous ready TCB)
TCCHTCB field of the TCCW data area
TCTTCB field of the TCT data area
TIOCLDS field of the TIOCRPT data area (line disconnect TCB)
TQETCB field of the TQE data area
TSBWTTCB field of the TSB data area (waiting TCB)
TSBCTCB field of the TSB data area (TPUT TCB)
UCMPXA field of the UCM data area (comm task

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
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TCB)
 WQETCB field of the WQE data area
 WQEJSTCB field of the WQE data area
 (associated jobstep TCB)

Serialization: Local lock (CS instruction for TCBACTIV, TCBS3A bits) TCB active, non-dispatchable

Function: The TCB contains information and pointers associated with a task in process. Various components of the control program place information in the TCB and obtain information on its location from it.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	TCBFIX	, TCBPTR-32
-32	(-20) CHARACTER	32	TCBFRS	FLOATING POINT REGISTER SAVE AREA
-32	(-20) FLOATING	8	TCBFRS0	SAVE AREA FOR FLOATING POINT REGISTER 0
-24	(-18) FLOATING	8	TCBFRS2	SAVE AREA FOR FLOATING POINT REGISTER 2
-16	(-10) FLOATING	8	TCBFRS4	SAVE AREA FOR FLOATING POINT REGISTER 4
-8	(-8) FLOATING	8	TCBFRS6	SAVE AREA FOR FLOATING POINT REGISTER 6

TCB PROPER

0	(0) FLOATING	8		
0	(0) A-ADDRESS	4	TCBRBP	ADDRESS OF THE RB FOR EXECUTING PROGRAM
4	(4) A-ADDRESS	4	TCBPIE	ADDRESS OF SPIE CONTROL AREA. THE FIRST WORD OF THIS AREA CONTAINS THE PROGRAM INTERRUPT ELEMENT (PIE) ADDRESS.
4	(4) BITSTRING	1	TCBPMASK	SPIE BITS

TCB

TCB
 Data Area Descriptions 351

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... 1111			TCBPM	X'0F' PROGRAM MASK AT TIME OF SPIE INITIATION. MASK RESTORED AT TIME OF SPIE NULLIFICATION.
5	(5) A-ADDRESS	3	TCBPIEA	ADDRESS OF SPIE CONTROL AREA. THE FIRST WORD OF THIS AREA CONTAINS THE PROGRAM INTERRUPT ELEMENT (PIE) ADDRESS.

8	(8) A-ADDRESS	4	TCBDEB	ADDRESS OF THE DEB QUEUE

12	(C) A-ADDRESS	4	TCBTIO	ADDRESS OF THE TASK I/O TABLE (TIOT)

16	(10) BITSTRING	4	TCBCMP	TASK COMPLETION CODE AND INDICATORS

16	(10) BITSTRING	1	TCBCMPF	INDICATOR FLAGS
	1...		TCBCREQ	X'80' A DUMP HAS BEEN REQUESTED
	.1..		TCBCSTEP	X'40' A STEP ABEND HAS BEEN REQUESTED
	..1.		TCBCPP	X'20' SOME PROGRAM STORAGE WAS OVERLAID BY THE SECOND LOAD OF ABEND. A FIRST LOAD OVERLAY IS INDICATED IN TCBFLGS FIELD (OFFSET 29 DECIMAL). (OS/VS1)
	...1.		TCBDMPO	X'20' DUMP OPTIONS WERE PROVIDED ON CALLRTH OR SETRP MACRO (OS/VS2)

TCB

TCB

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
...1			TCBSTCC	X'10' COMPLETION CODE IS NOT TO BE STORED IN TCBMP (OFFSET 17 DECIMAL) IF AN ABEND IS ENCOUNTERED. THIS IS TO PREVENT AN OVERLAY OF THE ORIGINAL COMPLETION CODE. (OS/VS1)
...1			TCBNOCC	X'10' A COMPLETION CODE WAS NOT PROVIDED ON CALLRTM MACRO. A DEFAULT CODE IS BEING USED. (OS/VS2)
.... 1...			TCBCDBL	X'08' A DOUBLE ABEND HAS OCCURRED (OS/VS1)
.... 1...			TCBCASID	X'08' ABEND WAS SCHEDULED VIA CROSS MEMORY ABTERM (OS/VS2)
.... .1..			TCBCWTO	X'04' A DUMP MESSAGE (WTO) IS TO BE ISSUED TO THE OPERATOR (OS/VS1)
.... .1..			TCBRV316	X'04',,C'X' RESERVED FOR CALLRTM FLAG (OS/VS2)
.... ..1.			TCBCIND	X'02' ABEND TO OUTPUT AN INDICATIVE DUMP (OS/VS1)
.... ..1.			TCBRV317	X'02',,C'X' RESERVED FOR CALLRTM FLAG (OS/VS2)
....1			TCBMSG	X'01' AN ABEND MESSAGE IS PROVIDED TO BE PRINTED BY ABDUMP (OS/VS1)
....1			TCBRV318	X'01',,C'X' RESERVED FOR CALLRTM FLAG (OS/VS2)

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
17	(11) BITSTRING	3	TCBCHPC	SYSTEM COMPLETION CODE IN FIRST 12 BITS, USER COMPLETION CODE IN LAST 12 BITS
<hr/>				
20	(14) A-ADDRESS	4	TCBTRN	ADDRESS OF TESTRAN CONTROL CORE TABLE
<hr/>				
20	(14) BITSTRING	1	TCBABF	FLAG BYTE
	1... ..		TCBMOD91	X'80' BOTH TESTRAN AND DECIMAL SIMULATOR ON A MOD 91
	.1.. ..		TCBNOCHK	X'40' SUPPRESS TAKING CHECKPOINTS FOR THIS STEP (JOB STEP TCB)
	..1.		TCBGRPH	X'20' THIS IS A GRAPHICS FOREGROUND JOB OR THE GRAPHIC JOB PROCESSOR
	...1		TCBRV01	X'10',,C'X' RESERVED
	.... 1...		TCBTCP	X'08' TCAM POST-PENDING (RORI)
	.... .1..		TCBTCP	X'04' TEST TASK USED BY TEST SVC
	.... ..1.		TCBOLTEP	X'02' OLTEP FUNCTIONS REQUIRE CLEANUP BEFORE ABNORMAL TERMINATION CAN BE INVOKED
	.... ...1		TCBRV02	X'01',,C'X' RESERVED
21	(15) A-ADDRESS	3	TCBTRNB	ADDRESS OF TESTRAN CONTROL CORE TABLE
<hr/>				
24	(18) A-ADDRESS	4	TCBMSS	FOR JOB STEP TCB, ADDRESS OF THE BOUNDARY BOX. FOR SUBTASK TCB, ADDRESS OF THE GOTTEN SUBTASK AREA QUEUE ELEMENT (GQE). A GQE IS PRESENT ONLY IF THE

TCB

TCB

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				SYSTEM HAS ISSUED A GETMAIN MACRO INSTRUCTION FOR THE SPACE. (OS/VS1) ADDRESS OF LAST SFQE ON MSS QUEUE (OS/VS2)
24	(18) HEX	1	TCBRV03	TCBNROC FIELD UNUSED IN OS/VS
25	(19) A-ADDRESS	3	TCBMSSB	FOR JOB STEP TCB, ADDRESS OF THE BOUNDARY BOX. FOR SUBTASK TCB, ADDRESS OF THE GOTTEN SUBTASK AREA QUEUE ELEMENT (GQE). A GQE IS PRESENT ONLY IF THE SYSTEM HAS ISSUED A GETHAIN MACRO INSTRUCTION FOR THE SPACE. (OS/VS1) ADDRESS OF LAST SPQE ON MSS QUEUE (OS/VS2)
28	(1C) BITSTRING	1	TCBPKF	STORAGE PROTECTION KEY FOR THIS TASK. IF THERE IS NO STORAGE PROTECTION, ALL BITS ARE ZERO.
	1111		TCBFLAG	X'F0' STORAGE PROTECTION KEY
	.... 1111		TCBZERO	X'0F' MUST BE ZERO
29	(1D) BITSTRING	5	TCBFLG5	FLAG BYTE FIELDS
29	(1D) BITSTRING	1	TCBFLG51	FIRST TCB FLAG BYTE
	1...		TCBFA	X'80' ABNORMAL TERMINATION IN PROGRESS
	.1...		TCBFE	X'40' NORMAL TERMINATION IN PROGRESS
	..1.		TCBFERA	X'20' ENTER ABEND ERASE ROUTINE WHEN IN CONTROL AGAIN (OS/VS2)

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
...1			TCBNONPR	X'10' TASK IS NON-PREEMPTABLE (OS/V52)
.... 1...			TCBPDUMP	X'08' PREVENT DUMP INDICATOR (OS/V52)
.... .1..			TCBFT	X'04' TOP TASK IN TREE BEING ABTERMED (OS/V52)
.... ..1.			TCBFS	X'02' ABTERM DUMP COMPLETED (OS/V52) PROGRAM STORAGE HAS BEEN OVERLAID TO PROCESS
....1			TCBFX	ABEND (OS/V51) X'01' PROHIBIT QUEUEING OF ASYNCHRONOUS EXITS FOR THIS TASK
30 (1E) BITSTRING		1	TCBFLGS2	SECOND FLAG BYTE
1...			TCBFOINP	X'80' THE TASK IS ABENDING AND IS IN THE PROCESS OF (1) OPEN FOR DUMP DATA SET PROCESSING, (2) CLOSE FOR USER DATA SET OR (3) PURGE FOR ENQ'ED RESOURCES. THIS BIT IS USED IN CONJUNCTION WITH TCBSTACK. (OS/V52)
.1..			TCBFSTI	X'40' SECOND JOB STEP INTERVAL HAS EXPIRED (OS/V52)
..1.			TCBFABOP	INITIATOR TCB) X'20' IF 1, THE SYSABEND DUMP DATA SET HAS BEEN OPENED FOR ABEND. IF 0, THE SYSUDUMP DUMP DATA SET WAS OPENED. THIS BIT IS ONLY USED FOR THE JOB STEP TCB AND IS USED IN CONJUNCTION

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
...1			TCBFSMC	WITH TCBFDSOP BIT. (OS/VS2) X'10' TASK HAS ISSUED A SYSTEM-MUST-COM PLETE AND SET ALL OTHER TASKS IN THE SYSTEM NON-DISPATCHABL E
.... 1...			TCBFJMC	X'08' TASK HAS ISSUED A STEP-MUST-COMPL ETE AND TURNED OFF ALL OTHER TASKS IN THE STEP
.... .1..			TCBFDSOP	X'04' SYSABEND OPEN FOR JOB STEP (OS/VS2)
.... ..1.			TCBFETXR	X'02' ETRX TO BE SCHEDULED
.... ...1			TCBFTS	X'01' THIS TASK IS A MEMBER OF A TIME-SLICED GROUP
31 (1F) BITSTRING		1	TCBFLGS3	THIRD FLAG BYTE
1...			TCBFSM	X'80' ALL PSW'S IN SUPERVISOR STATE (OS/VS2)
.1...			TCBADINP	X'40' USED IN CONJUNCTION WITH TCBONDSP. FLAG INDICATING THAT ABDUMP IS CURRENTLY PROCESSING FOR SOME TASK IN JOB STEP. A HIGHER LEVEL TASK IS NOT ALLOWED TO ENTER MAINLINE ABEND PROCESSING IF THIS BIT IS SET IN JOB STEP TCB UNLESS JOB STEP TASK IS FAILING. BIT SET ONLY IN JOB STEP TCB AND TASK INVOKING ABDUMP. (OS/VS2)

TCB

TCB
Data Area Descriptions 357

OFFSETS TYPE LENGTH NAME DESCRIPTION

...	1.		TCBABTRM	X'20' ABTERM BIT TO PREVENT MULTIPLE ABENDS (OS/V52)
...	1.		TCBABGM	X'10' GETMAIN IS TO DEFAULT LSQA REQUESTS TO SQA REQUESTS WHEN REQUEST CANNOT BE SATISFIED FROM LSQA (OS/V52)
....	1...		TCBRSV06	X'08',,C'X' RESERVED (OS/V52)
....	1..		TCBRSV07	X'04',,C'X' RESERVED (OS/V52)
....	..1.		TCBRSV08	X'02',,C'X' RESERVED (OS/V52)
....	...1		TCBDWSTA	X'01' THIS TASK WAS DETACHED WITH STAE=YES OPTION (OS/V52)

32	(20) BITSTRING	1	TCBFLG54	NON-DISPATCHABI LITY FLAGS (OS/V52) RESERVED BYTE (OS/V51)
1...	....		TCBNDUMP	X'80' ABDUMP NON-DISPATCHABI LITY INDICATOR
..1.	....		TCBSER	X'40' SER1 NON-DISPATCHABI LITY INDICATOR
..1.	....		TCBRQENA	X'20' I/O RQE'S EXHAUSTED
...1	....		TCBHNDSP	X'10' TASK OR JOB STEP IS MOMENTARILY 'FROZEN' UNTIL THE REQUIRED RESOURCES ARE AVAILABLE. THE BIT IS SET THROUGH THE USE OF THE 'STATUS' SVC
....	1...		TCBUXNDV	X'08' TASK IS TEMPORARILY NON-DISPATCHABL E BECAUSE SMF TIME LIMIT OR SYSOUT LIMIT USER EXIT ROUTINE IS

TCB

TCB

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				BEING EXECUTED FOR THIS STEP
....	.1..		TCBMPCVQ	X'04' VARY OR QUIESCE IN MULTIPROCESSING SYSTEM
....	.1.		TCBMPEND	X'02' M65 MULTIPROCESSING NON-DISPATCHABILITY INDICATOR FOR ALL CPU'S
....	...1		TCBONDSP	X'01' TASK TERMINATING AND NON-DISPATCHABLE BECAUSE EITHER OPEN FOR DUMP DATA SET IS IN PROCESS OR CLOSE BY ABEND IS IN PROCESS
33	(21) BITSTRING	1	TCBFLGS5	NON-DISPATCHABILITY FLAGS. IF ANY BIT IN THIS BYTE IS 1, THE TASK IS NON-DISPATCHABLE.
1...	....		TCBFC	X'80' TASK TERMINATED (OS/VS2)
.1..	....		TCBABWF	X'40' ABNORMAL WAIT (OS/VS2)
.1..	....		TCBUXNDF	X'40' TASK IS TEMPORARILY NON-DISPATCHABLE BECAUSE SMF TIME LIMIT OR SYSOUT LIMIT USER EXIT ROUTINE IS BEING EXECUTED FOR THIS STEP. THIS BIT IS SET TO 1 IN ALL TCB'S EXCEPT JOB STEP TCB. (OS/VS1)
...1.	....		TCBPAGE	X'20' TASK IS NON-DISPATCHABLE DUE TO EXCESSIVE PAGING RATE
...1	....		TCBANDSP	X'10' TASK IS TEMPORARILY NON-DISPATCHABLE BECAUSE IT WAS ATTACHED UNDER THE DISP=NO OPERAND

TCB

TCB

Data Area Descriptions 359

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... 1...			TCBSYS	X'08' ANOTHER TASK IS IN SYSTEM-MUST-COMplete STATUS OR A SUMMARY BIT FOR FIELD TCBSYSCT
.... .1..			TCBSTP	X'04' ANOTHER TASK IN THIS JOB STEP IS IN STEP-MUST-COMplete STATUS
.... ...1.			TCBFCD1	X'02' INITIATOR WAITING FOR REGION (OS/V52)
.... ...1			TCBPNDSP	X'01' PRIMARY NON-DISPATCHABILITY BIT. THIS BIT IS SET TO 1 IF ANY OF THE SECONDARY NON-DISPATCHABILITY BITS (OFFSETS 173, 174, 175, 200 OR 201 DECIMAL) IS SET TO 1. THIS BIT IS SET TO 0 IF A SECONDARY NON-DISPATCHABILITY BIT IS SET TO 0 AND ALL OTHER SECONDARY NON-DISPATCHABILITY BITS ARE 0.
34	(22) SIGNED	1	TCBLMP	TASK LIMIT PRIORITY (OS/V52) NUMBER OF RESOURCES FOR WHICH THIS TASK IS ENQUEUED (OS/V51)
35	(23) SIGNED	1	TCBDSP	DISPATCHING PRIORITY FOR THIS TASK

36	(24) A-ADDRESS	4	TCBLLS	ADDRESS OF LAST LOAD LIST ELEMENT (LLE) IN LOAD LIST (OS/V52) ADDRESS OF THE PREFIX OF THE MOST RECENTLY ADDED REQUEST BLOCK (RB-8)

TCB

TCB

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
ON THE LIST OF PROGRAMS LOADED VIA THE LOAD MACRO INSTRUCTION (OS/VS1)				
40	(28) A-ADDRESS	4	TCBJLB	ADDRESS OF A JOBLIB DCB
44	(2C) A-ADDRESS	4	TCBJPQ	ADDRESS OF LAST CDE FOR JOB PACK AREA (JPA) CONTROL QUEUE (OS/VS2)
44	(2C) BITSTRING	1	TCBPURGE	PURGE FLAGS (OS/VS2)
	1... ..		TCBJPQF	X'80',JPQ
	.1... ..		TCBRSV09	PURGE FLAG X'40',,C'X'
	..1... ..		TCBRSV10	RESERVED X'20',,C'X'
	...1... ..		TCBRSV11	RESERVED X'10',,C'X'
	.... 1...		TCBRSV12	RESERVED X'08',,C'X'
	.... .1..		TCBRSV13	RESERVED X'04',,C'X'
	.... ..1.		TCBRSV14	RESERVED X'02',,C'X'
	.... ...1		TCBRSV15	RESERVED X'01',,C'X'
45	(2D) A-ADDRESS	3	TCBJPQB	ADDRESS OF LAST CDE FOR JOB PACK AREA (JPA) CONTROL QUEUE (OS/VS2)
48	(30) CHARACTER	64	TCBGRS	GENERAL REGISTER SAVE AREA
48	(30) SIGNED	4	TCBGRS0	SAVE AREA FOR GENERAL REGISTER 0
52	(34) SIGNED	4	TCBGRS1	SAVE AREA FOR GENERAL REGISTER 1
56	(38) SIGNED	4	TCBGRS2	SAVE AREA FOR GENERAL REGISTER 2
60	(3C) SIGNED	4	TCBGRS3	SAVE AREA FOR GENERAL REGISTER 3
64	(40) SIGNED	4	TCBGRS4	SAVE AREA FOR GENERAL REGISTER 4

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
68	(44) SIGNED	4	TCBGRS5	SAVE AREA FOR GENERAL REGISTER 5
72	(48) SIGNED	4	TCBGRS6	SAVE AREA FOR GENERAL REGISTER 6
76	(4C) SIGNED	4	TCBGRS7	SAVE AREA FOR GENERAL REGISTER 7
80	(50) SIGNED	4	TCBGRS8	SAVE AREA FOR GENERAL REGISTER 8
84	(54) SIGNED	4	TCBGRS9	SAVE AREA FOR GENERAL REGISTER 9
88	(58) SIGNED	4	TCBGRS10	SAVE AREA FOR GENERAL REGISTER 10
92	(5C) SIGNED	4	TCBGRS11	SAVE AREA FOR GENERAL REGISTER 11
96	(60) SIGNED	4	TCBGRS12	SAVE AREA FOR GENERAL REGISTER 12
100	(64) SIGNED	4	TCBGRS13	SAVE AREA FOR GENERAL REGISTER 13
104	(68) SIGNED	4	TCBGRS14	SAVE AREA FOR GENERAL REGISTER 14
108	(6C) SIGNED	4	TCBGRS15	SAVE AREA FOR GENERAL REGISTER 15
112	(70) A-ADDRESS	4	TCBFSA	ADDRESS OF THE FIRST PROBLEM PROGRAM SAVE AREA
112	(70) SIGNED	1	TCBQEL	ENQUEUE COUNT (OS/VS2)
113	(71) A-ADDRESS	3	TCBFSA B	ADDRESS OF THE FIRST PROBLEM PROGRAM SAVE AREA
116	(74) A-ADDRESS	4	TCBTCB	ADDRESS OF NEXT TCB OF LOWER PRIORITY ON THE READY QUEUE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
120	(78) A-ADDRESS	4	TCBTME	ADDRESS OF THE TIMER QUEUE ELEMENT (TQE) X'80' IF ZERO, TASK TYPE TQE. IF ONE, REAL/WAIT TYPE TQE.
	1... ..		TCBTQET	
124	(7C) A-ADDRESS	4	TCBJSTCB	ADDRESS OF FIRST JOB STEP TCB OR OF THIS TCB IF KEY ZERO (OS/V52)
124	(7C) HEX	1	TCBRSV16	RESERVED
125	(7D) A-ADDRESS	3	TCBJSTCA	ADDRESS OF FIRST JOB STEP TCB OR OF THIS TCB IF KEY ZERO (OS/V52)
128	(80) A-ADDRESS	4	TCBNTC	ADDRESS OF THE TCB FOR THE TASK PREVIOUSLY ATTACHED BY THE TASK THAT ATTACHED THIS TASK. FOR EXAMPLE, IF TASK A ATTACHED TASK B AND THEN TASK C, THIS FIELD IN TASK C'S TCB POINTS TO TASK B'S TCB, AND THIS FIELD IN TASK B'S TCB IS ZERO.
132	(84) A-ADDRESS	4	TCBOTC	ADDRESS OF THE TCB FOR THE TASK (THE ORIGINATING TASK) THAT ATTACHED THIS TASK. THIS FIELD IS ZERO IN THE TCB FOR A SYSTEM TASK.
136	(88) A-ADDRESS	4	TCBLTC	ADDRESS OF THE TCB FOR THE TASK LAST ATTACHED BY THIS TASK. NOTE IF A TASK (THE ORIGINATING TASK) HAS

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				ATTACHED OTHER TASKS, THE TCB'S FOR THE OTHER TASKS ARE ON THE SUBTASK QUEUE OF THE ORIGINATING TASK. TCBLTC IN THE TCB FOR THE ORIGINATING TASK POINTS TO THE LAST TCB (THE TCB FOR THE LAST ATTACHED TASK) IN THE SUBTASK QUEUE. IN EACH TCB ON THE SUBTASK QUEUE, EXCEPT THE FIRST TCB, TCBNTC POINTS TO THE PRECEDING TCB ON THE QUEUE.
140	(8C) A-ADDRESS	4	TCBIQE	ADDRESS OF AN INTERRUPTION QUEUE ELEMENT (IQE) FOR SCHEDULING THE ETXR ROUTINE OF THE TASK THAT ATTACHED THIS TASK.
144	(90) A-ADDRESS	4	TCBECB	ADDRESS OF THE ECB THAT WILL BE POSTED BY THE SUPERVISOR'S TASK TERMINATION ROUTINES WHEN NORMAL OR ABNORMAL TERMINATION OCCURS.
148	(94) BITSTRING	1	TCBTSFLG	TIME SHARING FLAGS
	1... ..		TCBTSTSK	X'80' SWAPPED TIME SHARING TASK (OS/VS1)
	1... ..		TCBRV300	X'80',,C'X' RESERVED (WAS TCBTSTSK) (OS/VS2)

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.1..			TCBSTPPR	X'40' TASK SHOULD BE MADE NON-DISPATCHABLE VIA TCBSTPP WHEN IT IS NO LONGER RUNNING A PRIVILEGED PROGRAM
..1.			TCBATT	X'20' TASK SHOULD NOT HAVE ATTENTION EXITS SCHEDULED ON IT BY EXIT EFFECTOR
...1			TCBTIOTG	X'10' PURGE TGET/TPUT AFTER ATTENTION
.... 1...			TCBRSV17	X'08',,C'X' RESERVED
.... .1..			TCBRSV18	X'04',,C'X' RESERVED
.... ..1.			TCBDYDSP	X'02' M195 TASK IS MEMBER OF DYNAMIC DISPATCHING GROUP
.... ...1			TCBCPUBN	X'01' FOR M195, ZERO MEANS I/O BOUND AND ONE MEANS CPU BOUND
149	(95) SIGNED	1	TCBSTPCT	NUMBER OF SETTASK STARTS WHICH MUST BE ISSUED BEFORE TASK IS MADE DISPATCHABLE FIELD NOT RESTRICTED TO TSO
150	(96) SIGNED	1	TCBTSLP	LIMIT PRIORITY OF TIME SHARING TASK
151	(97) BITSTRING	1	TCBTSDP	DISPATCHING PRIORITY OF TIME SHARING TASK

152	(98) A-ADDRESS	4	TCBPQE	POINTER TO DPQE MINUS 8 FOR THE JOB STEP (OS/V52)

156	(9C) A-ADDRESS	4	TCBAQE	LIST ORIGIN OF AQE(S) FOR THIS TASK (OS/V52)

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
160	(A0) A-ADDRESS	4	TCBSTAB	ADDRESS OF THE CURRENT STAE CONTROL BLOCK
<hr/>				
160	(A0) BITSTRING	1	TCBNSTAE	FLAGS INTERNAL TO STAE ROUTINE
	1... ..		TCBSTABE	X'80' ABEND ENTERED BECAUSE OF ERROR IN STAE PROCESSING
	.1... ..		TCBQUIES	X'40' STAE INVOKED PURGE I/O ROUTINE WITH QUIESCE I/O OPTION
	..1.		TCB33E	X'20' A 33E ABEND HAS OCCURRED FOR TASK (OS/V\$2)
	...1		TCBPPSUP	X'10' 1=SUPERVISOR MODE, 0=PROBLEM PROGRAM MODE. INDICATOR TO SYNCH OF THE MODE OF THE USER EXIT (OS/V\$2)
	.... 1...		TCBHALT	X'08' PURGE I/O ROUTINE DID NOT SUCCESSFULLY QUIESCE I/O, BUT I/O WAS HALTED
	.... .1..		TCBSYNCH	X'04' SYNCH ISSUED BY ASIR TO SCHEDULE EXIT ROUTINE (OS/V\$2)
	.... ..1.		TCBRV301	X'02',,C'X' RESERVED (WAS TCBNPURG) (OS/V\$2)
	.... ...1		TCBSTCUR	X'01' STAE RECURSION VALID (OS/V\$2)
161	(A1) A-ADDRESS	3	TCBSTABB	ADDRESS OF THE CURRENT STAE CONTROL BLOCK
<hr/>				
164	(A4) A-ADDRESS	4	TCBTCT	ADDRESS OF THE TIMING CONTROL TABLE (TCT) IF SYSTEM MANAGEMENT FACILITIES (SMF) DATA IS BEING COLLECTED FOR

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				THE TASK. ZERO IF SMF DATA IS NOT BEING COLLECTED FOR THE TASK OR FOR OS/VS1, IF SMF IS NOT IN THE SYSTEM.
164	(A4) BITSTRING	1	TCBTCTGF	FLAG BYTE FOR TIMING CONTROL TABLE
	1... ..		TCBSMF6F	X'80' IF ZERO, THE TCT CORE TABLE IS NOT TO BE UPDATED BY GETMAIN/FREEMAI N. IF ONE, THE TCT CORE TABLE IS TO BE UPDATED BY GETMAIN/FREEMAI N.
	.1..		TCBRVS20	X'40',,C'X' RESERVED
	..1.		TCBRVS97	X'20',,C'X' RESERVED
	...1		TCBRVS98	X'10',,C'X' RESERVED
	.... 1..		TCBRVS99	X'08',,C'X' RESERVED
	.... .1..		TCBRVS9A	X'04',,C'X' RESERVED
	.... ..1.		TCBRVS9B	X'02',,C'X' RESERVED
	.... ...1		TCBRVS9C	X'01',,C'X' RESERVED
165	(A5) A-ADDRESS	3	TCBTCTB	ADDRESS OF THE TIMING CONTROL TABLE (TCT) IF SYSTEM MANAGEMENT FACILITIES (SMF) DATA IS BEING COLLECTED FOR THE TASK. ZERO IF SMF DATA IS NOT BEING COLLECTED FOR THE TASK OR FOR OS/VS1, IF SMF IS NOT IN THE SYSTEM.
168	(A8) A-ADDRESS	4	TCBUSER	A WORD AVAILABLE TO THE USER

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
172	(AC) BITSTRING	4	TCBSCNDY	SECONDARY NON-DISPATCHABI LITY BITS. IF ANY BIT IN THE FOLLOWING FOUR BYTES IS 1, THE PRIMARY NON-DISPATCHABI LITY BIT (OFFSET 33.7 DECIMAL) IS 1, AND THE TASK IS NON-DISPATCHABL E.
172	(AC) BITSTRING	4	TCBNDSP	SAME AS TCBSCNDY
172	(AC) BITSTRING	1	TCBNDSP0	BYTE 0
173	(AD) BITSTRING 1... ..	1	TCBNDSP1 TCBDARTN	BYTE 1 X'80' THE TASK IS TEMPORARILY NON-DISPATCHABL E DAMAGE ASSESSMENT ROUTINE (DAR)
	.1..		TCBDARPN	X'40' THE TASK IS PERMANENTLY NON-DISPATCHABL E DAMAGE ASSESSMENT ROUTINE (DAR)
	..1.		TCBRSTND	X'20' THE TASK IS TEMPORARILY NON-DISPATCHABL E RECOVERY MANAGEMENT SUPPORT AND SYSTEM ERROR RECOVERY (RMS/SER)
	...1		TCBRSPND	X'10' THE TASK IS PERMANENTLY NON-DISPATCHABL E RECOVERY MANAGEMENT SUPPORT AND SYSTEM ERROR RECOVERY (RMS/SER) (IF THIS BIT IS ON THEN THE PREVIOUS BIT MUST BE ON TOO)
	.... 1...		TCBDDRND	X'08' THE TASK IS IN DEVICE ALLOCATION AND DYNAMIC DEVICE RECONFIGURATION (DDR) HAS MADE IT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				NON-DISPATCHABLE RECOVERY MANAGEMENT SUPPORT AND SYSTEM ERROR RECOVERY (RMS/SER) (OS/VS1)
....	.1..		TCBTPSP	X'04' DISPATCHING OF TCAM TASK MUST BE DELAYED UNTIL TCAM I/O APPENDAGE OR SVC ROUTINE HAS COMPLETED EXECUTION (TCAM IN MULTIPROCESSING ENVIRONMENT)
....	.1.		TCBPIEND	X'02' SRB IS TO BE SCHEDULED TO PERFORM PIE/PICA PROCESSING (FIRST LEVEL INTERRUPT HANDLER)
....	....1		TCBR5V22	X'01',,C'X' RESERVED
174	(AE) BITSTRING	1	TCBNDSP2	BYTE 2
1...	....		TCBABD	X'80' ABDUMP IS PROCESSING (OS/VS1)
.1..	....		TCBSTPP	X'40' TASK SET NON-DISPATCHABLE BY SETTASK
..1.	....		TCBND5VC	X'20' TASK IS NON-DISPATCHABLE BECAUSE SVC DUMP IS EXECUTING FOR ANOTHER TASK
...1	....		TCBNDS	X'10' TASK IS NON-DISPATCHABLE BECAUSE IT IS BEING SWAPPED OUT
....	1...		TCBIWAIT	X'08' TASK IS NON-DISPATCHABLE DUE TO AN INPUT WAIT
....	.1..		TCBOWAIT	X'04' TASK IS NON-DISPATCHABLE DUE TO AN OUTPUT WAIT
....	...1.		TCBDSS	X'02' DYNAMIC SUPPORT SYSTEM (DSS) HAS SET THIS TASK NON-DISPATCHABLE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... ...1		TCBABE	X'01' ABEND ROUTINE WAS ENTERED FOR THIS TASK WHILE THE DCB FOR SYSABEND (OR SYSUDUMP) DATA SET WAS BEING OPENED FOR ANOTHER TASK (OS/VS1)
175	(AF) BITSTRING 1...	1	TCBNDSP3 TCBLJSND	BYTE 3 X'80' TASK IS ABENDING AND NON-DISPATCHABLE BECAUSE IT HAS A JOB STEP SUBTASK. TCBNDSP MUST ALSO BE ON. (OS/VS2)
	.1..		TCBRV302	X'40',,C'X' RESERVED (WAS TCBSTAND) (OS/VS2)
	..1.		TCBSRBND	X'20' TCB NON-DISPATCHABLE BECAUSE SRB'S ARE STOPPED (OS/VS2)
	...1		TCBRSV24	X'10',,C'X' RESERVED
	.... 1...		TCBRSV25	X'08',,C'X' RESERVED
	.... .1..		TCBRSV26	X'04',,C'X' RESERVED
	.... ..1.		TCBRSV27	X'02',,C'X' RESERVED
	.... ...1		TCBNDINT	X'01' INITIATOR SETS THIS BIT TO PREVENT JOB STEP EXECUTION IN ORDER TO DO CANCEL PROCESSING (CAN CANCEL LOOP) (OS/VS2)

176	(B0) SIGNED	4	TCBMDIDS	RESERVED FOR MODEL-DEPENDENT SUPPORT AND FOR IBM PROPRIETARY PROGRAMMING SUPPORT

180	(B4) A-ADDRESS	4	TCBJSCB	ADDRESS OF THE JOB STEP CONTROL BLOCK

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
180	(B4) BITSTRING	1	TCBRECDE	ABEND RECURSION BYTE
	1...		TCBREC	X'80' VALID REENTRY TO ABEND IF NON-ZERO VALUE IN FOLLOWING 7 BITS
	.... ...1		TCBOPEN	X'01' OPEN DUMP DATA SET
	.... ..1.		TCBCLOSED	X'02' CLOSE DIRECT SYSOUT ON TAPE
	.... ...11		TCBCLOSE	X'03' CLOSE OPEN DATA SETS
	.... ..1..		TCBCLOSF	X'04' RESERVED
	.... ..1.1		TCBREC	X'05' GRAPHICS
	.... ...111		TCBADUMP	X'07' ABDUMP
	.... 1...		TCBPTAXE	X'08' PURGE TAXE
	.... 1..1		TCBMESG	X'09' MESSAGE RECURSION
	.... 1.1.		TCBDYNAM	X'0A' DD-DYNAM TIOT CLEANUP
	.... 1.11		TCBDAHSG	X'0B' ABEND IS ISSUING A WTOR ASKING WHETHER THE JOB STEP TASK SHOULD WAIT FOR THE DUMP AREA (OS/VS1)
	.... 11..		TCBQTIP	X'0C' PURGE TSO INTERPARTITION POSTS
	.... 11.1		TCBTCAMP	X'0D' PURGE TCAM INTERPARTITION POSTS
	.... 111.		TCBINDRC	X'0E' INDICATIVE DUMP (LOAD 8 OF ABEND) HAS ABENDED. ABEND WILL HANDLE THIS ABEND. (OS/VS1)
	.... 1111		TCBSAVCD	X'0F' ASIR RECURSION. SAVE OLD COMPLETION CODE
	...1		TCBTYPIW	X'10' TYPE 1 MESSAGE WRITE TO PROGRAMMER
	..1.		TCBWPSE	X'20' WRITE-TO-PROGRAMMER (WTP) FAILED. JOB STEP TIMER EXPIRED DURING JOB STEP ABEND

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				AND THE STAE EXIT IS DENIED. (OS/VS1)
..1. ...1			TCBVTAM1	X'21' ABEND IS ENTERING FIRST VTAM INTERFACE, ISTRAAA1, FOR TERMINATION OF TASK OR SUBTASK (OS/VS1)
..1. ...1.			TCBVTAM2	X'22' ABEND IS ENTERING SECOND VTAM INTERFACE, ISTRAAA2, BECAUSE ISTRAAA1 ABENDED (OS/VS1)
..1. ...11			TCBVTAM3	X'23' ABEND IS ENTERING FIRST VTAM INTERFACE, ISTRAAA0, BECAUSE VTAM ABENDED (OS/VS1)
..1. .1..			TCBVTAM4	X'24' ABEND IS ENTERING SECOND VTAM INTERFACE, ISTRAAA2, BECAUSE ISTRAAA0 ABENDED (OS/VS1)
..11			TCBNOSTA	X'30' STAE/STAI NOT TO BE HONORED
..11 ...1			TCBSTRET	X'31' RETURN FROM DUMP PROCESSING
..11 ...1.			TCBCONVR	X'32' CONVERT TO STEP ABEND
..11 ...11			TCBDARET	X'33' RETURN FROM DAMAGE ASSESSMENT ROUTINES
..11 .1..			TCBTYP1R	X'34' RETURN FROM TYPE 1 MESSAGE MODULE
..11 .1.1			TCBNEWRB	X'35' ABEND ISSUED SVC 13 TO TRANSFER CONTROL (XCTL) TO A NON-ABEND MODULE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.1..			TCBMCCNS	X'40' A MUST COMPLETE TASK HAS ABNORMALLY TERMINATED WITHOUT ENOUGH STORAGE FOR 2 RB'S FOR A WTOR ASKING WHETHER THE TASK'S RESOURCES ARE CRITICAL. THE RESOURCES ARE ASSUMED TO BE CRITICAL, AND THE PARTITION IS MARKED PERMANENTLY NON-DISPATCHABLE. (OS/VS1)
181	(B5) A-ADDRESS	3	TCBJSCBB	ADDRESS OF THE JOB STEP CONTROL BLOCK
184	(B8) SIGNED	2	TCBDDEXC	NUMBER OF TIMES A DYNAMIC DISPATCHING TASK HAS HAD ITS TIME SLICE EXPIRE (OS/VS1)
186	(BA) SIGNED	2	TCBDDWTC	NUMBER OF TIMES A DYNAMIC DISPATCHING TASK IS NOT INTERRUPTED BY THE END OF A TIME SLICE BETWEEN WAITS (OS/VS1)
188	(BC) A-ADDRESS	4	TCBIOBRC	ADDRESS OF IOB RESTORE CHAIN FOR I/O QUIESCED BY EOT
192	(C0) A-ADDRESS	4	TCBEXCPD	ADDRESS OF EXCP DEBUG AREA (OS/VS2)
196	(C4) A-ADDRESS	4	TCBEXT1	ADDRESS OF OS-OS/VS COMMON TCB EXTENSION
196	(C4) HEX	1	TCBRSV32	RESERVED
197	(C5) A-ADDRESS	3	TCBEXT1A	ADDRESS OF OS-OS/VS COMMON TCB EXTENSION

OFFSETS TYPE LENGTH NAME DESCRIPTION

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OS/VS1 - OS/VS2 COMMON SECTION

200	(C8) BITSTRING	4	TCBBITS	FLAG BYTES. IF A BIT IN THE FOLLOWING TWO BYTES IS SET TO 1, THE PRIMARY NON-DISPATCHABILITY BIT (OFFSET 33.7 DECIMAL) IS SET TO 1, AND THE TASK IS NON-DISPATCHABLE.
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200	(C8) BITSTRING	1	TCBNDSP4	SECONDARY NON-DISPATCHABILITY FLAGS COMMON TO OS/VS1 AND OS/VS2. COORDINATED WITH PRIMARY NON-DISPATCHABILITY FLAG TCBPNDSP. THIS BYTE IS NOT CURRENTLY SUPPORTED BY OS/VS2.
	1...		TCBRSV86	X'80',,C'X' RESERVED
	.1..		TCBRSV87	X'40',,C'X' RESERVED
	..1.		TCBRSV88	X'20',,C'X' RESERVED
	...1		TCBRSV89	X'10',,C'X' RESERVED
	.... 1...		TCBRSV90	X'08',,C'X' RESERVED
	.... .1..		TCBRSV91	X'04',,C'X' RESERVED
	.... ..1.		TCBRSV92	X'02',,C'X' RESERVED
	.... ...1		TCBRSV93	X'01',,C'X' RESERVED

201	(C9) BITSTRING	1	TCBNDSP5	SECONDARY NON-DISPATCHABILITY FLAGS UNIQUE TO OS/VS1 OR OS/VS2. COORDINATED WITH PRIMARY NON-DISPATCHABILITY FLAG TCBPNDSP. THIS BYTE IS NOT
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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				CURRENTLY SUPPORTED BY OS/V52.
1... ..			TCBRSV94	X'80',,C'X' RESERVED (OS/V52)
.1... ..			TCBRSV95	X'40',,C'X' RESERVED (OS/V52)
..1... ..			TCBRSV74	X'20',,C'X' RESERVED
...1... ..			TCBRSV75	X'10',,C'X' RESERVED
.... 1...			TCBRSV76	X'08',,C'X' RESERVED
.... .1..			TCBRSV77	X'04',,C'X' RESERVED
.... .1.			TCBRSV78	X'02',,C'X' RESERVED
.... ...1			TCBRSV79	X'01',,C'X' RESERVED
202	(CA) BITSTRING	1	TCBFLGS6	TASK-RELATED FLAGS
1... ..			TCBRV	X'80' THE PARTITION IS FIXED IN REAL STORAGE. VIRTUAL ADDRESSES ARE EQUAL TO REAL ADDRESSES.
.1... ..			TCBPIE17	X'40' PAGE FAULT INTERRUPT IS TO BE PASSED TO THE TASK'S INTERRUPT EXIT AND AN 8-BYTE PICA IS IN EFFECT FOR THIS TASK (OS/V52)
..1... ..			TCBCPU	X'20' TASK IS CPU-BOUND MEMBER OF AUTOMATIC PRIORITY GROUP (APG) (OS/V52)
...1... ..			TCBSPVLK	X'10' TASK SCHEDULED FOR ABTERM WHILE OWNING SUPERVISOR LOCK (OS/V52)
.... 1...			TCBRV303	X'08',,C'X' RESERVED (WAS TCBOLSQA) (OS/V52)
.... .1..			TCBMIGR	X'04' REGION SELECTED FOR MIGRATION FROM PRIMARY PAGING DEVICE (OS/V52)

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
....	...1.		TCBAPG	X'02' TASK IS IN AUTOMATIC PRIORITY GROUP (APG) (OS/V52)
....	....1		TCBNTJS	X'01' JOB STEP TASK BUT NOT HIGHEST IN FAILING TREE (OS/V52)
203	(CB) BITSTRING	1	TCBFLGS7	TASK-RELATED FLAGS
	1... ..		TCBGPECB	X'80' TASK IS IN AN ECB WAIT FOR A GETPART (OS/V52)
	.1... ..		TCBR5V33	X'40',,C'X' RESERVED (OS/V52)
	..1.		TCBR5V34	X'20',,C'X' RESERVE (OS/V52)
	...1		TCBSTACK	X'10' SET IN JOB STEP TCB TO INDICATE THAT A TASK IN THE JOB STEP IS IN SERIAL ABEND PROCESSING. USED IN CONJUNCTION WITH TCBFOINP. (OS/V52)
	.... 1...		TCBSVCS	X'08' RESERVED
	.... .1..		TCBRSTSK	X'04' RESIDENT SYSTEM TASK (OS/V52)
	.... ...1.		TCBADMP	X'02' ALL OTHER TASKS IN JOB STEP HAVE BEEN SET NON-DISPATCHABLE BY ABDUMP. THIS BIT IS SET TO CONTROL JOB STEP DURING THE DUMPING PROCESS. (OS/V52)
	.... ....1		TCBGTOFM	X'01' GENERALIZED TRACE FACILITY (GTF) TRACING HAS BEEN TEMPORARILY DISABLED UNDER THIS TASK

204	(CC) BITSTRING	1	TCBDAR	DAMAGE ASSESSMENT ROUTINE (DAR) FLAGS

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
1... ..			TCBDARP	X'80' PRIMARY DAR RECURSION. DAR HAS BEEN ENTERED FOR THIS TASK.
.1... ..			TCBDARS	X'40' SECONDARY DAR RECURSION. IF DAR IS REENTERED, THIS TASK WILL BE SET NON-DISPATCHABLE.
..1.			TCBDARD	X'20' A DUMP HAS BEEN REQUESTED FOR A WRITER OR SCHEDULER ABEND, AND THE USER HAS PROVIDED NO SYSABEND DD CARD (OS/VS1)
...1			TCBDARC	X'10' RECURSION PERMITTED IN CLOSE AFTER DAR PROCESSING COMPLETED (PCP)
...1			TCBDARMC	X'10' DAR HAS BEEN ENTERED TO HANDLE A VALID RECURSION IN MUST-COMplete STATUS THROUGH ABEND
.... 1...			TCBDARO	X'08' SYSTEM ERROR TASK IS FAILING. DAR DUMP SHOULD NOT REQUEST ANY ERROR RECOVERY PROCEDURE (ERP)
.... .1..			TCBDARWT	X'04' A WTO OPERATION WITH A 'REINSTATEMENT FAILURE' MESSAGE IS IN PROCESS FOR DAR
.... ..1.			TCBDARMS	X'02' WTO OPERATION WITH A 'DAR IN PROGRESS' MESSAGE IS IN PROCESS FOR

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
..... .1			TCBXSVC	DAR (OS/VS1) X'01' THE DUMP SVC ROUTINE IS EXECUTING FOR THIS TASK
205	(CD) HEX	1	TCBRVS37	RESERVED FOR USER
206	(CE) SIGNED	1	TCBSYSCT	NUMBER OF OUTSTANDING SYSTEM-MUST-COM PLETE REQUESTS
207	(CF) SIGNED	1	TCBSTMCT	NUMBER OF OUTSTANDING STEP-MUST-COMPL ETE REQUESTS

208	(D0) A-ADDRESS	4	TCBEXT2	ADDRESS OF OS/VS1 OS/VS2 COMMON EXTENSION

208	(D0) HEX	1	TCBRVS39	RESERVED
209	(D1) A-ADDRESS	3	TCBEXT2A	ADDRESS OF OS/VS1 OS/VS2 COMMON EXTENSION
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OS/VS2 TCB OVERLAY

212	(D4) SIGNED	4	TCBAECB	ABEND ECB. POSTED BY A MOTHER TASK IN RTM2 PROCESSING WHEN A DAUGHTER IS WAITING TO TERMINATE IT.

216	(D8) A-ADDRESS	4	TCBTIRB	ADDRESS OF TIRB FOR TASK

220	(DC) A-ADDRESS	4	TCBBACK	ADDRESS OF PREVIOUS TCB ON READY QUEUE. ZERO IN TOP TCB.

224	(E0) A-ADDRESS	4	TCBRTWA	POINTER TO CURRENT RTM2 WORK AREA

228	(E4) SIGNED	4	TCBIOTIM	TIME IN 16-MICROSECOND UNITS BETWEEN TIME ORIGINAL TIME SLICE INTERVAL WAS ASSIGNED AND TIME AUTOMATIC PRIORITY GROUP (APG) TASK

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>

232	(E8) SIGNED	4	TCBTMSAV	WENT INTO VOLUNTARY WAIT TIME IN 16-MICROSECOND UNITS REMAINING FROM ORIGINAL TIME SLICE INTERVAL WHEN AUTOMATIC PRIORITY GROUP (APG) TASK WAS LAST DISPATCHED

236	(EC) CHARACTER	1	TCBABCUR	ABEND RECURSION BYTE RESERVED
237	(ED) SIGNED	1	TCBRSVAA	TASK ID NUMBER
238	(EE) CHARACTER	1	TCBTID	255 ID FOR PAGING SUPERVISOR TASK
	1111 1111		TCBPAGID	
	1111 111.		TCBSYERR	254 ID FOR SYSTEM ERROR TASK
	1111 11.1		TCBCOMM	253 ID FOR COMMUNCIATIONS TASK
	1111 11..		TCBIORMS	252 ID FOR I/O RMS TASK
	1111 1.11		TCBMASTR	251 ID FOR MASTER SCHEDULER TASK
	1111 1.1.		TCBJES	250 ID FOR JOB ENTRY SUBSYSTEM (JES) MONITOR TASK
	1111 1..1		TCBDSSID	249 ID FOR DYNAMIC SUPPORT SYSTEM (DSS) TASK
	1111 1...		TCBLOGID	248 ID FOR SYSTEM LOG TASK
239	(EF) HEX	1	TCBRSV41	RESERVED

240	(F0) SIGNED	4	TCBXSCT	DISPATCHER INTERSECT CONTROL WORD

240	(F0) BITSTRING	1	TCBXSCT1	FLAG BYTE
	1... ..		TCBACTIV	X'80' BIT ON MEANS THIS TCB IS CURRENTLY ACTIVE ON A CPU. USED TO SYNCHRONIZE SOME STATUS SAVING AND DISPATCHABILITY INDICATORS WHEN ACTIVE OR

TCB

TCB
Data Area Descriptions 379

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.1..		TCBS3A	NOT UNDER THE LOCAL LOCK. X'40',,C'X' EXIT EFFECTOR/RESUME /TCTL
	..1.		TCBRV319	INTERSECT FLAG X'20',,C'X' RESERVED
	...1		TCBRV320	X'10',,C'X' RESERVED
	.... 1...		TCBRV321	X'08',,C'X' RESERVED
	.... .1..		TCBRV322	X'04',,C'X' RESERVED
	.... ..1.		TCBRV323	X'02',,C'X' RESERVED
	.... ...1		TCBRV324	X'01',,C'X' RESERVED
241	(F1) BITSTRING	1	TCBRV325	RESERVED
242	(F2) SIGNED	2	TCBCCPVI	ID OF THE CURRENT CPU RUNNING THIS TASK. USED FOR RECOVERY AND CPU AFFINITY.

244	(F4) A-ADDRESS	4	TCBFOE	ADDRESS OF FIRST FIX OWNERSHIP ELEMENT (FOE) IN LIST FOR THIS TASK

244	(F4) HEX	1	TCBRV42	RESERVED
245	(F5) A-ADDRESS	3	TCBFOEA	ADDRESS OF FIRST FIX OWNERSHIP ELEMENT (FOE) IN LIST FOR THIS TASK

248	(F8) A-ADDRESS	4	TCBSWA	ADDRESS OF FIRST SCHEDULER WORK AREA (SWA) SPQE ON SWA SPQE CHAIN

252	(FC) A-ADDRESS	4	TCBSTAWA	ESTAE ROUTINE WORK AREA POINTER
	1...		TCBSTAFX	X'80' IF HIGH-ORDER BIT OF TCBSTAWA IS ON, ESTAE PROCESSOR HAS SET TCBFX BIT ON

256	(100) CHARACTER	4	TCBTCBID	CONTAINS BLOCK ID 'TCB '

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
260 (104)	A-ADDRESS	4	TCBRM12	POINTER TO PARAMETER AREAS PASSED FROM RTM1 TO RTM2
264 (108)	HEX	4	TCBESTAE	AREA TO CONTAIN RECOVERY DATA FOR RTM
264 (108)	CHARACTER	1	TCBSCBKY	KEY IN WHICH SYNCH IS TO PASS CONTROL TO THE USER EXIT
265 (109)	BITSTRING	1	TCBESTRM	ESTAE TERM OPTIONS
	1... ..		TCBETERM	X'80',,C'X' EXIT ENTERED WITH TERM OPTION
	.1.		TCBRV308	X'40',,C'X' RESERVED
	..1.		TCBRV309	X'20',,C'X' RESERVED
	...1		TCBRV310	X'10',,C'X' RESERVED
	.... 1...		TCBRV311	X'08',,C'X' RESERVED
	.... .1..		TCBRV312	X'04',,C'X' RESERVED
	.... ..1.		TCBRV313	X'02',,C'X' RESERVED
	.... ...1		TCBRV314	X'01',,C'X' RESERVED
266 (10A)	SIGNED	1	TCBERTYP	TYPE OF ERROR CAUSING ENTRY TO THE RTM. SET BY RTM1.
267 (10B)	SIGNED	1	TCBMODE	MASK INDICATING MODE OF SYSTEM AT TIME OF ERROR. SEE IHARTIW/MODE FOR INDIVIDUAL BIT DEFINITIONS.
268 (10C)	A-ADDRESS	4	TCBUKYS	ADDRESS OF SPQE'S FOR SUBPOOLS 229 AND 230 (USER KEY STORAGE IN THE PRIVATE AREA)
272 (110)	SIGNED	2	TCBRV326	RESERVED
274 (112)	BITSTRING	2	TCBAFFN	CPU AFFINITY INDICATOR
276 (114)	BITSTRING	1	TCBFBYT1	FLAG BYTE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
1... ..			TCBEOTFM	X'80' END OF TASK FLAG FOR FREEMAIN. SET TO 1 BY TASK TERMINATION AT START OF TERMINATION PROCESSING AND RESET TO 0 AT FINISH. INDICATES THAT A FREEMAIN ON A BLOCK OF LOCAL STORAGE THAT IS STILL FIXED BY RSM SHOULD RESULT IN A RETURN CODE OF 8 RATHER THAN ABNORMAL TERMINATION.
.1.. ..			TCBRV327	X'40',,C'X' RESERVED
..1.			TCBNDIOS	X'20' TASK HAS BEEN SET NON-DISPATCHABLE VIA STATUSND WHILE SVC 16 (PURGE) SCANS THE RB CHAIN PURGING APPENDAGE-SCHEDULED ASYNCHRONOUS EXIT ROUTINES RUNNING UNDER AN IRB/RQE OR NON-RESIDENT ERP'S RUNNING UNDER THE SIRB.
...1			TCBPGNLY	X'10' SET BY RTM2 TO INDICATE ONLY PURGE PHASE TO BE PERFORMED
.... 1...			TCBRTM2	X'08' SET BY RTM2 TO INDICATE. RTM2 HAS BEEN ENTERED FOR THIS TASK
.... .1..			TCBEOT	X'04' SET BY RTM2 TO INDICATE TO EXIT THAT END OF TASK PROCESSING IS COMPLETE
.... ..1.			TCBRV113	X'02',,C'X' RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... .1		TCBL LH	X'01' LOCALLY LOCKED TCB HAS PAGE FAULTED, AND I/O IS REQUIRED (FIRST LEVEL INTERRUPT HANDLER)
277	(115) BITSTRING 1... ..	1	TCBF BYT2 TCBCNCB	FLAG BYTE X'80' SET BY RTM2 IN THE JOB STEP TCB WHEN IT HAS BEEN ENTERED ON THE TCB FOR AN X22 ABEND
	.1... ..		TCBF MW	X'40' MOTHER WAITING FLAG. TURNED ON IN A SUBTASK IN RTM2 PROCESSING WHEN AN ANCESTOR TASK IS WAITING TO ABEND IT.
	..1.		TCBF DW	X'20' DAUGHTER WAITING FLAG. TURNED ON IN A MOTHER TASK IN RTM2 PROCESSING WHEN A DAUGHTER IS WAITING TO ABEND IT.
	...1		TCBF PRAP	X'10' SET BY RTM2 TO PREVENT PERCOLATION TO THE TASK OF AN ASYNCHRONOUS ABEND
	.... 1...		TCB SSSYN	X'08' SYNCHRONIZED STATUS STOP PENDING FOR THIS TCB
	.... .1..		TCB ECB NV	X'04' IF 1, ECB POINTED TO BY TCBE CB IS NOT TO BE VALIDITY CHECKED. IF 0, ECB POINTED TO BY TCBE CB IS TO BE VALIDITY CHECKED.
	.... .1.		TCBR V122	X'02',,C'X' RESERVED
	.... ....1		TCBR V123	X'01',,C'X' RESERVED
278	(116) BITSTRING	1	TCBR V124	RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
1... ..			TCBRV125	X'80',,C'X' RESERVED
.1..			TCBRV126	X'40',,C'X' RESERVED
..1.			TCBRV127	X'20',,C'X' RESERVED
...1			TCBRV128	X'10',,C'X' RESERVED
.... 1...			TCBRV129	X'08',,C'X' RESERVED
.... .1..			TCBRV130	X'04',,C'X' RESERVED
.... ..1.			TCBRV131	X'02',,C'X' RESERVED
.... ...1			TCBRV132	X'01',,C'X' RESERVED
279 (117) BITSTRING		1	TCBRV133	RESERVED
1... ..			TCBRV134	X'80',,C'X' RESERVED
.1..			TCBRV135	X'40',,C'X' RESERVED
..1.			TCBRV136	X'20',,C'X' RESERVED
...1			TCBRV137	X'10',,C'X' RESERVED
.... 1...			TCBRV138	X'08',,C'X' RESERVED
.... .1..			TCBRV139	X'04',,C'X' RESERVED
.... ..1.			TCBRV140	X'02',,C'X' RESERVED
.... ...1			TCBRV141	X'01',,C'X' RESERVED

280 (118) A-ADDRESS		4	TCBRPT	ADDRESS OF RADIX PARTITION TREE FOR LOCAL STORAGE MANAGEMENT

284 (11C) A-ADDRESS		4	TCBDBTB	ADDRESS OF DEB TABLE. THERE IS ONE DEB TABLE PER JOB STEP TCB.

288 (120) A-ADDRESS		4	TCBSWASA	ADDRESS OF SAVE AREA USED BY SWA MANAGER

292 (124) A-ADDRESS		4	TCBSVCA2	RESERVED

296 (128) FLOATING		8		

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
=====				
OS/V51 - OS/V52 COMMON EXTENSION				
ADDRESS OF EXTENSION IS IN TCBEXT2				
0	(0) STRUCTURE	0	TCBXTNT2	, START OF EXTENSION

0	(0) A-ADDRESS	4	TCBGTF	ADDRESS OF GENERALIZED TRACE FACILITY (GTF) TEMPORARY TRACE BUFFER

0	(0) BITSTRING 1... ..	1	TCBTFLG TCBASYN	GTF FLAG BYTE X'80', GTF ASYNCHRONOUS GATHER ROUTINE IS IN CONTROL
	.1... ..		TCBERRTN	X'40', GTF ASYNCHRONOUS GATHER ERROR ROUTINE IS IN CONTROL
	..1... ..		TCBDSPIT	X'20', MACHINE CHECK INTERRUPTION HANDLER SHOULD UNCONDITIONALLY BRANCH TO THE DISPATCHER
	...1... ..		TCBRV43	X'10', 'C'X' RESERVED
	.... 1...		TCBRV44	X'08', 'C'X' RESERVED
	.... .1..		TCBRV45	X'04', 'C'X' RESERVED
	..... .1.		TCBRV46	X'02', 'C'X' RESERVED
	.... ...1		TCBRV47	X'01', 'C'X' RESERVED
1	(1) A-ADDRESS	3	TCBGTF	ADDRESS OF GTF TEMPORARY TRACE BUFFER

4	(4) SIGNED	1	TCBRVAB	RESERVED
5	(5) BITSTRING	3	TCBRCMP	MOST RECENT ABEND COMPLETION CODE (INCLUDING VALID RECURSIONS IN STAE)

8	(8) A-ADDRESS	4	TCBEVENT	ADDRESS OF EVENT TABLES QUEUE

12	(C) SIGNED	4	TCBRV49	RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
16	(10) A-ADDRESS	4	TCBRV142	RESERVED
20	(14) A-ADDRESS	4	TCBCAUF	ADDRESS OF SUBSYSTEM FACILITY CONTROL BLOCK (OS/VS2)
24	(18) SIGNED	2	TCBRV144	RESERVED
26	(1A) SIGNED	2	TCBRV145	RESERVED
28	(1C) BITSTRING	1	TCBRV146	RESERVED
	1... ..		TCBRV147	X'80',,C'X'
	.1.		TCBRV148	RESERVED X'40',,C'X'
	..1.		TCBRV149	RESERVED X'20',,C'X'
	...1		TCBRV150	RESERVED X'10',,C'X'
	.... 1...		TCBRV151	RESERVED X'08',,C'X'
	.... .1..		TCBRV152	RESERVED X'04',,C'X'
	.... ..1.		TCBRV153	RESERVED X'02',,C'X'
	.... ...1		TCBRV154	RESERVED X'01',,C'X'
29	(1D) BITSTRING	1	TCBRV155	RESERVED
	1... ..		TCBRV156	RESERVED X'80',,C'X'
	.1.		TCBRV157	RESERVED X'40',,C'X'
	..1.		TCBRV158	RESERVED X'20',,C'X'
	...1		TCBRV159	RESERVED X'10',,C'X'
	.... 1...		TCBRV160	RESERVED X'08',,C'X'
	.... .1..		TCBRV161	RESERVED X'04',,C'X'
	.... ..1.		TCBRV162	RESERVED X'02',,C'X'
	.... ...1		TCBRV163	RESERVED X'01',,C'X'
30	(1E) BITSTRING	1	TCBRV164	RESERVED
	1... ..		TCBRV165	RESERVED X'80',,C'X'
	.1.		TCBRV166	RESERVED X'40',,C'X'
	..1.		TCBRV167	RESERVED X'20',,C'X'
	...1		TCBRV168	RESERVED X'10',,C'X'
	.... 1...		TCBRV169	RESERVED X'08',,C'X'
	.... .1..		TCBRV170	RESERVED X'04',,C'X'
	.... ..1.		TCBRV171	RESERVED X'02',,C'X'
	.... ...1		TCBRV172	RESERVED X'01',,C'X'
31	(1F) BITSTRING	1	TCBRV173	RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
1... ..			TCBRV174	X'80',,C'X' RESERVED
.1... ..			TCBRV175	X'40',,C'X' RESERVED
..1.			TCBRV176	X'20',,C'X' RESERVED
...1			TCBRV177	X'10',,C'X' RESERVED
.... 1...			TCBRV178	X'08',,C'X' RESERVED
.... .1..			TCBRV179	X'04',,C'X' RESERVED
.... ..1.			TCBRV180	X'02',,C'X' RESERVED
.... ...1			TCBRV181	X'01',,C'X' RESERVED

32	(20) FLOATING	8		FORCE LENGTH EQUATE TO DOUBLE WORD
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0	(0) BAL STMT	0		
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CROSS REFERENCE

TCBABCUR	236 (EC)	TCBDWSTA	31 X'01'
TCBABB	174 X'80'	TCBDYDSP	148 X'02'
TCBABE	174 X'01'	TCBDYNAM	180 X'0A'
TCBABF	20 (14)	TCBECB	144 (90)
TCBABGM	31 X'10'	TCBECBNV	277 X'04'
TCBABTRM	31 X'20'	TCBEOT	276 X'04'
TCBABWF	33 X'40'	TCBEOTFM	276 X'80'
TCBACTIV	240 X'80'	TCBERRTN	0 X'40'
TCBADINP	31 X'40'	TCBERTYP	266(10A)
TCBADMP	203 X'02'	TCBESTAE	264(108)
TCBADUMP	180 X'07'	TCBESTRM	265(109)
TCBAECB	212 (D4)	TCBETERM	265 X'80'
TCBAFFN	274(112)	TCBEVENT	8 (8)
TCBANDSP	33 X'10'	TCBEXCPD	192 (C0)
TCBAPG	202 X'02'	TCBEXSVC	204 X'01'
TCBAQE	156 (9C)	TCBEXT1	196 (C4)
TCBASYNC	0 X'80'	TCBEXT1A	197 (C5)
TCBATT	148 X'20'	TCBEXT2	208 (D0)
TCBBACK	220 (DC)	TCBEXT2A	209 (D1)
TCBBITS	200 (C8)	TCBFA	29 X'80'
TCBCASID	16 X'08'	TCBFABOP	30 X'20'
TCBCAUF	20 (14)	TCBFBYT1	276(114)
TCBCCFVI	242 (F2)	TCBFBYT2	277(115)
TCBCDBL	16 X'08'	TCBFC	33 X'80'
TCBCIND	16 X'02'	TCBFCD1	33 X'02'
TCBCLOSD	180 X'02'	TCBFDSOP	30 X'04'
TCBCLOSE	180 X'03'	TCBFDW	277 X'20'
TCBCLOSF	180 X'04'	TCBFE	29 X'40'
TCBCMP	16 (10)	TCBFERA	29 X'20'
TCBCMPC	17 (11)	TCBFETXR	30 X'02'
TCBCMPF	16 (10)	TCBFI	0 (0)
TCBCMSG	16 X'01'	TCBFJMC	30 X'08'
TCBCNCB	277 X'80'	TCBF LAG	28 X'F0'
TCBCOMM	238 X'FD'	TCBF LGS	29 (1D)
TCBCONVR	180 X'32'	TCBF LGS1	29 (1D)
TCBCPP	16 X'20'	TCBF LGS2	30 (1E)
TCBCPU	202 X'20'	TCBF LGS3	31 (1F)
TCBCPUBN	148 X'01'	TCBF LGS4	32 (20)
TCBCREQ	16 X'80'	TCBF LGS5	33 (21)
TCBCSTEP	16 X'40'	TCBF LGS6	202 (CA)
TCBCWTO	16 X'04'	TCBF LGS7	203 (CB)
TCBDAMSG	180 X'0B'	TCBF MW	277 X'40'
TCBDAR	204 (CC)	TCBFOE	244 (F4)
TCBDARC	204 X'10'	TCBFOEA	245 (F5)
TCBDARD	204 X'20'	TCBFOINP	30 X'80'
TCBDARET	180 X'33'	TCBFPRAP	277 X'10'
TCBDARMC	204 X'10'	TCBFRS	-32(-20)
TCBDARMS	204 X'02'	TCBFRS0	-32(-20)
TCBDARO	204 X'08'	TCBFRS2	-24(-18)
TCBDARP	204 X'80'	TCBFRS4	-16(-10)
TCBDARPN	96 X'40'	TCBFRS6	-8 (-8)
TCBDARS	204 X'40'	TCBFS	29 X'02'
TCBDARTN	173 X'80'	TCBFSA	112 (70)
TCBDARWT	204 X'04'	TCBF SAB	113 (71)
TCBDBTB	284(11C)	TCBF SM	31 X'80'
TCBDDEXC	184 (B8)	TCBF SMC	30 X'10'
TCBDDRND	32 X'08'	TCBF STI	30 X'40'
TCBDDWTC	186 (BA)	TCBFT	29 X'04'
TCBDEB	8 (8)	TCBFTS	30 X'01'
TCBDMPO	16 X'20'	TCBFX	29 X'01'
TCBDSP	35 (23)	TCBGPECB	203 X'80'
TCBDSPIT	0 X'20'	TCBGREC	180 X'05'
TCBDSS	174 X'02'	TCBGRPH	20 X'20'
TCBDSSID	238 X'F9'	TCBGRS	48 (30)

CROSS REFERENCE

TCBGRS0	48 (30)	TCBNDUMP	32 X'80'
TCBGRS1	52 (34)	TCBNEWRB	180 X'35'
TCBGRS10	88 (58)	TCBNOCC	16 X'10'
TCBGRS11	92 (5C)	TCBNOCHK	20 X'40'
TCBGRS12	96 (60)	TCBNONPR	29 X'10'
TCBGRS13	100 (64)	TCBNOSTA	180 X'30'
TCBGRS14	104 (68)	TCBNSTAE	160 (A0)
TCBGRS15	108 (6C)	TCBNTC	128 (80)
TCBGRS2	56 (38)	TCBNTJS	202 X'01'
TCBGRS3	60 (3C)	TCBOLTEP	20 X'02'
TCBGRS4	64 (40)	TCBONDSP	32 X'01'
TCBGRS5	68 (44)	TCBOPEN	180 X'01'
TCBGRS6	72 (48)	TCBOTC	132 (84)
TCBGRS7	76 (4C)	TCBOWAIT	174 X'04'
TCBGRS8	80 (50)	TCBPAGE	33 X'20'
TCBGRS9	84 (54)	TCBPAGID	238 X'FF'
TCBGTF	0 (0)	TCBPDUMP	29 X'08'
TCBGTF A	1 (1)	TCBPGNLY	276 X'10'
TCBGTOFM	203 X'01'	TCBPIE	4 (4)
TCBHALT	160 X'08'	TCBPIEA	5 (5)
TCBHNDSP	32 X'10'	TCBPIEND	32 X'02'
TCBINDRC	180 X'0E'	TCBPIE17	202 X'40'
TCBIOBRC	188 (BC)	TCBPKF	28 (1C)
TCBIORNS	238 X'FC'	TCBPM	4 X'0F'
TCBIOTIM	228 (E4)	TCBPMASK	4 (4)
TCBIQE	140 (8C)	TCBPNDSP	33 X'01'
TCBIWAIT	174 X'08'	TCBPPSUP	160 X'10'
TCBJES	238 X'FA'	TCBPQE	152 (98)
TCBJLB	40 (28)	TCBPTAXE	180 X'08'
TCBJPQ	44 (2C)	TCBPURGE	44 (2C)
TCBJPQB	45 (2D)	TCBQEL	112 (70)
TCBJPQF	44 X'80'	TCBQTIP	180 X'0C'
TCBJSCB	180 (B4)	TCBQUIES	160 X'40'
TCBJSCBB	181 (B5)	TCBRP	0 (0)
TCBJSTCA	125 (7D)	TCBRCMP	5 (5)
TCBJSTCB	124 (7C)	TCBREC	180 X'80'
TCBLJSND	175 X'80'	TCBRECDE	180 (B4)
TCBLLH	276 X'01'	TCBRPT	280(118)
TCBLLS	36 (24)	TCBRQENA	32 X'20'
TCBLMP	34 (22)	TCBRSPND	32 X'10'
TCBLOGID	238 X'F8'	TCBRSTND	32 X'20'
TCBLTC	136 (88)	TCBRSTSK	203 X'04'
TCBMASTR	238 X'FB'	TCBRSVAA	237 (ED)
TCBNCCNS	180 X'40'	TCBRSVAB	4 (4)
TCBMIDIOS	176 (B0)	TCBRSV01	20 X'10'
TCBMESG	180 X'09'	TCBRSV02	20 X'01'
TCBMIGR	202 X'04'	TCBRSV03	24 (18)
TCBMODE	267(10B)	TCBRSV06	31 X'08'
TCBMOD91	20 X'80'	TCBRSV07	31 X'04'
TCBMPEND	32 X'02'	TCBRSV08	31 X'02'
TCBMPCVQ	32 X'04'	TCBRSV09	44 X'40'
TCBMSS	24 (18)	TCBRSV10	44 X'20'
TCBMSSB	25 (19)	TCBRSV11	44 X'10'
TCBNDINT	175 X'01'	TCBRSV12	44 X'08'
TCBNDIOS	276 X'20'	TCBRSV13	44 X'04'
TCBNDSP	172 (AC)	TCBRSV14	44 X'02'
TCBNDSP0	172 (AC)	TCBRSV15	44 X'01'
TCBNDSP1	173 (AD)	TCBRSV16	124 (7C)
TCBNDSP2	174 (AE)	TCBRSV17	148 X'08'
TCBNDSP3	175 (AF)	TCBRSV18	148 X'04'
TCBNDSP4	200 (CB)	TCBRSV20	164 X'40'
TCBNDSP5	201 (C9)	TCBRSV22	32 X'01'
TCBND SVC	174 X'20'	TCBRSV24	175 X'10'
TCBNDS	174 X'10'	TCBRSV25	175 X'08'

CROSS REFERENCE

TCBRV26	175 X'04'	TCBRV145	26 (1A)
TCBRV27	175 X'02'	TCBRV146	28 (1C)
TCBRV32	196 (C4)	TCBRV147	28 X'80'
TCBRV33	203 X'40'	TCBRV148	28 X'40'
TCBRV34	203 X'20'	TCBRV149	28 X'20'
TCBRV37	205 (CD)	TCBRV150	28 X'10'
TCBRV39	208 (D0)	TCBRV151	28 X'08'
TCBRV41	239 (EF)	TCBRV152	28 X'04'
TCBRV42	244 (F4)	TCBRV153	28 X'02'
TCBRV43	0 X'10'	TCBRV154	28 X'01'
TCBRV44	0 X'08'	TCBRV155	29 (1D)
TCBRV45	0 X'04'	TCBRV156	29 X'80'
TCBRV46	0 X'02'	TCBRV157	29 X'40'
TCBRV47	0 X'01'	TCBRV158	29 X'20'
TCBRV49	12 (C)	TCBRV159	29 X'10'
TCBRV74	201 X'20'	TCBRV160	29 X'08'
TCBRV75	201 X'10'	TCBRV161	29 X'04'
TCBRV76	201 X'08'	TCBRV162	29 X'02'
TCBRV77	201 X'04'	TCBRV163	29 X'01'
TCBRV78	201 X'02'	TCBRV164	30 (1E)
TCBRV79	201 X'01'	TCBRV165	30 X'80'
TCBRV86	200 X'80'	TCBRV166	30 X'40'
TCBRV87	200 X'40'	TCBRV167	30 X'20'
TCBRV88	200 X'20'	TCBRV168	30 X'10'
TCBRV89	200 X'10'	TCBRV169	30 X'08'
TCBRV9A	164 X'04'	TCBRV170	30 X'04'
TCBRV9B	164 X'02'	TCBRV171	30 X'02'
TCBRV9C	164 X'01'	TCBRV172	30 X'01'
TCBRV90	200 X'08'	TCBRV173	31 (1F)
TCBRV91	200 X'04'	TCBRV174	31 X'80'
TCBRV92	200 X'02'	TCBRV175	31 X'40'
TCBRV93	200 X'01'	TCBRV176	31 X'20'
TCBRV94	201 X'80'	TCBRV177	31 X'10'
TCBRV95	201 X'40'	TCBRV178	31 X'08'
TCBRV97	164 X'20'	TCBRV179	31 X'04'
TCBRV98	164 X'10'	TCBRV180	31 X'02'
TCBRV99	164 X'08'	TCBRV181	31 X'01'
TCBRTH12	260(104)	TCBRV300	148 X'80'
TCBRTH2	276 X'08'	TCBRV301	160 X'02'
TCBRTHA	224 (E0)	TCBRV302	175 X'40'
TCBRV	202 X'80'	TCBRV303	202 X'08'
TCBRV113	276 X'02'	TCBRV308	265 X'40'
TCBRV122	277 X'02'	TCBRV309	265 X'20'
TCBRV123	277 X'01'	TCBRV310	265 X'10'
TCBRV124	278(116)	TCBRV311	265 X'08'
TCBRV125	278 X'80'	TCBRV312	265 X'04'
TCBRV126	278 X'40'	TCBRV313	265 X'02'
TCBRV127	278 X'20'	TCBRV314	265 X'01'
TCBRV128	278 X'10'	TCBRV316	16 X'04'
TCBRV129	278 X'08'	TCBRV317	16 X'02'
TCBRV130	278 X'04'	TCBRV318	16 X'01'
TCBRV131	278 X'02'	TCBRV319	240 X'20'
TCBRV132	278 X'01'	TCBRV320	240 X'10'
TCBRV133	279(117)	TCBRV321	240 X'08'
TCBRV134	279 X'80'	TCBRV322	240 X'04'
TCBRV135	279 X'40'	TCBRV323	240 X'02'
TCBRV136	279 X'20'	TCBRV324	240 X'01'
TCBRV137	279 X'10'	TCBRV325	241 (F1)
TCBRV138	279 X'08'	TCBRV326	272(110)
TCBRV139	279 X'04'	TCBRV327	276 X'40'
TCBRV140	279 X'02'	TCBSAVCD	180 X'0F'
TCBRV141	279 X'01'	TCBSCBKY	264(108)
TCBRV142	16 (10)	TCBSCNDY	172 (AC)
TCBRV144	24 (18)	TCBSER	32 X'40'

CROSS REFERENCE

TCBSMFGF	164 X'80'	TCBZERO	28 X'0F'
TCBSPVLK	202 X'10'	TCB33E	160 X'20'
TCBSRBND	175 X'20'		
TCBSSSYN	277 X'08'		
TCBSTAB	160 (A0)		
TCBSTAGB	161 (A1)		
TCBSTAGE	160 X'80'		
TCBSTACK	203 X'10'		
TCBSTAFX	252 X'80'		
TCBSTAHA	252 (FC)		
TCBSTCC	16 X'10'		
TCBSTCUR	160 X'01'		
TCBSTMCT	207 (CF)		
TCBSTP	33 X'04'		
TCBSTPCT	149 (95)		
TCBSTPP	174 X'40'		
TCBSTPFR	148 X'40'		
TCBSTRET	180 X'31'		
TCBSVCA2	292(124)		
TCBSVCS	203 X'08'		
TCBSWA	248 (F8)		
TCBSWASA	288(120)		
TCBSYERR	238 X'FE'		
TCBSYNCH	160 X'04'		
TCBSYS	33 X'08'		
TCBSYSCT	206 (CE)		
TCBS3A	240 X'40'		
TCBTCAMP	180 X'0D'		
TCBTCB	116 (74)		
TCBTCBID	256(100)		
TCBTCP	20 X'04'		
TCBTCPP	20 X'08'		
TCBTCT	164 (A4)		
TCBTCTB	165 (A5)		
TCBTCTGF	164 (A4)		
TCBTFLG	0 (0)		
TCBTID	238 (EE)		
TCBTIO	12 (C)		
TCBTIOTG	148 X'10'		
TCBTIRB	216 (D8)		
TCBTME	120 (78)		
TCBTMSAV	232 (E8)		
TCBTMSP	32 X'04'		
TCBTQET	120 X'80'		
TCBTRN	20 (14)		
TCBTRNB	21 (15)		
TCBTSDP	151 (97)		
TCBTSLG	148 (94)		
TCBTSLP	150 (96)		
TCBTSTSK	148 X'80'		
TCBTYPIR	180 X'34'		
TCBTYPIW	180 X'10'		
TCBUKYSF	268(10C)		
TCBUSER	168 (A8)		
TCBUXNDF	33 X'40'		
TCBUXNDV	32 X'08'		
TCBVTAM1	180 X'21'		
TCBVTAM2	180 X'22'		
TCBVTAM3	180 X'23'		
TCBVTAM4	180 X'24'		
TCBWTPSE	180 X'20'		
TCBXSCT	240 (F0)		
TCBXSCT1	240 (F0)		
TCBXTNT2	0 (0)		

TCCW

Common Name: IOS Translation Control Block

Macro ID: IECDTCCW

DSECT Name: TCCW

Created by: Caller of the CCW translation module, IECVTCCW

Subpool and Key: For EXCP 245 and key 0

Size: 160 bytes

Pointed to by: RQETCCW field of the RQE data area

Serialization: LOCAL lock

Function: Used by callers of the CCW translation module to request its services, the principal one being the translation of a virtual channel program into a real one. The TCCW points to the BEB that the CCW translation module is to use in building the real channel program.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	TCCW	

0	(0) A-ADDRESS	4	TCCWTCB	ADDRESS OF TCB FOR THIS REQUEST

4	(4) HEX	1	TCCWOPTN	OPTION BYTE DESCRIBING WORK TO BE DONE BY CCW TRANSLATOR
	.... ....		TCCWXLAT	0 TRANSLATE CCWS
	.... .1..		TCCWCSWX	4 TRANSLATE CSW OR PASSES ADDRESS
	.... 1...		TCCWUNFX	8 UNFIX DATA AREA SET UP FREE LST
	.... 11..		TCCWGTMN	12 RETURN FROM GETMAIN
	...1		TCCWSATR	16 SINGLE ADDRESS TRANSLATION
	1...		TCCWPGER	X'80' PAGE FIX ERROR
	1..1		TCCWTRER	X'90' TRANSLATION ERROR
	1.1.		TCCWIDAE	X'A0' IDA BIT ERROR IN VIRT CP
	11.1		TCCWVMER	X'D0' VALMAP ERROR
5	(5) A-ADDRESS	3	TCCWUCB	ADDRESS OF ASSOCIATED UCB

8	(8) A-ADDRESS	4	TCCWBEB	ADDRESS OF FIRST BEB

12	(C) A-ADDRESS	4	TCCWFIX	ADDRESS OF FIRST FIX LIST

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
16	(10) A-ADDRESS	4	TCCWFVC	ADDRESS OF FIRST VIRTUAL CCW
20	(14) A-ADDRESS	4	TCCWFRC	ADDRESS OF FIRST REAL CCW
24	(18) A-ADDRESS	4	TCCWPLKR	ADDRESS OF NEXT FIX LIST ENTRY
28	(1C) A-ADDRESS	4	TCCWINDA	ADDRESS OF FIRST IDAL
32	(20) A-ADDRESS	4	TCCWTICL	ADDRESS OF UNRESOLVED TIC LIST
36	(24) A-ADDRESS	4	TCCWINDR	ADDRESS OF NEXT IDAL POINTER
40	(28) A-ADDRESS	4	TCCWCCWR	ADDRESS OF NEXT VIRTUAL CCW
44	(2C) HEX	1	TCCWHODB	TRANSLATOR FLAG BYTE
	1... ..		TCCWRSV1	X'80' RESERVED
	.1.		TCCWRSV2	X'40' RESERVED
	.1.		TCCWRSV3	X'20' RESERVED
	...1		TCCWRSV4	X'10' RESERVED
	.... 1...		TCCWRSV5	X'08' RESERVED
	.... .1..		TCCWPC10	X'04' A ZERO IDAL ENTRY REQD
	.... .1.		TCCWPGCK	X'02' PAGE FIX/UNFIXING ACTIVE.
	.... ...1		TCCWECBU	X'01' ECB IN USE.
45	(2D) HEX	1	TCCWCCWL	NUMBER OF CCWS LEFT IN BEB
46	(2E) HEX	1	TCCWINDL	NUMBER OF IDAS LEFT IN IDAL
47	(2F) HEX	1	TCCWEFOP	NUMERIC PORTION OF CURRENT COMMAND
48	(30) A-ADDRESS	4	TCCWCCWA	NEXT VIRTUAL CCW
52	(34) A-ADDRESS	4	TCCWTICA	TIC-ED TO ADDRESS
56	(38) A-ADDRESS	4	TCCWLOCA	LOW COMPARE ADDRESS
60	(3C) A-ADDRESS	4	TCCWHICA	HIGH COMPARE ADDRESS

TCCW

TCCW
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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
64	(40) A-ADDRESS	4	TCCWCBE8	CURRENT BE8 POINTER
68	(44) HEX	1	TCCWOPBT	PREVIOUS OP BYTE
68	(44) A-ADDRESS	4	TCCWOPTR	PREVIOUS CCW ADDRESS
72	(48) HEX	32	TCCWSAVE	160 BYTE BLK REG SAVE AREA
72	(48) A-ADDRESS	4	TCCWSAVD	SAVE AREA FOR REG 13
76	(4C) A-ADDRESS	4	TCCWSAV4	SAVE AREA FOR REG 4
80	(50) A-ADDRESS	4	TCCWSAV5	SAVE AREA FOR REG 5
84	(54) A-ADDRESS	4	TCCWSAV6	SAVE AREA FOR REG 6
88	(58) A-ADDRESS	4	TCCWSAV7	SAVE AREA FOR REG 7
92	(5C) A-ADDRESS	4	TCCWSAV8	SAVE AREA FOR REG 8
96	(60) A-ADDRESS	4	TCCWSAV9	SAVE AREA FOR REG 9
100	(64) A-ADDRESS	4	TCCWSAVA	SAVE AREA FOR REG A
104	(68) HEX	56	TCCWRGSV	TRANSLATOR REG SAVE AREA
104	(68) A-ADDRESS	4	TCCWREG1	SAVE AREA FOR REG 1
108	(6C) A-ADDRESS	4	TCCWREG2	SAVE AREA FOR REG 2
112	(70) A-ADDRESS	4	TCCWREG3	SAVE AREA FOR REG 3
116	(74) A-ADDRESS	4	TCCWREG4	SAVE AREA FOR REG 4
120	(78) A-ADDRESS	4	TCCWREG5	SAVE AREA FOR REG 5
124	(7C) A-ADDRESS	4	TCCWREG6	SAVE AREA FOR REG 6
128	(80) A-ADDRESS	4	TCCWREG7	SAVE AREA FOR REG 7
132	(84) A-ADDRESS	4	TCCWREG8	SAVE AREA FOR REG 8

TCCW

TCCW

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
136	(88) A-ADDRESS	4	TCCWREG9	SAVE AREA FOR REG 9
140	(8C) A-ADDRESS	4	TCCWREGA	SAVE AREA FOR REG 10
144	(90) A-ADDRESS	4	TCCWREGB	SAVE AREA FOR REG 11
148	(94) A-ADDRESS	4	TCCWREGC	SAVE AREA FOR REG 12
152	(98) A-ADDRESS	4	TCCWREGD	SAVE AREA FOR REG 13
156	(9C) A-ADDRESS	4	TCCWREGE	SAVE AREA FOR REG 14

TDCM

Common Name: DIDOCS Pageable DCMs

Macro ID: IEETDCM

DSECT Name: DCMSTRT

Created by: SYSGEN and module, IEECVETG (DIDOCS OPEN/CLOSE routine)

Subpool and Key: 241 and Key 0

Size: 461 bytes

Pointed to by: DCMADTRN field of the RDCM data area

Serialization: LOCAL and CMS locks

Function: Work and save areas; communications area and module addresses.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	DCMSTRT	DCMSTPTR
0	(0) SIGNED	4		FULL WORD ALIGNMENT
0	(0) SIGNED	2		DCM LENGTH
2	(2) SIGNED	2		PADDING
4	(4) BITSTRING	1	DCMFLG1	DCM AREA INDICATORS
	.... .1.		DCMOUTPT	X'02' DCM UPDATED FOR OUTPUT ONLY
5	(5) HEX	1	DCMATI	SAVED UCB ATTN INDEX MC
6	(6) A-ADDRESS	2		RESERVED MC
8	(8) A-ADDRESS	4	DCMWTINT	DCMWTINT INITIAL VALUE
12	(C) SIGNED	2	DCMLNCNT	NUMBER OF LINES TO BLANK MC
14	(E) HEX	1	DCMLNNUM	FIRST LINE TO BLANK MC
15	(F) HEX	1		RESERVED MC
16	(10) SIGNED	4	DCMPACK	AREA TO PLACE NUMBER FOR PACKING
20	(14) SIGNED	4	DCMCVBIN	AREA FOR CONVERSION TO BINARY
24	(18) BITSTRING	1	DCMTIMES	TIME RTNS INDICATOR BYTE
	1...		DCMTIMER	X'80' TIME ELAPSED FOR THIS DISPLAY
	.1..		DCMOPTTI	X'40' OPTIONS TO TI RTN
	...1		DCMOTTHM	X'10' OPTIONS OR TI RTNS TO MSG MODULE
	.... .1..		DCMTASYN	X'04' TIMER SET FOR ASYNC ERROR MSG

TDCM

TDCM

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
....	...1.		DCMOCTTI	X'02' OPEN-CLOSE TO TI RTN
....	...1		DCMRMTTI	X'01' ROLL MODE TO TIMER ROUTINE
25	(19) HEX	1		UNUSED
26	(1A) SIGNED	2	DCMELGN	ENTRY AREA LAST CHARACTER POINTER

28	(1C) A-ADDRESS	4	DCMBUFAD	POINTER TO BUFFER ADDRESS TABLE

32	(20) A-ADDRESS	4	DCMDOMPK	ADDRESS OF FIRST DOM NUMBER

36	(24) A-ADDRESS	4	DCMIANTAB	ADDRESS OF FIRST SCT ENTRY

40	(28) A-ADDRESS	4	DCMADSEC	ADDRESS OF FIRST SSCT ENTRY

44	(2C) A-ADDRESS	4	DCMADDRL	ADDRESS OF LAST SCT ENTRY

48	(30) A-ADDRESS	4	DCMASCRN	POINTER TO SCREEN IMAGE BUFFER

52	(34) A-ADDRESS	4	DCMLSCRN	POINTER TO LAST BUFFER LINE

56	(38) A-ADDRESS	4	DCMWTBUF	SCREEN LENGTH POINTER

60	(3C) A-ADDRESS	4	DCMAINS	POINTER TO INSTRUCTION LINE

64	(40) A-ADDRESS	4	DCMAENTR	POINTER TO ENTRY AREA

68	(44) A-ADDRESS	4	DCMAWARN	POINTER TO WARNING LINE

72	(48) A-ADDRESS	4	DCMADCHP	ADDRESS OF CHANNEL PROGRAM AREA

76	(4C) A-ADDRESS	4	DCMPFKLN	POINTER TO PFK LINE

80	(50) SIGNED	4	DCMCXSVE	CXSA SAVE AREA

84	(54) A-ADDRESS	4	DCMADOPN	ADDRESS OF COMMAND OPERAND

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
88	(58) SIGNED	4	DCMDSAV(5)	SAVE AND WORK AREA
=====				
INPUT BUFFER FOR ISSUING SVC 34 AND SVC 35				
FIELDS DCMWQEXP THROUGH DCMINPUT MUST REMAIN IN ORDER *				

108	(6C) SIGNED	4	DCMWQEXP	ENSURE FULL WORD BOUNDARY

108	(6C) SIGNED	2	DCMINLGN	FIELD FOR INPUT LENGTH
110	(6E) SIGNED	2	DCMCSFL	MCS FLAGS FIELD

112	(70) SIGNED	4	DCMINPUT(32)	INPUT MESSAGE TEXT

240	(F0) SIGNED	2	DCMLGNTH	LENGTH OF A LINE
242	(F2) SIGNED	2	DCMBAINC	ADDRESS TO INSERT CURSOR

244	(F4) SIGNED	2	DCMIRCTR	INTERVENTION REQ'D MSG COUNTER
246	(F6) SIGNED	2	DCMBADLN	BUFFER ADDR TO BEGIN MSG WRITE

248	(F8) SIGNED	2	DCMBYTCT	NUMBER OF BYTES TO WRITE
250	(FA) SIGNED	2	DCMADNUM	NEXT LINE NUMBER

252	(FC) SIGNED	2	DCMAXLGN	MAXIMUM LINE LENGTH
254	(FE) SIGNED	2	DCMMSGAL	NUMBER OF LINES IN MESSAGE AREA

256	(100) SIGNED	2	DCMRHINC	INCREMENT INTO RMI
258	(102) SIGNED	2	DCMSCTCN	LENGTH OF ONE SCT ENTRY

260	(104) SIGNED	2	DCMCORLN	LENGTH OF DCM LINE IN CORE
262	(106) SIGNED	2		TIME COUNTER

264	(108) HEX	1	DCMPFKNM	NUMBER OF KEY BEING PROCESSED
265	(109) HEX	1	DCMPFKKN	LIST KEY NUMBER
266	(10A) CHARACTER	2	DCMDEL	DEL VALUE

268	(10C) CHARACTER	1	DCMCON	CON VALUE
269	(10D) SIGNED	1	DCMSEG	SEG VALUE
270	(10E) SIGNED	1	DCMDL	DISPLAY AREA OPTION

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
271 (10F)	SIGNED	1	DCMRNUM	ROLL NUMBER VALUE
272 (110)	SIGNED	2	DCMRIME	ROLL TIME VALUE
=====				
DEFAULT VALUES FOR OPTIONS				
274 (112)	SIGNED	1	DCMSEGDF	SEG DEFAULT
275 (113)	SIGNED	1	DCMRNUMD	RNUM DEFAULT
276 (114)	SIGNED	2	DCMRIMED	RTIME DEFAULT
278 (116)	HEX	1	DCMASKEN	ENTER MASK
279 (117)	HEX	1	DCMASKCN	CANCEL MASK
280 (118)	HEX	1	DCM\$KCR	CURSOR MASK
281 (119)	HEX	1	DCM\$KLP	LIGHT MASK
282 (11A)	HEX	1	DCM\$KPF	PFK MASK
=====				
COMMUNICATIONS AREA				
283 (11B)	BITSTRING	1	DCMPTST	STATUS OF SCREEN CONTROL OPTIONS
	1... ..		DCMPTVR	X'80' DELETE VERIFICATION CON=(Y=1,N=0)
	.1... ..		DCMPTAD	X'40' AUTOMATIC DELETION DEL=(Y=1,N=0)
	..1.		DCMPTSG	X'20' DEFAULT SEGMENT SPECIFIED SEG=(0=0)
	...1		DCMOPRL	X'10' ROLL MODE (Y=1,N=0)
284 (11C)	BITSTRING	1	DCMCS	OPEN/CLOSE REQUEST
	1... ..		DCMCSC	X'80' CLOSE REQUEST
	.1... ..		DCMCSD	X'40' OPEN REQUEST
285 (11D)	BITSTRING	1	DCMUTILT	RESERVED
	1... ..		DCMUTILA	X'80' THESE BITS ARE
	.1... ..		DCMUTILB	X'40' INITIALIZED AND USED
	..1.		DCMUTILC	X'20' SOLELY WITHIN
	...1		DCMUTILD	X'10' EACH MODULE
	.... 1...		DCMUTILE	X'08' THEY ARE NEVER
	.... .1..		DCMUTILF	X'04' USED FOR INTERFACE
	.... ..1.		DCMTEST1	X'02' FOR TESTING

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... .1		DCMTEST2	X'01' FOR TESTING
286	(11E) BITSTRING	1	DCMDSTAT	CURRENT DISPLAY STATUS
	..1.		DCMDSTNM	X'20' MESSAGES ARE NUMBERED
	...1		DCMDSTNH	X'10' MSGS NUMBERED HOLD OPTION
	.... 1...		DCMDSINR	X'08' INTERVENTION REQ'D DELETION TRIED
	.... .1..		DCMDSAUT	X'04' AUTOMATIC DELETION TRIED
287	(11F) BITSTRING	1	DCMCSST	MCS INTERFACE BYTE
	1...		DCMDUSE	X'80' OUR SUPPORT IN CONTROL
	.... .1..		DCMOOMSS	X'04' MESSAGE STREAM ENTRY
	.... .1		DCMOOSDS	X'01' STATUS DISPLAY ENTRY
=====				
288	(120) BITSTRING	1	DCMIOUNQ	UNIQUE IO BYTE
=====				
UNIQUE INTERFACE BITS FOR 2260				
	1...		DCMIO226	X'80' RMI PERFORMED
	.1..		DCMRPCUR	X'40' ALVANCE CURSOR TO BLANKS
	..1.		DCMFRSCN	X'20' PUT OUTPUT IN HOLD MODE
=====				
UNIQUE INTERFACE BITS FOR 2250				
	...1		DCMRDARM	X'10' PERFORM READ AFTER RMI
	.... 1...		DCMW2250	X'08' DEVICE IS 2250
	.... .1..		DCMINNOR	X'04' NORMAL INSTRUCTION LINE
	.... ..1.		DCMINERR	X'02' ERROR INSTRUCTION LINE
289	(121) BITSTRING	1	DCMIOCM1	IO COMMUNICATIONS BYTE 1
	1...		DCMDORMI	X'80' ISSUE RMI
	.1..		DCMSOUND	X'40' SOUND ALARM
	..1.		DCMWRWRN	X'20' WRITE WARNING LINE

TDCM

TDCM

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
....1			DCMWRMSG	X'10' WRITE FULL MESSAGE AREA
.... 1...			DCMWRPAR	X'08' WRITE PARTIAL MESSAGE AREA
.... .1..			DCMWRINS	X'04' WRITE INSTRUCTION LINE
.... ..1.			DCMWRENT	X'02' WRITE ENTRY AREA
....1			DCMINSC	X'01' INSERT CURSOR
290 (122) BITSTRING		1	DCMIOCM2	IO COMMUNICATIONS BYTE 2
1...			DCMBLENT	X'80' BLANK ENTRY AREA
.1..			DCMBLWRL	X'40' BLANK LEFT HALF WARNING LINE
..1.			DCMBLWRR	X'20' BLANK RIGHT HALF WARNING LINE
...1			DCMINSSH	X'10' INIT AND SHIFT INSTRUCTION LINE
.... 1...			DCMWINFD	X'08' WRITE INFORMATIONAL DISPLAY
.... .1..			DCMERASE	X'04' PERFORM ERASE
.... ..1.			DCMIOCRD	X'02' PERFORM READ (2250,22DOC)
....1			DCMWRASY	X'01' WRITE ASYNC ERROR MSG TO MID-SCREEN
291 (123) BITSTRING		1	DCMIOCM3	IO COMMUNICATIONS BYTE 3
1...			DCMOPRMI	X'80' RMI AFTER OPEN TO UNLOCK KEYBOARD
.1..			DCMSSRG	X'40' SUPPRESS START REGENERATION
...1			DCMWRPFK	X'10' DCM WRITE PFK AREA
.... 1...			DCMPFKAT	X'08' PFK ATTENTION
.... .1..			DCMRDPFK	X'04' PFK AREA READ
.... ..1.			DCMACPFK	X'02' TURN ACTIVE PFK LIGHTS ON
....1			DCMLTPFK	X'01' TURN ALL PFK LIGHTS ON

TDCM

TDCM
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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
292	(124) HEX	1	DCMLINEN	LINE NUMBER TO BEGIN WRITE
293	(125) HEX	1	DCMCULNO	LINE IN ENTRY AREA TO INSERT CURSOR
294	(126) HEX	1	DCMPOSCU	POSITION TO INSERT CURSOR
295	(127) BITSTRING	1	DCMASYNC	ASYN ERROR COMMUNICATIONS/ RETRY BYTE
	.1..		DCMASDA	X'40' RETRY BIT
	..1.		DCMASIN	X'20' RETRY BIT
	...1		DCMASBA	X'10' RETRY BIT
	.... 1...		DCMASLOG	X'08' LOG ASYNCHRONOUS ERROR

296	(128) BITSTRING	1	DCMCOM1	COMMUNICATIONS BYTE
	1...		DCMLPENT	X'80' ENTER BY LP OR CURSOR
	.1..		DCMIOPRD	X'40' READ PERFORMED
	..1.		DCMCOMRM	X'20' RMI PERFORMED
	...1		DCMCOMAU	X'10' PERFORM AUTO DELETE
	.... 1...		DCMCOMRD	X'08' PERFORM REGULAR DELETE
	.... .1..		DCMCOMNM	X'04' NUMBER MESSAGES
	.... ...1		DCMCANCL	X'01' INDICATE CANCEL TO COMMAND ROUTINE
297	(129) BITSTRING	1	DCMCOM2	COMMUNICATIONS BYTE
	1...		DCMCH2I	X'80' INPUT TO BE PROCESSED
	.1..		DCMSPLIT	X'40' MSG TO BE SPLIT
	..1.		DCMCOMAR	X'20' ACCEPTED REPLY
	.... 1...		DCMERPF	X'08' ERASE PERF-PROC CAN NOW CLOSE DEVICE
	.... .1..		DCMCHIN5	X'04' RETURN TO INTER. 5 FOR BLNK
	.... ...1		DCMCBLNK	X'02' BLANKING REQUIRED
	.... ...1		DCMAE	X'01' CLEANUP FOR ASY ERROR COMMUNICATIONS BYTE
298	(12A) BITSTRING	1	DCMCOM3	COMMUNICATIONS BYTE
	1...		DCMCDSP3	X'80' DISPLAY 3 COMPLETED WORK

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.1..			DCMRTPFK	X'40' RETURN TO PFK ROUTINE
..1.			DCMVLPFK	X'20' VERIFYING LAST COMMAND
...1			DCMXINT1	X'10' ENTRY FOR INTERFACE 1 ROUTINE
.... 1...			DCMOLUNV	X'08' O-O-L MSG CAUSED UNVIEW. MSG.
.... .1..			DCMPFKWR	X'04' WRITE PFK UPDATES TO LIB
.... ..1.			DCMOLHLD	X'02' OUT OF LINE MESSAGES HELD MB
.... ...1			DCMCMIN7	X'01' RETURN TO INTER. 7 FOR BLANKING MSG MODULE COMMUNICATIONS BYTE 1
299 (12B) BITSTRING		1	DCMCHSG1	
1...			DCMMSGWT	X'80' MOVE IN MESSAGE WAITING
.1..			DCMUNMSG	X'40' MOVE IN UNVIEWABLE MESSAGE
..1.			DCMSTEX	X'20' MOVE IN STATUS EXISTS
...1			DCMCHOPT	X'10' MOVE IN CHANGE OPTIONS
.... 1...			DCMELONG	X'08' MOVE IN ENTRY TOO LONG
.... .1..			DCMWRCDL	X'04' MOVE IN CON=N,DEL=Y
.... ..1.			DCMDELNT	X'02' MOVE IN DEL UNCHANGED, NO TIMER

300 (12C) BITSTRING		1	DCMMSG2	MSG MODULE COMMUNICATIONS BYTE 2
1...			DCMDLREQ	X'80' MOVE IN DELETION REQUESTED
.1..			DCMRQINC	X'40' MOVE IN REQUEST INCONSISTENT
..1.			DCMMSGCR	X'20' MOVE IN INVALID CURSOR OPERATION
...1			DCMINVOP	X'10' MOVE IN INVALID OPERAND
.... 1...			DCMCILLP	X'08' MOVE IN ILLEGAL LP OPERATION
.... .1..			DCMDELRI	X'04' MOVE IN DELETE REQUEST INCONSISTANT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... ..1.		DCMASYRT	X'02' MOVE IN ASYN ERROR RETRYABLE
	.... ...1		DCMASYCD	X'01' MOVE IN ASYN ERROR MAYBE RETRYABLE
301	(12D) BITSTRING	1	DCMMSG3	MSG MODULE COMMUNICATIONS BYTE 3
	1...		DCMCHRL	X'80' MOVE IN ROLL MODE MESSAGE
	.1..		DCMCDLR1	X'40' NO DELETABLE MESSAGES
	..1.		DCMCDLR2	X'20' INVALID RANGE
	...1		DCMCDLR3	X'10' SEG EQU TO ZERO
	.... 1...		DCMCDLR4	X'08' DISPLAY NOT ON SCREEN
	.... .1..		DCMCDLR5	X'04' INVALID OPERAND
	.... ...1		DCMDTBSY	X'01' COMMAND REJECTED TASK BUSY
302	(12E) BITSTRING	1	DCMMSG4	MSG MODULE COMMUNICATIONS BYTE 4
	1...		DCMPFKNA	X'80' MOVE IN PFK NOT ALLOCATED FOR
	.1..		DCMPFKND	X'40' MOVE IN PFK NOT DEFINED
	..1.		DCMPFKNO	X'20' MOVE IN NO PFK ALLOCATION
	...1		DCMPFKIP	X'10' MOVE IN PFK IN PROCESS
303	(12F) BITSTRING	1	DCMSVC34	SVC 34 COMMUNICATION BYTE
	1...		DCMMYCMD	X'80' COMMAND TO BE HANDLED BY THIS CONS
	.1..		DCMINVLD	X'40' INVALID K COMMAND
	..1.		DCMTYPE1	X'20' K COMMAND IS NOT ROUTABLE

304	(130) HEX	1	DCMPAD	RESERVED COMMUNICATION BYTE
305	(131) HEX	1	DCMIOND	INDEX FOR SELECTING THE MB APPROPRIATE I/O ROUTINE MB X'04' M/165 CONSOLE MB X'08' 2250 MB

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
306	(132) SIGNED	2	DCMTEST	X'0C' 2260 MB X'10' 3277 MB RESERVED FOR TESTING MB MODULE ADDRESSES
308	(134) SIGNED	4	DCMIORTN	APPROIATE I/O ROUTINE MB NAME TRACE ID DESCRIPTION MB IEECVETH EH 3066(M/165) IO ROUTINE MB IEECVETP EP 2250 IO ROUTINE MB IEECVETR ER 2260 IO ROUTINE MB IEECVETU EU 3277 IO ROUTINE MB NAME TRACE ID DESCRIPTION MB
312	(138) SIGNED	4	DCMNPZR	IEECVFT1 F1 PROCESSOR 0 LOAD ONE MB
316	(13C) SIGNED	4	DCMNPOR	IEECVET1 E1 PROCESSOR ROUTINE LOAD ONE MB
320	(140) SIGNED	4	DCMNDSP1	IEECVET2 E2 DISPLAY ROUTINE 1 MB
324	(144) SIGNED	4	DCMNDSP2	IEECVET3 E3 DISPLAY ROUTINE 2 MB
328	(148) SIGNED	4	DCMNDSP3	IEECVFT2 F2 DISPLAY ROUTINE 3 MB
332	(14C) SIGNED	4	DCMNCMD1	IEECVET4 E4 COMMAND ROUTINE 1 MB
336	(150) SIGNED	4	DCMNDL1	IEECVET6 E6 DELETE ROUTINE 1 MB
340	(154) SIGNED	4	DCMNDL2	IEECVET7 E7 DELETE ROUTINE 2 MB
344	(158) SIGNED	4	DCMNDL3	IEECVET8 E8 DELETE ROUTINE 3 MB

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
348	(15C) SIGNED	4	DCMNDL4	IEECVET9 E9 DELETE ROUTINE 4 MB
352	(160) SIGNED	4	DCMNOPT1	IEECVETA EA OPTIONS ROUTINE 1 MB
356	(164) SIGNED	4	DCMNPFK1	IEECVFTA FA PFK ROUTINE 1 MB
360	(168) SIGNED	4	DCMNPFK2	IEECVFTB FB PFK ROUTINE 2 MB
364	(16C) SIGNED	4	DCMNERRO	IEECVETC EC ASYNCHRONOUS ERROR ROUTINE MB
368	(170) SIGNED	4	DCMNMSG1	IEECVETD ED MESSAGE ROUTINE 1 MB
372	(174) SIGNED	4	DCMNMSG2	IEECVETE EE MESSAGE ROUTINE 2 MB
376	(178) SIGNED	4	DCMNMSG3	IEECVFTD FD MESSAGE ROUTINE 3 MB
380	(17C) SIGNED	4	DCMNLPCR	IEECVETF EF LIGHT PEN/CURSORS SERVICE MB
384	(180) SIGNED	4	DCMNOPL	IEECVETG EG OPEN-CLOSE ROUTINE MB
388	(184) SIGNED	4	DCMNCLN	IEECVFTG FG CLEANUP MODULE MB
392	(188) SIGNED	4	DCMNRLL	IEECVETJ EJ ROLL MODE ROUTINE MB
396	(18C) SIGNED	4	DCMNTIMR	IEECVETK EK TIMER INTERPRETER ROUTINE MB
400	(190) SIGNED	4	DCMNINT1	IEECVFTL FL INTERFACE 1 ROUTINE MB
404	(194) SIGNED	4	DCMNINT2	IEECVFTM FM INTERFACE 2 ROUTINE MB

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
408 (198)	SIGNED	4	DCMNINT3	IEECVFTN FN INTERFACE 3 ROUTINE MB
412 (19C)	SIGNED	4	DCMNINT4	IEECVFTO FO INTERFACE 4 ROUTINE MB
416 (1A0)	SIGNED	4	DCMNINT5	IEECVFTP FP INTERFACE 5 ROUTINE MB
420 (1A4)	SIGNED	4	DCMNINT6	IEECVFTQ FQ INTERFACE 6 ROUTINE MB
424 (1A8)	SIGNED	4	DCMNINT7	IEECVFTT FT INTERFACE 7 ROUTINE MB
428 (1AC)	CHARACTER	30	DCMTRACE	DIDOCs MODULE TRACE AREA MB
458 (1CA)	CHARACTER	1	DCMTREN1	1ST BYTE OF TRACE ENTRY MB
459 (1CB)	CHARACTER	1	DCMTREN2	2ND BYTE OF TRACE ENTRY MB

FIRST BYTE OF SCT ENTRIES

1...	DCMMSGWR	X'80'	WTOR MESSAGE DISPLAYED IN LINE
.1..	DCMMSGIN	X'40'	MESSAGE DISPLAYED IN LINE
..1.	DCMMSGCN	X'20'	MESSAGE CONTINUED ON NEXT LINE
...1	DCMMSGJK	X'10'	TO WRITE OUT-OF-LINE DISPLAY FROM MAY CONTAIN JUNK (SDS INTERFACE 2)
.... 1..	DCMMSGAD	X'08'	MESSAGE CAN BE DELETED AUTOMATICALLY
.... .1..	DCMMSGRD	X'04'	REQUEST HAS SPECIFIED MSG BE REMOVED
.... ..1.	DCMMSGIF	X'02'	INFORMATIONAL MESSAGE IN LINE
.... ...1	DCMMSGST	X'01'	END OF TABLE INDICATOR

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
SECOND BYTE OF SCT ENTRIES				
1... ..			DCMMSGAC	X'80' ACTION MESSAGE
.1.. ..			DCMMSGC7	X'40' DESCRIPTOR CODE 7 MESSAGE
..1.			DCMMSGDM	X'20' MESSAGE HAS BEEN DOMMED
...1			DCMMSGAR	X'10' MESSAGE IS AN ACCEPTED REPLY
.... 1...			DCMMSGIR	X'08' INTERVENTION REQUIRED MESSAGE
.... .1..			DCMMSGCT	X'04' CONTINUATION LINE
.... ..1.			DCMMSGPP	X'02' ISSUED BY PROBLEM PROGRAM
.... ...1			DCMMSGCL	X'01' CONTROL LINE OF IN LINE MLWTO
=====				

SECONDARY SCT ENTRIES

1... ..			DCMSECCL	X'80' CONTROL LINE OF OUT OF LINE DISPLAY
.1.. ..			DCMSECLL	X'40' LABEL LINE OF OUT OF LINE DISPLAY
..1.			DCMSECDL	X'20' DATA LINE OF OUT OF LINE DISPLAY
...1			DCMSECBL	X'10' THIS LINE IS BLANKED
.... ..1.			DCMSECDD	X'02' LINE RESERVED FOR DYNAMIC DISPLAY
.... ...1			DCMSECST	X'01' END OF TABLE INDICATOR

 460 (1CC) CHARACTER 1 DCMEND END OF DCM

CROSS REFERENCE

DCMACPFK	291 X'02'	DCMCULNO	293(125)
DCMADCHP	72 (48)	DCMCVBIN	20 (14)
DCMADDRL	44 (2C)	DCMCXSVE	80 (50)
DCMADNUM	250 (FA)	DCMDEL	266(10A)
DCMADOFN	84 (54)	DCMDELHT	299 X'02'
DCMADSEC	40 (28)	DCMDELRI	300 X'04'
DCMAE	297 X'01'	DCMDL	270(10E)
DCMAENTR	64 (40)	DCMDLREQ	300 X'80'
DCMAINS	60 (3C)	DCMDOMPK	32 (20)
DCMAMTAB	36 (24)	DCMDORMI	289 X'80'
DCMASBA	295 X'10'	DCMDSAUT	286 X'04'
DCMASCRN	48 (30)	DCMDSAV	88 (58)
DCMASDA	295 X'40'	DCMDSINR	286 X'08'
DCMASIN	295 X'20'	DCMDSTAT	286(11E)
DCMASCN	279(117)	DCMDSTNH	286 X'10'
DCMASCRCR	280(118)	DCMDSTRM	286 X'20'
DCMASCEN	278(116)	DCMDTBSY	301 X'01'
DCMASKLP	281(119)	DCMDUSE	287 X'80'
DCMASKPF	282(11A)	DCMELGN	26 (1A)
DCMASLOG	295 X'08'	DCMELONG	299 X'08'
DCMASYCD	300 X'01'	DCMEND	460(1CC)
DCMASYHC	295(127)	DCMERASE	290 X'04'
DCMASYRT	300 X'02'	DCMERPF	297 X'08'
DCMATI	5 (5)	DCMFLGI	4 (4)
DCMAWARN	68 (44)	DCMFRSCH	288 X'20'
DCMAXLGN	252 (FC)	DCMIHERR	288 X'02'
DCMBADLN	246 (F6)	DCMINLGN	108 (6C)
DCMBAINC	242 (F2)	DCMINHOR	288 X'04'
DCMBLENT	290 X'80'	DCMINPUT	112 (70)
DCMBLHRL	290 X'40'	DCMINSC	289 X'01'
DCMBLHRR	290 X'20'	DCMINSSH	290 X'10'
DCMBUFAD	28 (1C)	DCMINVLD	303 X'40'
DCMBYTCT	248 (F8)	DCMINVOP	300 X'10'
DCMCANCL	296 X'01'	DCMIOCM1	289(121)
DCMCBLNK	297 X'02'	DCMIOCM2	290(122)
DCMCDLR1	301 X'40'	DCMIOCM3	291(123)
DCMCDLR2	301 X'20'	DCMIOCRD	290 X'02'
DCMCDLR3	301 X'10'	DCMIONDX	305(131)
DCMCDLR4	301 X'08'	DCMIOFRD	296 X'40'
DCMCDLR5	301 X'04'	DCMIORTN	308(134)
DCMCDSP3	298 X'80'	DCMIOUNQ	288(120)
DCMCHOPT	299 X'10'	DCMIO226	288 X'80'
DCMCILLP	300 X'08'	DCMIRCTR	244 (F4)
DCMCMIN5	297 X'04'	DCMLGNTH	240 (F0)
DCMCMIN7	298 X'01'	DCMLINEN	292(124)
DCMCMRLL	301 X'80'	DCMLNCNT	12 (C)
DCMCMG1	299(12B)	DCMLNNUM	14 (E)
DCMCMG2	300(12C)	DCMLNPENT	296 X'80'
DCMCMG3	301(12D)	DCMLSCRN	52 (34)
DCMCMG4	302(12E)	DCMLTPFK	291 X'01'
DCMCM2I	297 X'80'	DCMHCST	110 (6E)
DCMCOMAR	297 X'20'	DCMHCST	287(11F)
DCMCOMAU	296 X'10'	DCMMSGAC	459 X'80'
DCMCOMHM	296 X'04'	DCMMSGAD	459 X'08'
DCMCOMRD	296 X'08'	DCMMSGAL	254 (FE)
DCMCOMRM	296 X'20'	DCMMSGAR	459 X'10'
DCMCOM1	296(128)	DCMMSGCL	459 X'01'
DCMCOM2	297(129)	DCMMSGCN	459 X'20'
DCMCOM3	298(12A)	DCMMSGCR	300 X'20'
DCMCON	268(10C)	DCMMSGCT	459 X'04'
DCMCORLN	260(104)	DCMMSGC7	459 X'40'
DCMCS	284(11C)	DCMMSGDM	459 X'20'
DCMCSC	284 X'80'	DCMMSGIF	459 X'02'
DCMCSC	284 X'40'	DCMMSGIN	459 X'40'

CROSS REFERENCE

DCMMSGIR	459 X'08'	DCMRDPFK	291 X'04'
DCMMSGJK	459 X'10'	DCMRMINC	256(100)
DCMMSGPP	459 X'02'	DCMRMTTI	24 X'01'
DCMMSGRO	459 X'04'	DCMRNUM	271(10F)
DCMMSGST	459 X'01'	DCMRNUMD	275(113)
DCMMSGWR	459 X'80'	DCMRPCUR	288 X'40'
DCMMSGWT	299 X'80'	DCMRQINC	300 X'40'
DCMNYCHD	303 X'80'	DCMRTIME	272(110)
DCMNCLN	388(184)	DCMRTNED	276(114)
DCMNCHD1	332(14C)	DCMRTPFK	298 X'40'
DCMNDEL1	336(150)	DCMSCTCN	258(102)
DCMNDEL2	340(154)	DCMSECBL	459 X'10'
DCMNDEL3	344(158)	DCMSECCL	459 X'80'
DCMNDEL4	348(15C)	DCMSECDD	459 X'02'
DCMNDSP1	320(140)	DCMSECDL	459 X'20'
DCMNDSP2	324(144)	DCMSECLL	459 X'40'
DCMNDSP3	328(148)	DCMSECST	459 X'01'
DCMNERRO	364(16C)	DCMSEG	269(10D)
DCMNINT1	400(190)	DCMSEMGDF	274(112)
DCMNINT2	404(194)	DCMSOUND	289 X'40'
DCMNINT3	408(198)	DCMSPLIT	297 X'40'
DCMNINT4	412(19C)	DCMSSRG	291 X'40'
DCMNINT5	416(1A0)	DCMSTEX	299 X'20'
DCMNINT6	420(1A4)	DCMSTRT	0 (0)
DCMNINT7	424(1A8)	DCMSVC34	303(12F)
DCMNLPCR	380(17C)	DCMTASYN	24 X'04'
DCMNMSG1	368(170)	DCMTEST	306(132)
DCMNMSG2	372(174)	DCMTEST1	285 X'02'
DCMNMSG3	376(178)	DCMTEST2	285 X'01'
DCMNOFCL	384(180)	DCMTINER	24 X'80'
DCMNOPT1	352(160)	DCMTIMES	24 (18)
DCMNPFK1	356(164)	DCMTRACE	428(1AC)
DCMNPFK2	360(168)	DCMTREN1	458(1CA)
DCMNPROC	316(13C)	DCMTREN2	459(1CB)
DCMNPFRZ	312(138)	DCMTYPE1	303 X'20'
DCMNROLL	392(188)	DCMUNMSG	299 X'40'
DCMNTIMR	396(18C)	DCMUTILA	285 X'80'
DCMNOCTI	24 X'02'	DCMUTILB	285 X'40'
DCMNLHLD	298 X'02'	DCMUTILC	285 X'20'
DCMNLUNV	298 X'08'	DCMUTILD	285 X'10'
DCMNOOMSS	287 X'04'	DCMUTILE	285 X'08'
DCMNOOSDS	287 X'01'	DCMUTILF	285 X'04'
DCMOPRLL	283 X'10'	DCMUTILT	285(11D)
DCMOPRNI	291 X'80'	DCMVLFPK	298 X'20'
DCMOPRAD	283 X'40'	DCMWINF	290 X'08'
DCMOPRSG	283 X'20'	DCMWQEXP	108 (6C)
DCMOPRST	283(11B)	DCMWIRASY	290 X'01'
DCMOPRTI	24 X'40'	DCMWRCDL	299 X'04'
DCMOPTRV	283 X'80'	DCMWRENT	289 X'02'
DCMOTTHM	24 X'10'	DCMWIRINS	289 X'04'
DCMOUTPT	4 X'02'	DCMWIRMSG	289 X'10'
DCMPACK	16 (10)	DCMWIRPAR	289 X'08'
DCMPAD	304(130)	DCMWIRPFK	291 X'10'
DCMPFKAT	291 X'08'	DCMWIRRN	289 X'20'
DCMPFKIP	302 X'10'	DCMWIBUF	56 (38)
DCMPFKKN	265(109)	DCMWINT	8 (8)
DCMPFKLN	76 (4C)	DCMW2250	288 X'08'
DCMPFKNA	302 X'80'	DCMXINT1	298 X'10'
DCMPFKND	302 X'40'		
DCMPFKNM	264(108)		
DCMPFKNO	302 X'20'		
DCMPFKWR	298 X'04'		
DCMPOSCU	294(126)		
DCMRDARM	288 X'10'		

TIOCBUFCommon Name: TSO TIOC Buffer PrefixMacro ID: IKJTIOCBDSECT Name: TIOCBUFCreated by: IEDAY1, TIOCSubpool and Key: Common service area and key 0Size: 12 header, 6 trailerPointed to by: TSB08BFP field of the TSB data area

TSBIDFP field of the TSB data area

BUFFTRLR field of the TIOCBUF data area

BUFFHEAD field of the TIOCBUF data area

TIOCFBFL field of the TIOCRPT data area

Serialization: CMS lockfunction: Contains information describing buffer contents and attributes. It resides in the common storage area.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	TIOCBUF	

0	(0) HEX	1	BUFFFL1	COMMON FLAG BYTE BIT DEFINITIONS
=====				
BIT 6			RESERVED	
	1... ..		BUFFIHOT	X'80' BUFFER ON INPUT AND OUTPUT QUEUES
	.1.. ..		BUFFHCR	X'40' HEADER BUFFER
	..1.		BUFFNLCR	X'20' NEW LINE, CARRIAGE RETURN AT END OF TEST
	...1		BUFFEDIT	X'10' EDIT OPTION
	.... 1..		BUFFCNTL	X'08' CONTROL OPTION
	.... .1..		BUFFFULL	X'04' BUFFER IS FULL
	.... ...1		BUFFHOLD	X'01' OUTPUT BUFFER CONTAINING A HOLD OPTION
1	(1) A-ADDRESS	3	BUFFTRLR	TPUT MESSAGE PTR TO NEXT TRAILER BFR OF THIS MSG. ALSO USED TO LINK TOGETHER BFRS WHICH ARE ON FREE QUEUE

4	(4) SIGNED	4	BUFFNDAT	FREE BUFFER NO DATA

4	(4) CHARACTER	1	BUFFOFST	OFFSET TO BEGINNING OF DATA

TIOCBUF

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
5	(5) CHARACTER	1	BUFFLNTH	LENGTH OF TEXT IN DATA PORTION OF THE BUFFER
6	(6) CHARACTER	2	BUFFWORK	RESERVED TSINPUT USE AS WORK AREA

8	(8) HEX	1	BUFFFL2	HEADER BUFFER FLAG BIT DEFINITIONS
=====				
BITS 4 - 7			RESERVED	
	1... ..		BUFFPART	X'80' PARTIAL INPUT LINE DUE TO BREAK-IN
	.1.. ..		BUFFFRAG	X'40' FRAGMENT MESSAGE
	..1.		BUFFTJID	X'20' THIS MSSG IS TJID MSSG
	...1		BUFF3270	X'10' BUFFER HAS 3270 CONTROL CHARS
9	(9) A-ADDRESS	3	BUFFHEAD	POINTER TO THE NEXT MESSAGE ON THE QUEUE OR ZERO'S

12	(C) SIGNED	4	BUFFHDAT	START OF DATA IN HEADER BUFFER
=====				
0	* BUFFFL1	*		BUFFTRLR
4	* BUFFOFST	*	BUFFLNTH	* BUFFWORK
8	* BUFFFL2	*		BUFFHEAD

TIOCRPT

Common Name: TSO TIOC Reference Pointer Table

Macro ID: IKJTIOCP

DSECT Name: TIOCRPT

Created by: IEDAY1

Subpool and Key: Common service area and key 0

Size: 120 bytes plus (n times 4) n= number of free buffer lists

Pointed to by: TCXRP field of the IEDQTCX data area

Serialization: CMS lock, compare & swap logic

Function: Contains the information required by TIOC to manage the terminals. It resides in the common storage area.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	TIOCRPT	
0	(0) A-ADDRESS	4	TIOCQTIP	BRANCH ENTRY POINT TO QTIP
4	(4) CHARACTER	2	TIOC�BF	NUMBER OF TS BUFFERS
6	(6) CHARACTER	2	TIOC�BF	NUMBER OF TS BFRS ON FREE QUEUE
8	(8) CHARACTER	2	TIOCBFSZ	TS BUFFER SIZE IN BYTES
10	(A) CHARACTER	2	TIOC�TSB	NO. OF TSB'S
12	(C) A-ADDRESS	4	TIOCQRET	QTIP RETURN ADDRESS
16	(10) CHARACTER	2	TIOCOWTH	OWAIT THRESHOLD
18	(12) CHARACTER	2	TIOCRSTH	RESTART THRESHOLD
20	(14) HEX	1	TIOCFLG	FLAG BYTE BIT DEFINITIONS

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
BITS 5-7			RESERVED	
	1... ..		TIOCSYLW	X'80' SYSTEM IS IN LWAIT
	.1.. ..		TIOCTSAB	X'40' TIME SHARING ENDING ABNCRMALLY
	..1.		TIOCSTOP	X'20' STOP TS REQUESTED
	...1		TIOCTJBF	X'10' TPUT W/TJID FOUND NO TS BUFFERS
	.... 1...		TIOCNBF	X'08' TPUT FOUND NO TS BUFFERS ON EITHER FREE OR OUTPUT QUEUE
21	(15) CHARACTER	1	TIOCQTKY	KEY OF QTIP CALLER
22	(16) SIGNED	2	TIOCUSCT	TIOC USER COUNT

24	(18) CHARACTER	2	TIOCAOMX	CURRENT MAXIMUM NO. OF OUTPUT BUFFERS ALLOWED EACH TERMINAL
26	(1A) CHARACTER	2	TIOCAIMX	CURRENT MAXIMUM NO. OF INPUT BUFFERS ALLOWED EACH TERMINAL

28	(1C) CHARACTER	2	TIOCUSLW	NO. OF BFERS THAT ARE RESERVED ON THE FREE QUEUE. LESS THAN THIS AMOUNT RESULTS IN A SYSTEM-WIDE LWAIT
30	(1E) SIGNED	2	TIOCNBFL	NO. OF FREE BUFFER LISTS

32	(20) HEX	1	TIOCTSBS	SIZE OF TSB'S
33	(21) A-ADDRESS	3	TIOCTSB	ADDRESS OF THE TSB TABLE

36	(24) CHARACTER	72	TIOCSAVE	REGISTER SAVE AND WORK AREA

108	(6C) SIGNED	4	TIOCTECB	TIME INTERVAL ECB

112	(70) SIGNED	2	TIOCRCLM	RECONNECT LIMIT (MINUTES)
114	(72) SIGNED	2		RESERVED

TIOCRPT

TIOCRPT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
116	(74) A-ADDRESS	4	TIOCLDS	LINE DISCONNECT SUBTASK TCB

120	(78) A-ADDRESS	4		RESERVED

124	(7C) A-ADDRESS	4	TIOCFBFL	FREE BUFFER LIST(S). ONE LIST FOR EACH PAGE CONTAINING TIOC BUFFERS. AN EMPTY LIST IS INDICATED BY THE COMPLEMENTED ADDRESS OF A BUFFER ON THAT PAGE.
=====				
0	*		TIOCQTIP	
4	*	TIOCNBF	*	TIOCNFBF
8	*	TIOCBFSZ	*	TIOCNTSB
12	*		TIOCQRET	
16	*	TIOCOWTH	*	TIOCRSTH
20	*	TIOCFLG * TIOCQTKY	*	TIOCUSCT
24	*	TIOCAONX	*	TIOCAIMX
28	*	TIOCUSLW	*	TIOCNBFL
32	*	TIOCTSBS *		TIOCTSBS
36	*	TIOCSAVE (72 BYTES)		
108	*		TIOCTECB	
112	*	TIOCRCLM	*	RESERVED
116	*		TIOCLDS	
120	*		RESERVED	
124	*		TIOCFBFL	

TIOT

Common Name: Task Input/Output Table

Macro ID: IEFTIOT1

DSECT Name: No DSECT card put out by macro.

TIOT1 may be used in the USING statement.

Created by: Device allocation

Subpool and Key: SWA (subpool 236 or 237) and key 0

Size: Variable

Pointed to by: TCBTIO field of the TCB data area
DCBTIO field of the DCB data area
DSABTIOT field of the DSAB data area
(DD entry TIOT)
JCTSTIOT field of the JCT data area
SMCATIOT field of the SNCA data area
(master scheduler TIOT)
TCBTIO field of the TCB data area

Serialization: ENQ on SYSZTIOT

Function: Provides the I/O support routines with pointers to JFCBs and to allocated devices.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) SIGNED	4		
0	(0) CHARACTER	8	TIOCJOB	JOB NAME
8	(8) CHARACTER	16	TIOCSTEP	FOR A JOB STEP THAT IS NOT A PROCEDURE STEP, 8-BYTE JOB STEP NAME AND 8 RESERVED BYTES. FOR A JOB STEP THAT IS A PROCEDURE STEP, 8-BYTE PROCEDURE STEP NAME AND 8-BYTE JOB STEP NAME OF THE JOB STEP THAT CALLED THE PROCEDURE.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
DD ENTRY				
THERE IS A 16-BYTE DD ENTRY FOR EACH DD STATEMENT IN THE JOB STEP OR PROCEDURE STEP. (REFERENCES TO GDG (ALL) DATA SETS, THE JOBLIB DATA SET OR PGM=*.DDNAME CREATE STILL OTHER DD ENTRIES.)				
A DD ENTRY INCLUDES A DEVICE ENTRY. BEFORE ALLOCATION, THERE MAY BE SEVERAL DEVICE ENTRIES IN EACH DD ENTRY.				

24	(18) SIGNED	1	TIOELNGH	LENGTH, IN BYTES, OF THIS ENTRY (INCLUDING ALL DEVICE ENTRIES)
25	(19) BITSTRING	1	TIOESTTA	STATUS BYTE A
	1... ..		TIOSLTYP	X'80'
				NONSTANDARD LABEL (TAPE)
	.1.. ..		TIOSPLTP	X'40' DURING ALLOCATION, SPLIT CYLINDER PRIMARY. (THIS IS THE FIRST DD ENTRY FOR A SPLIT CYLINDER.)
				DURING STEP TERMINATION, NO UNALLOCATION NECESSARY.
	..1.		TIOSPLTS	X'20' DURING ALLOCATION, SPLIT CYLINDER SECONDARY. (THIS IS NOT THE FIRST DD ENTRY FOR A SPLIT CYLINDER.)
				DURING STEP TERMINATION, REWIND BUT NO UNLOADING.
	...1		TIOSJBLB	X'10' JOBLIB INDICATOR
	.... 1...		TIOSDADS	X'08' DADSM ALLOCATION NECESSRY
	.... .1..		TIOSLABL	X'04' LABELED TAPE. IF BIT 0 IS OFF, SL OR SUL. IF BIT 0 IS ALSO ON, AL OR AUL.
	.... ..1.		TIOSDSP1	X'02' REWIND/UNLOAD THE TAPE VOLUME (TAPE) PRIVATE VOLUME

TIOT

TIOT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... ...1		TIOSDSP2	(DIRECT ACCESS) X'01' REWIND THE TAPE VOLUME (TAPE) PUBLIC VOLUME (DIRECT ACCESS)
26	(1A) CHARACTER	2	TIOERLOC	RELATIVE LOCATION OF POOL
26	(1A) CHARACTER	1	TIOEWCT	DURING ALLOCATION, NUMBER OF DEVICES REQUESTED FOR THIS DATA SET
27	(1B) CHARACTER	1	TIOELINK	DURING ALLOCATION, LINK TO THE APPROPRIATE PRIME SPLIT, UNIT AFFINITY, VOLUME AFFINITY OR SUBALLOCATE TIOT ENTRY. AFTER ALLOCATION, FLAG BYTE.
	1...		TIOSYOUT	X'80' THIS IS A SYSOUT DATA SET THAT CONTAINS DATA (AFTER CLOSE)
	.1..		TIOTRV01	X'40' RESERVED
	..1.		TIOTTERM	X'20' DEVICE IS A TERMINAL
	...1		TIOEDYNM	X'10' DYNAM CODED ON DD STATEMENT
	.... 1...		TIOEQNAM	X'08' QNAME CODED ON DD STATEMENT
	.... .1..		TIOESYIN	X'04' ENTRY FOR SPOOLED SYSIN DATA SET (OS/VS1)
	.... ...1.		TIOESYOT	X'02' ENTRY FOR SPOOLED SYSOUT DATA SET (OS/VS1)
	.... ...1.		TIOESSDS	X'02' ENTRY FOR A SUBSYSTEM DATA SET (OS/VS2)
	.... ...1		TIOTREM	X'01' ENTRY FOR A REMOTE DEVICE

28	(1C) CHARACTER	8	TIOEDDNM	DD NAME

TIOT

TIOT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
36	(24) CHARACTER	3	TIOEJFCB	RELATIVE TRACK ADDRESS (TTR) OF THE JFCB. (DURING ALLOCATION, TTR OF THE SIOT IF SUBALLOCATE WAS REQUESTED.)
39	(27) BITSTRING	1	TIOESTTC	STATUS BYTE C. USED DURING ALLOCATION ONLY. SET TO ZEROS AT END OF ALLOCATION.
1... ..			TIOSDKCR	X'80' MAIN STORAGE OR DASD ADDRESS
.1... ..			TIOSDEFR	X'40' DEFERRED MOUNT
..1... ..			TIOSAFFP	X'20' PRIMARY UNIT AFFINITY
...1... ..			TIOSAFFS	X'10' SECONDARY UNIT AFFINITY
.... 1...			TIOSVOLP	X'08' PRIMARY VOLUME AFFINITY
.... .1..			TIOSVOLS	X'04' SECONDARY VOLUME AFFINITY
.... ..1.			TIOSBALP	X'02' PRIMARY SUBALLOCATE
.... ...1			TIOSBALS	X'01' SECONDARY SUBALLOCATE

=====

DEVICE ENTRIES

1. DURING ALLOCATION
ONE DEVICE ENTRY FOR EACH DEVICE REQUIRED, OR FOR EACH PUBLIC DEVICE ELIGIBLE.
2. DURING PROBLEM PROGRAM
ONE DEVICE ENTRY FOR EACH ALLOCATED DEVICE.

40	(28) BITSTRING	1	TIOESTTB	STATUS BYTE B DURING ALLOCATION AND DURING PROBLEM PROGRAM
1... ..			TIOSUSED	X'80' DATA SET IS ON DEVICE
.1... ..			TIOSREQD	X'40' DATA SET WILL USE DEVICE
..1... ..			TIOSPVIO	X'20' DEVICE VIOLATES SEPARATION
...1... ..			TIOSVLSR	X'10' VOLUME SERIAL PRESENT

TIOT

TIOT
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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... 1...			TIOSSETU	X'08' SETUP MESSAGE REQUIRED
.... .1..			TIOSMNTD	X'04' IF 0, DELETE UNLOADED VOLUME IF UNLOAD REQUIRED. IF 1, RETAIN UNLOADED VOLUME IF UNLOAD REQUIRED.
.... ..1.			TIOSUNLD	X'02' UNLOAD REQUIRED
.... ...1			TIOSVERF	X'01' VERIFICATION REQUIRED
41 (29) A-ADDRESS		3	TIOEFSRT	DURING PROBLEM PROGRAM, ADDRESS OF UCB. DURING ALLOCATION, BITS 0-11 CONTAIN OFFSET, IN THE UCB LOOK-UP TABLE, TO AN ADDRESS FOR A DEVICE REQUIRED OR ELIGIBLE FOR THIS DATA SET. THE UCB LOOK-UP TABLE HAS ADDRESSES OF UCB'S. BITS 12-23 CONTAIN OFFSET, IN THE STEP VOLUME TABLE (VOLT), TO THE VOLUME SERIAL NUMBER FOR THE VOLUME REQUIRED OR ELIGIBLE FOR THIS DATA SET.

=====

TIOT POOL ENTRY

44 (2C) CHARACTER	1			RESERVED
45 (2D) SIGNED	1	TIOPNSLT		NUMBER OF SLOTS FOR POOL
46 (2E) CHARACTER	1			RESERVED
47 (2F) SIGNED	1	TIOPNSRT		NUMBER OF DEVICES (FILLED SLOTS)
48 (30) CHARACTER	8	TIOPPOOL		POOL NAME
56 (38) HEX	1	TIOPSTTB		STATUS OF SLOT

TIOT

TIOT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
57	(39) A-ADDRESS	3	TIOPSLOT	UCB ADDRESS OR EMPTY SLOT

60	(3C) CHARACTER	4	TIOTFEND	FINAL END OF THE TIOT BINARY ZEROS

TQE

Common Name: Timer Queue Element

Macro ID: IHATQE

DSECT Name: TQE

Created by: IEAVRT00 (STIMER function) or SETDIE user

Subpool and Key: 253 (task) or 245 (real/wait) and key 0

Size: 128 bytes

Pointed to by: PCCATQEP field of the PCCA data area
TQEFLNK field of the TQE data area (forward link)
TQEBLNK field of the TQE data area (backward link)
TCBTQE field of the TCB data area

Serialization: Dispatcher lock

Function: Each TQE represents a time interval. It is established by use of the STIMER function.

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) STRUCTURE	0	TQE	,TQEPTR TIMER QUEUE ELEMENT

0	(0) FLOATING	8		

0	(0) CHARACTER	4	TQETQE	TQE IDENTIFICATION

4	(4) A-ADDRESS	4	TQEFLNK	ADDRESS OF NEXT TQE

8	(8) A-ADDRESS	4	TQEBLNK	ADDRESS OF PREVIOUS TQE

12	(C) SIGNED	2	TQEAID	REQUESTORS ASID
14	(E) BITSTRING	1	TQEFLGS	TQE FLAG BYTE 1
	1... ..		TQEOFF	X'80' TQE IS OFF TIMER QUEUE
	.1.. ..		TQETOD	X'40' TOD OPTION SPECIFIED
	...1 ..		TQEWLIM	X'10' WAIT LIMIT EXCEEDED
	.... 1..		TQEINCOM	X'08' INTERVAL IS COMPLETE
	.... .1..		TQEXITSP	X'04' AN EXIT WAS SPECIFIED
	.... ..11		TQETYPE	X'03' TQE TYPE 00=TASK TYPE 01=WAIT TYPE 11=REAL TYPE
15	(F) BITSTRING	1	TQEFLGS2	TQE FLAG BYTE 2
	1... ..		TQECOMP	X'80' REAL TQE IS BEING TIMED
	.1.. ..		TQEUSER	X'40' NON SYSTEM TQE
	..1.		TQECRH	X'20' CHNL RECONFIG HDWE TQE

TQE

TQE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
....1			TQEDUM	X'10' DUMMY SYSTEM TQE
.... 1...			TQELM	X'08' TIME LIMIT CHECKING SYSTEM TQE
.... .1..			TQEOPT	X'04' SYSTEM RESOURCES MANAGER TQE
.... ..1.			TQEMF1	X'02' MF/1 SYSTEM TQE
.... ...1			TQEMIDN	X'01' MIDNIGHT SYSTEM TQE
16	(10) SIGNED	4	TQEVAL(2)	EXPIRATION TIME OR TIME LEFT
24	(18) A-ADDRESS	4	TQESADDR	ADDRESS OF PP SAVE AREA
28	(1C) A-ADDRESS	4	TQEEXIT	ADDRESS OF USER EXIT RTN
32	(20) A-ADDRESS	4	TQETCB	ADDRESS OF USER TCB
36	(24) A-ADDRESS	4	TQEASCB	ADDRESS OF USER ASCB
40	(28) SIGNED	4	TQELHPSW	FIRST WORD OF CURRENT PSW
44	(2C) CHARACTER	44	TQESRB	SRB
44	(2C) SIGNED	4	TQEDREGS(11)	DIE ENTRY.
88	(58) BITSTRING	1	TQEFLGS3	TQE FLAG BYTE 3
89	1... ..1. (59) CHARACTER	27	TQEDIE	X'80' DIE TQE RESERVED
116	(74) SIGNED	4	TQERSAVE	REG SAVE AREA SETDIE
120	(78) SIGNED	4	TQESTCK(2)	STCK AREA FOR SETDIE
128	(80) CHARACTER	1	TQEEND	END OF TQE

TSB

Common Name: TSO Terminal Status Block

Macro ID: IKJTSB

DSECT Name: TSB

Created by: TSB - TIOC routine, IEDAY1, TCAS routine, IKTCAS31; TSBX - TCAS routine, IKTCAS31

Subpool and Key: Common service area and key 6

Size: TSB - 120 bytes;

Pointed to by: ASCBTSB field of the ASCB data area
TIOCTSB field of the TIOCRPT data area
TCASTSB field of the TCAST data area
(first TSO/VTAM TSB)
TSBXFKD field of the TSB data area
TSBXCCK field of the TSB data area

Serialization: CMS lock, compare & swap logic

Function: The TSB contains information pertaining to a terminal user's status. The TSBX provides information pertaining to a TSO/VTAM time-sharing terminal, and pointers pertaining to a TSO/VTAM user address space.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	120	TSB	
0	(0) UNKNOWN	4	TSBASCBA	POINTER TO ASCB
0	(0) UNKNOWN	1	TSBSTAT	TERMINAL STATUS BYTE
				BIT
	1... ..		TSBINUSE	DEFINITIONS
	.1.. ..		TSBLWAIT	TSB IN USE
				KEYBOARD
				LOCKED DUE TO
				A LACK OF
	.1.		TSBDSPLY	INPUT BUFFERS
				TSB REPRESENTS
				A DISPLAY
				SCREEN
	...1		TSBNOBUF	INDICATES TPWT
				FOUND NO
				BUFFERS
	.... 1..		TSBITOFF	PROHIBIT
				NON-SUPERVISORY
				INTER-
				TERMINAL MSGS
				TO USERS
	.... .1..		TSBDISC	TERMINAL
				TSB HAS BEEN
				THRU LOGOFF
	.... .1.		TSB3270	TSB REPRESENTS
				A 3270
				TERMINAL
	.... ...1		TSBATNLD	ATTN FOR INPUT
				LINE DELETE
1	(1) UNKNOWN	3	TSBASCB	POINTER TO ASCB
4	(4) UNKNOWN	1	TSBFLG1	FIRST FLAG
				BYTE BIT
				DEFINITIONS

TSB

TSB

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
1... ..			TSBANSR	ATTN SIMULATION REQUESTED
.1.. ..			TSBOFLSH	OUTPUT TRAILER Q IS TO BE FLUSHED
..1.			TSBOWIP	A TPUT IS IN PROGRESS
...1			TSBWOWIP	WAITING IN OWAIT IN PROGRESS
.... 1...			TSBIFLSH	INPUT QUEUE FLUSH IN PROGRESS
.... .1..			TSBTJOW	TJID TPUT ENCOUNTERED OWIP
.... ..1.			TSBTJIP	A TJID TPUT IS IN PROGRESS
.... ...1			TSBTJBF	TJID TPUT FOUND NO TS BUFFERS
5	(5) UNKNOWN	3	TSBWTCB	ADDR OF TCB OF TASK WAITING ON TSBCB

8	(8) UNKNOWN	1	TSBLNSZ	PHYSICAL LINE SIZE OF TERMINAL
9	(9) UNKNOWN	3	TSBOTBFP	PTR TO TRAILER BUFFER(S) AFTER HEADER BUFFER FOR MSG HAS BEEN REMOVED

12	(C) UNKNOWN	1	TSBNOBF	NO. OF BUFFERS ON OUTPUT QUEUE
13	(D) UNKNOWN	3	TSBOBFP	PTR TO OUTPUT BUFFER QUEUE

16	(10) UNKNOWN	1	TSBFLG2	SECOND FLAG BYTE BIT DEFINITIONS
1... ..			TSBBIPI	PARTIAL LINE PROMPTING COMPLETE
.1..			TSBAUTON	AUTO PROMPTING REQUESTED
..1.			TSBBRKIN	BREAKIN HAS OCCURED
...1			TSBAULST	AUTO LINE NUMBERING STARTED
.... 1...			TSBAUOC	AUTO CHARACTER PROMPT STARTED
.... .1..			TSBSTAUT	PROMPT USER WITH NEXT LINE NO.
.... ..1.			TSBSATN1	BITS 6 AND 7 ARE USED TO IND

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
....1			TSBSATN2	THE NO. OF CHARS (1-4) IN THE CHAR STRING FOR SIMULATED ATTN PTR TO INPUT TRAILER BUFFERS RESULTING FROM TGET WITH INSUFFICIENT BUFFER SIZE
17 (11) UNKNOWN		3	TSBITBFP	

20 (14) UNKNOWN		1	TSBNIBF	NO. OF BUFFERS ON INPUT QUEUE PTR TO INPUT BUFFER QUEUE
21 (15) UNKNOWN		3	TSBIBFP	

24 (18) UNKNOWN		1	TSBFLG3	THIRD FLAG BYTE
1...			TSBATTN	ATTENTION HAS BEEN IGNORED
.1...			TSBTJMSG	TSOUTPUT PROCESSING TJD MSG
..1.			TSBSPIT	STOP PROMPTING IF TCLEARQ OR STBREAK
...1			TSBNBKSP	NEXT CHAR IN USER'S BFFR IS A BACKSPACE CHAR
.... 1...			TSBAWOIP	AN ASID TPUT IS WAITING FOR A NORMAL TPUT TO COMPLETE
.... .1..			TSBTPUT	TCAM PROCESSING OF A TPUT IS NOT YET COMPLETE (CORRESPONDS TO QCBTPUT)
.... ..1.			TSBNOBRK	USE OF BREAK FEATURE NOT CURRENTLY ALLOWED FOR THIS TERMINAL
....1			TSBNFLOP	FLASHBACK OF PASSWORD
25 (19) UNKNOWN		1	TSBFLG5	FIFTH FLAG BYTE.
1...			TSBATMP	TERM. CONTROL ROUTINE ACTIVE FOR THIS TERMINAL
.1...			TSBSPF	SPF ACTIVE FOR THIS TERMINAL
..11 11..				RESERVED
.... ..1.			TSBKEYS	PASS ATTN. AND CLEAR KEYS TO COMMAND PROCESSOR
....1			TSBVTAM	THIS IS A VTAM TSB

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
26	(1A) UNKNOWN	2	TSBTERMC	TERMINAL CHARACTERISTICS
26	(1A) UNKNOWN 1... ..	1	TSBTERM1 TSBCIHBN	1ST FLAG BYTE TIME-OUT
	.1... ..		TSBCBRK	INHIBITED
	...1		TSBCATTN	BREAK FEATURE
	.... 1...		TSBC5041	ATTENTION
	.... .1..		TSBC2741	FEATURE
	.... ..1.			LINE IS 5041
	.... ...1			TERMINAL IS
	.... ..1.			2741
	.... ....1.			RESERVED
	.... ...1			RESERVED
27	(1B) UNKNOWN	1	TSBTERM2	RESERVED
	1... ..			2ND FLAG BYTE
	.1... ..			RESERVED
	...1		TSBCTWX	RESERVED
	.... 1...			TERMINAL IS
	.... ..1.			TWX
	.... ...1			RESERVED
	.... ....1.			RESERVED
	.... ...1			RESERVED
	.... ..1.			RESERVED
	.... ...1		TSBC1050	TERMINAL IS
	.... ....1			1050

28	(1C) UNKNOWN	4	TSBECB	ECB FOR INTER-TERMINAL COM- MUNICATION (TPUT WITH TJID)

32	(20) UNKNOWN	2	TSBWTJID	TJID OF TASK WAITING ON TSBECB
34	(22) UNKNOWN	2	TSBSTCC	SPECIAL USER CHAR FIELD
34	(22) UNKNOWN	1	TSBLNDCC	LINE DELETE CHARACTER
35	(23) UNKNOWN	1	TSBCHDCC	CHARACTER DELETE CHARACTER

36	(24) UNKNOWN	2	TSBATNLC	NO. OF SUCCESSIVE OUTPUT LINES BETWEEN ATTENTION SIMULATION
38	(26) UNKNOWN	2	TSBATNTC	NUMBER OF CONTINUOUS 1-SECOND TIME INTERVALS

40	(28) UNKNOWN	1	TSBLNNO	NO. OF LINES ON A DISPLAY SCREEN
41	(29) UNKNOWN	1	TSBFLG4	FLAG BYTE BIT DEFINITIONS
	1... ..		TSBOCAB	OUT-OF-CORE ABEND

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.1..			TSBIWAIT	INPUT WAIT IN PROGRESS
..1.			TSBOWAIT	OUTPUT WAIT IN PROGRESS
...1			TSBHUNG	TERMINAL HAS HUNG UP
.... 1...			TSBHOLD	TPUT HOLD IN PROGRESS
.... .1..			TSBCANC	SESSION CANCELLED
.... .1.			TSBGETBF	TJID TPUT MAY GET AN EXTRA ALLOWANCE OF OUTPUT BUFFERS
.... ...1			TSBHLDL	DON'T DISCONNECT LINE AFTER LOGOFF
42	(2A) UNKNOWN	2	TSBASRCE	TCAM TERMINAL INDEX. EQUIVALENT TO PRFSRCE IN TCAM INPUT BUFFERS.

44	(2C) UNKNOWN	4	TSBATNCC	CHARACTER STRING USED FOR ATTENTION SIMULATION

48	(30) UNKNOWN	4	TSBAUTOS	STARTING AND CURRENT SEQ NO. FOR AUTO LINE NUMBERING

52	(34) UNKNOWN	4	TSBAUTOI	INCREMENT VALUE FOR AUTO LINE NUMBERING

56	(38) UNKNOWN	4	TSBERSDS	CHARS USED TO ERASE SCREEN

60	(3C) UNKNOWN	4	TSBCTCB	TCB ADDRESS OF TASK CURRENTLY DOING A TPUT

64	(40) UNKNOWN	8	TSBRCB	TCAM RESOURCE CTL BLK

64	(40) UNKNOWN	4	TSBRQCB	RCB QCB POINTER

68	(44) UNKNOWN	4	TSBLINKA	RCB LINK WORD

68	(44) UNKNOWN	1	TSBPRI	TPOSTING PRIORITY
69	(45) UNKNOWN	3	TSBLINKB	RCB LINKING FIELD

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
72	(48) UNKNOWN	8	TSBTPOST	TPOSTING COMMUNICATIONS AREA UPDATED ONLY WITH CS/CDS

72	(48) UNKNOWN	1	TSBTPFLG	TPOSTING FLAGS BIT DEFINITIONS BITS 3 7 RESERVED
	1... ..		TSBPOSTO	TPOST OF TSB OUTSTANLING
	.1.. ..		TSBTPQCB	TPOST TERM. DEST. QCB
	..1.		TSBTPAYI	TPOST TSI TO TSINPUT
	...1		TSBNEWID	UPDATE QCB TJID WITH NEW ASCBASID
	.... 1...			RESERVED
	.... .1..			RESERVED
	.... ..1.			RESERVED
	.... ....1			RESERVED
73	(49) UNKNOWN	1		RESERVED
74	(4A) UNKNOWN	1	TSBFLAGM	QCBFLAG SUBSTITUTION MASK. INDICATES BIT POSITIONS TO CHANGE IN QCBFLAG.
75	(4B) UNKNOWN	1	TSBFLAGV	QCBFLAG SUBSTITUTION VALUE. INDICATES BIT VALUES TO SUBSTITUTE FOR CHANGING BIT POSITIONS IN QCBFLAG.

76	(4C) UNKNOWN	1	TSBF2M	QCBTSOF2 SUBSTITUTION MASK
77	(4D) UNKNOWN	1	TSBF2V	QCBTSOF2 SUBSTITUTION VALUE
78	(4E) UNKNOWN	1	TSBF1M	QCBTSOF1 SUBSTITUTION MASK
79	(4F) UNKNOWN	1	TSBF1V	QCBTSOF1 SUBSTITUTION VALUE

80	(50) UNKNOWN	1	TSBATTNC	NO. OF UNPROCESSED ATTN'S
81	(51) UNKNOWN	1	TSBSTAX	NO. OF UNSCHEDULED STAX EXITS

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
82	(52) UNKNOWN	2	TSBLINE	LINE ADDRESS OR 3705 RESOURCE I.D. OF THIS TERMINAL.
84	(54) UNKNOWN	4	TSBMINL	NO. OF MINUTES LEFT BEFORE A DISCONNECTED USER WILL BE LOGGED OFF.
84	(54) UNKNOWN	4	TSBLECB	TIOC LOGOFF WAITS ON THIS ECB WHILE TIOC FINISHES TCAM PROCESSING FOR A TERMINATING MEMORY.
88	(58) UNKNOWN	8	TSBPSWD	LOGON PASSWORD
96	(60) UNKNOWN	4	TSBEXTNT	ADDRESS OF TSB EXTENTION
100	(64) UNKNOWN	1	TSBPRMR	NDS PRIM(DEFAULT) ROWS
101	(65) UNKNOWN	1	TSBPRMC	NDS PRIM(DEFAULT) COLS
102	(66) UNKNOWN	1	TSBALTR	NDS ALTERNATE ROWS
103	(67) UNKNOWN	1	TSBALTC	NDS ALTERNATE COLS
104	(68) UNKNOWN	8	TSBTRMID	TERMINAL SYMBOLIC NAME
112	(70) UNKNOWN	8	TSBSF1	SECURITY FIELD 1
120	(78) UNKNOWN	0	TSBEND	TSB FORCED TO DOUBLE WORD BOUNDARY

CROSS REFERENCE

TSB	0 (0)	TSBLNDCC	34 (22)
TSBALTC	103 (67)	TSBLNNO	40 (28)
TSBALTR	102 (66)	TSBLNSZ	8 (8)
TSBANSR	4 X'80'	TSBLWAIT	0 X'40'
TSBASCB	1 (1)	TSBMHNL	84 (54)
TSBASCSBA	0 (0)	TSBNBKSP	24 X'10'
TSBASRCE	42 (2A)	TSBNEWID	72 X'10'
TSBATHP	25 X'80'	TSBNFLOP	24 X'01'
TSBATNCC	44 (2C)	TSBNIBF	20 (14)
TSBATNLC	36 (24)	TSBNOBF	12 (C)
TSBATNLD	0 X'01'	TSBNOBRK	24 X'02
TSBATNTC	38 (26)	TSBNOCBUF	0 X'10'
TSBATTN	24 X'80'	TSBOBFP	13 (D)
TSBATTNC	80 (50)	TSBOCAB	41 X'80'
TSBAULST	16 X'10'	TSBOFLSH	4 X'40'
TSBAUOC	16 X'08'	TSBOTBFP	9 (9)
TSBAUTOI	52 (34)	TSBOWAIT	41 X'20'
TSBAUTON	16 X'40'	TSBOWIP	4 X'20'
TSBAUTOS	48 (30)	TSBPOSTO	72 X'80'
TSBAWOIP	24 X'08'	TSBPRI	68 (44)
TSBBIPI	16 X'80'	TSBPRMC	101 (65)
TSBBRKIN	16 X'20'	TSBPRMR	100 (64)
TSBCANC	41 X'04'	TSBPSWD	88 (58)
TSBCATTN	26 X'20'	TSBRCB	64 (40)
TSBCBRK	26 X'40'	TSBRQCB	64 (40)
TSBCHDCC	35 (23)	TSBSATN1	16 X'02'
TSBCIHBN	26 X'80'	TSBSATN2	16 X'01'
TSBCTCB	60 (3C)	TSBSF1	112 (70)
TSBCTWX	27 X'20'	TSBSPF	25 X'40'
TSBC1050	27 X'01'	TSBSPIT	24 X'20'
TSBC2741	26 X'08'	TSBSTAT	0 (0)
TSBC5041	26 X'10'	TSBSTAUT	16 X'04'
TSBDISC	0 X'04'	TSBSTAX	81 (51)
TSBDSPLY	0 X'20'	TSBSTCC	34 (22)
TSBECB	28 (1C)	TSBTERM1	26 (1A)
TSBEND	120 (78)	TSBTERM2	27 (1B)
TSBERSDS	56 (38)	TSBTJBF	4 X'01'
TSBEXTNT	96 (60)	TSBTJIP	4 X'02'
TSBFLAGM	74 (4A)	TSBTJMSG	24 X'40'
TSBFLAGV	75 (4B)	TSBTJOW	4 X'04'
TSBFLG1	4 (4)	TSBTPAYI	72 X'20'
TSBFLG2	16 (10)	TSBTPFLG	72 (48)
TSBFLG3	24 (18)	TSBTPPOST	72 (48)
TSBFLG4	41 (29)	TSBTPQCB	72 X'40'
TSBFLG5	25 (19)	TSBTPUT	24 X'04'
TSBF1M	78 (4E)	TSBTRMID	104 (68)
TSBF1V	79 (4F)	TSBVTAM	25 X'01'
TSBF2M	76 (4C)	TSBWOIP	4 X'10'
TSBF2V	77 (4D)	TSBHTCB	5 (5)
TSBGETBF	41 X'02'	TSBWTJID	32 (20)
TSBHLDL	41 X'01'	TSB3270	0 X'02'
TSBHOLD	41 X'08'		
TSBHUNG	41 X'10'		
TSBIBFP	21 (15)		
TSBIFLSH	4 X'08'		
TSBINUSE	0 X'80'		
TSBITBFP	17 (11)		
TSBITOFF	0 X'08'		
TSBIWAIT	41 X'40'		
TSBKEYS	25 X'02'		
TSBLECB	84 (54)		
TSBLINE	82 (52)		
TSBLINKA	68 (44)		
TSBLINKB	69 (45)		

TSBX

Common Name: TSO Terminal Status Block Extension

Macro ID: IKTTTSBX

DSECT Name: TSBX

Created by: TCAS routine, IKTCAS31

Subpool and Key: Common service area and key 6

Size: 120 bytes

Pointed to by: TSBEXTNT field of the TSB data area

Serialization: LOCAL lock is held to reference or change any field.

Function: The TSBX provides information pertaining to a TSO/VTAM time-sharing terminal, and pointers pertaining to a TSO/VTAM user address space.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	120	TSBX	
0	(0) UNKNOWN	4	TSBXFWD	TSO/VTAM TSB FORWARD POINTER
4	(4) UNKNOWN	4	TSBXBCK	TSO/VTAM TSB BACKWARD POINTER
8	(8) UNKNOWN	4	TSBXECB	X-MEM SYNC ECB FOR RECONNECT
12	(C) UNKNOWN	4		RESERVED
16	(10) UNKNOWN	8		RESERVED
24	(18) UNKNOWN	8	TSBXUID	USER IDENTIFICATION
32	(20) UNKNOWN	1	TSBXFLG1	FIRST TSBX FLAG BYTE
	1... ..		TSBXASCI	ASCII CODE SPECIFIED ON BIND
	.1.. ..		TSBXACTV	TERMINAL CONTROL IN ADDRESS SPACE.
	..1.		TSBXLOGF	VTAM LOGOFF RECURSION
	...1		TSBXWREC	WAITING FOR RECONNECT
	.... 1111			RESERVED
33	(21) UNKNOWN	3		RESERVED
36	(24) UNKNOWN	4	TSBXTVWA	POINTER TO TSO/TVWA WORK AREA (TVWA)
40	(28) UNKNOWN	4	TSBXTIM	CURRENT 'TIM' POINTER
44	(2C) UNKNOWN	4	TSBXTOM	CURRENT 'TOM' POINTER

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
48	(30) UNKNOWN	4		RESERVED
52	(34) UNKNOWN	4	TSBXSRBI	POINTER TO THE TIM SRB
56	(38) UNKNOWN	4	TSBXSRB	POINTER TO THE TOM SRB
60	(3C) UNKNOWN	4	TSBXCSAP	POINTER TO THE CSA AREA FOR ASID TPUTS
64	(40) UNKNOWN	4	TSBXLBUF	POINTER TO THE LOGON BUFFER
68	(44) UNKNOWN	1	TSBXRSZI	INPUT RU SIZE
69	(45) UNKNOWN	1	TSBXRSZO	OUTPUT RU SIZE
70	(46) UNKNOWN	2	TSBXAIND	TSO/VT USER APPL INDEX
72	(48) UNKNOWN	4	TSBXTERM	TERMINAL CHARACTERISTICS
72	(48) UNKNOWN	1	TSBXTMTP	TERMINAL TYPE
=====				
1	= 3270			
2	= 3767/3770			
3	= USER DEFINED			
4	= NDS REL 2			
73	(49) UNKNOWN	1		RESERVED
74	(4A) UNKNOWN	2	TSBXTMBF	TERMINAL BUFFER SIZE
76	(4C) UNKNOWN	4	TSBXRPL	POINTER TO RPL IN TCAS
80	(50) UNKNOWN	36	TSBXBIND	TERMINAL BIND IMAGE
116	(74) UNKNOWN	4		RESERVED
120	(78) UNKNOWN	0	TSBXEND	END OF TSBX FORCED TO DOUBLE WORD BOUNDARY

TTECommon Name: Trace Table EntryMacro ID: NoneDSECT Name: NoneCreated by: IEAVNIP0; moved by: IEAVNIPX; freed by: IEEVWAITSubpool and Key: 245 and key 0Size: Each entry is 32 bytesPointed to by: Trace table header (pointed to by FLCTRACE field of the PSA data area.

- field of the PSA data area)
- *. Current entry - Pointed to by trace table header + 0
 - *. First entry - Pointed to by trace table header + 4
 - *. Last entry - Pointed to by trace table header + 8

Serialization: None

Function: The system trace table provides a record of events that have occurred. This trace table and its number of entries are an option that may be selected at system generation time. The following events cause entries in the system trace table: SIO instruction; I/O interruption; program interruption; external interruption; each entry to the dispatcher; SVC interruption; SVC return.

*. NOTE - This is a mapping of the trace table entry; a

*. macro is not available. The names defined are for

*. mapping use only.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	TTE	

=====

TRACE TABLE ENTRY TYPES

2	(2) BITSTRING	1		TYPE CODE (CONTAINED IN BITS 0, 1, 2, AND 3)
....	....		SIO	B'00000000' (0000) SIO START
...1	....		EXT	B'00010000' (0001) EXT EXTERNAL INTERRUPT
..1.	....		SVC	B'00100000' (0010) SVC SVC INTERRUPT
..11	....		PGM	B'00110000' (0011) PGM PROGRAM INTERRUPT
.1..	....		ISD	B'01000000' (0100) ISD INITIAL SRB DISPATCH
.1.1	....		IO	B'01010000' (0101) I/O INPUT/OUTPUT INTERRUPT

TTE

TTE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
.11.			SRR	B'01100000' (0110) SRR SUSPENDED SRB REDISPATCH
.111			DSP	B'01110000' (0111) DSP TASK DISPATCH

=====

ENTRY TYPE 0 (SIO -- START INPUT/OUTPUT)

0	(0) BITSTRING	1		CONDITION CODE
1	(1) A-ADDRESS	3		DEVICE ADDRESS
4	(4) SIGNED	4		CHANNEL ADDRESS WORD
8	(8) CHARACTER	8		CHANNEL STATUS WORD
16	(10) SIGNED	4		IOSB ADDRESS FROM IOS
20	(14) BITSTRING	2		CPU ID (PHYSICAL ADDRESS 4 LOW-ORDER BITS)
22	(16) BITSTRING	2		ASID
24	(18) SIGNED	4		TCB ADDRESS FROM SRB
28	(1C) SIGNED	4		TIMER VALUE

=====

ENTRY TYPE 1 (EXT -- EXTERNAL INTERRUPT)

0	(0) CHARACTER	8		EXTERNAL OLD PSW
2	(2) BITSTRING	1		INTERRUPT CODE (BYTE 1)
3	(3) BITSTRING	1		INTERRUPT CODE (BYTE 2)
1...			INTTIMER	X'80' INTERNAL TIMER
.1...			INTRPKEY	X'40' INTERRUPT KEY
..11 1111			EXTRSGNL	X'3F' EXTERNAL SIGNALS
....			MALALERT	X'00' MALFUNCTION ALERT (WITH INTERRUPT CODE (BYTE 1) BIT 6 ON)
.... ...1			EMERSGNL	X'01' EMERGENCY SIGNAL (WITH INTERRUPT CODE (BYTE 1) BIT 6 ON)

TTE

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
.... .1.			EXTRCALL	ON) X'02' EXTERNAL CALL (WITH INTERRUPT CODE (BYTE 1) BIT 6 ON)
.... .11			TODSYNCK	X'03' TOD SYNC CHK
.... .1..			CLKCOMPR	X'04' CLOCK COMPARATOR
.... .1.1			CPUTIMER	X'05' CPU TIMER

8	(8) SIGNED	4		REGISTER 15 CONTENTS

12	(C) SIGNED	4		REGISTER 0 CONTENTS

16	(10) SIGNED	4		REGISTER 1 CONTENTS

20	(14) BITSTRING	2		CPU ID (PHYSICAL ADDRESS 4 LOW-ORDER BITS)
22	(16) BITSTRING	2		ASID

24	(18) SIGNED	4		CURRENT OR TQE TCB ADDRESS

28	(1C) SIGNED	4		TIMER VALUE
=====				

ENTRY TYPE 2 (SVC -- SVC INTERRUPT)

0	(0) FLOATING	8		SVC OLD PSW

8	(8) SIGNED	4		REGISTER 15 CONTENTS

12	(C) SIGNED	4		REGISTER 0 CONTENTS

16	(10) SIGNED	4		REGISTER 1 CONTENTS

20	(14) BITSTRING	2		CPU ID (PHYSICAL ADDRESS)
22	(16) BITSTRING	2		ASID

24	(18) SIGNED	4		CURRENT TCB ADDRESS

28	(1C) SIGNED	4		TIMER VALUE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
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=====

ENTRY TYPE 3 (PGH -- PROGRAM INTERRUPT)

0	(0) FLOATING	8		PROGRAM INTERRUPT OLD PSW
8	(8) SIGNED	4		REGISTER 15 CONTENTS
12	(C) SIGNED	4		REGISTER 0 CONTENTS OR TRANSLATION EXCEPTION ADDRESS
16	(10) SIGNED	4		REGISTER 1 CONTENTS
20	(14) BITSTRING	2		CPU ID (PHYSICAL ADDRESS 4 LOW-ORDER BITS)
22	(16) BITSTRING	2		ASID
24	(18) SIGNED	4		CURRENT TCB ADDRESS
28	(1C) SIGNED	4		TIMER VALUE

=====

ENTRY TYPE 4 (ISD -- INITIAL SRB DISPATCH)

0	(0) FLOATING	8		NEW PSW
8	(8) BITSTRING	2		ZERO
10	(A) BITSTRING	2		ASID
12	(C) SIGNED	4		REGISTER 0 CONTENTS (SRB ADDRESS)
16	(10) SIGNED	4		REGISTER 1 CONTENTS (PARAMETER LIST ADDRESS)
20	(14) BITSTRING	2		CPU ID (PHYSICAL ADDRESS 4 LOW-ORDER BITS)
22	(16) BITSTRING	2		ASID THAT CREATED THE SRB
24	(18) SIGNED	4		PURGE TCB ADDRESS

TTE

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
28	(1C) SIGNED	4		TIMER VALUE

ENTRY TYPE 5 (I/O -- INPUT/OUTPUT INTERRUPT)

0	(0) FLOATING	8		I/O OLD PSW
8	(8) FLOATING	8		CHANNEL STATUS WORD
16	(10) SIGNED	4		RESERVED
20	(14) BITSTRING	2		CPU ID (PHYSICAL ADDRESS 4 LOW-ORDER BITS)
22	(16) BITSTRING	2		ASID
24	(18) SIGNED	4		CURRENT TCB ADDRESS
28	(1C) SIGNED	4		TIMER VALUE

ENTRY TYPE 6 (SSR -- SUSPENDED SRB REDISPATCH)

0	(0) FLOATING	8		NEW PSW
8	(8) BITSTRING	2		ZERO
10	(A) BITSTRING	2		ASID
12	(C) SIGNED	4		REGISTER 0 CONTENTS OR SRB ADDRESS
16	(10) SIGNED	4		REGISTER 1 CONTENTS OR PARAMETER LIST ADDRESS
20	(14) BITSTRING	2		CPU ID (PHYSICAL ADDRESS 4 LOW-ORDER BITS)
22	(16) BITSTRING	2		ASID WHERE SRB WILL BE DISPATCHED
24	(18) SIGNED	4		PURGE TCB ADDRESS
28	(1C) SIGNED	4		TIMER VALUE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
----------------	-------------	---------------	-------------	--------------------

=====

ENTRY TYPE 7 (DSP -- TASK DISPATCH)

0	(0) FLOATING	8		NEW PSW
8	(8) SIGNED	4		REGISTER 15 CONTENTS (NEW)
12	(C) SIGNED	4		REGISTER 0 CONTENTS (NEW)
16	(10) SIGNED	4		REGISTER 1 CONTENTS (NEW)
20	(14) BITSTRING	2		CPU ID (PHYSICAL ADDRESS 4 LOW-ORDER BITS)
22	(16) BITSTRING	2		ASID
24	(18) SIGNED	4		NEW TCB ADDRESS
28	(1C) SIGNED	4		TIMER VALUE

CROSS REFERENCE

CLKCOMPR	3 X'04'
CPUTIMER	3 X'05'
DSP	2 X'70'
EMERSGNL	3 X'01'
EXT	2 X'10'
EXTRCALL	3 X'02'
EXTRSGNL	3 X'3F'
INTRPKEY	3 X'40'
INTTIMER	3 X'80'
IO	2 X'50'
ISD	2 X'40'
MALALERT	3 X'00'
PGM	2 X'30'
SIO	2 X'00'
SRR	2 X'60'
SVC	2 X'20'
TODSYNCK	3 X'03'
TTE	0 (0)

TVCS

Common Name: TSO/VTAM CSA Area

Macro ID: IKTTVCS

DSECT Name: TVCS

Created by: VTIOC routine, IKTASTPT

Subpool and Key: 231 and Key 6

Size: 20 bytes + value in TVCSDASZ

Pointed to by: TSBXCASAP field of the TSBX data area

Serialization: None

Function: The TVCS is used to move output data and edit options from an address space that issues a TPUT with ASID to the target address space.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	20	TVCS	TSO/VTAM CSA AREA FOR ASID TPUT'S
0	(0) UNKNOWN	4	TVCSECB	USED FOR XMPOST
	1... ..		TVCSWAIT	WAIT BIT
	.1... ..		TVCSPPOST	POST BIT
	..11 1111			
1	(1) UNKNOWN	3	TVCSCODE	ECB POST CODE
4	(4) UNKNOWN	2	TVCSDASZ	USER DATA SIZE
6	(6) UNKNOWN	2	TVCSGMSZ	GETMAIN SIZE
8	(8) UNKNOWN	1	TVCSSOPTN	TPUT OPTIONS
	1... ..		TVCSSPTGT	TPUT =0, TGET=1
	.1... ..			RESERVED
	..1... ..		TVCSSPRIO	HIGHP=0, LOWP=1
	...1... ..		TVCSSNOWT	WAIT =0, NOWAIT=1
	.... 1...		TVCSSHOLD	NOHOLD=0, HOLD=1
	.... .1..		TVCSSBRK	NOBREAK=0, BREAK =1
	.... ..11		TVCSSEDIT	EDIT=00,ASID=01 ,CNTL=10, FULLSCRN=11
9	(9) UNKNOWN	3	TVCSSRBA	POINTER TO SRB IN CSA
12	(C) UNKNOWN	4	TVCSSASCBC	SOURCE ASCB ADDRESS
16	(10) UNKNOWN	4	TVCSSINDS	HAND SHAKING INDICATORS BETWEEN ADDRESS SPACES
	1... ..		TVCSSRCRC	SOURCE ADDRESS SPACE RELINQUISHES CONTROL OF CSA AREAS

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.1..			TVCSTGRC	TARGET ADDRESS SPACE RELINQUISHES CONTROL OF CSA AREAS
..11 1111				
1111 1111				
1111 1111				
1111 1111				

20	(14) UNKNOWN	0	TVCSDATA	START OF TPUT DATA AREA

TVWACommon Name: TSO/VTAM Work AreaMacro ID: IKTTVWADSECT Name: TVWACreated by: VTIOC routine, IKTXINITSubpool and Key: 229 and key 6Size: 216 bytesPointed to by: TSBXTVWA field of the TSBX data areaSerialization: LOCAL lockFunction: The TVWA provides control information, control block pointers, and work area pointers for TSO/VTAM time sharing.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	216	TVWA	
0	(0) UNKNOWN	8	TVWAPPL	TSO USER APPLID
8	(8) UNKNOWN	4	TVWATIMW	PTR TO TIM WORK AREA AND PARM LIST
12	(C) UNKNOWN	4	TVWATOMW	PTR TO TOM WORK AREA AND PARM LIST
16	(10) UNKNOWN	4	TVWATOPQ	PTR TO FLASH BACK BUFFER
20	(14) UNKNOWN	4	TVWABFPT	ADDR TIMS BUF FOR READ-BUF@G58AK3 A
24	(18) UNKNOWN	4	TVWALLWA	PTR TO WORK AREA FOR LOCALLY LOCKED ROUTINES. (SVC 93 & 94) CONTAINS 72 BYTE S.A. & QMGR PARMLST
28	(1C) UNKNOWN	4	TVWAQMW	PTR TO WORK AREA FOR QUEUE MANAGER
32	(20) UNKNOWN	4	TVWABIQ	PTR TO BEGINNING OF INPUT QUEUE
36	(24) UNKNOWN	4	TVWANIM	PTR TO NEXT INPUT MESSAGE
40	(28) UNKNOWN	4	TVWAEIQ	PTR TO END OF INPUT QUEUE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
44	(2C)	UNKNOWN	4 TVWABOQ	PTR TO BEGINNING OF OUTPUT QUEUE
48	(30)	UNKNOWN	4 TVWANOM	PTR TO NEXT OUTPUT MESSAGE
52	(34)	UNKNOWN	4 TVWAEQ	PTR TO END OF OUTPUT QUEUE
56	(38)	UNKNOWN	4 TVWACPID	CELL POOL IDENTIFIER
60	(3C)	UNKNOWN	4 TVWAUSHM	AMOUNT OF USED MAIN STORAGE
64	(40)	UNKNOWN	4 TVWATCB	PTR TO TCB
68	(44)	UNKNOWN	4 TVWAGMPT	ADDR READ-BUF STORAGE AREA@G58AK3A
72	(48)	UNKNOWN	2 TVWARTR	RETRY COUNTER FOR VTAM MACROS
=====				
PARMLIB VALUES FIXED PER SESSION				
74	(4A)	UNKNOWN	2 TVWACLSZ	CELL POOL CELL SIZE
76	(4C)	UNKNOWN	4 TVWAHBUF	HIGH BUFFER THRESHOLD
80	(50)	UNKNOWN	4 TVWALBUF	LOW BUFFER THRESHOLD
84	(54)	UNKNOWN	1 TVWACHNL	MAXIMUM CHAIN LENGTH IN RU'S
=====				
END OF PARMLIB VALUES				
85	(55)	UNKNOWN	1 TVWAATTN	ATTENTION WITH STAX COUNT
86	(56)	UNKNOWN	1 TVWATQL1	LENGTH OF FIRST FLASH BACK BUFFER
87	(57)	UNKNOWN	1 TVWATQL2	LENGTH OF SECOND FLASH BACK BUFFER
88	(58)	UNKNOWN	4 TVWAACB	POINTER TO ACB
92	(5C)	UNKNOWN	4 TVWANIB	POINTER TO NIB
96	(60)	UNKNOWN	4 TVWARPL	POINTER TO RPL
100	(64)	UNKNOWN	4 TVWAEXL	POINTER TO EXLST

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
104	(68) UNKNOWN	4	TVWAVST	POINTER TO VARIABLE STORAGE AREA
108	(6C) UNKNOWN	2	TVWAVSZ	NUMBER OF BYTES IN THE VARIABLE STORAGE AREA
110	(6E) UNKNOWN	1	TVWAF LG7	SEVENTH TVWA FLAG BYTE
	1... ..		TVWABKPG	BREAK-IN PAGING
	.1.. ..		TVWASND1	0=FIRST SEND OF SESSION 1=NOT FIRST SEND
	..1.		TVWARDBF	TOM ISSUED READ BUFFER
	...1		TVWARET	LOSTERM EXIT TO VTAM
	.... 1..		TVWARISH	I/O MGRS REINITIALIZED
	.... .1..		TVWATOB	0=NO BEGIN BRACKET ON LAST SEND 1=BEGIN BRACKET ON LAST SEND
	.... .1.		TVWACHSE	LOSTERM CHASE INDICATOR
	.... .1			RESERVED
111	(6F) UNKNOWN	1	TVWALNSV	LINE COUNT SAVE AREA
112	(70) UNKNOWN	4	TVWAE CB	TERMINAL CONTROL ECB
116	(74) UNKNOWN	4	TVWATECB	TIMER ECB
120	(78) UNKNOWN	12	TVWAE CBL	RECONNECT ECB LIST
120	(78) UNKNOWN	4	TVWAE CB1	PTR TO CANCEL ECB(CHCECB)
124	(7C) UNKNOWN	4	TVWAE CB2	PTR TO RECONNECT ECB(TSBXECB)
128	(80) UNKNOWN	4	TVWAE CB3	PTR TO TIMER ECB(TVWAE CB)
132	(84) UNKNOWN	12	TVHADLST	INIT ROUTINE LIST
132	(84) UNKNOWN	4	TVHADIN1	ADDR 3270 INIT PROC
136	(88) UNKNOWN	4	TVHADIN2	ADDR 3767/3770 INIT PROC

TVWA

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
140	(8C) UNKNOWN	4	TVWADIN3	ADDR USER EXIT FOR INIT

144	(90) UNKNOWN	1	TVWAFLG1	FIRST TVWA FLAG BYTE
	1... ..		TVWATOD	TOM HAS FREED WORK AREA AND EXITED NORMALLY
	.1.. ..		TVWATIS	TOM IS SCHEDULED
	..1.		TVWATAS	TOM NOT AVAILABLE FOR SCHEDULING
	...1		TVWATID	TIM HAS FREED WORK AREA AND EXITED NORMALLY
	.... 1...		TVWAXSCD	EXAMINE WORKING SCR DIMENS0G58AK3A
	.... .1..		TVWAULK	UNLOCK KEYBOARD REQUEST
	.... ..1.		TVWALTE	OUTSTANDING LOSTERM ENTERED
	.... ...1		TVWAOOPS	OUT OF PAPER INDICATOR
145	(91) UNKNOWN	1	TVWAFLG2	SECOND TVWA FLAG BYTE
	1... ..		TVWABFC	BUFFER CONTENTION ENCOUNTERED
	.1.. ..		TVWAPGN	3270 SCREEN PAGING
	..1.		TVWASCD	CHANGE DIRECTION RECEIVED BY TIM
	...1		TVWAGERR	GLOBAL ERROR
	.... 1...		TVWAERMG	EXCEPTION REQUEST OR INPUT QUEUE FULL
	.... .1..		TVWABKMG	PARTIAL LINE LEFT IN BUFFER AFTER TPUT-BREAKIN FOR 3767/3770. FLASH BACK MESSAGE PENDING FOR 3270.
	.... ..1.		TVWARTRY	RETRY SEND AFTER NEGATIVE RESPONSE
	.... ...1		TVWABIR	BREAKIN REQUEST ON OUTPUT QUEUE
146	(92) UNKNOWN	1	TVWAFLG3	THIRD TVWA FLAG BYTE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	1... ..		TVWABRIN	TOM SENT SIGNAL FOR TPUT-BREAKIN.
	.1.. ..		TVWASDSG	ATTH REQS SIG FOR ALT TMP
	..1.		TVWAAIGN	ATTENTION IGNORED
	...1		TVWAQMRT	QUEUE MANAGER RETRYING ABENDED REQUEST
	.... 1...		TVWAQMIO	WHICH QUEUE SERVICE
	.... .1..		TVWAQLBU	0-IN,1-OUT LOOK-ASIDE BUFFER IN USE BY QMGR
	.... ..1.		TVWATRAN	TRANSLATE TABLE IN USE
	.... ....1		TVWATRDF	DEFAULT TRANSLATE TABLES IN USE
147	(93) UNKNOWN	1	TVWAFLG4	FOURTH TVWA FLAG BYTE
	1... ..		TVWAFMSC	FORMAT 3270. SCREEN
	.1.. ..		TVWADOOQ	DATA ON OUTPUT QUEUE
	..1.		TVWAKBDL	KEYBOARD IS LOCKED
	...1		TVWANOFB	NO FLASH BACK. LAST OUTPUT HAD BYPASS SET
	.... 1...		TVWAFLSC	FULLSCREEN TPUT ISSUED. LINE COUNTING BY 3270 TIM NOT NEEDED
	.... .1..		TVWAQMEV	FOOTPRINT FOR Q-ELEMENT VERIFICATION ROUTINE
	.... ..1.		TVWARCRS	RECEIVE RESPONSES
	.... ....1		TVWADARC	DATA RECVD AT LAST ATTR

148	(94) UNKNOWN	2		RESERVED
150	(96) UNKNOWN	1	TVWAFLG5	FIFTH FLAG BYTE
	1... ..		TVWASCAN	SCAN INPUT DATA FOR SBA
	.1.. ..		TVWAFSM	DISPLAY IN FULL SCR MODE
	..1.		TVWAHO	FULL SCREEN WRITTEN OVER
	...1		TVWAFSW	FULL SCR TPUT WAITING
	.... 1...		TVWATIR	TOM IS RUNNING
	.... .1..		TVWANFSP	NO FULL SCREEN 'PAGING' AFTER NON-FULLSCREEN TPUT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... ..1.		TVWAPRMT	PROMPTING IS IN EFFECT
151	.... ..1 (97) UNKNOWN	1	TVWAPIST TVWALNCT	FIRST PROMPT 3270 SCREEN LINE COUNTER
152	(98) UNKNOWN	4	TVWATABI	POINTER TO TRANSLATE TABLE (INBOUND)
156	(9C) UNKNOWN	4	TVWATABO	POINTER TO TRANSLATE TABLE (OUTBOUND)
160	(A0) UNKNOWN	8	TVWATRNM	NAME OF USER TRANSLATE TABLE LIBRARY MEMBER
168	(A8) UNKNOWN	4	TVWAATBI	POINTER TO ASCII TRANSLATE TABLE (INBOUND)
172	(AC) UNKNOWN	4	TVWAATBO	POINTER TO ASCII TRANSLATE TABLE (OUTBOUND)
176	(B0) UNKNOWN	4	TVWAQMLB	POINTER TO QMGR LOOK-ASIDE BUFFER
180	(B4) UNKNOWN	2		RESERVED OZ11997
182	(B6) UNKNOWN	1	TVWAFLG6	FLAG BYTE OZ11997
	1... ..		TVWAISSYS	IWAIT SYSEVENT ISSUES OZ12002
	.1.. ..		TVWAIOTR	I/O TRANSACTION 1=IN,0=OUT OZ11997
	..1.		TVWAIOP	I/O PENDING VTAM SENDING
	...1		TVWARCDT	TIM HAS RECD BUF CONTENTS
	.... 1...		TVWAFMEW	SENT FORMATTING ERASE-WRT
	.... .1..		TVWAINB	IN BRACKET MODE
183	.... ..11 (B7) UNKNOWN	1	TVWARSHW	RESERVED RESHOW CODE FL-SCR MODE
184	(B8) UNKNOWN	4	TVWAFRWI	INPUT MGR FRR WORK AREA

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
188	(BC) UNKNOWN	4	TVWAFRWO	OUTPUT MGR FRR WORK AREA
192	(C0) UNKNOWN	8		RESERVED
200	(C8) UNKNOWN	8	TVHAUSRA	USER AREA FOR INSTALLATION DATA
208	(D0) UNKNOWN	8		RESERVED
216	(D8) UNKNOWN	0	TVWAEND	END OF TSO/VTAM WORK AREA

CROSS REFERENCE

TVWA	0 (0)	TVWANOFB	147 X'10'
TVWAACB	88 (58)	TVWANOM	48 (30)
TVWAAIGN	146 X'20'	TVWAOOPS	144 X'01'
TVWAATBI	168 (A8)	TVWAPGN	145 X'40'
TVWAATBO	172 (AC)	TVWAPPL	0 (0)
TVWAATTN	85 (55)	TVWAPRMT	150 X'02'
TVWABFC	145 X'80'	TVWAPIST	150 X'01'
TVWABFPT	20 (14)	TVWAQLEU	146 X'04'
TVWABIQ	32 (20)	TVWAQMEV	147 X'04'
TVWABIR	145 X'01'	TVWAQHIO	146 X'08'
TVWABKNG	145 X'04'	TVWAQMLB	176 (B0)
TVWABKPG	110 X'80'	TVWAQHRT	146 X'10'
TVWABOQ	44 (2C)	TVWAQMHA	28 (1C)
TVWABRIN	146 X'80'	TVWARCDT	182 X'10'
TVWACHNL	84 (54)	TVWARCRS	147 X'02'
TVWACHSE	110 X'02'	TVWARDDBF	110 X'20'
TVWACLSZ	74 (4A)	TVWARET	110 X'10'
TVWACPID	56 (38)	TVWARISW	110 X'08'
TVWADARC	147 X'01'	TVWARPL	96 (60)
TVWADINI	132 (84)	TVWARSHW	183 (B7)
TVWADIN2	136 (88)	TVWARTR	72 (48)
TVWADIN3	140 (8C)	TVWARTRY	145 X'02'
TVWADLST	132 (84)	TVWASCAN	150 X'80'
TVWADOOQ	147 X'40'	TVWASCD	145 X'20'
TVWAECB	112 (70)	TVWASOSS	146 X'40'
TVWAECBL	120 (78)	TVWASND1	110 X'40'
TVWAECB1	120 (78)	TVWATABI	152 (98)
TVWAECB2	124 (7C)	TVWATABO	156 (9C)
TVWAECB3	128 (80)	TVWATAS	144 X'20'
TVWAEIQ	40 (28)	TVWATCB	64 (40)
TVWAEND	216 (D8)	TVWATECB	116 (74)
TVWAEQ	52 (34)	TVWATID	144 X'10'
TVWAERNG	145 X'08'	TVWATIMW	8 (8)
TVWAEXL	100 (64)	TVWATIR	150 X'08'
TVWAFGL1	144 (90)	TVWATIS	144 X'40'
TVWAFGL2	145 (91)	TVWATOSB	110 X'04'
TVWAFGL3	146 (92)	TVWATOD	144 X'80'
TVWAFGL4	147 (93)	TVWATOMW	12 (C)
TVWAFGL5	150 (96)	TVWATOPQ	16 (10)
TVWAFGL6	182 (B6)	TVWATQL1	86 (56)
TVWAFGL7	110 (6E)	TVWATQL2	87 (57)
TVWAFLSC	147 X'08'	TVWATRAN	146 X'02'
TVWAFMEW	182 X'08'	TVWATRDF	146 X'01'
TVWAFMSC	147 X'80'	TVWATRNM	160 (A0)
TVWAFRHI	184 (B8)	TVWAULK	144 X'04'
TVWAFRHO	188 (BC)	TVWAUSMN	60 (3C)
TVWAFSH	150 X'40'	TVWAUSRA	200 (C8)
TVWAFSW	150 X'10'	TVWAVST	104 (68)
TVWAGERR	145 X'10'	TVWAVSZ	108 (6C)
TVWAGMPT	68 (44)	TVWANO	150 X'20'
TVWAHBUF	76 (4C)	TVWAXSCD	144 X'08'
TVWAINB	182 X'04'		
TVWAIOP	182 X'20'		
TVWAIOTR	182 X'40'		
TVWAI SYS	182 X'80'		
TVWAKBDL	147 X'20'		
TVWALBUF	80 (50)		
TVWALLWA	24 (18)		
TVWALNCT	151 (97)		
TVWALNSV	111 (6F)		
TVWALTE	144 X'02'		
TVWANFSP	150 X'04'		
TVWANIB	92 (5C)		
TVWANIM	36 (24)		

TWAR

Common Name: TCAS Work Area

Macro ID: IKTCASHA

DSECT Name: TWAR

Created by: TCAS routine IKTCAS51

Subpool and Key: Subpool 0 and key 6

Size: 536 bytes

Pointed to by: TCASWA field of the TCAST data area

Serialization: LOCAL lock

Function: The TWAR provides data storage for TCAS inter-task communication and diagnostic recording for TCAS error analysis.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	536	TWAR	TCAS WORK AREA
0	(0) UNKNOWN	2	TWACOMP	TCAS COMPLETION CODE
2	(2) UNKNOWN	2	TWARSON	TCAS TERMINATION REASON CODE
4	(4) UNKNOWN	4	TWASYNQH	SYNCHRONOUS QUEUE HEADER
8	(8) UNKNOWN	4	TWAPASQH	PENDING ADDRESS SPACE Q HEADER
12	(C) UNKNOWN	4	TWAASCB	ASCB POINTER
16	(10) UNKNOWN	4	TWACSCB	CSCB POINTER
20	(14) UNKNOWN	4	TWATCAST	TCAST POINTER
24	(18) UNKNOWN	4	TWAINIT	TCAS INITIALIZATION RTN POINTER
28	(1C) UNKNOWN	4	TWATTSR	TCAS TERMINATION ROUTINE POINTER
32	(20) UNKNOWN	4	TWATCSR	TCAS CREATE ROUTINE POINTER
36	(24) UNKNOWN	4	TWAPPSR	PARAM PROCESS ROUTINE POINTER
40	(28) UNKNOWN	4	TWAEESR	ESTAE EXIT ROUTINE POINTER
44	(2C) UNKNOWN	4	TWADEQAS	ADDRESS OF DEQ ROUTINE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
48	(30) UNKNOWN	4	TWAMSG	ADDRESS OF MESSAGE BLOCK
52	(34) UNKNOWN	4	TWAVTCB	VTAM INT SUBTASK TCB POINTER
56	(38) UNKNOWN	4	TWAUTCB	USER INT SUBTASK TCB POINTER
60	(3C) UNKNOWN	4	TWACTCB	CON COMM SUBTASK TCB POINTER
64	(40) UNKNOWN	4	TWAMECB	MAINLINE ECB
68	(44) UNKNOWN	4	TWAVCOMP	VTAM INT COMPLETION CODE
72	(48) UNKNOWN	4	TWAUCOMP	USER INT COMPLETION CODE
76	(4C) UNKNOWN	4	TWACCOMP	CONSOLE COMM COMPLETION CODE
80	(50) UNKNOWN	1	TWAMFL	MAIN TASK FLAG BYTE
	1... ..		TWAMFL1	TCAS TERMINATION ROUTINE

=====

BYPASS INDICATOR

81	.111 1111 (51) UNKNOWN	1	TWAVFL	RESERVED
	1... ..		TWAVFL1	VTAM INTERFACE SUBTASK FLAG
	.1..		TWAVFL2	VTAM INTERFACE SUBTASK ATTACHED
	..1.		TWAVFL3	VTAM INTERFACE SUBTASK ABEND
	...1		TWAVFL4	POST USER INTERFACE SUBTASK
	.... 1..		TWAVFL5	ESTAE EXIT COMPLETE
	.... .1..		TWAVFL6	OPEN ACB ISSUED
	.... ..11			START LOGON ISSUED
82	(52) UNKNOWN	1	TWAUFL	RESERVED
	1... ..		TWAUFL1	USER INTERFACE SUBTASK FLAG
	.1..		TWAUFL2	USER INTERFACE SUBTASK ATTACHED
				USER INTERFACE SUBTASK ABEND

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
..1.			TWAUFL3	POST VTAM INTERFACE SUBTASK
...1			TWAUFL4	ESTAE EXIT COMPLETE RESERVED
83 (53) UNKNOWN	.... 1111	1	TWACFL	CONSOLE COMM SUBTASK FLAG
1...			TWACFL1	CONSOLE COMM SUBTASK ATTACHED
.1..			TWACFL2	CONSOLE COMM SUBTASK ABEND
..1.			TWACFL4	ESTAE EXIT COMPLETE RESERVED
...1 1111				

=====

MAIN TASK SEGMENT

84 (54) UNKNOWN		100	TWAM	
84 (54) UNKNOWN		4	TWAMID	'MAIN'
88 (58) UNKNOWN		48	TWAMEWA	ESTAE EXIT WORK AREA
136 (88) UNKNOWN		4	TWAMTWA	TWAR POINTER FOR ESTAE EXIT
140 (8C) UNKNOWN		4	TWAMABFC	ABEND RECORDING AREA
144 (90) UNKNOWN		8	TWAMRTFC	RETRY RECORDING AREA
152 (98) UNKNOWN		32	TWAME	FOOTPRINT FOR ERROR

=====

RECOVERY AND ESTAE

152 (98) UNKNOWN		4	TWAMEI	
152 (98) UNKNOWN		1	TWAMEIFC	FUNCTION CODE
153 (99) UNKNOWN		3	TWAMERA	RETRY ADDRESS
156 (9C) UNKNOWN		4	TWAMERRS	REGS SAVE AREA ADDRESS

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
VTAM INTERFACE SUBTASK SEGMENT				
184	(B8) UNKNOWN	100	TWAV	
184	(B8) UNKNOWN	4	TWAVID	'VTAM'
188	(BC) UNKNOWN	48	TWAVEWA	ESTAE EXIT WORK AREA
236	(EC) UNKNOWN	4	TWAVTWA	TWAR POINTER FOR ESTAE EXIT
240	(F0) UNKNOWN	4	TWAVABFC	ABEND RECORDING AREA
244	(F4) UNKNOWN	8	TWAVRTFC	RETRY RECORDING AREA
252	(FC) UNKNOWN	32	TWAVE	FOOTPRINT FOR ERROR
=====				

RECOVERY AND ESTAE

252	(FC) UNKNOWN	4	TWAVEI	
252	(FC) UNKNOWN	1	TWAVEIFC	FUNCTION CODE
253	(FD) UNKNOWN	3	TWAVERA	RETRY ADDRESS
256	(100) UNKNOWN	4	TWAVERRS	REGS SAVE AREA ADDRESS
284	(11C) UNKNOWN	16	TWAVI	
284	(11C) UNKNOWN	4	TWAVECB	VTAM INTERFACE SUBTASK ECB
288	(120) UNKNOWN	4	TWAVTEQH	TPEND QUEUE HEADER
292	(124) UNKNOWN	4	TWAVTHQH	TERMINAL HANDLING QUEUE HEADER
296	(128) UNKNOWN	4	TWAVACQH	ACB CONTROL QUEUE HEADER

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
USER INTERFACE SUBTASK SEGMENT				
300	(12C)	UNKNOWN	100 TWAU	
300	(12C)	UNKNOWN	4 TWAUID	'USER'
304	(130)	UNKNOWN	48 TWAUEWA	ESTAE EXIT WORK AREA
352	(160)	UNKNOWN	4 TWAUTWA	TWAR POINTER FOR ESTAE EXIT
356	(164)	UNKNOWN	4 TWAUABFC	ABEND RECORDING AREA
360	(168)	UNKNOWN	8 TWAURTFC	RETRY RECORDING AREA
368	(170)	UNKNOWN	32 TWAUE	FOOTPRINT FOR ERROR
=====				
RECOVERY AND ESTAE				
368	(170)	UNKNOWN	4 TWAUEI	
368	(170)	UNKNOWN	1 TWAUEIFC	FUNCTION CODE
369	(171)	UNKNOWN	3 TWAUERA	RETRY ADDRESS
372	(174)	UNKNOWN	4 TWAUERRS	REGS SAVE AREA ADDRESS
400	(190)	UNKNOWN	8 TWAUI	
400	(190)	UNKNOWN	4 TWAUECB	USER INTERFACE SUBTASK ECB
404	(194)	UNKNOWN	4 TWAUACQH	ADDRESS SPACE CREATE Q HEADER
=====				
CONSOLE COMMUNICATION SUBTASK SEGMENT				
408	(198)	UNKNOWN	100 TWAC	
408	(198)	UNKNOWN	4 TWACID	'CCOM'
412	(19C)	UNKNOWN	48 TWACEWA	ESTAE EXIT WORK AREA
460	(1CC)	UNKNOWN	4 TWACTION	TWAR POINTER FOR ESTAE EXIT
464	(100)	UNKNOWN	4 TWACABFC	ABEND RECORDING AREA
=====				

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
468 (1D4)	UNKNOWN	8	TWACRTFC	RETRY RECORDING AREA
476 (1DC)	UNKNOWN	32	TWACE	FOOTPRINT FOR ERROR

RECOVERY AND ESTAE				
476 (1DC)	UNKNOWN	4	TWACEI	
476 (1DC)	UNKNOWN	1	TWACEIFC	FUNCTION CODE
477 (1DD)	UNKNOWN	3	TWACERA	RETRY ADDRESS
480 (1E0)	UNKNOWN	4	TWACERRS	REGS SAVE AREA ADDRESS
508 (1FC)	UNKNOWN	16	TWACI	
508 (1FC)	UNKNOWN	4	TWACECB	CONSOLE COMM SUBTASK ECB
512 (200)	UNKNOWN	4	TWACSTPQ	STOP COMMAND QUEUE HEADER
516 (204)	UNKNOWN	4	TWACMODQ	MODIFY COMMAND QUEUE HEADER
520 (208)	UNKNOWN	1	TWACSKIP	INTER-CSECT SWITCH
521 (209)	UNKNOWN	3		RESERVED
524 (20C)	UNKNOWN	12	TWAWORKE	RETURN WORK ELEMENT
536 (218)	UNKNOWN	0	TWAEND	END OF TWAR

CROSS REFERENCE

TWAASCB	12 (C)	TWAUFL1	82 X'80'
TWAC	408(193)	TWAUFL2	82 X'40'
TWACABFC	464(100)	TWAUFL3	82 X'20'
TWACCOMP	76 (4C)	TWAUFL4	82 X'10'
TWACE	476(10C)	TWAUI	400(190)
TWACECB	508(1FC)	TWAUID	300(12C)
TWACEI	476(10C)	TWAURTFC	360(168)
TWACEIFC	476(10C)	TWAUTCB	56 (38)
TWACERA	477(10D)	TWAUTWA	352(160)
TWACERRS	460(1E0)	TWAV	184 (B8)
TWACEWA	412(19C)	TWAVABFC	240 (F0)
TWACFL	83 (53)	TWAVACQH	296(128)
TWACFL1	83 X'80'	TWAVCOMP	68 (44)
TWACFL2	83 X'40'	TWAVE	252 (FC)
TWACFL4	83 X'20'	TWAVECB	284(11C)
TWACI	508(1FC)	TWAVEI	252 (FC)
TWACID	408(193)	TWAVEIFC	252 (FC)
TWACMODQ	516(204)	TWAVERA	253 (FD)
TWACOMP	0 (0)	TWAVERRS	256(100)
TWACRTFC	468(104)	TWAVEWA	188 (BC)
TWACSCB	16 (10)	TWAVFL	81 (51)
TWACSKIP	520(208)	TWAVFL1	81 X'80'
TWACSTPQ	512(200)	TWAVFL2	81 X'40'
TWACTCB	60 (3C)	TWAVFL3	81 X'20'
TWACTWA	460(1CC)	TWAVFL4	81 X'10'
TWAEQAS	44 (2C)	TWAVFL5	81 X'08'
TWAEESR	40 (28)	TWAVFL6	81 X'04'
TWAEND	536(216)	TWAVI	284(11C)
TWAINIT	24 (18)	TWAVID	184 (B8)
TWAM	84 (54)	TWAVRTFC	244 (F4)
TWAMABFC	140 (8C)	TWAVTCB	52 (34)
TWAME	152 (98)	TWAVTEQH	288(120)
TWAMECB	64 (40)	TWAVTHQH	292(124)
TWAMEI	152 (98)	TWAVTWA	236 (EC)
TWAMEIFC	152 (98)	TWAWORKE	524(20C)
TWAMERA	153 (99)		
TWAMERRS	156 (9C)		
TWAMEWA	88 (58)		
TWAMFL	80 (50)		
TWAMFL1	80 X'80'		
TWAMID	84 (54)		
TWAMRTFC	144 (90)		
TWAMSG	48 (30)		
TWAMTWA	136 (88)		
TWAPASQH	8 (8)		
TWAPPSR	36 (24)		
TWAR	0 (0)		
TWARSON	2 (2)		
TWASYNQH	4 (4)		
TWATCAST	20 (14)		
TWATCSR	32 (20)		
TWATTSR	28 (1C)		
TWAU	300(12C)		
TWAUABFC	356(164)		
TWAUACQH	404(194)		
TWAUCOMP	72 (48)		
TWAUE	368(170)		
TWAUECB	400(190)		
TWAUEI	368(170)		
TWAUEIFC	368(170)		
TWAUERA	369(171)		
TWAUERRS	372(174)		
TWAUEWA	304(130)		
TWAUFL	82 (52)		

TWAR

TWAR
Data Area Descriptions 453

UCB

Common Name: IOS Unit Control Block

Macro ID: IEFUCBOB

DSECT Name: UCB (DSECT card precedes prefix). UCBCMS:EG may be used in the USING statement for the common section.

UCBCMEXT (DSECT for common UCB extension),
UCBMT (DSECT for magnetic tape extension),

UCBOCR (DSECT for optical character reader extension),

UCB3540X (DSECT for 3540 device extension),

UCBUCS (DSECT for unit record with UCS extension),

UCB3800X (DSECT for 3800 device extension)

Created by: SYSGEN

Subpool and Key: NUCLEUS resident and key 0

Size: Variable

Pointed to by: DEBUCCAD field of the DEB data area
IOSUCB field of the IOSB data area
JESUNITS field of the JESCT data area
PCCAUCB field of the PCCA data area
(channel-detected error UCB)
RQEUCB field of the RQE data area
TCCWUCB field of the TCCW data area
TIOEFSRT field of the TIOT data area

Serialization: UCB lock, compare & swap logic, ENQ on major SYSTIEFS minor Q4.

Function: The UCB describes the characteristics of a device to the I/O supervisor and is used by the job scheduler during allocation of the device. There is a UCB for each device attached to the system. For device code definitions, see the UCBTYP data area description.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0)	BAL	STMT	0
=====				
SYSGEN-INDEPENDENT COMMON SECTION				
0	(0)	SIGNED	4	UCBOB

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) BITSTRING	1	UCBJBNR	FLAG BYTE (OS/VS2)
1... ..			UCBVRDEV	X'80' UCB FOR VIO DEVICE
.1..			UCBJES3	X'40' ALL VOLUME MOUNTING AND DEVICE MANAGEMENT FOR THIS DEVICE IS CONTROLLED BY JES3
..1.			UCBDUC	X'20' DISPLAY DEVICE UNIT CHECK IPL
...1			UCBRV003	X'10',,C'X' RESERVED
.... 1..			UCBOLDSM	X'08' OLTEP COMMUNICATING DIRECTLY WITH THE MASS STORAGE CONTROL (MSC), NOT THROUGH THE MASS STORAGE SYSTEM COMMUNICATOR (MSSC)
.... .1..			UCBMMSGP	X'04' MOUNT MESSAGE PENDING. THE DEVICE HAS BEEN SELECTED BY DEVICE ALLOCATION, BUT NO MOUNT MESSAGE HAS BEEN ISSUED.
.... ..1.			UCBRV011	X'02',,C'X' RESERVED
.... ...1			UCBMONT	X'01' VOLUME TO BE MOUNTED IS TO BE RETAINED OR CONTAIN A PASSED DATA SET (SET BY DEVICE ALLOCATION OR DATA MANAGEMENT FOR OS/VS2)
1	(1) BITSTRING	1	UCBFL5	FLAGS
1... ..			UCBDCC	X'80' DISCONNECT COMMAND CHAIN DEVICE

UCB

UCB

Data Area Descriptions 455

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.1..			UCBAF	X'40' ATTENTION FOR THIS CONSOLE DEVICE IS TO BE PROCESSED BY THE COMMUNICATIONS TASK
.1..			UCBAMV	X'40' SUCCESSFUL COMPARISON CHECKING OF THE ACCESS METHOD CATALOG AND THE VTOC (VSAM DIRECT ACCESS DEVICES ONLY)
..1.			UCBSASK	X'20' DEVICE REQUIRES STAND ALONE SEEK
...1			UCBVSDR	X'10' DEVICE HAS VARIABLE LENGTH SDR'S
.... 1...			UCBENVRD	X'08' DEVICE RETURNS ENVIRONMENTAL DATA
.... .1..			UCBNALOC	X'04' THIS OFFLINE DEVICE IS BEING USED BY A SYSTEM COMPONENT. THE DEVICE STATUS MUST NOT CHANGE TO ONLINE NOR WILL IT BE ALLOCATED. THE LAST PATH/CHANNEL/CP U TO THE DEVICE MUST NOT BE VARY'ED OFFLINE. THE DEVICE IS UNAVAILABLE FOR USAGE BY ANOTHER SYSTEM COMPONENT WHICH PROCESSES OFFLINE DEVICES. TO SET THIS INDICATOR ON, A COMPONENT MUST OBTAIN VIA ENQ, EXCLUSIVE, SYSTEM LEVEL CONTROL OF RESOURCE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				SYSIEFSD, Q4. SERIALIZATION IS NOT REQUIRED TO TURN THIS INDICATOR OFF.
....	..1.		UCBALTCU	X'02' DEVICE HAS AN ALTERNATE CONTROL UNIT ADDRESS
....	....1		UCBALTPH	X'01' DEVICE HAS AN ALTERNATE PATH UCB
2	(2) CHARACTER	1	UCBID	UCB IDENTIFICATION (FF)
1111	1111		UCBSTND	X'FF' STANDARD UCB
3	(3) BITSTRING	1	UCBSTAT	DEVICE STATUS
1...	....		UCBONLI	X'80' DEVICE IS ONLINE
.1..	....		UCBCHGS	X'40' DEVICE STATUS IS TO BE CHANGED FROM ONLINE TO OFFLINE, AND EITHER ALLOCATION IS ENQUEUED ON DEVICES OR THE DEVICE IS ALLOCATED. (BIT 0 IS ALSO ON.)
..1.	....		UCBRESV	X'20' THE MOUNT STATUS OF THE VOLUME ON THIS DEVICE IS RESERVED
...1	....		UCBUNLD	X'10' UNLOAD OPERATOR COMMAND HAS BEEN ADDRESSED TO THIS DEVICE. THE DEVICE IS NOT YET UNLOADED.
....	1...		UCBALOC	X'08' DEVICE IS ALLOCATED
....	.1..		UCBPRES	X'04' THE MOUNT STATUS OF THE VOLUME ON THIS DEVICE IS PERMANENTLY RESIDENT
....	..1.		UCBSYSR	X'02' SYSTEM RESIDENCE DEVICE OR PRIMARY CONSOLE OR ACTIVE CONSOLE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.....1			UCBDADI	X'01' STANDARD TAPE LABELS HAVE BEEN VERIFIED FOR THIS TAPE VOLUME OR SECONDARY CONSOLE OR CONSOLE STATUS CHANGING

4	(4) SIGNED	2	UCBCHAN	BINARY CHANNEL/UNIT ADDRESS

4	(4) SIGNED	1	UCBCHA	BINARY CHANNEL ADDRESS OF LAST STARTED I/O OPERATION
5	(5) SIGNED	1	UCBUA	BINARY UNIT ADDRESS
6	(6) BITSTRING	2	UCBSFLS	DEVICE STATUS FLAGS
6	(6) BITSTRING	1	UCBFLA	I/O SUPERVISOR FLAG BYTE A
	1... ..		UCBBSY	X'80' DEVICE IS BUSY
	.1.. ..		UCBNRY	X'40' DEVICE NOT READY
	..1.		UCBPST	X'20' POST FLAG (ASSOC IOQE)
	...1		UCBPSNS	X'10' PENDING SENSE OPERATION
	.... 1...		UCBCUB	X'08' CONTROL UNIT BUSY
	.... .1..		UCBSAP	X'04' STAND ALONE PROCESS ON DEVICE ACTIVE (EG., RESERVE)
	.... ..1.		UCBACTV	X'02' CHANNEL PROGRAM ACTIVE ON DEVICE
	.... ...1		UCBQISCE	X'01' DEVICE QUIESCED
7	(7) BITSTRING	1	UCBFLB	I/O SUPERVISOR FLAG BYTE B
	1... ..		UCBIORST	X'80' I/O RESTART VIA ALTERNATE CPU RECOVERY HAS FACTORED DEVICE OUT OF CONFIGURATION BECAUSE OF NON-ACCESSABILITY. ALL INCOMING I/O REQUESTS ARE INTERCEPTED AND MARKED IN

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				PERMANENT ERROR WITH A COMPLETION CODE OF X'51'. HOWEVER, IF CHANNEL RECONFIGURATION HARDWARE (CRH) IS ACTIVE AND CRH WILL BE USED TO ACCESS THE DEVICE ASSOCIATED WITH THE UCB, THIS BIT WILL BE ON IN EVERY UCB THAT HAS OUTSTANDING I/O ACROSS A CRH PATH.
.1..			UCBASNS	X'40' SENSE ACTIVE ON DEVICE
..1.			UCBSPST	X'20' SENSE POST INDICATOR
...1			UCBRESVH	X'10' DEVICE RESERVED INDICATOR
.... 1...			UCBCRHRV	X'03' RESERVED PATH THROUGH A CHANNEL RECONFIGURATION HARDWARE (CRH)
.... .1..			UCBCRHSN	CONNECTION X'04' IF 1, SENSE PENDING FROM INOPERATIVE CPU. IF 0, SENSE PENDING FROM OPERATIVE CPU. BIT IS SET ONLY WHEN CHANNEL RECONFIGURATION HARDWARE (CRH) IS ACTIVE.
.... ..1.			UCBVALPH	X'02' PATH VALIDATION
....1			UCBSIGP	X'01' IOS SIGP INDICATOR TO PREVENT PING/PONG

8	(8) BITSTRING	1	UCBCHM	PATH STATUS MASK FOR THIS DEVICE

8	(8) BITSTRING 11..	1	UCBCHM1 UCBPTH0	SAME AS UCBCHM X'C0' PATHS FROM CPU 0

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
1... ..			UCBPPA	X'80' PRIMARY PATH CPU 0. IF 0, PATH IS AVAILABLE. IF 1, PATH IS UNAVAILABLE.
.1.. ..			UCBSPA	X'40' SECONDARY PATH CPU 0. IF 0, PATH IS AVAILABLE. IF 1, PATH IS UNAVAILABLE.
..11 ..			UCBP1H1	X'30' PATHS FROM CPU 1
..1.			UCBPPB	X'20' PRIMARY PATH CPU 1. IF 0, PATH IS AVAILABLE. IF 1, PATH IS UNAVAILABLE.
...1			UCBSPB	X'10' SECONDARY PATH CPU 1. IF 0, PATH IS AVAILABLE. IF 1, PATH IS UNAVAILABLE.
.... 1...			UCBRV014	X'08',,C'X' RESERVED
.... .1..			UCBRV015	X'04',,C'X' RESERVED
.... ..1.			UCBRV016	X'02',,C'X' RESERVED
.... ...1			UCBRV017	X'01',,C'X' RESERVED
9	(9) SIGNED	1	UCBCNT	COUNT OF QUEUED REQUESTS WAITING FOR DEVICE
10	(A) SIGNED	1	UCBLCI	INCREMENT WHICH, WHEN MULTIPLIED BY 32, BECOMES AN INDEX TO THE LOGICAL CHANNEL TABLE (LCHTAB)
11	(B) HEX	1	UCBCPU	LAST SIO TO DEVICE ISSUED FROM THIS CPUID

12	(C) BITSTRING	1	UCBWGT	FLAGS
	1... ..		UCBIN	X'80' SYSIN
	.1.. ..		UCBOUT	X'40' SYSOUT
	..1.		UCBPUB	X'20' ASSUMED THAT THIS DEVICE WILL BE ALLOCATED FOR A PUBLIC VOLUME REQUEST

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
....1			UCBREW	X'10' REWIND COMMAND HAS BEEN ADDRESSED TO THIS MAGNETIC DEVICE BY I/O SUPPORT
.... 1...			UCBMTXPX	X'C8' MULTIPLE EXPOSURE DEVICE
.... .1..			UCBVORSN	X'04' VARY COMMAND OPERATOR REASON INDICATOR
.... ..1.			UCBVHRSN	X'02' VARY COMMAND HIERARCHY REASON INDICATOR
....1			UCBRV029	X'01',,C'X' RESERVED
13	(D) CHARACTER	3	UCBNAME	UNIT NAME (EBCDIC)

16	(10) CHARACTER	4	UCBTYP	DEVICE TYPE

16	(10) BITSTRING	1	UCBTBYT1	MODEL BITS
	1...		UCB1FEA0	X'80' BIT 0
	.1..		UCB1FEA1	X'40' BIT 1
	..1.		UCB1FEA2	X'20' BIT 2
	...1		UCB1FEA3	X'10' BIT 3
	.... 1...		UCB1FEA4	X'08' BIT 4
	.... .1..		UCB1FEA5	X'04' BIT 5
	.... .1..		UCBD1600	X'04' 1600 BPI
	.... ..1.		UCB1FEA6	X'02' BIT 6
	.... ..1.		UCBD6250	X'02' 6250 BPI
	.... ....1		UCB1FEA7	X'01' BIT 7
17	(11) BITSTRING	1	UCBTBYT2	OPTION FLAGS
	1...		UCB2OPT0	X'80' FLAG 0
	.1..		UCB2OPT1	X'40' FLAG 1
	..1.		UCB2OPT2	X'20' FLAG 2
	...1.		UCBDUDN1	X'20' DUAL DENSITY 800/1600 BPI
	.... 1...		UCBRR	X'20' THIS DEVICE IS SHARABLE BETWEEN TWO CPU'S (DIRECT ACCESS)
	.... 1....		UCB2OPT3	X'10' FLAG 3
	.... 1....		UCBDUDN2	X'10' DUAL DENSITY 1600/6250 BPI
	.... 1....		UCBRPS	X'10' ROTATIONAL POSITION SENSING (RPS) DEVICE (DIRECT ACCESS)
	.... 1...		UCB2OPT4	X'08' FLAG 4

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... 1...			UCBRWTAU	X'08' READ/WRITE TAPE CONTROL
.... 1...			UCBRVDEV	X'08' IF 0, REAL DEVICE. IF 1, VIRTUAL DEVICE. (DIRECT ACCESS)
.... .1..			UCB2OPT5	X'04' FLAG 5
.... .1..			UCB2OPT6	X'02' FLAG 6
.... .1..			UCBVLPWR	X'02' VOLUME REQUIRES ALTERNATE POWER SOURCE DEVICE
.... ...1			UCB2OPT7	X'01' FLAG 7
.... ...1			UCBDVPWR	X'01' DEVICE HAS ALTERNATE POWER SOURCE
18	(12) BITSTRING	1	UCBDVCLS	SAME AS UCBTBYT3
18	(12) BITSTRING	1	UCBTBYT3	CLASS BITS
	1...		UCB3TAPE	X'80' TAPE
	.1..		UCB3COMM	X'40' COMMUNICATIONS
	.1.. ...1		UCB3CTC	X'41' CHANNEL-TO-CHAN NEL ADAPTER
	..1.		UCB3DACC	X'20' DIRECT ACCESS
	...1		UCB3DISP	X'10' DISPLAY
	.... 1...		UCB3UREC	X'08' UNIT RECORD
	.... .1..		UCB3CHAR	X'04' CHARACTER READER
	.... .1..		UCBRSV10	X'02',,C'X' RESERVED
	.... ...1		UCBRSV11	X'01',,C'X' RESERVED
19	(13) CHARACTER	1	UCBUNTYP	SAME AS UCBTBYT4
19	(13) CHARACTER	1	UCBTBYT4	DEVICE CODE
	1111 ...1		UCB3791L	X'F1' 3791 LOCAL CONTROL UNIT
	.1.. 11..		UCB3838	X'4C' 3838 ARRAY PROCESSOR
	.1.. ...1		UCBDSM	X'42' MASS STORAGE CONTROL (MSC) (3851)
	..11 11.1		UCB7443	X'3D' 7443 SERVICE RECORD FILE
	...1 1..1		UCB3895	X'19' 3895 DEVICE
	...1 ...1		UCB42AD1	X'11' 2702 CONTROL UNIT WITH TYPE 1 ADAPTOR

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... 111.			UCB3800	X'0E' 3800 DEVICE
.... 11.1			UCB3036	X'0D' 3036 DISPLAY CONSOLE
.... 1..1			UCB3211	X'09' 3211 PRINTER
.... ..11			UCB3400	X'03' 3400 MAGNETIC TAPE
.... ...1			UCB2400	X'01' 2400 SERIES MAGNETIC TAPE DEVICE

20	(14) A-ADDRESS	4	UCBEXTPT	ADDRESS OF COMMON UCB EXTENSION

20	(14) BITSTRING	1	UCBFLC	I/O SUPERVISOR FLAG BYTE C
	1...		UCBATTP	X'80' ATTENTION PENDING
	.1..		UCBWAA	X'40' WORK AREA APPENDED
	..1.		UCBUDE	X'20' UNSOLICITED DEVICE END RECEIVED
	...1		UCBITF	X'10' INTERCEPT CONDITION
	.... 1...		UCBIVRS	X'08' INTERVENTION REQUIRED MESSAGE ISSUED
	.... .1..		UCBIVRR	X'04' INTERVENTION REQUIRED MESSAGE IS NEEDED
	.... ..1.		UCBTICBT	X'02' CHANNEL END AND/OR DEVICE END OR MOUNT CONDITION PENDING.
	.... ...1		UCBDDRSW	X'01' DDR SWITCH PENDING ON THIS DEVICE
21	(15) A-ADDRESS	3	UCBEXTP	ADDRESS OF COMMON UCB EXTENSION

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
DEVICE-DEPENDENT UCB SEGMENTS				
=====				
DIRECT ACCESS DEVICE SEGMENT				
=====				
UCBVOLI, UCBSTAB AND UCBDMCT ARE SAME IN TAPE SEGMENT AS IN DIRECT ACCESS SEGMENT				

24	(18) CHARACTER	4	UCBVTOC	RELATIVE ADDRESS OF VTOC FOR THIS VOLUME, IN FORM TTRO

28	(1C) CHARACTER	6	UCBVOLI	VOLUME SERIAL NUMBER
34	(22) BITSTRING 1...	1	UCBSTAB UCBBSVL	VOLUME STATUS X'80' VOLUME DEMOUNTABLE BY DATA MANAGEMENT (DIRECT ACCESS) (OS/VS2)
	1...		UCBDVSHR	X'80' DEVICE NOT SHARABLE AMONG SEVERAL CPU'S (3420 MAGNETIC TAPE DEVICES ONLY)
	.1...		UCBPGFL	X'40' UCB IS OPEN AND IS BEING USED AS A PAGE FILE
	..1.		UCBPRSRS	X'20' DURING VOLUME ATTRIBUTE PROCESSING THIS BIT IS USED BOTH TO DENOTE UCB'S THAT WERE MARKED PERMANENTLY RESIDENT PRIOR TO GETTING CONTROL AND TO IDENTIFY DEVICES THAT WERE SELECTED BY THE OPERATOR FOR MOUNTING VOLUMES (DIRECT ACCESS)

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
...	...		UCBBALB	X'20' ADDITIONAL VOLUME LABEL PROCESSING (TAPE)
...	...		UCBBPRV	X'10' PRIVATE VOLUME USE STATUS
....	1...		UCBBPUB	X'08' PUBLIC VOLUME USE STATUS
....	.1..		UCBBSTR	X'04' STORAGE VOLUME USE STATUS (DIRECT ACCESS) THE VOLUME MOUNTED HAS AN AMERICAN NATIONAL STANDARD LABEL (TAPE)
....	..1.		UCBSHAR	X'02' VOLUME SHAREABLE AMONG JOB STEPS (OS/V52)
....	....1		UCBBNUL	X'01' CONTROL VOLUME A CATALOG DATA SET IS ON THIS VOLUME (DIRECT ACCESS) IF THE MULTIPLE CONSOLE SUPPORT OPTION IS IN THE SYSTEM, DEMOUNT OR MOUNT MESSAGES HAVE BEEN ISSUED AND THE MESSAGE ID'S ARE AT OFFSETS 40 THROUGH 45. OPEN WILL DELETE THE MESSAGES AND TURN THIS BIT OFF. (TAPE)
35	(23) HEX	1	UCBDMCT	VOLUME USE BYTE
	1... ..		UCBMOUNT	X'80' IF 0, A MOUNT VERIFICATION HAS BEEN PERFORMED. IF 1, A MOUNT REQUEST HAS BEEN ISSUED. (DIRECT ACCESS) FOR TAPE, THE FOLLOWING MEANINGS

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				<p>APPLY. NORMAL SCHEDULER PROCESSING IF 0, NO VOLUME HAS BEEN MOUNTED. IF 1, A VOLUME HAS BEEN MOUNTED BUT NO VOLUME LABEL PROCESSING HAS BEEN PERFORMED. SL OPEN ROUTINE IF 0, STANDARD VOLUME LABEL AND CORRECT SERIAL NUMBER HAVE BEEN VERIFIED. IF 1, VOLUME LABEL IS NOT STANDARD FORMAT OR SERIAL NUMBER IS NOT CORRECT. (A MOUNT MESSAGE HAS BEEN ISSUED.) NSL OPEN ROUTINE IF 0, NON-STANDARD VOLUME LABEL HAS BEEN VERIFIED. IF 1, VOLUME LABEL IS NOT STANDARD FORMAT. (CONTROL PASSES TO THE PROCESSING PROGRAM'S NON-STANDARD LABEL PROCESSING ROUTINE.) VOLUME LABEL IS STANDARD FORMAT. (CONTROL REMAINS WITH THE OPEN ROUTINE. A MOUNT MESSAGE HAS BEEN ISSUED.) BLP OPEN ROUTINE IF 0, VOLUME LABEL HAS NOT BEEN PROCESSED.</p>

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.111 1111		UCBDMC	X'7F' NUMBER OF DCB'S OPEN FOR THIS VOLUME
36	(24) SIGNED	1	UCBSQC	NUMBER OF RESERVE MACRO INSTRUCTIONS ISSUED
37	(25) BITSTRING	1	UCBFL4	DIRECT ACCESS FLAG BYTE
	1...		UCBDAVV	X'80' DIRECT ACCESS VOLUME VERIFICATION IN CONTROL (DAVV)
	.1..		UCBWDAV	X'40' DAVV WAITING FOR MOUNT
	...1.		UCBRESVP	X'20' RESERVE CHANNEL PROGRAM PENDING
	...1		UCBDSS	X'10' READ HOME ADDRESS AND READ RECORD ZERO OPERATIONS HAVE BEEN PERFORMED BY DYNAMIC SUPPORT SYSTEM (DSS)
	.... 1...		UCBATTN	X'08' 3330V ATTENTION RECEIVED
	.... .1..		UCBHOLD	X'04' 3330V CYLINDER FAULT PENDING
	.... ..1.		UCBMAT	X'02' 3330V ATTENTION OVERDUE
	.... ....1		UCBFL47	X'01',,C'X' RESERVED
38	(26) SIGNED	1	UCBUSER	NUMBER OF CURRENT USERS
39	(27) HEX	1	UCBRES1A	RESERVED
40	(28) A-ADDRESS	4	UCBBASE	ADDRESS OF BASE EXPOSURE UCB
44	(2C) A-ADDRESS	4	UCBNEXP	BASE ADDRESS OF LAST STARTED EXPOSURE NON-BASE ADDRESS OF NEXT EXPOSURE IN THE RING THIS ADDRESS POINTS TO THE MULTIPROCESSING

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
PREFIX				
=====				
MAGNETIC TAPE SEGMENT				
=====				
UCBVOLI, UCBSTAB AND UCBDMCT ARE SAME IN TAPE SEGMENT AS IN DIRECT ACCESS SEGMENT				

24	(18) SIGNED	2	UCBFSC	DATA SET SEQUENCE COUNT
26	(1A) SIGNED	2	UCBFSEQ	DATA SET SEQUENCE NUMBER

28	(1C) CHARACTER	8		UCBVOLI, UCBSTAB AND UCBDMCT AS IN DIRECT ACCESS SEGMENT

36	(24) CHARACTER	6	UCBFSE	BEFORE OPEN, MESSAGE ID'S. SEE UCBSTAB BIT 7. AFTER OPEN, DATA SET SERIAL NUMBER
42	(2A) HEX	1	UCBRES1B	RESERVED
43	(2B) BITSTRING	1	UCBTFL1	FLAG BYTE (TAPE DEVICES ONLY)
	1... ..		UCBNLTP	X'80' TAPE VOLUME DOES NOT CONTAIN LABELS
	.1..		UCBNSLTP	X'40' TAPE CONTAINS NON-STANDARD LABELS
	..1.		UCBDQDSP	X'20' DEQUEUE TAPE VOLUME WHEN DEMOUNTED
	...1		UCBRV005	X'10',,C'X' RESERVED
	.... 1...		UCBRV006	X'08',,C'X' RESERVED
	.... .1..		UCBRV007	X'04',,C'X' RESERVED
	.... ..1.		UCBRV008	X'02',,C'X' RESERVED
	.... ...1		UCBRV009	X'01',,C'X' RESERVED

44	(2C) A-ADDRESS	4	UCBXTN	ADDRESS OF THE MAGNETIC TAPE UCB EXTENSION

44	(2C) BITSTRING	1	UCBVOPT	VOLUME STATISTICS OPTION BITS

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
1... ..	....		UCBESV	X'80' ERROR STATISTICS BY VOLUME (ESV) RECORDS KEPT
.1..			UCBEVA	X'40' ERROR VOLUME ANALYSIS (EVA) RECORDS KEPT
..1.			UCBESVC	X'20' IF 0, ESV RECORDS SENT TO SYS1.MAN (X OR Y) DATA SET. IF 1, ESV RECORDS SENT TO CONSOLE.
...1			UCBERPC	X'10' AN ERROR RECOVERY PROCEDURE HAS CONTROL
.... 1...			UCBESVE	X'08' AN ESV RECORD HAS BEEN ISSUED FOR THIS VOLUME BECAUSE OF AN EOVS CONDITION
.... .1..			UCBRSV20	X'04',,C'X' RESERVED
.... .1.			UCBRSV21	X'02',,C'X' RESERVED
....1			UCBRSV22	X'01',,C'X' RESERVED
45	(2D) A-ADDRESS	3	UCBXTNB	ADDRESS OF THE MAGNETIC TAPE UCB EXTENSION

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UNIT RECORD WITH
UNIVERSAL CHARACTER SET (1403, 3211)
OR OPTICAL CHARACTER READER (3886)
OR 3540 DEVICE
OR 3800 DEVICE
UCB SEGMENT

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24	(18) A-ADDRESS	4	UCBXTADR	ADDRESS OF UCS UCB EXTENSION (1403 OR 3211) OR ADDRESS OF OPTICAL CHARACTER READER UCB EXTENSION (3886) OR ADDRESS OF 3540 DEVICE UCB EXTENSION (3540) OR ADDRESS OF
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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
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3800 UCB
EXTENSION
(3800)

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GRAPHICS EXCEPT 3270
UCB SEGMENT

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24	(18) SIGNED	2	UCBSTART	LAST START ADDRESS
26	(1A) SIGNED	1	UCBOPEN	NUMBER OF DCB'S THAT ARE CURRENTLY OPEN FOR THIS DEVICE
27	(1B) CHARACTER	1	UCBGCB	GRAPHIC CONTROL BYTE USED FOR ATTENTION HANDLING

28	(1C) A-ADDRESS	4	UCBTB	ADDRESS OF TASK ENTRY (TE) BLOCK
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32	(20) HEX	4	UCBSNS	SENSE INFORMATION
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36	(24) A-ADDRESS	4	UCBBTA	ADDRESS OF BUFFER TABLE
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36	(24) SIGNED	1	UCBDI	DEVICE OR DEVICES ON A CONTROL UNIT TO WHICH BUFFER SECTIONS ARE ASSIGNED
37	(25) A-ADDRESS	3	UCBBTB	ADDRESS OF BUFFER TABLE

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3270 GRAPHICS
UCB SEGMENT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
24	(18) BITSTRING	2	UCBAOF	ADDITIONAL OPTIONAL FEATURES. AN EXTENSION OF THE OPTIONAL FEATURES BYTE OF THE UCBTYP FIELD.
24	(18) BITSTRING	1	UCBAOF1	FIRST BYTE OF UCBAOF
	1...		UCBOFMCR	X'80',,C'X' MAGNETIC CARD READER ADAPTER FOR 3277 ONLY
	.1..		UCBOFSP	X'40' SELECTOR PEN FOR 3277 ONLY
	..1.		UCBOFNL	X'20' NUMERIC LOCK FOR 3277 ONLY
	...1		UCBRV64	X'10',,C'X' RESERVED
	.... 1...		UCBRV65	X'08',,C'X' RESERVED
	.... .1..		UCBRV66	X'04',,C'X' RESERVED
	.... ..1.		UCBRV67	X'02',,C'X' RESERVED
	.... ...1		UCBRV68	X'01',,C'X' RESERVED
25	(19) BITSTRING	1	UCBAOF2	SECOND BYTE OF UCBAOF
	1...		UCBRV69	X'80',,C'X' RESERVED
	.1..		UCBRV70	X'40',,C'X' RESERVED
	..1.		UCBRV71	X'20',,C'X' RESERVED
	...1		UCBRV72	X'10',,C'X' RESERVED
	.... 1...		UCBRV73	X'08',,C'X' RESERVED
	.... .1..		UCBRV74	X'04',,C'X' RESERVED
	.... ..1.		UCBRV75	X'02',,C'X' RESERVED
	.... ...1		UCBRV76	X'01',,C'X' RESERVED
26	(1A) SIGNED	1	UCBATNCT	ATTENTION COUNT. THE NUMBER OF ATTENTIONS NOT SERVICED IN THE LINE GROUP. PRESENT ONLY IF THE DEVICE INDEX FIELD IS 1.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
27	(1B) BITSTRING	1		OTHERWISE, THIS FIELD IS RESERVED. UCBGCB CONTROL BYTE. USED FOR ATTENTION HANDLING FLAGS
	1... ..		UCBOLTEP	X'80' OLTEP IN CONTROL OF THE DEVICE
	.1.. ..		UCBRSV77	X'40',,C'X' RESERVED
	..1.		UCBRSV78	X'20',,C'X' RESERVED
	...1		UCBRSV79	X'10',,C'X' RESERVED
	.... 1...		UCBRTIAC	X'08' READ TI ACTIVE
	.... .1..		UCBRIPND	X'04' READ INITIAL PENDING
	.... ..1.		UCBSKPFPG	X'02' SKIP FLAG
	.... ...1		UCBATRCD	X'01' ATTENTION RECEIVED FROM THE DEVICE

28	(1C) A-ADDRESS	4	UCBIRB	ADDRESS OF THE IRB USED FOR SCHEDULING THE SECOND LEVEL ATTENTION ROUTINE

28	(1C) BITSTRING	1	UCBGRAF	GRAPHICS STATUS FLAGS (BTAM)
	1... ..		UCBOIP	X'80' OPEN IS IN PROGRESS
	.1.. ..		UCBDRO	X'40' DEVICE READY IN OPEN
	..1.		UCBDRNO	X'20' DEVICE READY NOT IN OPEN
	...1		UCBBTAM	X'10' USE BTAM IGG019UP
	.... 1...		UCBUPM	X'08' USE PROVIDED MODULE
	.... .1..		UCBRPND	X'04' READY PROCESSING NOT DONE
	.... ..1.		UCBDWNR	X'02' DEVICE WENT NOT READY
	.... ...1		UCBRV039	X'01' RESERVED BTAM
29	(1D) A-ADDRESS	3	UCBIRBA	ADDRESS OF THE IRB USED FOR SCHEDULING THE SECOND LEVEL ATTENTION ROUTINE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
32	(20) A-ADDRESS	4	UCBLDNCA	ADDRESS OF 3270 WORK AREA ESTABLISHED BY VTAM
32	(20) A-ADDRESS	4	UCBRDYQ	ASYNCHRONOUS READY NOTIFICATION IRB ADDRESS (BTAM)
32	(20) SIGNED	1	UCBINRLN	SAME AS UCBIRLN
32	(20) SIGNED	1	UCBIRLN	INIIALIZED RLN. THE RELATIVE LINE NUMBER (RLN) OF THE IOB INITIALIZED FOR A READ INITIAL. IF 0, NO READ INITIAL IS OUTSTANDING. PRESENT ONLY IF THE DEVICE INDEX FIELD IS 1. OTHERWISE, THIS FIELD IS RESERVED.
33	(21) A-ADDRESS	3	UCBLDNCA	ADDRESS OF 3270 WORK AREA ESTABLISHED BY VTAM
33	(21) A-ADDRESS	3	UCBRDYQA	ASYNCHRONOUS READY NOTIFICATION IRB ADDRESS (BTAM)
36	(24) A-ADDRESS	4	UCBCTLNK	SAME AS UCBCTLNA BELOW
36	(24) SIGNED	1	UCBRLN	DEVICE INDEX. INDEX TO THE DEB UCB ADDRESS FIELD FOR THIS DEVICE. THIS VALUE IS ALSO THE RELATIVE LINE NUMBER.
37	(25) A-ADDRESS	3	UCBCTLNA	CONTROL BLOCK LINK. IF THE DEVICE INDEX FIELD IS 1, THIS FIELD CONTAINS THE ADDRESS OF THE DEB FOR THE LINE GROUP. IF THE DEVICE INDEX FIELD IS

UCB

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
				BETWEEN 2 AND 255 INCLUSIVE, THIS FIELD CONTAINS THE ADDRESS OF THE UCB WITH A DEVICE INDEX OF 1.

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3704, 3705 TELEPROCESSING DEVICE
UCB SEGMENT

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24	(18) A-ADDRESS	4	UCBRV040	RESERVED FOR USE AS TELEPROCESSING EXTENSION POINTER
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28	(1C) A-ADDRESS	4	UCBICNCB	POINTER TO VTAM'S ICNCB
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CHANNEL-TO-CHANNEL (CTC) DEVICE
UCB SEGMENT

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24	(18) A-ADDRESS	4	UCBCTCAD	ADDRESS OF AN SRB/IOSB TO BE USED FOR SENSE COMMAND BYTE BY ICTCATN IF UCBCTC80 BIT IS SET TO ZERO
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24	(18) A-ADDRESS	4	UCBCTCAL	ADDRESS OF JES3 ROUTINE FOR SWITCHING TO ALTERNATE PATH CTC IF UCBCTC80 BIT IS SET TO ONE
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28	(1C) BITSTRING	1	UCBCTCF1	CHANNEL-TO-CHANNEL (CTC) DEVICE FLAG BYTE X'80' IF THIS BIT IS ON, ABOVE WORD HAS UCBCTCAL MEANING. IF THIS BIT IS OFF, ABOVE WORD HAS UCBCTCAD MEANING.
	1... ..		UCBCTC80	

UCB

UCB

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
.1..			UCBRV076	X'40',,C'X' RESERVED
..1.			UCBRV077	X'20',,C'X' RESERVED
...1			UCBRV078	X'10',,C'X' RESERVED
.... 1..			UCBRV079	X'08',,C'X' RESERVED
.... .1..			UCBRV080	X'04',,C'X' RESERVED
.... ..1.			UCBRV081	X'02',,C'X' RESERVED
.... ...1			UCBRV082	X'01',,C'X' RESERVED
29	(10) HEX	3	UCBRV042	RESERVED

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3851 OR 3838 DEVICE
UCB SEGMENT

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24	(18) A-ADDRESS	4	UCBIOSBA	ADDRESS OF IOSB. SET BY IOS FOR ERROR CONDITIONS.
28	(1C) A-ADDRESS	4	UCBRV066	RESERVED

UNIT CONTROL BLOCK EXTENSIONS

COMMON UCB EXTENSION

THIS EXTENSION IS POINTED TO BY THE UCBEPTPT FIELD IN THE
COMMON SEGMENT AND IS NOT CONTIGUOUS TO THE UCB.

0	(0) STRUCTURE	0	UCBCMEXT	,
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0	(0) SIGNED	1	UCBETI	A BINARY NUMBER USED BY THE EXIT EFFECTOR ROUTINE TO COMPLETE THE 8-BYTE NAME OF AN IBM-SUPPLIED ERROR ROUTINE FOR THIS DEVICE
1	(1) SIGNED	1	UCBSTI	INCREMENT WHICH, WHEN MULTIPLIED BY 10, BECOMES AN INDEX TO THE STATISTICS TABLE (STATAB)
2	(2) SIGNED	1	UCBDTI	INDEX TO THE DEVICE TABLE

UCB

UCB
Data Area Descriptions 475

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
3	(3) SIGNED	1	UCBATI	INDEX TO THE ATTENTION TABLE (ANTAB) OR OPTIONAL JOB ENTRY SUBSYSTEM (JES) FLAG BYTE
1... ..			UCBRV04	X'80',,C'X' RESERVED
.1.. ..			UCBRV05	X'40',,C'X' RESERVED
..1.			UCBRV06	X'20',,C'X' RESERVED
...1			UCBRV07	X'10',,C'X' RESERVED
.... 1...			UCBRV08	X'08',,C'X' RESERVED
.... .1..			UCBRV09	X'04',,C'X' RESERVED
.... ..1.			UCBHALI	X'02' OPTIONAL JOB ENTRY SUBSYSTEM (JES) ALLOCATION INDICATOR
....1			UCBHPDV	X'01' OPTIONAL JOB ENTRY SUBSYSTEM (JES) PSEUDO-DEVICE

4	(4) SIGNED	1	UCBSNSCT	COUNT OF SENSE BYTES PRESENTED BY THIS DEVICE
5	(5) BITSTRING	1	UCBFLP1	FLAG BYTE
1... ..			UCBNSRCH	X'80' THE CURRENTLY ALLOCATED VOLUME WAS SPECIFICALLY REQUESTED BY VOLUME SERIAL NUMBER. IT IS NOT AVAILABLE FOR ASSIGNMENT BY OPEN/EOV FOR A NON-SPECIFIC VOLUME REQUEST.
.1.. ..			UCBSHRUP	X'40' SHAREABLE WHEN IN UNIPROCESSOR MODE
..1.			UCBNSWAP	X'20' IF THIS BIT IS ON AND UCBPRES BIT IS ON, THIS FIXED HEAD DEVICE CANNOT BE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
....1			UCBINHIO	SWAPPED X'10' INHIBIT HIO FROM SVC 33
.... 1...			UCBRV033	X'08',,C'X' RESERVED
.... .1..			UCBERLOG	X'04' INDICATES PRESENCE OF AN ERROR LOG IN A DEVICE
.... ..1.			UCBRV035	X'02',,C'X' RESERVED
.... ...1			UCBRV036	X'01',,C'X' RESERVED
6	(6) CHARACTER	2	UCBRV041	RESERVED

8	(8) SIGNED	2	UCBCCWOF	OFFSET TO CCW PREFIX
10	(A) BITSTRING	2	UCBPMSK	PATH MASK FOR MESSAGES ISSUED

12	(C) SIGNED	2	UCBMFCNT	MEASUREMENT FACILITIES TOTAL DEVICE SIO COUNT. DURING NIP UCB INITIALIZATION, USED FOR PREVIOUSLY TESTED INDICATOR.
14	(E) SIGNED	2	UCBASID	ASID OF THE MEMORY TO WHICH THIS DEVICE IS ALLOCATED EXCEPT FOR UNALLOCATED TAPE. FOR UNALLOCATED TAPE, ASID OF THE LAST MEMORY TO WHICH THIS DEVICE WAS ALLOCATED.

16	(10) SIGNED	1	UCBMIHTI	MISSING INTERRUPT HANDLER EXIT TABLE INDEX
	.... ..1		UCBMSSTI	X'01' INDEX FOR MSS
17	(11) CHARACTER	3	UCBWTOID	WTO MESSAGE IDENTIFIER

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
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MAGNETIC TAPE
UCB EXTENSION

THIS EXTENSION IS POINTED TO BY THE UCBXTN FIELD OF THE
UCB AND IS NOT CONTIGUOUS TO THE UCB.

0	(0)	STRUCTURE	0	UCBMT	, UCBXTN > UCBMT
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0	(0)	SIGNED	2	UCBCTD	SERIAL NUMBER IN BINARY OF TAPE DRIVE UPON WHICH THE VOLUME WAS CREATED
2	(2)	SIGNED	1	UCBTRT	TEMPORARY READ ERROR THRESHOLD (IF 0, EVA IS NOT IN EFFECT). A BINARY NUMBER FROM 1 THROUGH 255 AS SELECTED AT SYSGEN TIME ON THE SCHEDULR MACRO BY EVA=(N1,N2) WHERE N1 = TEMPORARY READ ERROR THRESHOLD.
3	(3)	SIGNED	1	UCBTWT	TEMPORARY WRITE ERROR THRESHOLD (IF 0, EVA IS NOT IN EFFECT). A BINARY NUMBER FROM 1 THROUGH 255 AS SELECTED AT SYSGEN TIME ON THE SCHEDULR MACRO BY EVA=(N1,N2) WHERE N2 = TEMPORARY WRITE ERROR THRESHOLD.
4	(4)	SIGNED	1	UCBTR	THE NUMBER (BINARY) OF TEMPORARY READ ERRORS THAT HAVE OCCURRED
5	(5)	SIGNED	1	UCBTW	THE NUMBER (BINARY) OF TEMPORARY WRITE ERRORS

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
6	(6) SIGNED	2	UCBSIO	THAT HAVE OCCURRED THE NUMBER (BINARY) OF START I/O OPERATIONS THAT HAVE OCCURRED

8	(8) SIGNED	1	UCBPR	THE NUMBER (BINARY) OF PERMANENT READ ERRORS THAT HAVE OCCURRED
9	(9) SIGNED	1	UCBPW	THE NUMBER (BINARY) OF PERMANENT WRITE ERRORS THAT HAVE OCCURRED
10	(A) SIGNED	1	UCBNB	THE NUMBER (BINARY) OF NOISE BLOCKS THAT HAVE BEEN ENCOUNTERED
11	(B) CHARACTER	1	UCBMS	MODE SET OPERATION CODE FOR DATA BLOCKS ON A 3420 MAGNETIC TAPE UNIT

12	(C) SIGNED	2	UCBERG	THE NUMBER (BINARY) OF ERASE GAPS THAT HAVE BEEN ENCOUNTERED
14	(E) SIGNED	2	UCBCLN	THE NUMBER (BINARY) OF CLEANER ACTIONS THAT HAVE OCCURRED
=====				

OPTICAL CHARACTER READER (3886)
 UCB EXTENSION
 THIS EXTENSION IS POINTED TO BY THE UCBXTADR FIELD OF THE UCB AND IS NOT CONTIGUOUS TO THE UCB.

0	(0) STRUCTURE	0	UCBOCR	, UCBXTADR > UCBOCR
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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) CHARACTER	4	UCBFRID	CURRENT FORMAT RECORD ID (FRID) LOADED
4	(4) HEX	4	UCBRDATA	COMMAND DATA

3540 DEVICE
UCB EXTENSION
THIS EXTENSION IS POINTED TO BY THE UCBXTADR FIELD OF THE
UCB AND IS NOT CONTIGUOUS TO THE UCB.

0	(0) STRUCTURE	0	UCB3540X	, UCBXTADR > UCB3540X
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0	(0) CHARACTER	6	UCBVLSE	3540 VALID
6	(6) BITSTRING	1	UCBDKBYT	FLAG BYTE
1... ..			UCBDKAMX	X'80'
				IBM-SUPPLIED DISKETTE READER, DISKETTE WRITER OR COPY/RESTORE UTILITIES ARE USING THIS 3540 DEVICE
.1.. ..			UCBVLVER	X'40' VOLUME VERIFICATION IS REQUIRED FOR CERTAIN INTERVENTION REQUIRED CONDITIONS WHILE 3540 DISKETTE UTILITIES ARE USING THE DEVICE
..1.			UCBRV067	X'20',,C'X' RESERVED
...1			UCBRV068	X'10',,C'X' RESERVED
.... 1...			UCBRV069	X'08',,C'X' RESERVED
.... .1..			UCBRV070	X'04',,C'X' RESERVED
.... ..1.			UCBRV071	X'02',,C'X' RESERVED
.... ...1			UCBRV072	X'01',,C'X' RESERVED
7	(7) CHARACTER	1	UCBRV073	RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
3800 DEVICE				
UCB EXTENSION				
THIS EXTENSION IS POINTED TO BY THE UCBXTADR FIELD OF THE				
UCB AND IS NOT CONTIGUOUS TO THE UCB.				
0	(0) STRUCTURE	0	UCB3800X	, UCBXTADR > UCB3800X
=====				

0	(0) BITSTRING	1	UCBOPTNS	OPTIONAL FEATURES INSTALLED ON PRINTER
	1... ..		UCBRV051	X'80',,C'X' RESERVED
	.1.. ..		UCBRV052	X'40',,C'X' RESERVED
	..1.		UCBRV053	X'20',,C'X' RESERVED
	...1		UCBRV054	X'10',,C'X' RESERVED
	.... 1...		UCBRV055	X'08',,C'X' RESERVED
	.... .1..		UCBRV056	X'04',,C'X' RESERVED
	.... ..1.		UCBBRSTR	X'02' RESERVED
	.... ...1		UCBRV083	X'01',,C'X' RESERVED
1	(1) SIGNED	1	UCBCGMNO	NUMBER OF WRITEABLE CHARACTER GENERATION MODULES
2	(2) HEX	1	UCBRV050	RESERVED
3	(3) BITSTRING	1	UCBACTIV	ACTIVE FEATURES
	1... ..		UCBRV057	X'80',,C'X' RESERVED
	.1.. ..		UCBRV058	X'40',,C'X' RESERVED
	..1.		UCBRV059	X'20',,C'X' RESERVED
	...1		UCBRV060	X'10',,C'X' RESERVED
	.... 1...		UCBRV061	X'08',,C'X' RESERVED
	.... .1..		UCBRV062	X'04',,C'X' RESERVED
	.... ..1.		UCBRV063	X'02',,C'X' RESERVED
	.... ...1		UCBBRSTA	X'01' RESERVED

4	(4) CHARACTER	4	UCBCGMID	FOUR ONE-BYTE ID'S FOR CHARACTER MODULES LOADED IN WRITEABLE CHARACTER GENERATION

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>

8	(8) CHARACTER	4	UCBCHAR1	MODULES (WCGM'S) NAME OF FIRST TRANSLATE TABLE
12	(C) CHARACTER	4	UCBCHAR2	NAME OF SECOND TRANSLATE TABLE
16	(10) CHARACTER	4	UCBCHAR3	NAME OF THIRD TRANSLATE TABLE
20	(14) CHARACTER	4	UCBCHAR4	NAME OF FOURTH TRANSLATE TABLE
24	(18) CHARACTER	4	UCBFBNM	FORMS CONTROL BUFFER (FCB) IMAGE NAME
28	(1C) CHARACTER	4	UCBIMAGE	FORMS OVERLAY IMAGE IDENTIFICATION
32	(20) A-ADDRESS	4	UCBRV074	RESERVED
36	(24) A-ADDRESS	4	UCBMDBF	MISCELLANEOUS DATA RECORDING (MDR) BUFFER ADDRESS
36	(24) SIGNED	1	UCBRV075	RESERVED
37	(25) A-ADDRESS	3	UCBMDRBA	MDR BUFFER ADDRESS
=====				
UNIT RECORD WITH UNIVERSAL CHARACTER SET (1403, 3211) UCB EXTENSION THIS EXTENSION IS POINTED TO BY THE UCBXTADR FIELD OF THE UCB AND IS NOT CONTIGUOUS TO THE UCB.				
0	(0) STRUCTURE	0	UCBUCS	, UCBXTADR > UCBUCS
=====				
0	(0) CHARACTER	4	UCBUCSID	UCS IMAGE IDENTIFICATION IN BUFFER
4	(4) BITSTRING	1	UCBUCSOP	FORMAT OF UCS IMAGE IN BUFFER (0 FOR OPTION)
	1... ..		UCBUCS01	X'80' UCS IMAGE IS A DEFAULT IMAGE

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.1..			UCBUCS02	X'40' UCS IMAGE IS IN FOLD MODE
..1.			UCBRVS39	X'20',,C'X' RESERVED
...1			UCBRVS40	X'10',,C'X' RESERVED
.... 1...			UCBRVS41	X'08',,C'X' RESERVED
.... .1..			UCBRVS42	X'04',,C'X' RESERVED
.... ..1.			UCBRVS43	X'02',,C'X' RESERVED
.... ...1			UCBUCSPE	X'01' UCS IMAGE HAS PARITY ERROR (3211)
5	(5) BITSTRING	1	UCBFCBOP	RESERVED (1403) CR FCB OPTIONS (3211) (0 FOR OPTION)
1...			UCBFCB01	X'80' FCB IMAGE IS A DEFAULT IMAGE
.1..			UCBRVS44	X'40',,C'X' RESERVED
..1.			UCBRVS45	X'20',,C'X' RESERVED
...1			UCBRVS46	X'10',,C'X' RESERVED
.... 1...			UCBRVS47	X'08',,C'X' RESERVED
.... .1..			UCBRVS48	X'04',,C'X' RESERVED
.... ..1.			UCBRVS49	X'02',,C'X' RESERVED
.... ...1			UCBFCBPE	X'01' FCB IMAGE HAS PARITY ERROR
6	(6) HEX	1	UCBRVS51	RESERVED
7	(7) SIGNED	1	UCBERCNT	CONTAINS A COUNT OF THE ERRORS THAT HAVE OCCURRED. THE COUNT, WHICH MAY WRAP AROUND, IS WRITTEN IN STANDARD OBR RECORDS (ONE PER ERROR) AND IN NEW DEVICE-DEPENDEN T OBR RECORDS (0 TO 3 PER ERROR) AND SERVE TO RELATE TO EACH OTHER THE STANDARD AND DEVICE-DEPENDEN T OBR RECORDS THAT PERTAIN

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				TO EACH ERROR (3211)
8	(8) CHARACTER	4	UCBFCBID	THE FCB IMAGE IDENTIFICATION
12	(C) A-ADDRESS	4	UCBERADR	THE ADDRESS OF THE ERP LOGOUT AREA
0	(0) BAL STMT	0		

CROSS REFERENCE

UCBACTIV	3 (3)	UCBDMCT	35 (23)
UCBACTV	8 X'02'	UCBDQDSP	43 X'20'
UCBAF	1 X'40'	UCBDRNO	28 X'20'
UCBALOC	3 X'03'	UCBDRO	28 X'40'
UCBALTCU	1 X'02'	UCBDSM	19 X'42'
UCBALTPH	1 X'01'	UCBDSS	37 X'10'
UCBANV	1 X'40'	UCBDTI	2 (2)
UCBAOF	24 (18)	UCBDUC	0 X'20'
UCBAOF1	24 (18)	UCBDUDN1	17 X'20'
UCBAOF2	25 (19)	UCBDUDN2	17 X'10'
UCBASID	14 (E)	UCBDVCLS	18 (12)
UCBASNS	7 X'40'	UCBDVPHR	17 X'01'
UCBATI	3 (3)	UCBDVSHR	34 X'80'
UCBATNCT	26 (1A)	UCBDVHR	28 X'02'
UCBATRCD	27 X'01'	UCBD1600	16 X'04'
UCBATTN	37 X'08'	UCBD6250	16 X'02'
UCBATTP	20 X'80'	UCBHVDR	1 X'03'
UCBBALB	34 X'20'	UCBERADR	12 (C)
UCBBASE	40 (28)	UCBERCNT	7 (7)
UCBBNUL	34 X'01'	UCBERG	12 (C)
UCBBPRV	34 X'10'	UCBERLOG	5 X'04'
UCBBPUB	34 X'08'	UCBERFC	44 X'10'
UCBBRSTA	3 X'01'	UCBESV	44 X'80'
UCBBRSTR	0 X'02'	UCBESVC	44 X'20'
UCBSSTR	34 X'04'	UCBESVE	44 X'08'
UCBBSVL	34 X'80'	UCBETI	0 (0)
UCBBSY	6 X'80'	UCBEVA	44 X'40'
UCBBTA	36 (24)	UCBEXTP	21 (15)
UCBBTAM	28 X'10'	UCBEXTPT	20 (14)
UCBBTB	37 (25)	UCBFCBID	8 (8)
UCBCCHOF	8 (8)	UCBFCBNM	24 (18)
UCBCGHID	4 (4)	UCBFCBOP	5 (5)
UCBCGHNO	1 (1)	UCBFCBO1	5 X'80'
UCBCHA	4 (4)	UCBFCBPE	5 X'01'
UCBCHAN	4 (4)	UCBFLA	6 (6)
UCBCHAR1	8 (8)	UCBFLB	7 (7)
UCBCHAR2	12 (C)	UCBFLC	20 (14)
UCBCHAR3	16 (10)	UCBFLP1	5 (5)
UCBCHAR4	20 (14)	UCBFL4	37 (25)
UCBCHGS	3 X'40'	UCBFL47	37 X'01'
UCBCHM	8 (8)	UCBFL5	1 (1)
UCBCHM1	8 (8)	UCBFRID	0 (0)
UCBCLN	14 (E)	UCBFSC	24 (18)
UCBCEXT	0 (0)	UCBFSEQ	26 (1A)
UCBCNT	9 (9)	UCBFSER	36 (24)
UCBCPU	11 (8)	UCBGCB	27 (1B)
UCBCRHRV	7 X'08'	UCBGRAF	28 (1C)
UCBCRHSN	7 X'04'	UCBHALI	3 X'02'
UCBCTCAD	24 (18)	UCBHOLD	37 X'04'
UCBCTCAL	24 (18)	UCBHPDV	3 X'01'
UCBCTCF1	28 (1C)	UCBICNCB	28 (1C)
UCBCTC80	28 X'80'	UCBID	2 (2)
UCBCTD	0 (0)	UCBIMAGE	28 (1C)
UCBCTLNA	37 (25)	UCBIN	12 X'80'
UCBCTLNK	36 (24)	UCBINHIO	5 X'10'
UCBCUB	32 X'08'	UCBINRLN	32 (20)
UCBDADI	3 X'01'	UCBIORST	7 X'80'
UCBDAYV	37 X'80'	UCBIOSBA	24 (18)
UCBDCC	1 X'80'	UCBIRB	28 (1C)
UCEDDRSW	20 X'01'	UCBIRBA	29 (1D)
UCBDI	36 (24)	UCBIRLN	32 (20)
UCBDKAMX	6 X'80'	UCBITF	20 X'10'
UCBDKBYT	6 (6)	UCBIVRR	20 X'04'
UCBDMC	35 X'7F'	UCBIVRS	20 X'08'

CROSS REFERENCE

UCBJBNR	0 (0)	UCBRPS	17 X'10'
UCBJES3	0 X'40'	UCBRR	17 X'20'
UCBLCI	10 (A)	UCBRV04	3 X'80'
UCBLDNCA	32 (20)	UCBRV05	3 X'40'
UCBLDNCB	33 (21)	UCBRV06	3 X'20'
UCBMAT	37 X'02'	UCBRV07	3 X'10'
UCBMDRBA	37 (25)	UCBRV08	3 X'08'
UCBMDRBF	36 (24)	UCBRV09	3 X'04'
UCBMFCNT	12 (C)	UCBRV10	18 X'02'
UCBMIHTI	16 (10)	UCBRV11	18 X'01'
UCBMMSGP	0 X'04'	UCBRV20	44 X'04'
UCBMONT	0 X'01'	UCBRV21	44 X'02'
UCBMOUNT	35 X'80'	UCBRV22	44 X'01'
UCBMS	11 (B)	UCBRV39	4 X'20'
UCBMSSTI	16 X'01'	UCBRV40	4 X'10'
UCBMT	0 (0)	UCBRV41	4 X'08'
UCBMTPXP	12 X'08'	UCBRV42	4 X'04'
UCBNALOC	1 X'04'	UCBRV43	4 X'02'
UCBNAME	13 (D)	UCBRV44	5 X'40'
UCBNB	10 (A)	UCBRV45	5 X'20'
UCBNEXP	44 (2C)	UCBRV46	5 X'10'
UCBNLTP	43 X'80'	UCBRV47	5 X'08'
UCBNRY	128 X'40'	UCBRV48	5 X'04'
UCBNSLTP	43 X'40'	UCBRV49	5 X'02'
UCBNSRCH	5 X'80'	UCBRV51	6 (6)
UCBNSHAP	5 X'20'	UCBRV64	24 X'10'
UCBOB	0 (0)	UCBRV65	24 X'08'
UCBOCR	0 (0)	UCBRV66	24 X'04'
UCBOFMCR	24 X'80'	UCBRV67	24 X'02'
UCBOFNL	24 X'20'	UCBRV68	24 X'01'
UCBOFSP	24 X'40'	UCBRV69	25 X'80'
UCBOIP	28 X'80'	UCBRV70	25 X'40'
UCBOLDSM	0 X'08'	UCBRV71	25 X'20'
UCBOLTEP	27 X'80'	UCBRV72	25 X'10'
UCBONLI	3 X'80'	UCBRV73	25 X'08'
UCBOPEN	26 (1A)	UCBRV74	25 X'04'
UCBOPDNS	0 (0)	UCBRV75	25 X'02'
UCBOUT	12 X'40'	UCBRV76	25 X'01'
UCBPGFL	34 X'40'	UCBRV77	27 X'40'
UCBPMSK	10 (A)	UCBRV78	27 X'20'
UCBPPA	8 X'80'	UCBRV79	27 X'10'
UCBPPB	8 X'20'	UCBRTIAC	27 X'08'
UCBPR	8 (8)	UCBRVDEV	17 X'08'
UCBPRES	3 X'04'	UCBRV003	0 X'10'
UCBPRSRS	34 X'20'	UCBRV005	43 X'10'
UCBPSNS	32 X'10'	UCBRV006	43 X'08'
UCBPST	64 X'20'	UCBRV007	43 X'04'
UCBPTH0	8 X'C0'	UCBRV008	43 X'02'
UCBPTH1	8 X'30'	UCBRV009	43 X'01'
UCBPUB	12 X'20'	UCBRV011	0 X'02'
UCBPW	9 (9)	UCBRV014	8 X'08'
UCBQISCE	8 X'01'	UCBRV015	8 X'04'
UCERDATA	4 (4)	UCBRV016	8 X'02'
UCBRDYQ	32 (20)	UCBRV017	8 X'01'
UCBRDYQA	33 (21)	UCBRV029	12 X'01'
UCBRESV	3 X'20'	UCBRV033	5 X'08'
UCBRESVH	7 X'10'	UCBRV035	5 X'02'
UCBRESVP	37 X'20'	UCBRV036	5 X'01'
UCBRES1A	39 (27)	UCBRV039	28 X'01'
UCBRES1B	42 (2A)	UCBRV040	24 (18)
UCBREH	12 X'10'	UCBRV041	6 (6)
UCBRIPND	27 X'04'	UCBRV042	29 (1D)
UCBRLN	36 (24)	UCBRV050	2 (2)
UCBRPND	28 X'04'	UCBRV051	0 X'80'

CROSS REFERENCE

UCBRV052	0 X'40'	UCBUCS	0 (0)
UCBRV053	0 X'20'	UCBUCSID	0 (0)
UCBRV054	0 X'10'	UCBUCSOP	4 (4)
UCBRV055	0 X'08'	UCBUCSO1	4 X'80'
UCBRV056	0 X'04'	UCBUCSO2	4 X'40'
UCBRV057	3 X'80'	UCBUCSPE	4 X'01'
UCBRV058	3 X'40'	UCBUDE	20 X'20'
UCBRV059	3 X'20'	UCBUNLD	3 X'10'
UCBRV060	3 X'10'	UCBUNTYP	19 (13)
UCBRV061	3 X'08'	UCBUPM	28 X'08'
UCBRV062	3 X'04'	UCBUSER	38 (26)
UCBRV063	3 X'02'	UCBVALPH	7 X'02'
UCBRV066	28 (1C)	UCBVHRSN	12 X'02'
UCBRV067	6 X'20'	UCBVLPHR	17 X'02'
UCBRV068	6 X'10'	UCBVLSEK	0 (0)
UCBRV069	6 X'08'	UCBVLVER	6 X'40'
UCBRV070	6 X'04'	UCBVOLI	28 (1C)
UCBRV071	6 X'02'	UCBVOPT	44 (2C)
UCBRV072	6 X'01'	UCBVORSN	12 X'04'
UCBRV073	7 (7)	UCBVRDEV	0 X'80'
UCBRV074	32 (20)	UCBVSDR	1 X'10'
UCBRV075	36 (24)	UCBVTOC	24 (18)
UCBRV076	28 X'40'	UCBHAA	20 X'40'
UCBRV077	28 X'20'	UCBWDAY	37 X'40'
UCBRV078	28 X'10'	UCBWGT	12 (C)
UCBRV079	28 X'08'	UCBHOTOID	17 (11)
UCBRV080	28 X'04'	UCBXTADR	24 (18)
UCBRV081	28 X'02'	UCBXTN	44 (2C)
UCBRV082	28 X'01'	UCBXTNB	45 (2D)
UCBRV083	0 X'01'	UCB1FEA0	16 X'80'
UCBRWTAU	17 X'08'	UCB1FEA1	16 X'40'
UCBSAP	8 X'04'	UCB1FEA2	16 X'20'
UCBSASK	1 X'20'	UCB1FEA3	16 X'10'
UCBSFLS	6 (6)	UCB1FEA4	16 X'08'
UCBSHAR	34 X'02'	UCB1FEA5	16 X'04'
UCBSHRUP	5 X'40'	UCB1FEA6	16 X'02'
UCBSIGP	7 X'01'	UCB1FEA7	16 X'01'
UCBSIO	6 (6)	UCB2OPT0	17 X'80'
UCBSKPFPG	27 X'02'	UCB2OPT1	17 X'40'
UCBSNS	32 (20)	UCB2OPT2	17 X'20'
UCBSNSCT	4 (4)	UCB2OPT3	17 X'10'
UCBSPA	8 X'40'	UCB2OPT4	17 X'08'
UCBSPB	8 X'10'	UCB2OPT5	17 X'04'
UCBSPST	7 X'20'	UCB2OPT6	17 X'02'
UCBSQC	36 (24)	UCB2OPT7	17 X'01'
UCBSTAB	34 (22)	UCB2400	19 X'01'
UCBSTART	24 (18)	UCB3CHAR	18 X'04'
UCBSTAT	3 (3)	UCB3COMM	18 X'40'
UCBSTI	1 (1)	UCB3CTC	18 X'41'
UCBSTND	2 X'FF'	UCB3DACC	18 X'20'
UCBSYSR	3 X'02'	UCB3DISP	18 X'10'
UCBTBYT1	16 (10)	UCB3TAPE	18 X'80'
UCBTBYT2	17 (11)	UCB3UREC	18 X'08'
UCBTBYT3	18 (12)	UCB3036	19 X'00'
UCBTBYT4	19 (13)	UCB3211	19 X'09'
UCBTBEB	28 (1C)	UCB3400	19 X'03'
UCBTFL1	43 (2B)	UCB3540X	0 (0)
UCBTICBT	20 X'02'	UCB3791L	19 X'F1'
UCBTR	4 (4)	UCB3800	19 X'0E'
UCBTRT	2 (2)	UCB3800X	0 (0)
UCBTW	5 (5)	UCB3838	19 X'4C'
UCBTWT	3 (3)	UCB3895	19 X'19'
UCBTYP	16 (10)	UCB42AD1	19 X'11'
UCBUA	5 (5)	UCB7443	19 X'3D'

UCBTYPCommon Name: Unit Control Block Type BytesMacro ID: UCBTYPESDSECT Name: NoneCreated by: SYSGENSubpool and Key: Nucleus and Key 0Size: VariablePointed to by: NoneSerialization: None

Function: The UCB describes the characteristics of a device to the I/O supervisor and is used by the job scheduler during allocation of the device. There is a UCB for each device attached to the system.

*. NOTE - This is a mapping of the UCBTYP field of the UCB *. (UCB + X'10' through UCB + X'14'). The names defined are for mapping use only.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	UCBTYP	

=====

UCBTYP FIELD

UNIT RECORD DEVICE CLASS

<u>16</u>	<u>(10) BITSTRING</u>	<u>1</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	1111		URIHEXF0	MODEL BITS X'F0' I/O SUPERVISOR FLAGS
	1...		URIHEX80	X'80' RESERVED BIT
	.1..		URIHEX40	X'40' OVERRUNNABLE DEVICE
	..1.		URIHEX20	X'20' IF ON BURST MODE, IF OFF BYTE MODE
	...1		URIHEX10	X'10' DATA CHAINING
	.... 1111		URIHEX0F	X'0F' MODEL CODE
	.... ....		URIHEX00	X'00' 1442, 2520 CARD READ PUNCH
1		URIHEX01	X'01' 1442, 2520 CARD PUNCH ONLY

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
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OPTIONAL FEATURES

17	(11) BITSTRING	1		OPTION FLAGS
1... ..			UR2HEX80	X'80' UNIVERSAL CHARACTER SET (UCS)
.1.. 111.			UR2HEX4E	X'4E' RESERVED BITS
..1.			UR2HEX20	X'20' 3525 TWO-LINE PRINT FEATURE
...1			UR2HEX10	X'10' 3525 MULTI-LINE PRINT FEATURE
.... ...1			UR2HEX01	X'01' CARD IMAGE (BINARY MODE)

DEVICE CLASS

18	(12) BITSTRING	1		CLASS BITS
.... 1...			UR3HEX08	X'08' UNIT RECORD

UNIT TYPE

19	(13) BITSTRING	1		DEVICE CODE
.... ...1			UR4HEX01	X'01' 2540 CARD READER
.... ...1.			UR4HEX02	X'02' 2540 CARD PUNCH
.... ...11			UR4HEX03	X'03' 1442 CARD READ PUNCH
.... .1..			UR4HEX04	X'04' 2501 CARD READER
.... .1.1			UR4HEX05	X'05' 2520 CARD READ PUNCH
.... .11.			UR4HEX06	X'06' 3505 CARD READER
.... 1...			UR4HEX08	X'08' 1403 PRINTER (MODELS N1, 2, 7) AND 1404 PRINTER (CONTINUOUS FORM SUPPORT ONLY)
.... 1..1			UR4HEX09	X'09' 3211 PRINTER
.... 1.1.			UR4HEX0A	X'0A' 1443 PRINTER (MODEL N1 ONLY)
.... 11..			UR4HEX0C	X'0C' 3525 CARD PUNCH

UCBTYP

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Data Area Descriptions 489

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
....	111.		UR4HEX0E	X'0E' 3800 PRINTING SUBSYSTEM
...1	....		UR4HEX10	X'10' 2671 PAPER TAPE READER
...1	.11.		UR4HEX16	X'16' 3890 DOCUMENT PROCESSOR
...1	.111		UR4HEX17	X'17' 3886 OPTICAL CHARACTER READER
...1	1...		UR4HEX18	X'18' 2495 TAPE CARTRIDGE READER
...1	1..1		UR4HEX19	X'19' 3895 DOCUMENT READER/INSCRIBE R
...1	1.11		UR4HEX1B	X'1B' 1287 OPTICAL READER
...1	11..		UR4HEX1C	X'1C' 1288 OPTICAL PAGE READER
...1	11.1		UR4HEX1D	X'1D' 1419 MAGNETIC CHARACTER READER (PRIMARY CONTROL UNIT)
...1	111.		UR4HEX1E	X'1E' 1419 MAGNETIC CHARACTER READER OR 1275 OPTICAL READER SORTER (SECONDARY CONTROL UNIT)
...1	1111		UR4HEX1F	X'1F' 1275 OPTICAL READER SORTER (PRIMARY CONTROL UNIT)
..1.	....		UR4HEX20	X'20' 1052 CONSOLE PRINTER-KEYBOAR D
..1.	..1.		UR4HEX22	X'22' 3210 CONSOLE PRINTER-KEYBOAR D
..1.	..11		UR4HEX23	X'23' 3215 CONSOLE PRINTER-KEYBOAR D
..11	....		UR4HEX30	X'30' 3213 PRINTER
..1..	..1.		UR4HEX42	X'42' 3851 MASS STORAGE FACILITY

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.1.. 11..			UR4HEX4C	X'4C' 3838 ARRAY PROCESSOR
=====				
MAGNETIC TAPE DEVICE CLASS				

16	(10) BITSTRING	1		MODEL BITS
	1111		MT1HEXF0	X'F0' I/O SUPERVISOR FLAGS
	1...		MT1HEX80	X'80' RESERVED BIT
	.1..		MT1HEX40	X'40' OVERRUNNABLE DEVICE
	..1.		MT1HEX20	X'20' IF ON BURST MODE, IF OFF BYTE MODE
	...1		MT1HEX10	X'10' DATA CHAINING
	.... 1111		MT1HEX0F	X'0F' MODEL CODE
	.... 1..1		MT1HEX09	X'09' RESERVED BITS
	.... .1..		MT1HEX04	X'04' 1600 BPI
	.... .1.1		MT1HEX02	X'02' 6250 BPI
=====				

OPTIONAL FEATURES

17	(11) BITSTRING	1		OPTION FLAGS
	1...		MT2HEX80	X'80' 7-TRACK COMPATIBILITY (800/1600 BPI)
	.1..		MT2HEX40	X'40' DATA CONVERSION (800/1600 BPI)
	..1.		MT2HEX20	X'20' DUAL DENSITY (800/1600 BPI)
	...1		MT2HEX10	X'10' DUAL DENSITY (6250/1600 BPI)
	.... 1...		MT2HEX08	X'08' READ/WRITE TAPE CONTROL
	.... .111		MT2HEX07	X'07' RESERVED BITS

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
=====				
DEVICE CLASS				
18	(12) BITSTRING 1... ..	1	MT3HEX80	CLASS BITS X'80' MAGNETIC TAPE
=====				
UNIT TYPE				
19	(13) BITSTRING.... ..1	1	MT4HEX01	DEVICE CODE X'01' 2400 SERIES MAGNETIC TAPE UNIT
	.... ..11		MT4HEX03	X'03' 3400 SERIES MAGNETIC TAPE UNIT
=====				
DIRECT ACCESS STORAGE DEVICE CLASS				

16	(10) BITSTRING 1111	1	DA1HEXF0	MODEL BITS X'F0' I/O SUPERVISOR FLAGS
	1... ..		DA1HEX80	X'80' RESERVED BIT
	.1... ..		DA1HEX40	X'40' OVERRUNNABLE DEVICE
	..1.		DA1HEX20	X'20' IF ON BURST MODE, IF OFF BYTE MODE
	...1		DA1HEX10	X'10' DATA CHAINING
	.... 1111		DA1HEX0F	X'0F' MODEL CODE
=====				
OPTIONAL FEATURES				
17	(11) BITSTRING .1... ..	1	DA2HEX40	OPTION FLAGS X'40' TRACK OVERFLOW
	..1.		DA2HEX20	X'20' THIS DEVICE CAN BE SHARED BY TWO OR MORE CPUS
	...1		DA2HEX10	X'10' ROTATIONAL POSITION SENSING DEVICE
	.... 1...		DA2HEX08	X'08' VIRTUAL DASD
	.... ..1.		DA2HEX02	X'02' VOLUME REQUIRES ALTERNATE POWER SOURCE DEVICE (PWF)

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
.... .1			DA2HEX01	X'01' DEVICE HAS ALTERNATE POWER SOURCE (PWF)
1... .1..			DA2HEX84	X'84' RESERVED BITS

=====

DEVICE CLASS

18	(12) BITSTRING ..1.	1	DA3HEX20	CLASS BITS X'20' DIRECT ACCESS STORAGE DEVICE
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=====

UNIT TYPE

19	(13) BITSTRING11.	1	DA4HEX06	DEVICE CODE X'06' 2305 FIXED HEAD STORAGE MODEL 1
	.... .111		DA4HEX07	X'07' 2305 FIXED HEAD STORAGE MODEL 2
	.... 1...		DA4HEX08	X'08' 2314/2319 DIRECT ACCESS STORAGE FACILITY
	.... 1..1		DA4HEX09	X'09' 3330 SERIES DISK STORAGE 3330 MODEL 1 OR 2 AND 3333 MODEL 1
	.... 1.1.		DA4HEX0A	X'0A' 3340 DISK STORAGE
	.... 1.11		DA4HEX0B	X'0B' 3350 DIRECT ACCESS STORAGE MODELS A2, B2, AND C2
 11.1		DA4HEX0D	X'0D' 3330 MODEL 11 OR 3333 MODEL 11 DISK STORAGE

=====

GRAPHIC DEVICES CLASS

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
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=====

2250 DISPLAY UNIT

16	(10) BITSTRING	1		MODEL BITS
1111		GA1HEXF0	X'F0' DEVICE CLASS
..11	....		GA1HEX30	X'30' 2250
....	1111		GA1HEX0F	X'0F' MODEL CODE
....	...1		GA1HEX01	X'01' MODEL 1
....	..1.		GA1HEX02	X'02' MODEL 2
....	..11		GA1HEX03	X'03' MODEL 3

=====

OPTIONAL FEATURES

17	(11) BITSTRING	1		OPTION FLAGS
....	....		GA2HEX00	X'00' MODEL 1,2,3 NO OPTIONAL FEATURES
...1	....		GA2HEX10	X'10' MODEL 1,2,3 PROGRAMMED FUNCTION KEYBOARD ONLY
..1.	....		GA2HEX20	X'20' MODEL 1,2 LIGHT PEN ONLY
..11	....		GA2HEX30	X'30' MODEL 1,2 PROGRAMMED FUNCTION KEYBOARD AND LIGHT PEN
.1..	....		GA2HEX40	X'40' MODEL 1,2,3 ALPHAMERIC KEYBOARD ONLY
.1.1	....		GA2HEX50	X'50' MODEL 1,2,3 PROGRAMMED FUNCTION KEYBOARD AND ALPHAMERIC KEYBOARD
.11.	....		GA2HEX60	X'60' MODEL 1,2 ALPHAMERIC KEYBOARD AND LIGHT PEN
.111	....		GA2HEX70	X'70' MODEL 1,2 ALPHAMERIC KEYBOARD, LIGHT PEN, AND PROGRAMMED FUNCTION KEYBOARD
1...	....		GA2HEX80	X'80' MODEL 1,2 ABSOLUTE VECTOR GRAPHICS ONLY

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
1..1			GA2HEX90	X'90' MODEL 1,2 ABSOLUTE VECTOR GRAPHICS AND PROGRAMMED FUNCTION KEYBOARD
1.1.			GA2HEXA0	X'A0' MODEL 1,2 ABSOLUTE VECTOR GRAPHICS AND LIGHT PEN
1.11			GA2HEXB0	X'B0' MODEL 1,2 ABSOLUTE VECTOR GRAPHICS, PROGRAMMED FUNCTION KEYBOARD, AND LIGHT PEN
11..			GA2HEXC0	X'C0' MODEL 1,2 ABSOLUTE VECTOR GRAPHICS AND ALPHAMERIC KEYBOARD
11.1			GA2HDX0	X'D0' MODEL 1,2 ABSOLUTE VECTOR GRAPHICS, PROGRAMMED FUNCTION KEYBOARD AND ALPHAMERIC KEYBOARD
111.			GA2HEXE0	X'E0' MODEL 1,2 ABSOLUTE VECTOR GRAPHICS, ALPHAMERIC KEYBOARD AND LIGHT PEN
1111			GA2HEXF0	X'F0' MODEL 1,2 ABSOLUTE VECTOR GRAPHICS, ALPHAMERIC KEYBOARD, LIGHT PEN, AND PROGRAMMED FUNCTION KEYBOARD
.... ...1			GA2HEX01	X'01' MODEL 1 4K BUFFER ONLY
.... ...1.			GA2HEX02	X'02' MODEL 1 8K BUFFER ONLY
.... ...11			GA2HEX03	X'03' MODEL 1 CHARACTER GENERATOR ONLY
.... ...1..			GA2HEX04	X'04' MODEL 1 4K BUFFER AND CHARACTER GENERATOR

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... .1.1			GA2HEX05	X'05' MODEL 1 8K BUFFER AND CHARACTER GENERATOR
.... .11.			GA2HEX06	X'06' MODEL 1 GRAPHIC DESIGN FEATURE ONLY
.... .111			GA2HEX07	X'07' MODEL 1 GRAPHIC DESIGN FEATURE AND 4K BUFFER
.... 1...			GA2HEX08	X'08' MODEL 1 GRAPHIC DESIGN FEATURE AND 8K BUFFER
.... 1..1			GA2HEX09	X'09' MODEL 1 GRAPHIC DESIGN FEATURE AND CHARACTER GENERATOR
.... 1.1.			GA2HEX0A	X'0A' MODEL 1 GRAPHIC DESIGN FEATURE, 4K BUFFER, AND CHARACTER GENERATOR
.... 1.11			GA2HEX0B	X'0B' MODEL 1 GRAPHIC DESIGN FEATURE, 8K BUFFER, AND CHARACTER GENERATOR

=====

DEVICE CLASS

18	(12) BITSTRING	1		CLASS BITS
...1			GA3HEX10	X'10' GRAPHICS

=====

UNIT TYPE

19	(13) BITSTRING	1		DEVICE CODE
.... .1.			GA4HEX02	X'02' 2250 DISPLAY UNIT

=====

GRAPHICS DEVICE CLASS

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
2260 DISPLAY UNIT				

16	(10) BITSTRING	1		MODEL BITS
	1111		GB1HEXF0	X'F0' DEVICE CLASS
	...1		GB1HEX10	X'10' 1053, 2260
	.... 1111		GB1HEX0F	X'0F' MODEL CODE
	.... ...1		GB1HEX01	X'01' MODEL 1
	.... ...1.		GB1HEX02	X'02' MODEL 2
=====				

OPTIONAL FEATURES

17	(11) BITSTRING	1		OPTION FLAGS
	.... ....		GB2HEX00	X'00' NO OPTIONAL FEATURES
	...1		GB2HEX10	X'10' LINE ADDRESSING ONLY
	..1.		GB2HEX20	X'20' NUMERIC KEYBOARD ONLY
	..11		GB2HEX30	X'30' LINE ADDRESSING AND NUMERIC KEYBOARD
	.1..		GB2HEX40	X'40' ALPHAMERIC KEYBOARD ONLY
	.1.1		GB2HEX50	X'50' LINE ADDRESSING AND ALPHAMERIC KEYBOARD
	.11.		GB2HEX60	X'60' NON-DESTRUCTIVE CURSOR ONLY
	.111		GB2HEX70	X'70' LINE ADDRESSING AND NON-DESTRUCTIVE CURSOR
	1...		GB2HEX80	X'80' NUMERIC KEYBOARD AND NON-DESTRUCTIVE CURSOR
	1..1		GB2HEX90	X'90' LINE ADDRESSING, NUMERIC KEYBOARD AND NON-DESTRUCTIVE CURSOR
	1.1.		GB2HEXA0	X'A0' ALPHAMERIC KEYBOARD AND NON-DESTRUCTIVE CURSOR

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
1.11			GB2HEXB0	X'B0' LINE ADDRESSING, ALPHAMERIC KEYBOARD AND NON-DESTRUCTIVE CURSOR
11..			GB2HEXC0	X'CO' DATA ENTRY KEYBOARD ONLY
11.1			GB2HEXD0	X'D0' DATA ENTRY KEYBOARD AND LINE ADDRESSING
111.			GB2HEXE0	X'E0' DATA ENTRY KEYBOARD AND NON-DESTRUCTIVE CURSOR
1111			GB2HEXF0	X'F0' DATA ENTRY KEYBOARD, LINE ADDRESSING, AND NON-DESTRUCTIVE CURSOR
.... 1.1.			GB2HEX0A	X'0A' 2848 DISPLAY CONTROL, MODEL 1 WITH 240 CHARACTER DISPLAY CAPABILITY
.... 1.11			GB2HEX0B	X'0B' 2848 DISPLAY CONTROL, MODEL 2 WITH 480 CHARACTER DISPLAY CAPABILITY
.... 11..			GB2HEX0C	X'0C' 2848 DISPLAY CONTROL, MODEL 3 WITH 960 CHARACTER DISPLAY CAPABILITY
.... 11.1			GB2HEX0D	X'0D' 2848 DISPLAY CONTROL, MODEL 21 WITH 240 CHARACTER DISPLAY CAPABILITY
.... 111.			GB2HEX0E	X'0E' 2848 DISPLAY CONTROL, MODEL 22 WITH 480 CHARACTER DISPLAY CAPABILITY

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
=====				
DEVICE CLASS				
18	(12) BITSTRING ...1	1	GB3HEX10	MODEL BITS X'10' GRAPHICS
=====				
UNIT TYPE				
19	(13) BITSTRING.... ..11	1	GB4HEX03	DEVICE CODE X'03' 2260 DISPLAY STATION
=====				
GRAPHIC DEVICE CLASS				
=====				
3270 DISPLAY SYSTEM DEVICES				
=====				
3277 DISPLAY STATION AND 3158 DISPLAY CONSOLE				

16	(10) BITSTRING ...1 ...1 ...1 ..1.	1	GC1HEX11 GC1HEX12	MODEL BITS X'11' MODEL 1 X'12' MODEL 2, 3158 DISPLAY CONSOLE
=====				
OPTIONAL FEATURES				
17	(11) BITSTRING 111. .... .... .... ..1. .... .1.. .... .11. 1...	1	GC2HEXE0 GC2HEX00 GC2HEX20 GC2HEX40 GC2HEX60 GC2HEX80	OPTION FLAGS X'E0' KEYBOARD TYPE X'00' NO KEYBOARD, DOMESTIC CHARACTER GENERATOR, AND MONOCASE CHARACTER GENERATOR X'20' 66 KEY EBCDIC TYPEWRITER KEYBOARD X'40' 78 KEY EBCDIC TYPEWRITER KEYBOARD X'60' 66 KEY DATA ENTRY KEYBOARD X'80' 78 KEY OPERATOR CONSOLE KEYBOARD

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
1.1.			GC2HEXA0	X'A0' 66 KEY ASCII TYPEWRITER KEYBOARD
11..			GC2HEXC0	X'C0' 78 KEY ASCII TYPEWRITER KEYBOARD
...1			GC2HEX10	X'10' AUDIBLE ALARM FEATURE
.... 111.			GC2HEX0E	X'0E' CHARACTER GENERATOR TYPE
.... ..1.			GC2HEX02	X'02' ASCII A CHARACTER GENERATOR
.... .1..			GC2HEX04	X'04' ASCII B CHARACTER GENERATOR
.... .11.			GC2HEX06	X'06' UNITED KINGDOM CHARACTER GENERATOR
.... 1...			GC2HEX08	X'08' FRENCH CHARACTER GENERATOR
.... 1.1.			GC2HEX0A	X'0A' GERMAN CHARACTER GENERATOR
.... ...1			GC2HEX01	X'01' CHARACTER GENERATOR CASE

=====

DEVICE CLASS

18	(12) BITSTRING	1		CLASS BITS
...1			GC3HEX10	X'10' GRAPHICS

=====

UNIT TYPE

19	(13) BITSTRING	1		DEVICE CODE
.... 1..1			GC4HEX09	X'09' 3277 DISPLAY STATION
.... 11..			GC4HEX0C	X'0C' 3158 DISPLAY CONSOLE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
=====				
GRAPHIC DEVICE CLASS				
=====				
3270 DISPLAY SYSTEM DEVICES				
=====				
3284 AND 3286 PRINTERS				

16	(10) BITSTRING	1		MODEL BITS
	...1 ...1		GD1HEX11	X'11' MODEL 1
	...1 ...1		GD1HEX12	X'12' MODEL 2
=====				
OPTIONAL FEATURES				
17	(11) BITSTRING	1		OPTION FLAGS
	.... ....		GD2HEX00	X'00' NO OPTIONAL FEATURES AVAILABLE
=====				
DEVICE CLASS				
18	(12) BITSTRING	1		CLASS BITS
	...1		GD3HEX10	X'10' GRAPHICS
=====				
UNIT TYPE				
19	(13) BITSTRING	1		DEVICE CODE
	.... 1.1.		GD4HEX0A	X'0A' 3284 PRINTER
	.... 1.11		GD4HEX0B	X'0B' 3286 PRINTER
=====				
GRAPHICS DEVICE CLASS				
=====				
OTHER GRAPHIC DEVICES				

16	(10) BITSTRING	1		MODEL BITS
	...1 .1..		GE1HEX14	X'14' 1053 PRINTER MODEL 4

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
=====				
OPTIONAL FEATURES				
17	(11) BITSTRING	1	GE2HEX00	OPTION FLAGS X'00' NO OPTIONAL FEATURES AVAILABLE
=====				

DEVICE CLASS

18	(12) BITSTRING ...1	1	GE3HEX10	CLASS BITS X'10' GRAPHICS
=====				

UNIT TYPE

19	(13) BITSTRING.... .1..	1	GE4HEX04	DEVICE CODE X'04' 1053 PRINTER
	.... 1...		GE4HEX08	X'08' 3066 SYSTEM CONSOLE
=====				

COMMUNICATION EQUIPMENT DEVICE CLASS

16	(10) BITSTRING 1111	1	CE1HEXF0	MODEL BITS X'F0' I/O SUPERVISOR FLAGS
	1...		CE1HEX80	X'80' RESERVED BIT
	.1..		CE1HEX40	X'40' OVERRUNNABLE DEVICE
	..1.		CE1HEX20	X'20' ON = BURST MODE, OFF = BYTE MODE
	...1		CE1HEX10	X'10' DATA CHAINING
	.... 1111		CE1HEX0F	X'0F' MODEL CODE THE VALUE IN THIS FIELD AND THE VALUE IN THE ADAPTER TYPE FIELD (BYTE 19) TOGETHER IDENTIFY THE MODEL
	.... ...1		CE1HEX01	X'01' ADAPTER TYPE 1 UNIT 1050; ADAPTER TYPE 2 UNIT 1030; ADAPTER TYPE 3 UNIT 1050; ADAPTER TYPE 4 UNIT 83B3; ADAPTER

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				TYPE 5 UNIT TWX; ADAPTER
				TYPE 6 UNIT
				WTTA; ADAPTER
				TYPE 8 UNIT
				2260
....	..1.		CEIHEX02	X'02' ADAPTER TYPE 1 UNIT
				1060; ADAPTER
				TYPE 4 UNIT
				115A
....	..11		CEIHEX03	X'03' ADAPTER TYPE 1 UNIT
				2740 (CORRESPONDENCE CODE)
....	..1..		CEIHEX04	X'04' ADAPTER TYPE 1 UNIT
				2740
....	..1.1		CEIHEX05	X'05' ADAPTER TYPE 1 UNIT
				2741C (CORRESPONDENCE CODE);
				ADAPTER TYPE 9 UNIT BSC1 NON-SWITCHED POINT TO POINT
....	..11.		CEIHEX06	X'06' ADAPTER TYPE 1 UNIT
				2741P (PTTC/BCD OR PTTC/EBCDIC);
				ADAPTER TYPE 9 UNIT BSC2 (SWITCHED POINT TO POINT)
....	..111		CEIHEX07	X'07' ADAPTER TYPE 1 UNIT
				1050X (INHIBIT);
				ADAPTER TYPE 9 UNIT BSC3 (NON-SWITCHED MULTIPOINT)
....	1...		CEIHEX08	X'08' ADAPTER TYPE 1 UNIT
				2740X (INHIBIT)
....	1..1		CEIHEX09	X'09' ADAPTER TYPE 1 UNIT
				2740B

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
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OPTIONAL FEATURES

17	(11) BITSTRING	1		OPTION FLAGS
	1... ..		CE2HEX80	X'80' AUTOMATIC CALLING
	.1... ..		CE2HEX40	X'40' AUTOMATIC POLLING
	..1.		CE2HEX20	X'20' CHECKING (2740 ONLY) OR DUAL COMMUNICATIONS INTERFACE (2701 SDA-II)
	...1		CE2HEX10	X'10' AUTOMATIC ANSWERING
	.... 1...		CE2HEX08	X'08' STATION CONTROL (2740 ONLY)
	.... .1..		CE2HEX04	X'04' DUAL CODE (2701 SDA-II) OR TRANSMIT CONTROL (2740 ONLY)
	.... 11..		CE2HEX0C	X'0C' OPTICAL IMAGE UNIT
	.... ..11		CE2HEX03	X'03' SADTHREE
	.... ..1.		CE2HEX02	X'02' SADTWO
	.... ....1		CE2HEX01	X'01' SADONE
	.... ..		CE2HEX00	X'00' SADZER

=====

DEVICE CLASS

18	(12) BITSTRING	1		CLASS BITS
	.1... ..		CE3HEX40	X'40' COMMUNICATION EQUIPMENT

=====

UNIT TYPE

19	(13) BITSTRING	1		DEVICE CODE
	1111		CE4HEXF0	X'F0' ADAPTER TYPE
	...1		CE4HEX10	X'10' IBM TERMINAL ADAPTER TYPE I
	..1.		CE4HEX20	X'20' IBM TERMINAL ADAPTER TYPE II
	..11		CE4HEX30	X'30' IBM TELEGRAPH ADAPTER
	.1... ..		CE4HEX40	X'40' TELEGRAPH ADAPTER TYPE I

UCBTYP

UCBTYP

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.1.1			CE4HEX50	X'50' TELEGRAPH ADAPTER TYPE II
.11.			CE4HEX60	X'60' WORLD TRADE TELEGRAPH ADAPTER
.111			CE4HEX70	X'70' SYNCHRONOUS ADAPTER TYPE I
1...			CE4HEX80	X'80' IBM TERMINAL ADAPTER TYPE III
1..1			CE4HEX90	X'90' SYNCHRONOUS ADAPTER TYPE II
.... 1111			CE4HEX0F	X'0F' CONTROL UNIT
.... ...1			CE4HEX01	X'01' 2702 CONTROL UNIT
.... ..1.			CE4HEX02	X'02' 2701
.... ..11			CE4HEX03	X'03' 2703
.... ..1..			CE4HEX04	X'04' 2955
.... ..1.1			CE4HEX05	X'05' 3704/3705
1111 ...1			CE4HEXF1	X'F1' 3791 LOCAL CONTROL UNIT

=====

CHANNEL-TO-CHANNEL ADAPTER DEVICE CLASS

16	(10) BITSTRING	1		MODEL BITS
...1			CC1HEX10	X'10' DATA CHAINING

=====

OPTIONAL FEATURES

17	(11) BITSTRING	1		OPTION FLAGS
----	----------------	---	--	--------------

=====

DEVICE CLASS

18	(12) BITSTRING	1		CLASS BITS
..1.. ...1			CC3HEX41	X'41' CHANNEL-TO-CHAN NEL ADAPTER

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
UNIT TYPE				
19	(13) BITSTRING	1		DEVICE CODE
=====				
CHARACTER READER DEVICE CLASS				
=====				
THERE ARE NO DEVICES DEFINED IN THIS CLASS				
SEE UNIT RECORD CLASS				

16	(10) BITSTRING	1		MODEL BITS
=====				
OPTIONAL FEATURES				
17	(11) BITSTRING	1		OPTION FLAGS
=====				
DEVICE CLASS				
18	(12) BITSTRING	1		CLASS BITS
	.... .1..		CR3HEX04	X'04'
				CHARACTER
				READER
	.... ..11		DC3HEX03	X'03' RESERVED
=====				
UNIT TYPE				
19	(13) BITSTRING	1		DEVICE CODE

CC1HEX10	16 X'10'	DA4HEX06	19 X'06'
CC3HEX41	18 X'41'	DA4HEX07	19 X'07'
CE1HEXF0	16 X'F0'	DA4HEX08	19 X'08'
CE1HEX0F	16 X'0F'	DA4HEX09	19 X'09'
CE1HEX01	16 X'01'	DC3HEX03	18 X'03'
CE1HEX02	16 X'02'	GA1HEXF0	16 X'F0'
CE1HEX03	16 X'03'	GA1HEX0F	16 X'0F'
CE1HEX04	16 X'04'	GA1HEX01	16 X'01'
CE1HEX05	16 X'05'	GA1HEX02	16 X'02'
CE1HEX06	16 X'06'	GA1HEX03	16 X'03'
CE1HEX07	16 X'07'	GA1HEX30	16 X'30'
CE1HEX08	16 X'08'	GA2HEXA0	17 X'A0'
CE1HEX09	16 X'09'	GA2HEXB0	17 X'B0'
CE1HEX10	16 X'10'	GA2HEXC0	17 X'C0'
CE1HEX20	16 X'20'	GA2HEXD0	17 X'D0'
CE1HEX40	16 X'40'	GA2HEXE0	17 X'E0'
CE1HEX80	16 X'80'	GA2HEXF0	17 X'F0'
CE2HEX0C	17 X'0C'	GA2HEX0A	17 X'0A'
CE2HEX00	17 X'00'	GA2HEX0B	17 X'0B'
CE2HEX01	17 X'01'	GA2HEX00	17 X'00'
CE2HEX02	17 X'02'	GA2HEX01	17 X'01'
CE2HEX03	17 X'03'	GA2HEX02	17 X'02'
CE2HEX04	17 X'04'	GA2HEX03	17 X'03'
CE2HEX08	17 X'08'	GA2HEX04	17 X'04'
CE2HEX10	17 X'10'	GA2HEX05	17 X'05'
CE2HEX20	17 X'20'	GA2HEX06	17 X'06'
CE2HEX40	17 X'40'	GA2HEX07	17 X'07'
CE2HEX80	17 X'80'	GA2HEX08	17 X'08'
CE3HEX40	18 X'40'	GA2HEX09	17 X'09'
CE4HEXF0	19 X'F0'	GA2HEX10	17 X'10'
CE4HEXF1	19 X'F1'	GA2HEX20	17 X'20'
CE4HEX0F	19 X'0F'	GA2HEX30	17 X'30'
CE4HEX01	19 X'01'	GA2HEX40	17 X'40'
CE4HEX02	19 X'02'	GA2HEX50	17 X'50'
CE4HEX03	19 X'03'	GA2HEX60	17 X'60'
CE4HEX04	19 X'04'	GA2HEX70	17 X'70'
CE4HEX05	19 X'05'	GA2HEX80	17 X'80'
CE4HEX10	19 X'10'	GA2HEX90	17 X'90'
CE4HEX20	19 X'20'	GA3HEX10	18 X'10'
CE4HEX30	19 X'30'	GA4HEX02	19 X'02'
CE4HEX40	19 X'40'	GB1HEXF0	16 X'F0'
CE4HEX50	19 X'50'	GB1HEX0F	16 X'0F'
CE4HEX60	19 X'60'	GB1HEX01	16 X'01'
CE4HEX70	19 X'70'	GB1HEX02	16 X'02'
CE4HEX80	19 X'80'	GB1HEX10	16 X'10'
CE4HEX90	19 X'90'	GB2HEXA0	17 X'A0'
CR3HEX04	18 X'04'	GB2HEXB0	17 X'B0'
DA1HEXF0	16 X'F0'	GB2HEXC0	17 X'C0'
DA1HEX0F	16 X'0F'	GB2HEXD0	17 X'D0'
DA1HEX10	16 X'10'	GB2HEXE0	17 X'E0'
DA1HEX20	16 X'20'	GB2HEXF0	17 X'F0'
DA1HEX40	16 X'40'	GB2HEX0A	17 X'0A'
DA1HEX80	16 X'80'	GB2HEX0B	17 X'0B'
DA2HEX01	17 X'01'	GB2HEX0C	17 X'0C'
DA2HEX02	17 X'02'	GB2HEX0D	17 X'0D'
DA2HEX08	17 X'08'	GB2HEX0E	17 X'0E'
DA2HEX10	17 X'10'	GB2HEX00	17 X'00'
DA2HEX20	17 X'20'	GB2HEX10	17 X'10'
DA2HEX40	17 X'40'	GB2HEX20	17 X'20'
DA2HEX84	17 X'84'	GB2HEX30	17 X'30'
DA3HEX20	18 X'20'	GB2HEX40	17 X'40'
DA4HEX0A	19 X'0A'	GB2HEX50	17 X'50'
DA4HEX0B	19 X'0B'	GB2HEX60	17 X'60'
DA4HEX0D	19 X'0D'	GB2HEX70	17 X'70'

CROSS REFERENCE

GB2HEX80	17 X'80'	UR2HEX10	17 X'10'
GB2HEX90	17 X'90'	UR2HEX20	17 X'20'
GB3HEX10	18 X'10'	UR2HEX4E	17 X'4E'
GB4HEX03	19 X'03'	UR2HEX80	17 X'80'
GC1HEX11	16 X'11'	UR3HEX08	18 X'08'
GC1HEX12	16 X'12'	UR4HEX0A	19 X'0A'
GC2HEXA0	17 X'A0'	UR4HEX0C	19 X'0C'
GC2HEXC0	17 X'C0'	UR4HEX0E	19 X'0E'
GC2HEXE0	17 X'E0'	UR4HEX01	19 X'01'
GC2HEX0A	17 X'0A'	UR4HEX02	19 X'02'
GC2HEX0E	17 X'0E'	UR4HEX03	19 X'03'
GC2HEX00	17 X'00'	UR4HEX04	19 X'04'
GC2HEX01	17 X'01'	UR4HEX05	19 X'05'
GC2HEX02	17 X'02'	UR4HEX06	19 X'06'
GC2HEX04	17 X'04'	UR4HEX08	19 X'08'
GC2HEX06	17 X'06'	UR4HEX09	19 X'09'
GC2HEX08	17 X'08'	UR4HEX1B	19 X'1B'
GC2HEX10	17 X'10'	UR4HEX1C	19 X'1C'
GC2HEX20	17 X'20'	UR4HEX1D	19 X'1D'
GC2HEX40	17 X'40'	UR4HEX1E	19 X'1E'
GC2HEX60	17 X'60'	UR4HEX1F	19 X'1F'
GC2HEX80	17 X'80'	UR4HEX10	19 X'10'
GC3HEX10	18 X'10'	UR4HEX16	19 X'16'
GC4HEX0C	19 X'0C'	UR4HEX17	19 X'17'
GC4HEX09	19 X'09'	UR4HEX18	19 X'18'
GD1HEX11	16 X'11'	UR4HEX19	19 X'19'
GD1HEX12	16 X'12'	UR4HEX20	19 X'20'
GD2HEX00	17 X'00'	UR4HEX22	19 X'22'
GD3HEX10	18 X'10'	UR4HEX23	19 X'23'
GD4HEX0A	19 X'0A'	UR4HEX30	19 X'30'
GD4HEX0B	19 X'0B'	UR4HEX4C	19 X'4C'
GE1HEX14	16 X'14'	UR4HEX42	19 X'42'
GE2HEX00	17 X'00'		
GE3HEX10	18 X'10'		
GE4HEX04	19 X'04'		
GE4HEX08	19 X'08'		
MT1HEXF0	16 X'F0'		
MT1HEXF0F	16 X'0F'		
MT1HEX02	16 X'02'		
MT1HEX04	16 X'04'		
MT1HEX09	16 X'09'		
MT1HEX10	16 X'10'		
MT1HEX20	16 X'20'		
MT1HEX40	16 X'40'		
MT1HEX80	16 X'80'		
MT2HEX07	17 X'07'		
MT2HEX08	17 X'08'		
MT2HEX10	17 X'10'		
MT2HEX20	17 X'20'		
MT2HEX40	17 X'40'		
MT2HEX80	17 X'80'		
MT3HEX80	18 X'80'		
MT4HEX01	19 X'01'		
MT4HEX03	19 X'03'		
UCBTYP	0 (0)		
UR1HEXF0	16 X'F0'		
UR1HEXF0F	16 X'0F'		
UR1HEX00	16 X'00'		
UR1HEX01	16 X'01'		
UR1HEX10	16 X'10'		
UR1HEX20	16 X'20'		
UR1HEX40	16 X'40'		
UR1HEX80	16 X'80'		
UR2HEX01	17 X'01'		

D 13

UCM

Common Name: Unit Control Module

Macro ID: IEECUCM

DSECT Name: UCM2EXT (DSECT for UCM extension)
UCMPRFX (DSECT for MCS prefix)
UCM (DSECT for UCM base)
UCMEIL (DSECT for UCM event indication list)
UCMLIST (DSECT for individual device entry (UCME) map)
UCMEXIT (DSECT for UCM user exit work area)
UCMFEXTA (DSECT for UCM fixed extension base)
UCMPEXTA (DSECT for UCM pageable extension base)
UCMEFEXT (DSECT for UCME fixed extension)
UCMEPEXT (DSECT for UCME pageable extension)

Created by: SYSGEN creates UCM extension, MCS prefix, UCM base, UCM event indication list and UCM individual device entries (one per console). IEAVVINT creates UCM fixed extension base, UCM pageable extension base, UCME fixed extension (one per console) and UCME pageable extensions (one per console). The user exit work area is mapped by IEECUCM, but this area is not part of the UCM. UCMEXIT is a mapping of the space gotten and freed by IEAVVWTO.

Subpool and Key: NUCLEUS resident and key 0 for areas created by SYSGEN
Subpool 245 and key 0 for UCM fixed extension base and UCME fixed extensions
Subpool 241 and key 0 for UCM pageable extension base and UCME pageable extensions

Size: NUCLEUS - 564 bytes and 84 bytes/console
Subpool 245 - 52 bytes and 12 bytes/console
Subpool 241 - 64 bytes and 0 bytes/console

Pointed to by: CVTCUCB field of the CVT data area (UCM base)
UCMVEA field of the UCM data area (first device entry UCM)
UCMVEL field of the UCM data area (last device entry UCM)

Serialization: Local and CMS locks

Function: The UCM base, UCM extension, UCM MCS prefix, UCM event indication list, UCM fixed extension base and the UCM pageable extension base describe the general characteristics of all consoles specified at SYSGEN; and the UCMEs, UCME fixed extensions and UCME pageable extensions describe each console in detail. There is one UCME, UCME fixed extension and UCME pageable extension for each console.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	UCM2EXT	, START OF UCM EXTENSION

0	(0) SIGNED	2	UCM2WID	ASID OF USER WAITING ON UCMWQECB
2	(2) SIGNED	2	UCM2RID	ASID OF USER WAITING ON UCMRQECB

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
4	(4) V-ADDRESS	4	UCM2PST	V(IEA0PT02) BRANCH ENTRY POINT INTO 'POST' ROUTINE
8	(8) A-ADDRESS	4	UCM2STA	POINTER TO STAR WORK AREA (SDWA)
8	(8) HEX	1	UCM2SFLG	STAR CONTROL FLAGS
	1... ..		UCM2SDWA	BIT0 SDWA OBTAINED
	.1.. ..		UCM2SENT	BIT1 STAR ENTERED
	..1.		UCM2DTAK	BIT2 DUMP TAKEN
	...1		UCM2DSTR	BIT3 DUMP STARTED
	.... 1...		UCM2WTOI	BIT4 STAR ABEND MESSAGE ISSUED
	.... .1..		UCMRSV33	BIT5,,C'X' RESERVED
	.... ..1.		UCMRSV34	BIT6,,C'X' RESERVED
	.... ...1		UCMRV008	BIT7,,C'X' RESERVED
9	(9) A-ADDRESS	3	UCM2STAA	ADDRESS OF SDWA OR ZERO
12	(C) A-ADDRESS	4	UCM2FEXT	ADDRESS OF UCM FIXED EXTENSION BASE (UCMBFEXT SHOULD BE USED INSTEAD OF THIS POINTER)
16	(10) A-ADDRESS	4	UCMRSV73	RESERVED
20	(14) A-ADDRESS	4	UCMRSV74	RESERVED

MULTIPLE CONSOLE SUPPORT (MCS) UCM PREFIX
MCS IS STANDARD IN OS/VS. THE MCS PREFIX IS ALWAYS
PRESENT.

0	(0) STRUCTURE	0	UCMPRFX	, START OF MCS PREFIX
0	(0) A-ADDRESS	4	UCMMCENT	ADDRESS OF MASTER CONSOLE UCM ENTRY
4	(4) CHARACTER	72	UCMSAVE0	RESIDENT REGISTER SAVE AREA FOR IEACVTSK
4	(4) SIGNED	4	UCMSVA0	WORD 1

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
8	(8) SIGNED	4	UCMSVB0	WORD 2
12	(C) SIGNED	4	UCMSVC0	WORD 3
16	(10) SIGNED	4	UCMSVD0	WORD 4
20	(14) SIGNED	4	UCMSVE0	WORD 5
24	(18) SIGNED	4	UCMSVF0	WORD 6
28	(1C) SIGNED	4	UCMSVG0	WORD 7
32	(20) SIGNED	4	UCMSVH0	WORD 8
36	(24) SIGNED	4	UCMSVI0	WORD 9
40	(28) SIGNED	4	UCMSVJ0	WORD 10
44	(2C) SIGNED	4	UCMSVK0	WORD 11
48	(30) SIGNED	4	UCMSVL0	WORD 12
52	(34) SIGNED	4	UCMSVM0	WORD 13
56	(38) SIGNED	4	UCMSVN0	WORD 14
60	(3C) SIGNED	4	UCMSVO0	WORD 15
64	(40) SIGNED	4	UCMSVP0	WORD 16
68	(44) SIGNED	4	UCMSVQ0	WORD 17
72	(48) SIGNED	4	UCMSVR0	WORD 18
76	(4C) A-ADDRESS	4	UCMDOME	ADDRESS OF FIRST DOM ELEMENT
80	(50) A-ADDRESS	4	UCMWTOX	ZERO (OS/VS2)
84	(54) BITSTRING	2	UCMSFLGS	SYSTEM CONTROL FLAGS
84	(54) A-ADDRESS	1	UCMSFLG1	BYTE 1 OF SYSTEM CONTROL FLAGS
	1...		UCMRV01	BIT0,,C'X' RESERVED
	.1..		UCMSYSB	BIT1 HARD COPY SUPPORT REQUIRED
	..1.		UCMSYSC	BIT2 COMMANDS TO HARD COPY
	...1		UCMSYSD	BIT3 CONSOLE SWITCH FOR MASTER
	.... 1...		UCMSYSE	BIT4 NO CONSOLES ACTIVE
	.... .1..		UCMSYSF	BIT5 GRAPHIC CONSOLES EXIST

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... .1.		UCMSYSG	BIT6 HARD COPY DEVICE IS SYSLOG
	.... ....1		UCMRV35	BIT7,,C'X' RESERVED
85	(55) A-ADDRESS	1	UCMSFLG2	BYTE 2 OF SYSTEM CONTROL FLAGS
	1...		UCMSYSI	BIT0 WQE HOUSEKEEPING REQUIRED
	.1..		UCMSYSJ	BIT1 HARD COPY TO BE WRITTEN
	..1.		UCMSYSK	BIT2 NEW CONSOLE IS COMPOSITE
	...1		UCMSYSL	BIT3 DEVICE BEING ACCESSED BY CONSOLE SWITCH TO SOUND CONSOLE ALARM
	.... 1..		UCMSYSM	BIT4 FAILING CONSOLE IS COMPOSITE
	.... .1..		UCMSYSN	BIT5 GRAPHIC CONSOLES ACTIVE
	.... .1.		UCMSYSO	BIT6 DUMMY ATTENTION BY WTL
	.... ....1		UCMSYSP	BIT7 DEVICE BEING ACCESSED BY CONSOLE SWITCH TO SOUND MAIN POWER ALARM
86	(56) HEX	2	UCMOWTOR	DEFAULT VALUES FOR OLD WTO/R MACROS

88	(58) SIGNED	4	UCMCMID	CURRENT MSG IDENTIFICATION NUMBER

92	(5C) A-ADDRESS	4	UCMHCUM	ADDRESS OF HARD COPY UCM ENTRY (OR ZERO)

96	(60) SIGNED	1	UCMXCT	EXTERNAL REQUEST COUNT
97	(61) A-ADDRESS	3	UCMUEXIT	ZERO (WAS ADDRESS OF USER EXIT DATA)

100	(64) HEX	2	UCMHRDRT	HARD COPY ROUTING CODE ASSIGNMENTS
102	(66) HEX	2	UCMRV03	RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
104	(68) HEX	24	UCMXSA	6-WORD PARAMETER LIST FOR SVC 72
104	(68) A-ADDRESS	4	UCM1WD	PTR TO 3RD WORD OF SVC 72 PARM LIST
108	(6C) A-ADDRESS	4	UCM2WD	2ND WORD OF SVC 72 PARM LIST
112	(70) A-ADDRESS	4	UCM3WD	3RD WORD OF SVC 72 PARM LIST
116	(74) A-ADDRESS	4	UCM4WD	4TH WORD OF SVC 72 PARM LIST
120	(78) A-ADDRESS	4	UCM5WD	5TH WORD OF SVC 72 PARM LIST
124	(7C) A-ADDRESS	4	UCM6WD	6TH WORD OF SVC 72 PARM LIST
128	(80) A-ADDRESS	4	UCMQRTN	ADDRESS OF ENQ ROUTINE ENTRY POINT
132	(84) SIGNED	4	UCMSWSA1	SAVE AREA FOR IEAVSNCH
136	(88) SIGNED	4	UCMSWSA2	SAVE AREA FOR IEAVSNCH
140	(8C) A-ADDRESS	4	UCMRSV69	RESERVED
144	(90) SIGNED	4	UCMNPECB	NIP ECB POSTED WHEN NIP ROUTINE'S HARD COPY CAN BE WRITTEN
148	(94) A-ADDRESS	4	UCMLOGAD	ADDRESS OF WTL BUFFER
152	(98) SIGNED	4	UCMRSV72	RESERVED
156	(9C) A-ADDRESS	1	UCMSDS1	SDS FLAGS
	1... ..		UCMSDS1A	BIT0 STCMDS TO HARDCOPY
	.1... ..		UCMSDS1B	BIT1 INCMDS TO HARDCOPY
	..1.		UCMRSV04	BIT2, 'X' RESERVED
	...1		UCMRSV05	BIT3, 'X' RESERVED
	.... 1...		UCMRSV06	BIT4, 'X' RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... .1..			UCMRSV07	BIT5,,C'X' RESERVED
.... ..1.			UCMRSV08	BIT6,,C'X' RESERVED
.... ...1			UCMRSV09	BIT7,,C'X' RESERVED
157 (9D) HEX		1	UCMSDS2	RESERVED FOR SDS FLAGS
158 (9E) SIGNED		2	UCMRSV65	RESERVED

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POINTERS TO UCM MCS PREFIX AND UCM EXTENSION
LOCATED IMMEDIATELY PRECEDING UCM BASE SECTION

160 (A0) A-ADDRESS		4	UCM2PTR	ADDRESS OF UCM EXTENSION (OS/VS2 ONLY)
164 (A4) A-ADDRESS		4	UCMPRFXP	ADDRESS OF UCM MCS PREFIX

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UNIT CONTROL MODULE (UCM) BASE

0 (0) STRUCTURE		0	UCM	, START OF UCM BASE FIXED ECBS
0 (0) SIGNED		4	UCMXECB	EXTERNAL INTERRUPT ECB
4 (4) SIGNED		4	UCMAECB	ATTENTION INTERRUPT ECB
8 (8) SIGNED		4	UCMOECB	WTO/WTOR REQUEST ECB
12 (C) SIGNED		4	UCMDECB	DOM REQUEST ECB
12 (C) SIGNED		4	UCMLECB	WTL REQUEST ECB
16 (10) SIGNED		4	UCMARECB	CONSOLE RECOVERY ECB (OS/VS2)
20 (14) A-ADDRESS		4	UCMLSTP	ADDRESS OF EVENT INDICATION LIST (EIL) WTO/WTOR CONTROL FIELDS
24 (18) A-ADDRESS		4	UCMWTOQ	ADDRESS OF FIRST WQE (SYSOUT QUEUE)

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UCM

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
28	(1C) A-ADDRESS	4	UCMRPYQ	ADDRESS OF FIRST ORE (REPLY-Q ELEMENT)
32	(20) HEX	13	UCMRPYI	REPLY ID ASSIGNMENT PATTERN (100 BITS)
45	(2D) SIGNED	1	UCMRQLM	I.D. ASSIGNMENT LIMIT
46	(2E) SIGNED	2	UCMWQLM	WQE BUFFER LIMIT
48	(30) SIGNED	4	UCMRQECB	REPLY REQUEST WAITING ECB
52	(34) SIGNED	4	UCMWQECB	BUFFER REQUEST WAITING ECB
56	(38) SIGNED	2	UCMRQHR	CURRENT ORE COUNT
58	(3A) SIGNED	2	UCMWQNR	CURRENT WQE COUNT
60	(3C) SIGNED	4	UCMWQEND	ADDRESS OF LAST WQE OR ZERO
64	(40) V-ADDRESS	4	UCMPXA	V(IEECVTCB) ADDR OF COMMUNICATIONS TASK TCB (OS/VS2)
68	(44) BITSTRING	1	UCHPX8	
68	(44) A-ADDRESS	1	UCNMODE	MODE FLAGS
	1... ..		UCHRSV11	BIT0,, 'X' RESERVED
	.1... ..		UCMRSV66	BIT1,, 'X' RESERVED
	..1... ..		UCMTPUTA	BIT2 TPUTTER IS ACTIVE (OS/VS2)
	...1... ..		UCMRSV14	BIT3,, 'X' RESERVED
	.... 1... ..		UCMAMFA	BIT4 ACCEPT 'VARY' CMD W/MSTCONS OPND FROM ANY MCS SECONDARY CONSOLE
	.... .1... ..		UCHOGCE	BIT5 ONLY GRAPHIC CONSOLES ACTIVE
	.... ..1... ..		UCHMCS	BIT6 MCS GENERATED WITH SYSTEM

UCM

UCM
Data Area Descriptions 501

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
....	...1		UCMFIK	BIT7 CONTROL PROGRAM MODE (0 = OS/VS2) (1 = OS/VS1)
69	(45) BITSTRING	1	UCMRSV75	RESERVED
70	(46) SIGNED	1	UCMRSV67	RESERVED
71	(47) BITSTRING	1	UCMRSV76	RESERVED

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THE FOLLOWING FIELDS ARE USED FOR ACCESSING UCM INDIVIDUAL DEVICE ENTRIES. THEY MUST BE DEFINED IN THE ORDER SHOWN.

72	(48) CHARACTER	12	UCMVDATA	UCM ENTRY ACCESSING DATA
72	(48) A-ADDRESS	4	UCMVEA	ADDRESS OF FIRST UCM ENTRY
76	(4C) A-ADDRESS	4	UCMVEZ	LENGTH OF A UCM ENTRY
80	(50) A-ADDRESS	4	UCMVEL	ADDRESS OF LAST UCM ENTRY
84	(54) HEX	1	UCMRSV77(56)	RESERVED
140	(8C) SIGNED	4	UCMSAVE4(16)	SAVE AREA FOR IEAVCTSK
204	(CC) SIGNED	4	UCMR9SV	SAVE AREA FOR IEAVMWSV

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THE FIELDS DEFINED FOLLOWING THIS STATEMENT ARE PRESENT ONLY IN VARIABLE MODE SYSTEMS (OS/VS2)

208	(D0) FLOATING	8		DOUBLEWORD BOUNDARY ALIGNMENT
208	(D0) A-ADDRESS	4	UCMMNTR	ADDRESS OF MONITOR ROUTINE
212	(D4) SIGNED	4	UCMMNECB	ECB INDICATING MONITOR TPUTS TO DO
216	(D8) SIGNED	4	UCMTRECB	ECB INDICATING TPUTTER SHOULD TERMINATE
220	(DC) A-ADDRESS	4	UCMMQPTR	POINTER TO FIRST ELEMENT ON MONITOR QUEUE

UCH

UCH

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
224	(E0) A-ADDRESS	4	UCMMQEND	POINTER TO LAST ELEMENT ON MONITOR QUEUE
228	(E4) A-ADDRESS	4	UCMMQNX	POINTER TO NEXT ELEMENT ON MONITOR QUEUE TO BE PROCESSED
232	(E8) A-ADDRESS	4	UCMBPTR	POINTER TO FIRST ELEMENT ON MONITOR MESSAGE BLOCK QUEUE
236	(EC) SIGNED	1	UCMRQLM1	IPL-SPECIFIED ORE BUFFER LIMIT
237	(ED) HEX	1	UCMRV001	RESERVED
238	(EE) SIGNED	2	UCMWQLM1	IPL-SPECIFIED WQE BUFFER LIMIT
240	(F0) A-ADDRESS	4	UCMBFEXT	ADDRESS OF UCM FIXED EXTENSION BASE
244	(F4) A-ADDRESS	4	UCMRP2AD	POINTER TO REPLY PROCESSOR, STAGE 2
248	(F8) SIGNED	2	UCMRSV61	RESERVED
250	(FA) SIGNED	2	UCMCTID	ASID OF COMMUNICATIONS TASK
252	(FC) A-ADDRESS	4	UCMBEND	POINTER TO LAST ELEMENT ON MONITOR MESSAGE BLOCK QUEUE
256	(100) A-ADDRESS	4	UCMWECBH	POINTER TO START OF WQE ECB CHAIN
260	(104) A-ADDRESS	4	UCMWECBT	POINTER TO END OF WQE ECB CHAIN
264	(108) A-ADDRESS	4	UCMOECBH	POINTER TO START OF ORE ECB CHAIN
268	(10C) A-ADDRESS	4	UCMOECBT	POINTER TO END OF ORE ECB CHAIN

UCM

UCM
Data Area Descriptions 503

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
272	(110) SIGNED	4	UCMORECP	ORE CELLPOOL ID
276	(114) SIGNED	4	UCMWQECF	WQE CELLPOOL ID
280	(118) A-ADDRESS	4	UCMASCB	ASCB ADDRESS OF COMMUNICATIONS TASK
284	(11C) A-ADDRESS	4	UCMSWCH	ADDRESS OF CONSOLE SWITCH ROUTINE
288	(120) A-ADDRESS	4	UCMFRRAD	ADDRESS OF COMMUNICATIONS TASK'S RECOVERY ROUTINE (IEAVMFRR)
292	(124) A-ADDRESS	4	UCMWAKUP	ADDRESS OF COMMUNICATIONS TASK'S POST ERROR RECOVERY ROUTINE (IEAVMEST, ALIAS FOR IEAVMFRR)
296	(128) A-ADDRESS	4	UCMJES3T	ADDRESS OF SUBSYSTEM TCB
300	(12C) HEX 1... ..	1	UCMRSV42 UCMRSV43	RESERVED BIT0,,C'X' RESERVED
	.1.. ..		UCMRSV44	BIT1,,C'X' RESERVED
	..1.		UCMRSV45	BIT2,,C'X' RESERVED
	...1		UCMRSV46	BIT3,,C'X' RESERVED
	.... 1..		UCMRSV47	BIT4,,C'X' RESERVED
	.... .1..		UCMRSV48	BIT5,,C'X' RESERVED
	.... ..1.		UCMRSV49	BIT6,,C'X' RESERVED
	.... ...1		UCMRSV50	BIT7,,C'X' RESERVED
301	(12D) HEX 1... ..	1	UCMRSV51 UCMRSV52	RESERVED BIT0,,C'X' RESERVED
	.1.. ..		UCMRSV53	BIT1,,C'X' RESERVED
	..1.		UCMRSV54	BIT2,,C'X' RESERVED
	...1		UCMRSV55	BIT3,,C'X' RESERVED
	.... 1..		UCMRSV56	BIT4,,C'X' RESERVED

UCM

UCM

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
....	.1..		UCMRSV57	BIT5,,C'X' RESERVED
....	..1.		UCMRSV58	BIT6,,C'X' RESERVED
....	...1		UCMRSV59	BIT7,,C'X' RESERVED
302	(12E) SIGNED	2	UCMRSV60	RESERVED

304	(130) HEX	1	UCMRSV62(40)	RESERVED
=====				

UCM EVENT INDICATION LIST (EIL)

0	(0) STRUCTURE	0	UCMEIL	, START OF EIL

0	(0) A-ADDRESS	1		LENGTH OF EIL (IN WORDS)
1	(1) HEX	1	UCMRPYL	LAST ASSIGNED REPLY I.D.
2	(2) SIGNED	1	UCMRTCT	ROUTE COUNT
3	(3) HEX	1	UCMRSV15	RESERVED

4	(4) A-ADDRESS	4	UCMNIPTP	ADDRESS OF NIP'S 2K WTL BUFFER

8	(8) A-ADDRESS	4	UCMXECBA	ADDRESS OF EXTERNAL INTRPT ECB

12	(C) A-ADDRESS	4	UCMAECBA	ADDRESS OF ATTENTION INTRPT ECB

16	(10) A-ADDRESS	4	UCMOECBA	ADDRESS OF WTO/R REQUEST ECB

20	(14) A-ADDRESS	4	UCMDECBA	ADDRESS OF DOM REQUEST ECB

24	(18) A-ADDRESS	4	UCMRECBA	POINTER TO CONSOLE RECOVERY ECB
=====				

THE FOLLOWING PART OF THE EIL IS A LIST OF POINTERS TO I/O ECBs FOR EACH CONSOLE DEVICE DEFINED AT SYSGEN. FOR OS/V52, THE LIST CONTAINS A MINIMUM OF 2 ENTRIES. THE LIST IS VARIABLE ONLY AT SYSGEN. THE LAST ENTRY HAS A HIGH-ORDER BYTE OF X'80'.

28	(1C) SIGNED	4	UCMIECBA	I/O ECB PTR LIST ENTRY MAPPING

28	(1C) CHARACTER	1	UCMIECBF	I/O ECB PTR LIST LAST ENTRY FLAG
29	(10) A-ADDRESS	3	UCMIECBP	ADDR OF I/O REQUEST ECB

UCM

UCM
Data Area Descriptions 505

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
UCM INDIVIDUAL DEVICE ENTRY MAP (UCME)				
EACH UCM DEVICE ENTRY DEFINES SUPPORT FOR A CONSOLE UNIT SPECIFIED AT SYSGEN				
0	(0) STRUCTURE	0	UCMLIST	, START OF DEVICE ENTRY

0	(0) A-ADDRESS	4	UCMECB	I/O COMPLETION ECB OR, FOR 2740, ADDRESS OF I/O COMPLETION ECB

4	(4) A-ADDRESS	4	UCHMSBR	ADDRESS OF RESIDENT PROCESSOR MODULE

8	(8) A-ADDRESS	4	UCHDCB	ADDRESS OF DCB

12	(C) A-ADDRESS	4	UCMUCB	UCB NAME (DEV ADDR) OR PTR TO UCB

16	(10) CHARACTER	8	UCHNAME	PROCESSING MODULE NAME

24	(18) BITSTRING	1	UCHSTS	STATUS FLAGS
	1... ..		UCHAF	BIT0 ATTENTION PENDING
	.1.. ..		UCHPF	BIT1 OUTPUT PENDING
	..1.		UCHBF	BIT2 DEVICE BUSY
	...1		UCMCF	BIT3 CLOSE PENDING
	.... 1...		UCMTA	BIT4 OPEN PENDING
	.... .1..		UCMTB	BIT5 DEQ APPROPRIATE OUTPUT QUEUE ENTRIES
	.... ..1.		UCMTD	BIT6 RESERVED
	.... ...1		UCMTC	BIT7 CONSOLE HAS INLINE WTO
25	(19) BITSTRING	1	UCMATR	ATTRIBUTE FLAGS
	1... ..		UCMOF	BIT0 WTO SUPPORT
	.1.. ..		UCHIF	BIT1 ATTENTION SUPPORT
	..1.		UCMXF	BIT2 EXTERNAL INTERRUPT SUPPORT
	...1		UCMUF	BIT3 DEVICE ACTIVE
	.... 1...		UCMLF	BIT4 LOAD FLAG
	.... .1..		UCMAT04	BIT5 DEVICE STATUS TO CHANGE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... .1.		UCMRSV16	BIT6,,C'X' RESERVED
	.... ...1		UCMRSV17	BIT7,,C'X' RESERVED
26	(1A) SIGNED	2	UCMXA	
26	(1A) CHARACTER	1	UCMID	UNIQUE ENTRY I.D.
27	(1B) HEX	1	UCMRSV18	RESERVED

28	(1C) A-ADDRESS	4	UCMXB	ADDRESS OF DCM(GRAPHICS) OR ZERO

32	(20) HEX	2	UCMRTCD	ROUTING CODES ASSIGNED TO THIS CONSOLE
34	(22) HEX	2		RESERVED

36	(24) A-ADDRESS	4	UCMOUTQ	ADDRESS OF CQE QUEUE

40	(28) BITSTRING	2	UCMAUTH	COMMAND CODE AUTHORIZATION

40	(28) HEX	1	UCMAUTHA	1ST BYTE OF COMMAND CODE AUTH FLAGS
	1...		UCMAUTH1	BIT0 COMMAND GROUP 1 (SYS)
	.1..		UCMAUTH2	BIT1 COMMAND GROUP 2 (I/O)
	..1.		UCMAUTH3	BIT2 COMMAND GROUP 3 (CONS)
	...1		UCMRSV19	BIT3,,C'X' RESERVED
	.... 1...		UCMRSV20	BIT4,,C'X' RESERVED
	.... .1..		UCMRSV21	BIT5,,C'X' RESERVED
	.... ..1.		UCMRSV22	BIT6,,C'X' RESERVED
	.... ...1		UCMRSV23	BIT7,,C'X' RESERVED
41	(29) HEX	1	UCMAUTHB	2ND BYTE OF COMMAND CODE AUTH FLAGS
42	(2A) BITSTRING	2	UCMDISP	DISPOSITION FLAGS (2 BYTES)
42	(2A) BITSTRING	1	UCMDISP1	FIRST BYTE DISPOSITION FLAGS
	1...		UCMDISPA	BIT0 MASTER CONSOLE
	.1..		UCMDISPB	BIT1 HARD COPY DEVICE/CONSOLE
	..1.		UCMDISPC	BIT2 GRAPHICS
	...1		UCMDISPD	BIT3 OUTPUT ONLY
	.... 1...		UCMDISPE	BIT4 CONSOLE HAS FULL I/O CAPABILITY

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... .1..		UCMDISPF	BIT5 CONSOLE IS MESSAGE STREAM ONLY
	.... .1.		UCMDISPG	BIT6 CONSOLE IS STATUS DISPLAY ONLY
	.... ...1		UCMDISPH	BIT7 INTEGRATED OPERATOR'S CONSOLE (OS/VS2)
43	(2B) BITSTRING	1	UCMDISP2	SECOND BYTE DISPOSITION FLAGS
	1...		UCMDISPI	BIT0 DISPLAY TIME AND JOB NAME (OS/VS2)
	.1...		UCMDISPJ	BIT1 DISPLAY JOB NAME ONLY (OS/VS2)
	..1.		UCMDISPK	BIT2 JES3 DUMMY CONSOLE FLAG (OS/VS2)
	...1		UCMRV003	BIT3,,C'X' RESERVED
	.... 1...		UCMRV004	BIT4,,C'X' RESERVED
	.... .1..		UCMRV005	BIT5,,C'X' RESERVED
	.... .1.		UCMRV006	BIT6,,C'X' RESERVED
	.... ...1		UCMRV007	BIT7,,C'X' RESERVED

44	(2C) A-ADDRESS	4	UCMALTEN	ADDRESS OF ALTERNATE INPUT UCM ENTRY

48	(30) A-ADDRESS	4	UCMOA0EN	ADDRESS OF OUTPUT/ALTERNATE OUTPUT UCM ENTRY

52	(34) A-ADDRESS	4	UCMWLAST	ADDRESS OF LAST WQE SERVICED IN OUTPUT Q

56	(38) A-ADDRESS	4	UCMCOMPC	ADDRESS OF OTHER DEVICE ENTRY IF THIS IS A COMPOSITE CONSOLE

60	(3C) BITSTRING	2	UCMMSG	MESSAGE FLAGS

60	(3C) BITSTRING	1	UCMMSG1	FIRST BYTE MESSAGE FLAGS
	1...		UCMMSGA	BIT0 'DISPLAY JOB NAMES' REQUESTED

UCM

UCM

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.1..	....		UCMMSGB	BIT1 'DISPLAY STATUS' REQUESTED
..1.	....		UCMRSV70	BIT2,,C'X' RESERVED
...1	....		UCMMSGD	BIT3 RESQID REQUEST
....	1...		UCMRSV71	BIT4,,C'X' RESERVED
....	.1..		UCMMSGF	BIT5 MONITOR SESSIONS
....	.1.		UCMRSV26	BIT6,,C'X' RESERVED
....	...1		UCMRSV27	BIT7,,C'X' RESERVED
61	(3D) BITSTRING	1	UCMMSGG	SECOND BYTE MESSAGE FLAGS
62	(3E) HEX	1	UCMXOR	XOR HACK SET TO ZERO
63	(3F) BITSTRING	1	UCMDEVC	DEVICE CONTROL FLAGS
	1... ..		UCMDEVA	BIT0 FULL SCREEN ON GRAPHICS CONSOLES
	.1..	....	UCMDEVB	BIT1 'PREPARE' COMMAND ISSUED
	..1.	....	UCMDEVCC	BIT2 CONSOLE SWITCH INDICATOR
	...1	....	UCMDEVD	BIT3 DOM ISSUED
	....	1...	UCMDEVE	BIT4 I/O COMPLETE
	....	.1..	UCMDEVF	BIT5 DOM MODIFIED FOR DOM
	....	.1.	UCMDEVG	BIT6 HIO ISSUED ON THE 2740
	....	...1	UCMVHRSN	BIT7 CONSOLE I/O PATH AFFECTED (OS/VS2)

64	(40) A-ADDRESS	4	UCMMLAST	ADDRESS OF LAST MINOR WQE HANDLED

68	(44) A-ADDRESS	4	UCMRCT	POINTER TO RCT

68	(44) HEX	1	UCMSDS5	SDS FLAGS
	1... ..		UCMSDS5A	BIT0 MLWTO LINE NEEDED TO KEEP WRITING
	.1..	....	UCMSDS5B	BIT1 INLINE OUTPUT PENDING
	..1.	....	UCMSDS5C	BIT2 OUT-OF-LINE OUTPUT PENDING
	...1	....	UCMRSV29	BIT3,,C'X' RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... 1...			UCMRSV30	BIT4,,C'X' RESERVED
.... .1..			UCMSDS5F	BIT5 FOR CRT, UCMHLAST VALID
.... .1.			UCMSDS5G	BIT6 I/O HARDWARE IN OUTPUT-ONLY STATUS
.... ...1			UCMRSV31	BIT7,,C'X' RESERVED
69 (45)	A-ADDRESS	3	UCHRCTA	ADDRESS OF RCT

72 (48)	A-ADDRESS	4	UCMFEXTP	ADDRESS OF UCHE FIXED EXTENSION

76 (4C)	SIGNED	4	UCMRSV64	RESERVED
=====				

USER EXIT WORK AREA
NOTE - THIS AREA IS NOT PART OF THE UCM. IT IS A
MAPPING OF THE SPACE GOTTEN AND FREED BY IEAVVWTO.

0 (0)	STRUCTURE	0	UCMEXIT	, START OF USER EXIT WORK AREA

0 (0)	CHARACTER	128	UCMSTXT	MESSAGE TEXT

128 (80)	SIGNED	4	UCMROUTC	ROUTE CODES

132 (84)	SIGNED	4	UCMDESCD	DESCRIPTOR CODES
=====				

UNIT CONTROL MODULE (UCM) FIXED EXTENSION BASE
(PRESENT IN OS/VS2 ONLY)

0 (0)	STRUCTURE	0	UCMFEXTA	, UCM FIXED EXTENSION BASE

0 (0)	CHARACTER	4	UCMFUCMF	ACRONYM IN EBCDIC UCMF-

4 (4)	A-ADDRESS	4	UCMFPPTR	ADDRESS OF UCM PAGEABLE EXTENSION BASE

8 (8)	CHARACTER	8	UCMFMGFS	FLAGS FOR FIXED EXTENSION BASE

8 (8)	BITSTRING	1	UCMFFLG1	MESSAGE FLAGS
1... ..			UCMFMSGE	BIT0 WQE SHORTAGE MESSAGE ISSUED
.1... ..			UCMFMSGA	BIT1 WQE CRITICAL MESSAGE ISSUED

UCM

UCM

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	...1.		UCMFMSGN	BIT2 NO WQE THRESHOLD MESSAGES SHOULD BE ISSUED
	...1		UCMFBR03	BIT3,,C'X' RESERVED
	.... 1...		UCMFBR04	BIT4,,C'X' RESERVED
	.... .1..		UCMFBR05	BIT5,,C'X' RESERVED
	.... ..1.		UCMFBR06	BIT6,,C'X' RESERVED
	.... ...1		UCMFBR07	BIT7,,C'X' RESERVED
9	(9) BITSTRING	1	UCMFFLG2	RESERVED
10	(A) SIGNED	2	UCMFRSV1	RESERVED

12	(C) SIGNED	4	UCMFRSV2	RESERVED

16	(10) SIGNED	2	UCMF60WQ	60% OF WQE LIMIT SPECIFIED AT IPL
18	(12) SIGNED	2	UCMF80WQ	80% OF WQE LIMIT SPECIFIED AT IPL

20	(14) CHARACTER	8	UCMFRSV3	RESERVED

28	(1C) CHARACTER	8	UCMFECBL	ECB LIST THAT IEAVMQRWaits ON IN A NO-CONSOLES CONDITION

28	(1C) A-ADDRESS	4	UCMFXECB	ADDRESS OF EXTERNAL INTERRUPT ECB

32	(20) A-ADDRESS	4	UCMFRECB	ADDRESS OF CONSOLE RECOVERY ECB

32	(20) BITSTRING	1	UCMFRBYT	HIGH-ORDER BYTE OF UCMFRECB
	1... ..		UCMFRB0	BIT0 END OF LIST INDICATOR
33	(21) A-ADDRESS	3	UCMFRAD	ADDRESS OF CONSOLE RECOVERY ECB

36	(24) A-ADDRESS	4	UCMFATCN	ADDRESS OF UCME CANDIDATE FOR NEW MASTER CONSOLE (ATTENTION WAS GENERATED ON THIS DEVICE WHEN IN A NO-CONSOLES

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
40	(28) A-ADDRESS	4	UCMFEIST	ADDRESS OF FIRST UCME FIXED EXTENSION
44	(2C) SIGNED	4	UCMFELEN	LENGTH OF A UCME FIXED EXTENSION
48	(30) A-ADDRESS	4	UCMFEIST	ADDRESS OF LAST UCME FIXED EXTENSION
=====				
UNIT CONTROL MODULE (UCM) PAGEABLE EXTENSION BASE (PRESENT IN OS/VS2 ONLY)				
0	(0) STRUCTURE	0	UCMPEXTA	, UCM PAGEABLE EXTENSION BASE
0	(0) CHARACTER	4	UCMPUCMP	ACRONYM IN EBCDIC UCMP-
4	(4) CHARACTER	16	UCMPDM1	DOM ID'S
4	(4) SIGNED	4	UCMPHQE	HQE CRITICAL MESSAGE DOM ID
8	(8) SIGNED	4	UCMPNMCC	NO MASTER CONSOLE CONDITION MESSAGE DOM ID
12	(C) SIGNED	4	UCMPNCC	NO-CONSOLE CONDITION MESSAGE DOM ID
16	(10) SIGNED	4	UCMPRSV1	RESERVED
20	(14) CHARACTER	28	UCMPRSV2	RESERVED
48	(30) A-ADDRESS	4	UCMPEIST	ADDRESS OF FIRST UCME PAGEABLE EXTENSION
52	(34) SIGNED	4	UCMPELEN	LENGTH OF A UCME PAGEABLE EXTENSION
56	(38) A-ADDRESS	4	UCMPELST	ADDRESS OF LAST UCME PAGEABLE EXTENSION
60	(3C) CHARACTER	4	UCMPEDUM	DUMMY UCME PAGEABLE EXTENSION

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
INDIVIDUAL DEVICE ENTRY (UCME) FIXED EXTENSION (PRESENT IN OS/VS2 ONLY)				
0	(0) STRUCTURE	0	UCMEFEXT	, UCME FIXED EXTENSION

0	(0) BITSTRING	1	UCMEFLG1	FLAGS FOR UCME FIXED EXTENSION
	1... ..		UCMEFLGA	BIT0 IF 1, ATTENTION INDEX IN UCMEFATT IS VALID
	.1.. ..		UCMEFLGB	BIT1 IF 1, UCBSYSR FOR THIS DEVICE WAS FORCED TO 1 AND SHOULD BE RESTORED TO 0
	..1.		UCMEFLGC	BIT2,,C'X' RESERVED
	...1		UCMEFLGD	BIT3,,C'X' RESERVED
	.... 1..		UCMEFLGE	BIT4,,C'X' RESERVED
	.... .1..		UCMEFLGF	BIT5,,C'X' RESERVED
	.... ..1.		UCMEFLGG	BIT6,,C'X' RESERVED
	.... ...1		UCMEFLGH	BIT7,,C'X' RESERVED
1	(1) BITSTRING	1	UCMEFLG2	RESERVED
2	(2) SIGNED	1	UCMEFATT	ATTENTION INDEX. VALID ONLY IF UCMEFLGA IS 1.
3	(3) SIGNED	1	UCMEFSA1	ATTENTION INDEX SAVED BY 1052 DEVICE SERVICE PROCESSOR

4	(4) A-ADDRESS	4	UCMEFPEX	ADDRESS OF UCME PAGEABLE EXTENSION

8	(8) A-ADDRESS	4	UCMEFRV1	RESERVED

OFFSETS TYPE LENGTH NAME DESCRIPTION

=====

INDIVIDUAL DEVICE ENTRY (UCME) PAGEABLE EXTENSION
(PRESENT IN OS/VS2 ONLY)
CURRENTLY THE UCME PAGEABLE EXTENSION DOES NOT REQUIRE ANY
STORAGE AND IS CONSIDERED RESERVED FOR FUTURE USE.

0 (0) STRUCTURE 0 UCMEPEXT , RESERVED

CROSS REFERENCE

UCM	0 (0)	UCMEFSA1	3 (3)
UCMAECB	4 (4)	UCMEIL	0 (0)
UCMAECBA	12 (C)	UCMEPEXT	0 (0)
UCMAF	24 X'80'	UCMEXIT	0 (0)
UCMALTEN	44 (2C)	UCMFATCN	36 (24)
UCMAMFA	68 X'08'	UCMFBR03	8 X'10'
UCMARECB	16 (10)	UCMFBR04	8 X'08'
UCMASCB	280(118)	UCMFBR05	8 X'04'
UCMATR	25 (19)	UCMFBR06	8 X'02'
UCMAT04	25 X'04'	UCMFBR07	8 X'01'
UCMAUTH	40 (28)	UCMFECBL	28 (1C)
UCMAUTHA	40 (28)	UCMFELEN	44 (2C)
UCMAUTHB	41 (29)	UCMFELST	48 (30)
UCMAUTH1	40 X'80'	UCMFEXTA	0 (0)
UCMAUTH2	40 X'40'	UCMFEXTP	72 (48)
UCMAUTH3	40 X'20'	UCMFEIST	40 (28)
UCMBF	24 X'20'	UCMFFLG1	8 (8)
UCMBFEXT	240 (F0)	UCMFFLG2	9 (9)
UCMCF	24 X'10'	UCMFIK	68 X'01'
UCMCMID	88 (58)	UCMFMGFS	8 (8)
UCMCOMPC	56 (38)	UCMFMGSA	8 X'40'
UCNCTID	250 (FA)	UCMFMGSE	8 X'80'
UCNDCB	8 (8)	UCMFMHSGN	8 X'20'
UCNDECB	12 (C)	UCMFPPTR	4 (4)
UCNDECBBA	20 (14)	UCMFRAD	33 (21)
UCNDESCD	132 (84)	UCMFRBYT	32 (20)
UCNDEVA	63 X'80'	UCMFRB0	32 X'80'
UCNDEVB	63 X'40'	UCMFRECB	32 (20)
UCNDEVC	63 (3F)	UCMFRRAD	288(120)
UCNDEVCC	63 X'20'	UCMFRSV1	10 (A)
UCNDEV0	63 X'10'	UCMFRSV2	12 (C)
UCNDEVE	63 X'08'	UCMFRSV3	20 (14)
UCNDEVF	63 X'04'	UCMFUCMF	0 (0)
UCNDEVG	63 X'02'	UCMFUECB	28 (1C)
UCNDISP	42 (2A)	UCMF60WQ	16 (10)
UCNDISPA	42 X'80'	UCMF60WQ	18 (12)
UCNDISFB	42 X'40'	UCMHUCUM	92 (5C)
UCNDISPC	42 X'20'	UCMHRDRT	100 (64)
UCNDISPD	42 X'10'	UCMID	26 (1A)
UCNDISPE	42 X'08'	UCMIECBA	28 (1C)
UCNDISPF	42 X'04'	UCMIECBF	28 (1C)
UCNDISPG	42 X'02'	UCMIECBP	29 (1D)
UCNDISPH	42 X'01'	UCMIF	25 X'40'
UCNDISPI	43 X'80'	UCMJES3T	296(128)
UCNDISPJ	43 X'40'	UCMLECB	12 (C)
UCNDISPK	43 X'20'	UCMLF	25 X'08'
UCNDISP1	42 (2A)	UCMLIST	0 (0)
UCNDISP2	43 (2B)	UCMLOGAD	148 (94)
UCNDOME	76 (4C)	UCMLSTP	20 (14)
UCNECB	0 (0)	UCMIBEND	252 (FC)
UCNEFATT	2 (2)	UCMIBPTR	232 (E8)
UCNEFEXT	0 (0)	UCMIMCENT	0 (0)
UCNEFLGA	0 X'80'	UCMIMCS	68 X'02'
UCNEFLGB	0 X'40'	UCMIMLAST	64 (40)
UCNEFLGC	0 X'20'	UCMIMNECB	212 (D4)
UCNEFLGD	0 X'10'	UCMIMNTR	208 (D0)
UCNEFLGE	0 X'08'	UCMIMODE	68 (44)
UCNEFLGF	0 X'04'	UCMIMQEND	224 (E0)
UCNEFLGG	0 X'02'	UCMIMQNTX	228 (E4)
UCNEFLGH	0 X'01'	UCMIMQPTR	220 (DC)
UCNEFLG1	0 (0)	UCMIMSG	60 (3C)
UCNEFLG2	1 (1)	UCMIMSGA	60 X'80'
UCNEFPEX	4 (4)	UCMIMSGB	60 X'40'
UCNEFRV1	8 (8)	UCMIMSGD	60 X'10'

CROSS REFERENCE

UCHMSGF	60 X'04'	UCHRSV22	40 X'02'
UCHMSG1	60 (3C)	UCHRSV23	40 X'01'
UCHMSG2	61 (3D)	UCHRSV26	60 X'02'
UCHMSTXT	0 (0)	UCHRSV27	60 X'01'
UCHNAME	16 (10)	UCHRSV29	68 X'10'
UCHNIPTR	4 (4)	UCHRSV30	68 X'08'
UCHNPECB	144 (90)	UCHRSV31	68 X'01'
UCHNOACEN	48 (30)	UCHRSV33	8 X'04'
UCHNOECB	8 (8)	UCHRSV34	8 X'02'
UCHNOECBA	16 (10)	UCHRSV35	84 X'01'
UCHMOECBH	264(108)	UCHRSV42	300(12C)
UCHMOECBT	268(10C)	UCHRSV43	300 X'80'
UCHOF	25 X'80'	UCHRSV44	300 X'40'
UCHOGCE	68 X'04'	UCHRSV45	300 X'20'
UCHORECP	272(110)	UCHRSV46	300 X'10'
UCHOUTQ	36 (24)	UCHRSV47	300 X'08'
UCHOWTOR	86 (56)	UCHRSV48	300 X'04'
UCHPDM1	4 (4)	UCHRSV49	300 X'02'
UCHPEDUM	60 (3C)	UCHRSV50	300 X'01'
UCHPELEN	52 (34)	UCHRSV51	301(12D)
UCHPELST	56 (38)	UCHRSV52	301 X'80'
UCHPEXTA	0 (0)	UCHRSV53	301 X'40'
UCHPE1ST	48 (30)	UCHRSV54	301 X'20'
UCHPF	24 X'40'	UCHRSV55	301 X'10'
UCHPNCC	12 (C)	UCHRSV56	301 X'08'
UCHPNMCC	8 (8)	UCHRSV57	301 X'04'
UCHPRFX	0 (0)	UCHRSV58	301 X'02'
UCHPRFXP	164 (A4)	UCHRSV59	301 X'01'
UCHPRSV1	16 (10)	UCHRSV60	302(12E)
UCHPRSV2	20 (14)	UCHRSV61	248 (F8)
UCHPUCMP	0 (0)	UCHRSV62	304(130)
UCHPHQE	4 (4)	UCHRSV64	76 (4C)
UCHNPA	64 (40)	UCHRSV65	158 (9E)
UCHPXB	68 (44)	UCHRSV66	68 X'40'
UCHQRTN	128 (80)	UCHRSV67	70 (46)
UCHRCT	68 (44)	UCHRSV69	140 (8C)
UCHRCTA	69 (45)	UCHRSV70	60 X'20'
UCHRECBA	24 (18)	UCHRSV71	60 X'08'
UCHROUTC	128 (80)	UCHRSV72	152 (98)
UCHRPYI	32 (20)	UCHRSV73	16 (10)
UCHRPYL	1 (1)	UCHRSV74	20 (14)
UCHRPYQ	28 (1C)	UCHRSV75	69 (45)
UCHRP2AD	244 (F4)	UCHRSV76	71 (47)
UCHRQECB	48 (30)	UCHRSV77	84 (54)
UCHRQLM	45 (2D)	UCHRTCD	32 (20)
UCHRQLM1	236 (EC)	UCHRTCT	2 (2)
UCHRQNR	56 (38)	UCHRV001	237 (ED)
UCHRSV01	84 X'80'	UCHRV003	43 X'10'
UCHRSV03	102 (66)	UCHRV004	43 X'08'
UCHRSV04	156 X'20'	UCHRV005	43 X'04'
UCHRSV05	156 X'10'	UCHRV006	43 X'02'
UCHRSV06	156 X'08'	UCHRV007	43 X'01'
UCHRSV07	156 X'04'	UCHRV008	8 X'01'
UCHRSV08	156 X'02'	UCHR9SV	204 (CC)
UCHRSV09	156 X'01'	UCHSAVE0	4 (4)
UCHRSV11	68 X'80'	UCHSAVE4	140 (8C)
UCHRSV14	68 X'10'	UCHSDR	4 (4)
UCHRSV15	3 (3)	UCHSDS1	156 (9C)
UCHRSV16	25 X'02'	UCHSDS1A	156 X'80'
UCHRSV17	25 X'01'	UCHSDS1B	156 X'40'
UCHRSV18	27 (1B)	UCHSDS2	157 (9D)
UCHRSV19	40 X'10'	UCHSDS5	68 (44)
UCHRSV20	40 X'08'	UCHSDS5A	68 X'80'
UCHRSV21	40 X'04'	UCHSDS5B	68 X'40'

CROSS REFERENCE

UCMSDS5C	66 X'20'	UCM1WQLM1	238 (EE)
UCMSDS5F	66 X'04'	UCM1WQNR	58 (3A)
UCMSDS5G	68 X'02'	UCM1WTOQ	24 (18)
UCMSFLG5	84 (54)	UCM1WTOX	80 (50)
UCMSFLG1	84 (54)	UCM1XA	26 (1A)
UCMSFLG2	85 (55)	UCM1XB	28 (1C)
UCMSTS	24 (18)	UCM1XCT	96 (60)
UCMSVA0	4 (4)	UCM1XECB	0 (0)
UCMSVB0	8 (8)	UCM1XECBA	8 (8)
UCMSVC0	12 (C)	UCM1XF	25 X'20'
UCMSVD0	16 (10)	UCM1XOR	62 (3E)
UCMSVE0	20 (14)	UCM1XSA	104 (68)
UCMSVF0	24 (18)	UCM11WD	104 (68)
UCMSVG0	28 (1C)	UCM2DSTR	8 X'10'
UCMSVH0	32 (20)	UCM2DTAK	8 X'20'
UCMSVI0	36 (24)	UCM2EXT	0 (0)
UCMSVJ0	40 (28)	UCM2FEXT	12 (C)
UCMSVK0	44 (2C)	UCM2PST	4 (4)
UCMSVL0	48 (30)	UCM2PTR	160 (A0)
UCMSVM0	52 (34)	UCM2RID	2 (2)
UCMSVN0	56 (38)	UCM2SDWA	8 X'80'
UCMSVO0	60 (3C)	UCM2SENT	8 X'40'
UCMSVP0	64 (40)	UCM2SFLG	8 (8)
UCMSVQ0	68 (44)	UCM2STA	8 (8)
UCMSVR0	72 (48)	UCM2STAA	9 (9)
UCMSWCH	284(11C)	UCM2WD	108 (6C)
UCMSWSA1	132 (84)	UCM2WID	0 (0)
UCMSWSA2	136 (88)	UCM2WTOI	8 X'08'
UCMSYSB	84 X'40'	UCM31ND	112 (70)
UCMSYSC	84 X'20'	UCM41ND	116 (74)
UCMSYSD	84 X'10'	UCM51ND	120 (78)
UCMSYSE	84 X'08'	UCM6WD	124 (7C)
UCMSYSF	84 X'04'		
UCMSYSG	84 X'02'		
UCMSYSI	85 X'80'		
UCMSYSJ	85 X'40'		
UCMSYSK	85 X'20'		
UCMSYSL	85 X'10'		
UCMSYSM	85 X'08'		
UCMSYSN	85 X'04'		
UCMSYSO	85 X'02'		
UCMSYSP	85 X'01'		
UCMTA	24 X'08'		
UCMTB	24 X'04'		
UCMTC	24 X'01'		
UCMTD	24 X'02'		
UCMTPUTA	68 X'20'		
UCMTRECB	216 (08)		
UCMUCB	12 (C)		
UCMUEXIT	97 (61)		
UCMUF	25 X'10'		
UCMVDATA	72 (48)		
UCMVEA	72 (48)		
UCMVEL	80 (50)		
UCMVEZ	76 (4C)		
UCMVHRSN	63 X'01'		
UCMNAKUP	292(124)		
UCMNECBH	256(100)		
UCMNECBT	260(104)		
UCMNLAST	52 (34)		
UCMNRQCB	52 (34)		
UCMNRQCP	276(114)		
UCMNRQEND	60 (3C)		
UCM1WQLM	46 (2E)		

UPTCommon Name: TSO User Profile TableMacro ID: IKJUPTDSECT Name: UPTCreated by: IKJEFLASubpool and Key: Subpool 0 and Key 8Size: 24 bytesPointed to by: PSCBFunction: Contains information stored in UADS, used by LOGON/LOGOFF, TMP, and CPs.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	UPT	

0	(0) SIGNED	4		

0	(0) CHARACTER	2		RESERVED
2	(2) CHARACTER	10	UPTUSER	RESERVED FOR INSTALLATION USE

12	(C) HEX	1	UPTSWS	USERS ENVIRONMENT SWITCHES
	1... ..		UPTRCVR	X'80' EDIT RECOVER OPTION IS REQUESTED
	.1... ..		UPTNPRM	DEFLT X'40' NO PROMPTING IS TO BE DONE
	..1.		UPTMID	X'20' PRINT MESSAGE
	...1		UPTNCOM	IDENTIFIERS X'10' NO USER COMMUNICATION ALLOWED VIA
	.... 1...		UPTPAUS	SEND COMMAND X'08' PAUSE FOR '?' WHEN IN
	.... .1..		UPTALD	NON-INTERACTIVE MODE X'04' ATTN HAS BEEN SPECIFIED AS LINE DELETE
	.... ..1.		UPTMODE	CHAR X'02' MODE MESSAGES DESIRED
	.... ....1		UPTWTP	X'01' WRITE TO PROGRAMMER MESSAGES DESIRED
13	(D) CHARACTER	1	UPTCDEL	CHAR DELETE
14	(E) CHARACTER	1	UPTLDEL	CHARACTER LINE DELETE
15	(F) CHARACTER	1		CHARACTER RESERVED

16	(10) CHARACTER	7	UPTPREFIX	DSNAME PREFIX

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
23	(17) BITSTRING	1	UPTPREFL	LENGTH OF DSNAME PREFIX
=====				

VUNT

Common Name: Volunit Table Entry

Macro ID: IEFZB423

DSECT Name: VOLUNTAB

Created by: IEFAB423, freed by IEFAB490

Subpool and Key: 230 and key 1

Size: 20 bytes

Pointed to by: SVOLUNAD field of SIOT data area.

Function: Defines volume/unit requirements of requests for common allocation.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	28	VOLUNTAB	FORMAT OF VOLUNIT ENTRY
0	(0) UNKNOWN	6	VOLID	VOLUME SERIAL NUMBER
6	(6) UNKNOWN	4	VOLSTAT	STATUS BYTES
6	(6) UNKNOWN	1	VOLSTATA	REQUEST INDICATORS
	1... ..		VOLPUB	REQUEST NEEDS PUBLIC VOLUME
	.1.. ..		VOLPRV	REQUEST NEEDS PRIVATE VOLUME
	..1.		VOLSPEC	REQUEST IS FOR SPECIFIC VOL
	...1		VOLSTG	REQUEST NEEDS STORAGE VOLUME
	.... 1...		VOLNSHR	VOLUME MUST BE NON-SHAREABLE
	.... .1..		VOLRESVE	VOLUM RESERVE WORK BIT
	.... ..1.		VUDADSM	REQUIRES DADSM
	.... ....1		VOLDEFER	DEFER MOUNT REQUEST
7	(7) UNKNOWN	1	VOLSTATB	REQUEST STATUS
	1... ..		VOLALOC	ENTRY HAS BEEN ALLOCATED
	.1.. ..		VOLMNTD	VOL MUST BE MOUNTED BY END OF ALLOCATION
	..1.		VDEVREQD	ETIOT DEVICE ENTRY REQUIRED
	...1		VUPROCED	WORK BIT-AFFINITY PROCESSED
	.... 1...		VUDNALOC	RECOVERY NECESSARY FOR THIS ENTRY
	.... .1..		VUDADSME	RECOVERABLE DADSM ERROR
	.... ..1.		VUVINELG	ERROR HAS OCCURRED VOLUME IS MOUNTED ON
	.... ....1		VUAFFWRK	INELIGIBLE OR UNLOCKED UNIT VOLUME AFFINITY WORK BIT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
8	(8) UNKNOWN	1	VOLSTATC	DEVICE CLASS
	1... ..		VOLTAREQ	TAPE REQUEST
	.1... ..		VOLCOREQ	COM. REQUEST
	..1... ..		VOLDAREQ	DIRECT ACCESS
	...1		VOLGRREQ	REQUEST
	.... 1...		VOLURREQ	GRAPHICS
	.... .1..			REQUEST
	.... ..1.			UNIT RECORD
	.... ...1			REQUEST
	.... ....1			RESERVED
9	(9) UNKNOWN	1	VOLSTATD	RESERVED
	1... ..		VUMUGDON	REQUEST STATUS
	.1... ..		VUREALOC	MULTI-UNIT/GEN
	..1... ..		VUDMNDOF	WORK BIT
	...1		VUDMNDAL	REARRANGE WORK
	.... 1...		VUUNALSW	BIT
	.... .1..		VUDMUNIQ	DEMAND REQ DEV
	.... ..1.		VUVLUNIQ	OS OFFLINE
	.... ...1		VURCVYPR	DEMAND REQ DEV
	.... ....1			IS ALLOC'D
	.... ..1.			MUST BACKOUT
	.... ...1			ALLOCATION
	.... ....1			FIRST REQ FOR
	.... ..1.			UNAVAILABLE
	.... ...1			DEMANDED UNIT
	.... ....1			FIRST REQ WITH
	.... ..1.			VALIDITY CHECK
	.... ...1			FOR THIS
	.... ....1			VOLUME
	.... ..1.			RECOVERY
	.... ...1			PROCESSING
	.... ....1			DONE
10	(A) UNKNOWN	2	VOLUNTID	UNIT
				IDENTIFIER

12	(C) UNKNOWN	4	VOLALGTP	ADDR OF
				ALGORITHM
				ENTRY

16	(10) UNKNOWN	4	VOLSIOTP	SIOT ADDRESS

20	(14) UNKNOWN	4	VUUCBP	PTR TO UCB OR
				PTR TO UCB
				POOL IF SU18
				IN SYSTEM

24	(18) UNKNOWN	4	VUGRID	PTR GROUP ID
				OR PTR TO THE
				GROUP ID LIST
				IF SU18 IS IN
				THE SYSTEM

0	(0) UNKNOWN	4	VUPOOL	UCB POOL

0	(0) UNKNOWN	4	VUPOOL#	# OF UCB'S IN
				POOL

4	(4) UNKNOWN	0	VUCBS	UCB'S IN POOL

0	(0) UNKNOWN	0	VUGRLST	GROUP ID LIST

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	0	VUGRLENT	GROUP LIST ENTRIES

0	(0) UNKNOWN	4	VUGRLIDS	GROUP IDS

4	(4) UNKNOWN 1... ..	1	VUGRFLG VUGRALCD	FLAGS UCB ALLOC'D BIT
5	.111 1111 (5) UNKNOWN	3		RESERVED RESERVED

WMSTCommon Name: SRM Workload Manager Specifications TableMacro ID: IRAMWSTDSECT Name: WMSTCreated by: IEAVNP10, IEEMB812Subpool and Key: 245 and Key 0Size: 112 bytesPointed to by: RMCTWMST field of the RMCT data area.Serialization: SRM LockFunction: Contains the information required by the various SRM routines which reference the Installation Performance Specification (IPS).

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) UNKNOWN	112	WMST	
0	(0) UNKNOWN	4	WMSTNAME	TABLE IDENTIFICATION 'WMST'
4	(4) UNKNOWN	2	WMSTID	PERF SPECIFICATION ID
6	(6) UNKNOWN	2	WMSTWLO	LOWEST WORKLOAD LEVEL SPEC'D
8	(8) UNKNOWN	4	WMSTPGVT	PERF GRP VECTOR TABLE ADDR
12	(C) UNKNOWN	4	WMSTPGVS	PERF GRP VECTOR TABLE SIZE
16	(10) UNKNOWN	4	WMSTPGDT	1ST PERF GRP DESCRIPTOR ADDR
20	(14) UNKNOWN	4	WMSTPGDS	TOT PERF GRP DESCRIPTOR SIZE
24	(18) UNKNOWN	4	WMSTPOVT	PERF OBJ VECTOR TABLE ADDR
28	(1C) UNKNOWN	4	WMSTPOVS	PERF OBJ VECTOR TABLE SIZE
32	(20) UNKNOWN	4	WMSTPODT	1ST PERF OBJ DESCRIPTOR ADDR
36	(24) UNKNOWN	4	WMSTPODS	TOT PERF OBJ DESCRIPTOR SIZE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
40	(28) UNKNOWN	4	WMSTDMDT	FIRST DMN DESC ADDR
44	(2C) UNKNOWN	4	WMSTDMDS	TOT DOMAIN DESC SIZE
48	(30) UNKNOWN	4	WMSTDMVT	DMN VECTOR TABLE ADDR
52	(34) UNKNOWN	4	WMSTDMVS	DMN VECTOR TABLE SIZE
56	(38) UNKNOWN	4	WMSTDMDE	DMN TAB LAST NTRY ADR
60	(3C) UNKNOWN	2	WMSTWLHI	HIGHEST WORKLD LEV SP
62	(3E) UNKNOWN	2	WMSTPGHI	HIGH PERF GROUP NUMBER
64	(40) UNKNOWN	2	WMSTPGPC	TOTL PERF GROUP PERIOD COUNT
66	(42) UNKNOWN	2	WMSTMNC	TOT DOMAIN COUNT
68	(44) UNKNOWN	4	WMSTCPU	CPU SERVICE COEFFICIENT
72	(48) UNKNOWN	4	WMSTIOC	IOC SERVICE COEFFICIENT
76	(4C) UNKNOWN	4	WMSTMSO	MSO SERVICE COEFFICIENT
80	(50) UNKNOWN	1	WMSTREAL	REAL TIME INDICATOR
81	(51) UNKNOWN	3	WMSTRSVD	RESERVED
84	(54) UNKNOWN	4	WMSTSET	SET PROCS ROUTINE ADDR
88	(58) UNKNOWN	4	WMSTSTCB	SET PROCS TASK ADDRESS
92	(5C) UNKNOWN	4	WMSTNWST	SET PROCS NXT WMST ADR
96	(60) UNKNOWN	4	WMSTSECB	SET PROCS ECB
100	(64) UNKNOWN	4	WMSTIPC	CPU SERVICE COEF.
104	(68) UNKNOWN	4	WMSTIPI	I/O SERVICE COEF.
108	(6C) UNKNOWN	4	WMSTIPM	MSO SERVICE COEF.
112	(70) UNKNOWN	0	WMSTEND	END OF WMST

WQECommon Name: Write-To-Operator Queue ElementMacro ID: IHAWQEDSECT Name: WQECreated by: IEAVVWTOSubpool and Key: 231 and key 0Size: 192 bytesPointed to by: OREWQE field of the ORE data area

SSHTWQE field of the SSOB data area (major WQE)

SSHTMIN field of the SSOB data area (minor WQE)

UCMWTOQ field of the UCM data area (first WQE)

UCMWQEND field of the UCM data area (last WQE)

WQELKP field of the WQE data area (next WQE)

WMNMNX2 field of the (minor) WQE data area (next minor WQE)

WMJMMIN field of the (major) WQE data area (first minor WQE)

CQEWQE field of the CQE data area

Serialization: Local and CMS locksFunction: A WQE is created for every WTO/R request. It contains information about the WTO/R issuer, the target of the request, and the text of the request.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	WQE	
0	(0) A-ADDRESS	4	WQELKP	LINKAGE POINTER
0	(0) SIGNED	1	WQEUSE	WQE USE COUNT
1	(1) A-ADDRESS	3	WQELKPA	ADDRESS OF NEXT WQE IN CHAIN
4	(4) SIGNED	4	WQENBR	MESSAGE LENGTH (CCH COUNT FIELD)
8	(8) CHARACTER	4	WQERR	ROUTE CODES YO2710
.12	(C) CHARACTER	1	WQEPAD	BLANK
13	(D) CHARACTER	8	WQETS	TIME STAMP
21	(15) CHARACTER	1	WQEPAD1	BLANK
22	(16) CHARACTER	8	WQEJOBNM	JOBNAME INSERTED BY SUBSYSTEM
30	(1E) CHARACTER	1	WQEPAD2	BLANK
31	(1F) CHARACTER	128	WQETXT	MESSAGE TEXT (MAX 128 BYTES)
31	(1F) CHARACTER	127		
158	(9E) CHARACTER	1	WQETXTL	LAST BYTE OF MESSAGE TEXT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
159	(9F) CHARACTER	1	WQEPAD3	EXTRA BYTE SO REMAINING FIELDS ARE ON A WORD BOUNDRY

160	(A0) BITSTRING	1	WQEXA	DISPOSITION FLAGS
	1...		WQEPURGE	BIT0 PURGE THIS WQE
	.1.		WQEQFHC	BIT1 QUEUE FOR HARD COPY
	..1.		WQEORE	BIT2 ORE EXISTS FOR THIS WQE
	...1		WQEQDFHC	BIT3 QUEUED FOR HARD COPY
	.... 1...		WQEWTOR	BIT4 WQE CREATED FOR WTOR
	.... .1..		WQEDOM	BIT5 MESSAGE TO BE DOM'ED
	.... ..1.		WQESUSP	BIT6 PROCESSING TEMPORARILY SUSPENDED
	.... ....1		WQEAUTH	BIT7 MESSAGE ISSUED BY AUTHORIZED USER
161	(A1) CHARACTER	2	WQEASID	ASID OF USER
163	(A3) BITSTRING	1	WQEAVAL	BUFFER STATUS FLAGS
	1...		WQEBUFA	BIT0 BUFFER IS FREE
	.1.		WQEBUFB	BIT1 BUFFER IS IN USE
	..1.		WQEBUFC	BIT2 READY FOR HARDCOPY
	...1		WQEBUFD	BIT3 BUFFER OBTAINED DYNAMICALLY
	.... 1...		WQEBUFE	BIT4 BUFFER HAS BEEN SERVICED
	.... .1..		WQEBUFF	BIT5 TPUT TO DO
	.... ..1.		WQERSV06	BIT6,,C'X' RESERVED
	.... ....1		WQERSV07	BIT7,,C'X' RESERVED

164	(A4) SIGNED	4	WQETCB	POINTER TO USER'S TCB

168	(A8) SIGNED	1	WQERTCT	ROUTED WQE COUNT
169	(A9) SIGNED	3	WQESEQN	24-BIT ID SEQUENCE NUMBER

172	(AC) BITSTRING	2	WQEMCSF	MCS FLAGS

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
172	(AC) BITSTRING	1	WQEMCSF1	FIRST BYTE OF MCS FLAGS
	1... ..		WQEMCSA	BIT0 ROUTING AND DESCRIPTOR CODE FIELDS EXIST
	.1... ..		WQEMCSB	BIT1 QUEUE AT LEAST TO UCM ENTRY PASSED IN REG 0 (IF THE CONSOLE IS ACTIVE)
	..1.		WQEMCSC	BIT2 COMMAND RESPONSE (INCLUDES HARD COPY)
	...1		WQEMCSD	BIT3 MESSAGE TYPE FLAGS FIELD EXISTS
	.... 1...		WQEMCSE	BIT4 THIS WTO IS A REPLY TO A WTOR
	.... .1..		WQEMCSFF	BIT5 BROADCAST TO ALL ACTIVE CONSOLES
	.... ..1.		WQEMCSG	BIT6 QUEUE FOR HARD COPY ONLY
	.... ...1		WQEMCSH	BIT7 QUEUE UNCONDITIONALLY TO UCM ENTRY PASSED IN REG 0
173	(AD) BITSTRING	1	WQEMCSF2	SECOND BYTE OF MCS FLAGS
	1... ..		WQEMCSI	BIT0 NO TIME STAMP
	.1... ..		WQEMCSJ	BIT1 MUST BE ZERO
	..1.		WQEMCSK	BIT2 SUBSYSTEM USE ONLY
	...1		WQERSV09	BIT3,, 'X' RESERVED
	.... 1...		WQERSV10	BIT4,, 'X' RESERVED
	.... .1..		WQEMCSN	BIT5 BYPASS QUEUING TO HARD COPY (FOR USERS OPERATING IN PROTECT KEY 0 ONLY)
	.... ..1.		WQEMCSO	BIT6 RESERVED FOR DOM FUNCTION
	.... ...1		WQEMCSP	BIT7 RESERVED FOR GRAPHICS MESSAGE TYPE FLAGS
174	(AE) BITSTRING	2	WQEMSGTP	MESSAGE TYPE FLAGS
174	(AE) BITSTRING	1	WQEMSGT1	FIRST BYTE OF MESSAGE TYPE FLAGS
	1... ..		WQEMSGTA	BIT0 DISPLAY JOB NAMES

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.1..		WQEMSGTB	BIT1 DISPLAY STATUS
	..1.		WQEMSGTC	BIT2 MONITOR ACTIVE
	...1		WQEMSGTD	BIT3 INDICATES EXISTENCE OF QID FIELD IN WPL (VS1)
	.... 1...		WQERSV13	BIT4,,C'X' RESERVED
	.... .1..		WQEMSGTF	BIT5 MONITOR SESS
	.... ..1.		WQERSV14	BIT6,,C'X' RESERVED
	.... ...1		WQERSV15	BIT7,,C'X' RESERVED
175	(AF) BITSTRING	1	WQEMSGT2	SECOND BYTE OF MESSAGE TYPE FLAGS

176	(B0) BITSTRING	2	WQEROUT	ROUTING CODES THESE CODES INDICATE THE FUNCTIONAL AREA OR AREAS TO WHICH A MESSAGE IS TO BE SENT.

176	(B0) BITSTRING	1	WQEROUT1	1ST BYTE OF ROUTING CODES
	1...		WQEROUTA	BIT0 MASTER CONSOLE
	.1..		WQEROUTB	BIT1 MASTER CONSOLE INFORMATIONAL
	..1.		WQEROUTC	BIT2 TAPE POOL
	...1		WQEROUTD	BIT3 DIRECT ACCESS POOL
	.... 1...		WQEROUTE	BIT4 TAPE LIBRARY
	.... .1..		WQEROUTF	BIT5 DISK LIBRARY
	.... ..1.		WQEROUTG	BIT6 UNIT RECORD POOL
	.... ...1		WQEROUTH	BIT7 TELEPROCESSING CONTROL
177	(B1) BITSTRING	1	WQEROUT2	2ND BYTE OF ROUTING CODES
	1...		WQEROUTI	BIT0 SYSTEM SECURITY
	.1..		WQEROUTJ	BIT1 SYSTEM/ERROR MAINTENANCE
	..1.		WQEROUTK	BIT2 PROGRAMMER INFORMATION
	...1		WQEROUTL	BIT3 EMULATOR INFORMATION
	.... 1...		WQEROUTH	BIT4 USER ROUTING CODE
	.... .1..		WQEROUTN	BIT5 USER ROUTING CODE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... .1.		WQEROUTO	BIT6 USER ROUTING CODE
	.... .1		WQERSV16	BIT7,,C'X' RESERVED
178	(B2) HEX	2	WQERSV17	RESERVED
180	(B4) SIGNED	1	WQEUCMID	UNIQUE UCM ENTRY ID
181	(B5) SIGNED	1	WQERSV18	RESERVED
182	(B6) CHARACTER	2	WQERPYID	REPLY ID
184	(B8) BITSTRING	2	WQEDESCD	DESCRIPTOR CODES
184	(B8) BITSTRING	1	WQEDC1	FIRST BYTE OF DESCRIPTOR CODES
	1...		WQEDCA	BIT0 SYSTEM FAILURE MESSAGE
	.1..		WQEDCB	BIT1 IMMEDIATE ACTION REQUIRED MESSAGE
	..1.		WQEDCC	BIT2 EVENTUAL ACTION REQUIRED MESSAGE
	...1		WQEDCD	BIT3 SYSTEM STATUS MESSAGE
	..1. 1...		WQEDCE	BIT4 IMMEDIATE COMMAND RESPONSE MESSAGE
	.... .1..		WQEDCF	BIT5 JOB STATUS MESSAGE
	.... .1.		WQEDCG	BIT6 APPLICATION PROGRAM/PROCESS OR MESSAGE
	.... .1		WQEDCH	BIT7 OUT-OF-LINE MESSAGE
185	(B9) BITSTRING	1	WQEDC2	SECOND BYTE OF DESCRIPTOR CODES
	1...		WQEDCI	BIT0 DESCRIPTOR CODE 9
	.1..		WQEDCJ	BIT1 DESCRIPTOR CODE 10
	..1.		WQERSV20	BIT2,,C'X' RESERVED
	...1		WQERSV21	BIT3,,C'X' RESERVED
	.... 1...		WQERSV22	BIT4,,C'X' RESERVED
	.... .1..		WQERSV23	BIT5,,C'X' RESERVED
	.... .1.		WQERSV24	BIT6,,C'X' RESERVED
	.... .1		WQERSV25	BIT7,,C'X' RESERVED

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
186	(BA) HEX	2	WQERSV26	RESERVED
188	(BC) SIGNED	4	WQEJSTCB	ADDRESS OF JOB STEP TCB
=====				
MAJOR WQE				
0	(0) STRUCTURE	0	WQEMAJ	, MAJOR WQE
0	(0) A-ADDRESS	4	WMJMEXT	POINTER TO NEXT WQE
0	(0) SIGNED	1	WMJMUC	USE COUNT
1	(1) A-ADDRESS	3	WMJMEXTA	ADDRESS OF NEXT WQE
4	(4) BITSTRING	1	WMJMMLW	MLWTO FLAGS
	1... ..		WMJMMLWA	BIT0 DO NOT QUEUE MLWTO TO CONSOLES
	.1.. ..		WMJMMLWB	BIT1 MAJOR WQE
	..1.		WMJMMLWC	BIT2 MINOR WQE
	...1		WMJMMLWD	BIT3 CHAIN ALTERED
	.... 1...		WMJMMLWE	BIT4 WTL ISSUED
	.... .1..		WMJMMLWF	BIT5 QUEUEING TO START AT TOP OF CHAIN
	.... ..1.		WMJMMLWG	BIT6 SERVICE THIS CHAIN
	.... ...1		WMJMMLWH	BIT7 MINOR WQE QUEUED HAS NO TEXT
5	(5) CHARACTER	1	WMJMAREA	AREA ID
6	(6) SIGNED	2	WMJMXTL	LENGTH OF TEXT
8	(8) CHARACTER	4	WMJMRR	ROUTE CODES
12	(C) CHARACTER	1	WMJMPAD	BLANK
13	(D) CHARACTER	8	WMJMST	TIME STAMP
21	(15) CHARACTER	1	WMJMPAD1	BLANK
22	(16) CHARACTER	8	WMJMJBNM	JOBNAME INSERTED BY SUBSYSTEM
30	(1E) CHARACTER	1	WMJMPAD2	BLANK
31	(1F) CHARACTER	72	WMJMXTX	MESSAGE TEXT (MAXIMUM OF 72 BYTES)
103	(67) CHARACTER	4	WMJMHCID	HARDCOPY ID
107	(6B) CHARACTER	1	WMJMPAD3	BLANK INSERTED SO THAT REMAINING FIELDS ARE ON A WORD BOUNDRY.
108	(6C) SIGNED	4	WMJMRESA(2)	DUMMY MINOR CREATED BY PURGE OS/VS2
116	(74) SIGNED	4	WQERSV29	RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
120	(78) SIGNED	2	WQERSV30	RESERVED
122	(7A) BITSTRING	2	WMJMSEB	LINE CONTROL FLAGS
122	(7A) BITSTRING	1	WMJMSEB1	1ST BYTE OF LINE CONTROL FLAGS
	1... ..		WMJMSEBA	BIT0 C LINE IN MAJOR WQE
	.1.. ..		WMJMSEBB	BIT1 ONE LABEL LINE FOUND
	..1.		WMJMSEBC	BIT2 TWO LABEL LINES FOUND
	...1		WMJMSEBD	BIT3 LAST TYPE WAS CONTROL LINE
	.... 1...		WMJMSEBE	BIT4 LAST TYPE WAS LABEL LINE
	.... .1..		WQERSV31	BIT5,,C'X' RESERVED
	.... ..1.		WQERSV32	BIT6,,C'X' RESERVED
	.... ...1		WQERSV33	BIT7,,C'X' RESERVED
123	(7B) BITSTRING	1	WMJMSEB2	2ND BYTE OF LINE CONTROL FLAGS

124	(7C) BITSTRING	8	WMJMCONS	FRAME CONTROL BITS

132	(84) HEX	2	WQERSV34	RESERVED WMJMRESB***
134	(86) BITSTRING	2	WMJMPTY	LINE TYPE FLAGS
134	(86) BITSTRING	1	WMJMPTY1	1ST BYTE OF LINE TYPE FLAGS
	1... ..		WMJMPTYA	BIT0 CONTROL LINE
	.1.. ..		WMJMPTYB	BIT1 LABEL LINE
	..1.		WMJMPTYC	BIT2 DATA LINE
	...1		WMJMPTYD	BIT3 END LINE
	.... 1...		WQERSV35	BIT4,,C'X' RESERVED
	.... .1..		WQERSV36	BIT5,,C'X' RESERVED
	.... ..1.		WQERSV37	BIT6,,C'X' RESERVED
	.... ...1		WQERSV38	BIT7,,C'X' RESERVED
135	(87) BITSTRING	1	WMJMPTY2	2ND BYTE OF LINE TYPE FLAGS

136	(88) A-ADDRESS	4	WMJMMIN	ADDRESS OF FIRST MINOR WQE

140	(8C) BITSTRING	4	WMJMAECB	ECB USED IN MLWTO PROCESSING

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
144	(90) CHARACTER	4	WMJMSGN	MLWTO ID
148	(94) BITSTRING	1	WMJMECBF	ECB FLAGS
	1... ..		WMJMWAIT	BIT0 USER IS WAITING ON WMJMAECB
	.1.. ..		WMJMMAJD	BIT1 SUBSYSTEM OR USERS EXIT ASKED TO DELETE THIS MLWTO
	..1.		WQERSVD2	BIT2,,C'X' RESERVED
	...1		WQERSVD3	BIT3,,C'X' RESERVED
	.... 1...		WQERSVD4	BIT4,,C'X' RESERVED
	.... .1..		WQERSVD5	BIT5,,C'X' RESERVED
	.... ..1.		WQERSVD6	BIT6,,C'X' RESERVED
	.... ...1		WQERSVD7	BIT7,,C'X' RESERVED
149	(95) HEX	3	WQERSVD8	RESERVED
152	(98) SIGNED	4	WQERSVA4	RESERVED
156	(9C) SIGNED	4	WQERSVA5	RESERVED
160	(A0) BITSTRING	1	WMJMDSF	DISPOSITION FLAGS
	1... ..		WMJMDSFA	BIT0 PURGE THIS WQE
	.1.. ..		WMJMDSFB	BIT1 QUEUE WQE TO HARDCOPY
	..1.		WMJMDSFC	BIT2 MUST BE ZERO
	...1		WMJMDSFD	BIT3 QUEUED TO HARDCOPY
	.... 1...		WMJMDSFE	BIT4 MUST BE ZERO
	.... .1..		WMJMDSFF	BIT5 MESSAGE TO BE DOM'ED
	.... ..1.		WMJMDSFG	BIT6 PROCESSING TEMPORARILY SUSPENDED
	.... ...1		WMJMDSFH	BIT7 MSG ISSUED BY AUTH USER
161	(A1) CHARACTER	2	WMJMASID	ASID OF USER
163	(A3) BITSTRING	1	WMJMBUF	BUFFER STATUS FLAGS
	1... ..		WMJMBUFA	BIT0 WQE AVAILABLE
	.1.. ..		WMJMBUFB	BIT1 WQE IN USE
	..1.		WMJMBUFC	BIT2 READY FOR HARDCOPY
	...1		WMJMBUFD	BIT3 WQE ACQUIRED BY GETMAIN

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... 1...		WMJMBOFE	BIT4 WQE SERVICED
	.... .1..		WMJMBOFF	BIT5 TPUT TO DO
	.... .1.		WMJMBOFG	BIT6 TPUT DONE
	.... ...1		WQERSV45	BIT7,,C'X' RESERVED

164	(A4) SIGNED	4		

164	(A4) A-ADDRESS	4	WMJMTCB	ADDRESS OF ISSUER'S TCB

168	(A8) SIGNED	1	WMJMRTCT	ROUTED COUNT
169	(A9) SIGNED	3	WMJMSEQ	SEQUENCE NUMBER

172	(AC) BITSTRING	2	WMJMCS	MCS FLAGS

172	(AC) BITSTRING	1	WMJMCS1	1ST BYTE OF MCS FLAGS
	1...		WMJMCS1A	BIT0 ROUTE AND DESCRIPTOR CODES EXIST
	.1..		WMJMCS1B	BIT1 QUEUE BY ID TO ACTIVE CONSOLE
	..1.		WMJMCS1C	BIT2 COMMAND RESPONSE
	...1		WMJMCS1D	BIT3 MESSAGE TYPE FIELD PRESENT
	.... 1...		WMJMCS1E	BIT4 ACCEPTED REPLY TO A WTOR
	.... .1..		WMJMCS1F	BIT5 BROADCAST (ROUTE TO ALL ACTIVE CONSOLES)
	.... .1.		WMJMCS1G	BIT6 QUEUE TO HARDCOPY ONLY
	.... ...1		WMJMCS1H	BIT7 QUEUE UNCONDITIONALLY BY ID TO CONSOLE
173	(AD) BITSTRING	1	WMJMCS2	2ND BYTE OF MCS FLAGS
	1...		WMJMCS2A	BIT0 DO NOT TIME STAMP
	.1..		WMJMCS2B	BIT1 MLWTO
	..1.		WMJMCS2C	BIT2 SUBSYSTEM USE ONLY
	...1		WQERSV47	BIT3,,C'X' RESERVED
	.... 1...		WQERSV48	BIT4,,C'X' RESERVED
	.... .1..		WMJMCS2F	BIT5 BYPASS HARDCOPY QUEUEING
	.... .1.		WQERSV49	BIT6,,C'X' RESERVED
	.... ...1		WQERSV11	BIT7,,C'X' RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
174	(AE) BITSTRING	2	WMJMMT	MESSAGE TYPE FLAGS
174	(AE) BITSTRING	1	WMJMMT1	1ST BYTE OF MESSAGE TYPE FLAGS
	1...		WMJMMT1A	BIT0 DISPLAY JOBNAMES
	.1..		WMJMMT1B	BIT1 DISPLAY STATUS
	..1.		WQERSVA6	BIT2,, 'X' RESERVED WMJMMTIC***
	...1		WMJMMTID	BIT3 MUST BE ZERO
	.... 1...		WQERSV50	BIT4,, 'X' RESERVED
	.... .1..		WMJMMT1F	BIT5 MONITOR SESS
	.... ..1.		WQERSV51	BIT6,, 'X' RESERVED
	.... ...1		WQERSV52	BIT7,, 'X' RESERVED
175	(AF) BITSTRING	1	WMJMMT2	2ND BYTE OF MESSAGE TYPE FLAGS

176	(B0) BITSTRING	4	WMJMRCT	ROUTING CODES

176	(B0) BITSTRING	1	WMJMRCT1	1ST BYTE OF ROUTING CODES
	1...		WMJMRCTA	BIT0 MASTER CONSOLE
	.1..		WMJMRCTB	BIT1 MASTER CONSOLE
	..1.		WMJMRCTC	INFORMATIONAL
	...1		WMJMRCTD	BIT2 TAPE POOL
	.... 1...		WMJMRCTE	BIT3 DIRECT ACCESS POOL
	.... .1..		WMJMRCTF	BIT4 TAPE LIBRARY
	.... ..1.		WMJMRCTG	BIT5 DISK LIBRARY
	.... ...1		WMJMRCTH	BIT6 UNIT RECORD POOL
				BIT7 TELEPROCESSING CONTROL
177	(B1) BITSTRING	1	WMJMRCT2	2ND BYTE OF ROUTING CODES
	1...		WMJMRCTI	BIT0 SYSTEM SECURITY
	.1..		WMJMRCTJ	BIT1 SYSTEM/ERROR MAINTENANCE
	..1.		WMJMRCTK	BIT2 PROGRAMMER INFORMATION
	...1		WMJMRCTL	BIT3 EMULATOR INFORMATION
	.... 1...		WMJMRCTM	BIT4 USER ROUTING CODE
	.... ..1..		WMJMRCTN	BIT5 USER ROUTING CODE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... ..1.		WMJMRCT0	BIT6 USER ROUTING CODE
	.... ....1		WQERSV53	BIT7,,C'X' RESERVED
178	(B2) BITSTRING	1	WMJMRCT3	3RD BYTE OF ROUTING CODES
179	(B3) BITSTRING	1	WMJMRCT4	4TH BYTE OF ROUTING CODES

180	(B4) CHARACTER	1	WMJMUID	UCM ENTRY ID
181	(B5) HEX	3	WQERSV54	RESERVED WMJMRESC*** AND WMJMLSQA***

184	(B8) BITSTRING	4	WMJMDEC	DESCRIPTOR CODES

184	(B8) BITSTRING	1	WMJMDEC1	1ST BYTE OF DESCRIPTOR CODES
	1...		WMJMDECA	BIT0 SYSTEM FAILURE MESSAGE
	.1..		WMJMDECB	BIT1 IMMEDIATE ACTION REQUIRED MESSAGE
	..1.		WMJMDECC	BIT2 EVENTUAL ACTION REQUIRED MESSAGE
	...1		WMJMDECD	BIT3 SYSTEM STATUS MESSAGE
	.... 1...		WMJMDECE	BIT4 IMMEDIATE COMMAND RESPONSE MESSAGE
	.... .1..		WMJMDEC F	BIT5 JOB STATUS MESSAGE
	.... ..1.		WMJMDECG	BIT6 APPLICATION PROGRAM/PROCESS OR MESSAGE
	.... ....1		WMJMDECH	BIT7 OUT-OF-LINE MESSAGE
185	(B9) BITSTRING	1	WMJMDEC2	2ND BYTE OF DESCRIPTOR CODES
	1...		WMJMDECI	BIT0 DESCRIPTOR CODE 9
	.1..		WMJMDECJ	BIT1 DESCRIPTOR CODE 10
	..1.		WQERSV56	BIT2,,C'X' RESERVED
	...1		WQERSV57	BIT3,,C'X' RESERVED
	.... 1...		WQERSV58	BIT4,,C'X' RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... .1..		WQERSV59	BIT5,,C'X' RESERVED
	.... ..1.		WQERSV60	BIT6,,C'X' RESERVED
	.... ...1		WQERSV61	BIT7,,C'X' RESERVED
186	(BA) BITSTRING	1	WMJMDEC3	3RD BYTE OF DESCRIPTOR CODES
187	(BB) BITSTRING	1	WMJMDEC4	4TH BYTE OF DESCRIPTOR CODES

188	(BC) SIGNED	4	WMJMTCB	ADDRESS OF JOB STEP TCB
=====				
MINOR WQE				
0	(0) STRUCTURE	0	WQEMIN	, MINOR WQE

0	(0) A-ADDRESS	4	WMNMEXT	POINTER TO SECOND HALF OF WQE

0	(0) SIGNED	1	WMNMUC1	USE COUNT 1
1	(1) A-ADDRESS	3	WMNMNX1	ADDRESS OF SECOND HALF OF WQE OR ZERO

4	(4) BITSTRING	1	WMNMML1	MLWTO FLAGS FOR FIRST MESSAGE
	1...		WQERSV62	BIT0,,C'X' RESERVED
	.1..		WMNMML1B	BIT1 MAJOR WQE
	..1.		WMNMML1C	BIT2 MINOR WQE
	...1		WMNMML1D	BIT3 CHAIN ALTERED
	.... 1...		WMNMML1E	BIT4 WTL ISSUED
	.... .1..		WMNMML1F	BIT5 MINOR WQE FOR ABEND
	.... ..1.		WMNMML1G	BIT6 SERVICE THIS CHAIN
	.... ...1		WMNMML1H	BIT7 MINOR WQE ACQUIRED BY GETMAIN
5	(5) BITSTRING	1	WMNMLT1	LINE TYPE FLAGS FOR FIRST MESSAGE
	1...		WMNMLT1A	BIT0 CONTROL LINE
	.1..		WMNMLT1B	BIT1 LABEL LINE
	..1.		WMNMLT1C	BIT2 DATA LINE
	...1		WMNMLT1D	BIT3 END INDICATOR
	.... 1...		WQERSV63	BIT4,,C'X' RESERVED
	.... .1..		WQERSV64	BIT5,,C'X' RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... .1.		WQERSV65	BIT6,,C'X' RESERVED
	.... .1		WQERSV66	BIT7,,C'X' RESERVED
6	(6) HEX	1	WQERSV67	RESERVED
7	(7) SIGNED	1	WMNMTL1	LENGTH OF FIRST MESSAGE TEXT

8	(8) CHARACTER	4	WMNMHCT1	HARDCOPY ID FOR FIRST MESSAGE

12	(C) CHARACTER	72	WMNMTXT1	FIRST MESSAGE TEXT (MAX 72 BYTES)

84	(54) BITSTRING	1	WMNMST1	STATUS FLAGS
	1...		WMNMTPD1	BIT0 TPUT DONE
	.1..		WQERSVA8	BIT1,,C'X' RESERVED
	..1.		WQERSVA9	BIT2,,C'X' RESERVED
	...1		WQERSVB1	BIT3,,C'X' RESERVED
	.... 1..		WQERSVB2	BIT4,,C'X' RESERVED
	.... .1..		WQERSVB3	BIT5,,C'X' RESERVED
	.... .1.		WQERSVB4	BIT6,,C'X' RESERVED
	.... .1		WQERSVB5	BIT7,,C'X' RESERVED
85	(55) HEX	3	WQERSVB6	RESERVED

88	(58) SIGNED	4	WQERSVB7(2)	RESERVED

96	(60) SIGNED	1	WMNMUC2	USE COUNT 2
97	(61) A-ADDRESS	3	WMNMNX2	ADDRESS OF NEXT MINOR WQE OR ZERO

100	(64) BITSTRING	1	WMNMML2	MLWTO FLAGS FOR SECOND MESSAGE
	1...		WQERSV68	BIT0,,C'X' RESERVED
	.1..		WMNMML2B	BIT1 MAJOR WQE
	..1.		WMNMML2C	BIT2 MINOR WQE
	...1		WMNMML2D	BIT3 CHAIN ALTERED
	.... 1..		WMNMML2E	BIT4 WTL ISSUED
	.... .1..		WQERSV69	BIT5,,C'X' RESERVED
	.... .1.		WMNMML2G	BIT6 SERVICE THIS CHAIN
	.... .1		WMNMML2H	BIT7 LINE 2 AVAILABLE
101	(65) BITSTRING	1	WMNMLT2	LINE TYPE FLAGS FOR SECOND MESSAGE

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	1...		WMNMLT2A	BIT0 CONTROL LINE
	.1..		WMNMLT2B	BIT1 LABEL LINE
	..1.		WMNMLT2C	BIT2 DATA LINE
	...1		WMNMLT2D	BIT3 END INDICATOR
	.... 1...		WQERSV70	BIT4,,C'X' RESERVED
	.... .1..		WQERSV71	BIT5,,C'X' RESERVED
	.... ..1.		WQERSV72	BIT6,,C'X' RESERVED
	.... ...1		WQERSV73	BIT7,,C'X' RESERVED
102	(66) HEX	1	WQERSV74	RESERVED
103	(67) SIGNED	1	WMNMTL2	LENGTH OF SECOND MESSAGE TEXT

104	(68) CHARACTER	4	WMNMHCT2	HARDCOPY ID FOR SECOND MESSAGE

108	(6C) CHARACTER	72	WMNMTXT2	SECOND MESSAGE TEXT (MAX 72 BYTES)

180	(B4) BITSTRING	1	WMNMST2	STATUS FLAGS
	1...		WMNMTPD2	BIT0 TPUT DONE
	.1..		WQERSVB8	BIT1,,C'X' RESERVED
	..1.		WQERSVB9	BIT2,,C'X' RESERVED
	...1		WQERSVC1	BIT3,,C'X' RESERVED
	.... 1...		WQERSVC2	BIT4,,C'X' RESERVED
	.... .1..		WQERSVC3	BIT5,,C'X' RESERVED
	.... ..1.		WQERSVC4	BIT6,,C'X' RESERVED
	.... ...1		WQERSVC5	BIT7,,C'X' RESERVED
181	(B5) HEX	3	WQERSVC6	RESERVED

184	(B8) SIGNED	4	WQERSVC7(2)	RESERVED

CROSS REFERENCE

WMJMAECB	140 (8C)	WMJMMAJD	148 X'40'
WMJMAREA	5 (5)	WMJMMIN	136 (88)
WMJMASID	161 (A1)	WMJMMLW	4 (4)
WMJMBUF	163 (A3)	WMJMMLWA	4 X'80'
WMJMBUFA	163 X'80'	WMJMMLWB	4 X'40'
WMJMBUFB	163 X'40'	WMJMMLWC	4 X'20'
WMJMBUFC	163 X'20'	WMJMMLWD	4 X'10'
WMJMBUFD	163 X'10'	WMJMMLWE	4 X'08'
WMJMBUFE	163 X'08'	WMJMMLWF	4 X'04'
WMJMBUFF	163 X'04'	WMJMMLWG	4 X'02'
WMJMBUFG	163 X'02'	WMJMMLWH	4 X'01'
WMJMCONS	124 (7C)	WMJMHSGN	144 (90)
WMJMCS	172 (AC)	WMJMHT	174 (AE)
WMJMCS1	172 (AC)	WMJMHT1	174 (AE)
WMJMCS1A	172 X'80'	WMJMHT1A	174 X'80'
WMJMCS1B	172 X'40'	WMJMHT1B	174 X'40'
WMJMCS1C	172 X'20'	WMJMHT1D	174 X'10'
WMJMCS1D	172 X'10'	WMJMHT1F	174 X'04'
WMJMCS1E	172 X'08'	WMJMHT2	175 (AF)
WMJMCS1F	172 X'04'	WMJMPAD	12 (C)
WMJMCS1G	172 X'02'	WMJMPAD1	21 (15)
WMJMCS1H	172 X'01'	WMJMPAD2	30 (1E)
WMJMCS2	173 (AD)	WMJMPAD3	107 (6B)
WMJMCS2A	173 X'80'	WMJMRCTA	176 X'80'
WMJMCS2B	173 X'40'	WMJMRCTB	176 X'40'
WMJMCS2C	173 X'20'	WMJMRCTC	176 X'20'
WMJMCS2F	173 X'04'	WMJMRCTD	176 X'10'
WMJMDEC	184 (B8)	WMJMRCTE	176 X'08'
WMJMDECA	184 X'80'	WMJMRCTF	176 X'04'
WMJMDECB	184 X'40'	WMJMRCTG	176 X'02'
WMJMDECC	184 X'20'	WMJMRCTH	176 X'01'
WMJMDECD	184 X'10'	WMJMRCTI	177 X'80'
WMJMDECE	184 X'08'	WMJMRCTJ	177 X'40'
WMJMDECF	184 X'04'	WMJMRCTK	177 X'20'
WMJMDECG	184 X'02'	WMJMRCTL	177 X'10'
WMJMDECH	184 X'01'	WMJMRCTM	177 X'08'
WMJMDECI	185 X'80'	WMJMRCTN	177 X'04'
WMJMDECJ	185 X'40'	WMJMRCTO	177 X'02'
WMJMDEC1	184 (B8)	WMJMRCT1	176 (B0)
WMJMDEC2	185 (B9)	WMJMRCT2	177 (B1)
WMJMDEC3	186 (BA)	WMJMRCT3	178 (B2)
WMJMDEC4	187 (BB)	WMJMRCT4	179 (B3)
WMJMDSF	160 (A0)	WMJMRESA	108 (6C)
WMJMDSFA	160 X'80'	WMJMRR	8 (8)
WMJMDSFB	160 X'40'	WMJMRTC	176 (B0)
WMJMDSFC	160 X'20'	WMJMRTCT	168 (A8)
WMJMDSFD	160 X'10'	WMJMSEQ	169 (A9)
WMJMDSFE	160 X'08'	WMJMSER	122 (7A)
WMJMDSFF	160 X'04'	WMJMSERA	122 X'80'
WMJMDSFG	160 X'02'	WMJMSERB	122 X'40'
WMJMDSFH	160 X'01'	WMJMSERC	122 X'20'
WMJMCEBF	148 (94)	WMJMSERD	122 X'10'
WMJMEXT	0 (0)	WMJMSERE	122 X'08'
WMJMEXTA	1 (1)	WMJMSEr1	122 (7A)
WMJMHCID	103 (67)	WMJMSEr2	123 (7B)
WMJMJBNM	22 (16)	WMJMTCB	164 (A4)
WMJMJTCB	188 (BC)	WMJMTC	13 (D)
WMJMMLTYA	134 X'80'	WMJMXT	31 (1F)
WMJMMLTYB	134 X'40'	WMJMXTL	6 (6)
WMJMMLTYC	134 X'20'	WMJMUC	0 (0)
WMJMMLTYD	134 X'10'	WMJMUID	180 (B4)
WMJMMLTYP	134 (86)	WMJMWAIT	148 X'80'
WMJMMLTY1	134 (86)	WMNMEXT	0 (0)
WMJMMLTY2	135 (87)	WMNMHCT1	8 (8)

CROSS REFERENCE

WMNMHCT2	104 (68)	WQELKP	0 (0)
WMNMLT1	5 (5)	WQELKPA	1 (1)
WMNMLT1A	5 X'80'	WQEMAJ	0 (0)
WMNMLT1B	5 X'40'	WQEMCSA	172 X'80'
WMNMLT1C	5 X'20'	WQEMCSB	172 X'40'
WMNMLT1D	5 X'10'	WQEMCSC	172 X'20'
WMNMLT2	101 (65)	WQEMCSD	172 X'10'
WMNMLT2A	101 X'80'	WQEMCSE	172 X'08'
WMNMLT2B	101 X'40'	WQEMCSF	172 (AC)
WMNMLT2C	101 X'20'	WQEMCSFF	172 X'04'
WMNMLT2D	101 X'10'	WQEMCSF1	172 (AC)
WMNMML1	4 (4)	WQEMCSF2	173 (AD)
WMNMML1B	4 X'40'	WQEMCSG	172 X'02'
WMNMML1C	4 X'20'	WQEMCSH	172 X'01'
WMNMML1D	4 X'10'	WQEMCSI	173 X'80'
WMNMML1E	4 X'08'	WQEMCSJ	173 X'40'
WMNMML1F	4 X'04'	WQEMCSK	173 X'20'
WMNMML1G	4 X'02'	WQEMCSN	173 X'04'
WMNMML1H	4 X'01'	WQEMCSO	173 X'02'
WMNMML2	100 (64)	WQEMCSP	173 X'01'
WMNMML2B	100 X'40'	WQEMIN	0 (0)
WMNMML2C	100 X'20'	WQEMSGTA	174 X'80'
WMNMML2D	100 X'10'	WQEMSGTB	174 X'40'
WMNMML2E	100 X'08'	WQEMSGTC	174 X'20'
WMNMML2G	100 X'02'	WQEMSGTD	174 X'10'
WMNMML2H	100 X'01'	WQEMSGTF	174 X'04'
WMNMNX1	1 (1)	WQEMSGTP	174 (AE)
WMNMNX2	97 (61)	WQEMSGT1	174 (AE)
WMNMST1	84 (54)	WQEMSGT2	175 (AF)
WMNMST2	180 (B4)	WQENBR	4 (4)
WMNMTL1	7 (7)	WQEORE	160 X'20'
WMNMTL2	103 (67)	WQEPAD	12 (C)
WMNMTPD1	84 X'80'	WQEPAD1	21 (15)
WMNMTPD2	180 X'80'	WQEPAD2	30 (1E)
WMNMXTT1	12 (C)	WQEPAD3	159 (9F)
WMNMXTT2	108 (6C)	WQEPURGE	160 X'80'
WMNMUC1	0 (0)	WQEQDFHC	160 X'10'
WMNMUC2	96 (60)	WQEQFHC	160 X'40'
WQE	0 (0)	WQEROUT	176 (B0)
WQEASID	161 (A1)	WQEROUTA	176 X'80'
WQEAUTH	160 X'01'	WQEROUTB	176 X'40'
WQEAVAIL	163 (A3)	WQEROUTC	176 X'20'
WQEBUFA	163 X'80'	WQEROUTD	176 X'10'
WQEBUFB	163 X'40'	WQEROUTE	176 X'08'
WQEBUFC	163 X'20'	WQEROUTF	176 X'04'
WQEBUFD	163 X'10'	WQEROUTG	176 X'02'
WQEBUFE	163 X'08'	WQEROUTH	176 X'01'
WQEBUFF	163 X'04'	WQEROUTI	177 X'80'
WQEDCA	184 X'80'	WQEROUTJ	177 X'40'
WQEDCB	184 X'40'	WQEROUTK	177 X'20'
WQEDCC	184 X'20'	WQEROUTL	177 X'10'
WQEDCD	184 X'10'	WQEROUTM	177 X'08'
WQEDCE	184 X'08'	WQEROUTN	177 X'04'
WQEDCF	184 X'04'	WQEROUTO	177 X'02'
WQEDCG	184 X'02'	WQEROUT1	176 (B0)
WQEDCH	184 X'01'	WQEROUT2	177 (B1)
WQEDCI	185 X'80'	WQERPYID	182 (B6)
WQEDCJ	185 X'40'	WQERR	8 (8)
WQEDC1	184 (B8)	WQERSVA4	152 (98)
WQEDC2	185 (B9)	WQERSVA5	156 (9C)
WQEDESCD	184 (B8)	WQERSVA6	174 X'20'
WQEDOM	160 X'04'	WQERSVA8	84 X'40'
WQEJOBNM	22 (16)	WQERSVA9	84 X'20'
WQEJSTCB	188 (BC)	WQERSVB1	84 X'10'

WQE

WQE.

CROSS REFERENCE

WQERSVB2	84 X'08'	WQERSV61	185 X'01'
WQERSVB3	84 X'04'	WQERSV62	4 X'80'
WQERSVB4	84 X'02'	WQERSV63	5 X'08'
WQERSVB5	84 X'01'	WQERSV64	5 X'04'
WQERSVB6	85 (55)	WQERSV65	5 X'02'
WQERSVB7	88 (58)	WQERSV66	5 X'01'
WQERSVB8	180 X'40'	WQERSV67	6 (6)
WQERSVB9	180 X'20'	WQERSV68	100 X'80'
WQERSVC1	180 X'10'	WQERSV69	100 X'04'
WQERSVC2	180 X'08'	WQERSV70	101 X'08'
WQERSVC3	180 X'04'	WQERSV71	101 X'04'
WQERSVC4	180 X'02'	WQERSV72	101 X'02'
WQERSVC5	180 X'01'	WQERSV73	101 X'01'
WQERSVC6	181 (B5)	WQERSV74	102 (66)
WQERSVC7	184 (B8)	WQERTCT	168 (A8)
WQERSVD2	148 X'20'	WQESEQN	169 (A9)
WQERSVD3	148 X'10'	WQESUSP	160 X'02'
WQERSVD4	148 X'08'	WQETCB	164 (A4)
WQERSVD5	148 X'04'	WQETS	13 (D)
WQERSVD6	148 X'02'	WQETXT	31 (1F)
WQERSVD7	148 X'01'	WQETXTL	158 (9E)
WQERSVD8	149 (95)	WQEUCMID	180 (B4)
WQERSV06	163 X'02'	WQEUSE	0 (0)
WQERSV07	163 X'01'	WQEWTOR	160 X'08'
WQERSV09	173 X'10'	WQEXA	160 (A0)
WQERSV10	173 X'08'		
WQERSV11	173 X'01'		
WQERSV13	174 X'08'		
WQERSV14	174 X'02'		
WQERSV15	174 X'01'		
WQERSV16	177 X'01'		
WQERSV17	178 (B2)		
WQERSV18	181 (B5)		
WQERSV20	185 X'20'		
WQERSV21	185 X'10'		
WQERSV22	185 X'08'		
WQERSV23	185 X'04'		
WQERSV24	185 X'02'		
WQERSV25	185 X'01'		
WQERSV26	186 (BA)		
WQERSV29	116 (74)		
WQERSV30	120 (78)		
WQERSV31	122 X'04'		
WQERSV32	122 X'02'		
WQERSV33	122 X'01'		
WQERSV34	132 (84)		
WQERSV35	134 X'08'		
WQERSV36	134 X'04'		
WQERSV37	134 X'02'		
WQERSV38	134 X'01'		
WQERSV45	163 X'01'		
WQERSV47	173 X'10'		
WQERSV48	173 X'08'		
WQERSV49	173 X'02'		
WQERSV50	174 X'08'		
WQERSV51	174 X'02'		
WQERSV52	174 X'01'		
WQERSV53	177 X'01'		
WQERSV54	181 (B5)		
WQERSV56	185 X'20'		
WQERSV57	185 X'10'		
WQERSV58	185 X'08'		
WQERSV59	185 X'04'		
WQERSV60	185 X'02'		

WSAVTC

Common Name: CPU Work Save Area Vector Table

Macro ID: IHAWSAVT

DSECT Name: WSAC

Created by: SYSGEN

Subpool and Key: 245 and key 0

Size: 68 bytes

Pointed to by: LCCACBUS field of the LCCA data area

Serialization: None

Function: Contains pointers to the processor work save areas.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	WSAC	, CPU WORK/SAVE AREA VECTOR TABLE LCCACBUS POINTS TO THIS AREA
0	(0) A-ADDRESS	4	WSACCWSA	ADDRESS OF LOW-LEVEL COMMON SAVE AREA (104 BYTES)
4	(4) A-ADDRESS	4	WSACGTF	ADDRESS OF GTF SAVE AREA (136 BYTES)
8	(8) A-ADDRESS	4	WSACOPTM	ADDRESS OF SYSTEM RESOURCES MANAGER (SRM) SAVE AREA (192 BYTES)
12	(C) A-ADDRESS	4	WSACTIME	ADDRESS OF TIMER SAVE AREA (96 BYTES)
16	(10) A-ADDRESS	4	WSACACR	ADDRESS OF AUTOMATIC CPU RECONFIGURATION (ACR) SAVE AREA (1536 BYTES) (376 BYTES + SOFTWARE FIELDS FROM PSA) OR ADDRESS OF 8-BYTE RESERVED AREA IF ACR IS NOT IN THE SYSTEM

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
20	(14) A-ADDRESS	4	WSACRTMK	ADDRESS OF RECOVERY TERMINATION MONITOR MACHINE CHECK HANDLER (RTM/MACHK) SAVE AREA (88 BYTES)
24	(18) A-ADDRESS	4	WSACIOS	ADDRESS OF IOS (FLIH) SAVE AREA (80 BYTES)
28	(1C) A-ADDRESS	4	WSACEDS0	ADDRESS OF DISPATCHER SAVE AREA (80 BYTES)
32	(20) A-ADDRESS	4	WSACMF1	ADDRESS OF MEASUREMENT FACILITY 1 SAVE AREA (144 BYTES)
36	(24) A-ADDRESS	4	WSACABTM	ADDRESS OF ABTERM SAVE AREA (72 BYTES)
40	(28) A-ADDRESS	4	WSACRSTI	ADDRESS OF I/O RESTART SAVE AREA (128 BYTES)
44	(2C) A-ADDRESS	4	WSACREST	ADDRESS OF WORK/SAVE AREA FOR STATUS SAVING BY STOP AND RESTART SUBROUTINE (80 BYTES)
48	(30) A-ADDRESS	4	WSACRRSA	ADDRESS OF SUPERVISOR REPAIR ROUTINE SAVE AREA (64 BYTES)
52	(34) A-ADDRESS	4	WSACCCH	ADDRESS OF RECOVERY MANAGEMENT SERVICES CHANNEL CHECK HANDLER (RMS-CCH) SAVE AREA (72 BYTES)

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
56	(38) A-ADDRESS	4	WSACASMD	ADDRESS OF AUXILIARY STORAGE MANAGEMENT (ASM) DISABLED INTERRUPT EXIT (DIE) WORK/SAVE AREA (256 BYTES)

60	(3C) A-ADDRESS	4	WSACASMS	ADDRESS OF AUXILIARY STORAGE MANAGEMENT (ASM) SRB DRIVEN I/O ROUTINES WORK/SAVE AREA (512 BYTES)

WSAVTGCommon Name: Global Work Save Area Vector TableMacro ID: IHANSAVTDSECT Name: WSAGCreated by: SYSGENSubpool and Key: NUCLEUS resident and key 0Size: Global 44 bytesPointed to by: CVTSPSA field of the CVT data areaSerialization: NoneFunction: Contains pointers to the global work save areas.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	WSAG	, GLOBAL WORK/SAVE AREA VECTOR TABLE CVTSPSA POINTS TO THIS AREA

0	(0) A-ADDRESS	4	WSAGPGIO	ADDRESS OF PAGE I/O ERROR SAVE AREA (80 BYTES)

4	(4) A-ADDRESS	4	WSAGGMFH	ADDRESS OF GETMAIN/FREEMAI N SAVE AREA (1168 BYTES)

8	(8) A-ADDRESS	4	WSAGRSM	ADDRESS OF REAL STORAGE MANAGEMENT (RSM) SAVE AREA (1024 BYTES)

12	(C) A-ADDRESS	4	WSAGSSRS	ADDRESS OF SUSPEND/RESET FOR RSM SAVE AREA (80 BYTES)

16	(10) A-ADDRESS	4	WSAGMS0	ADDRESS OF MEMORY SWITCH SAVE AREA (56 BYTES)

20	(14) A-ADDRESS	4	WSAGSTAT	ADDRESS OF STATUS SAVE AREA (72 BYTES)

24	(18) A-ADDRESS	4	WSAGOPTM	ADDRESS OF SYSTEM RESOURCES MANAGER (SRM) SAVE AREA (400 BYTES)

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
28	(1C) A-ADDRESS	4	WSAGMENT	ADDRESS OF MEMORY TERMINATION SAVE AREA (80 BYTES)
32	(20) A-ADDRESS	4	WSAGNQDQ	ADDRESS OF ENQ/DEQ SAVE AREA (296 BYTES)
36	(24) A-ADDRESS	4	WSAGREST	ADDRESS OF WORK/SAVE AREA FOR STATUS SAVING BY STOP AND RESTART SUBROUTINE (168 BYTES)
40	(28) A-ADDRESS	4	WSAGSCHE	ADDRESS OF SCHEDULE ROUTINE (IEAVESCO) SAVE AREA FOR SYSEVENT BRANCH ENTRY INTERFACE (72 BYTES)

WSAVTLCommon Name: Local Work/Save Area Vector TableMacro ID: IHAWSAVTDSECT Name: WSALCreated by: SYSGENSubpool and Key: 255 and key 0Size: 60 bytesPointed to by: ASXBSPSA field of the ASXB data areaSerialization: LOCAL lockFunction: Contains pointers to the local work/save areas.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	WSAL	, LOCAL WORK/SAVE AREA VECTOR TABLE ASXBSPSA POINTS TO THIS AREA
0	(0) A-ADDRESS	4	WSALCWSA	ADDRESS OF LOW-LEVEL COMMON SAVE AREA (104 BYTES)
4	(4) A-ADDRESS	4	WSALVALC	ADDRESS OF VALIDITY CHECK SAVE AREA (64 BYTES)
8	(8) A-ADDRESS	4	WSALRTM2	ADDRESS OF RECOVERY TERMINATION MONITOR (RTM) SAVE AREA (80 BYTES)
12	(C) A-ADDRESS	4	WSALSDMP	ADDRESS OF SDUMP SAVE AREA (80 BYTES)
16	(10) A-ADDRESS	4	WSALABTM	ADDRESS OF ABTERM SAVE AREA (80 BYTES)
20	(14) A-ADDRESS	4	WSALCIRB	ADDRESS OF CIRB SAVE AREA (80 BYTES)
24	(18) A-ADDRESS	4	WSALS2EE	ADDRESS OF STAGE 2 EXIT EFFECTOP SAVE AREA (80 BYTES)
28	(1C) A-ADDRESS	4	WSALEXIT	ADDRESS OF EXIT (SVC 3) SAVE AREA (128 BYTES)

WSAVTL

WSAVTL
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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
32	(20) A-ADDRESS	4	WSALPOST	ADDRESS OF POST SAVE AREA (160 BYTES)
36	(24) A-ADDRESS	4	WSALWAIT	ADDRESS OF WAIT SAVE AREA (72 BYTES)
40	(28) A-ADDRESS	4	WSALSTAT	ADDRESS OF STATUS SAVE AREA (72 BYTES)
44	(2C) A-ADDRESS	4	WSALSTAE	ADDRESS OF STAE SAVE AREA (112 BYTES)
48	(30) A-ADDRESS	4	WSALEVNT	ADDRESS OF EVENTS (FAST MULTIPLE WAIT) SAVE AREA (72 BYTES)
52	(34) A-ADDRESS	4	WSALRSM	ADDRESS OF REAL STORAGE MANAGEMENT (RSM) SAVE AREA (72 BYTES)
56	(38) A-ADDRESS	4	WSALACHP	ADDRESS OF ASCB CHAP ROUTINE SAVE AREA (40 BYTES)

XDBA

Common Name: IOS EXCP Debugging Area

Macro ID: IECDXDBA

DSECT Name: XDBA

Created by: IECEXFR

Subpool and Key: 230 and key 0

Size: 2048 bytes

Pointed to by: TCBEXCPD field of the TCB data area

Serialization: None

Function: The XDBA contains diagnostic data provided by EXCP's functional recovery procedure, XCPFR, to aid in debugging EXCP problems.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	XDBA	

0	(0) SIGNED	2	XDBACOMP	ABEND COMPLETION CODE
2	(2) HEX	1	XDBAFLAG	FLAG DEPICTING WHERE THE PROBLEM OCCURRED.
1... ..			XDBAFTE	X'80' ERROR IN SVC PORTION OF EXCP
.1.. ..			XDBABKE	X'40' ERROR IN SRB PORTION OF EXCP
..1.			XDBAPCI	X'20' ERROR IN PCI APPENDAGE
...1			XDBACHE	X'10' ERROR IN CHE APPENDAGE
.... 1...			XDBAABE	X'08' ERROR IN ABE APPENDAGE
.... .1..			XDBAE0E	X'04' ERROR IN EOE APPENDAGE
.... ..1.			XDBAPGFX	X'02' ERROR IN PGFX APPENDAGE
.... ...1			XDBAAACT	X'01' APPENDAGE IS ACTIVE
....			XDBASIO	X'00' ERROR IN SIO APPENDAGE
3	(3) HEX	1	XDBARV1	RESERVED

4	(4) HEX	8	XDBAPSW	PSW AT TIME OF ERROR

12	(C) HEX	2		RESERVED
14	(E) HEX	2	XDBACC	ORIG. ABEND CODE

16	(10) SIGNED	4	XDBARGSV(16)	REGISTERS AT TIME OF ABEND

80	(50) SIGNED	4	XDBATRAN	TRANSLATION EXCEPTION ADDR

84	(54) HEX	40	XDBARQE	RQE BLOCK

XDBA

XDBA

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<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
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124	(7C) SIGNED	4	XDBACHAN	XDBA CHAIN POINTER
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THE 160 BYTE BLOCKS ARE MOVED INTO REMAINING DEBUGGING
AREA, IN FOLLOWING SEQUENCE (IF PRESENT) :

EWA, SRB/IOSB, TCCW, IDAL, FIX AND BEB.

THE 1ST 160 BYTE FOLLOWING LAST ENTRY IS ZEROED.

THE SRB AND TCCW ARE VALID IF ADDR IN RQE IS VALID

128	(80) HEX	160	XDBAENT	START OF 160B BLOCKS
	1.1.		XDBAEL	160 ONE BLOCK ENTRY LENGTH 2048 SIZE OF XDBA

XPTE

Common Name: RSM External Page Table

Macro ID: IHAXPTE

DSECT Name: XPTE

Created by: IEAVGM00 and IEAVCSEG (RSM supervisor)

Subpool and Key: 245 or 255 and key 0

Size: 12 bytes

Pointed to by: PCBXPTA field of the PCB data area

Serialization: SALLOC lock

Function: Each is associated with a PGTE entry and describes external storage location and status of page.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	XPTE	, XPTEPTR

0	(0) CHARACTER	1	XPTPROT	PROTECTION KEY
1	(1) CHARACTER	1	XPTRSV1	RESERVED
2	(2) BITSTRING	1	XPTFLAGS	FLAG FIELD
1...			XPTVIOLP	BIT0 XPTLPID CONTAINS A VIO LPID. THE AUX- ILIARY STORAGE REPRESENTED BY XPTLPID SHOULD NOT BE DESTROYED- A LSID MUST BE OBTAINED FOR A PAGE-OUT. 1=SAVE EXIST ING AUXILIARY STORAGE. 0=EXISTING AUX ILIARY STORAGE MAY BE DISCARDED. 2Z40W PYD
.1..			XPTXAV	BIT1 EXTERNAL STORAGE ADDRESS VALID FLAG WHEN 1, EXT. ADDR. IS VALID
..1.			XPTCKF	BIT2 CHANGE KEY FLAG; IF 1, KEY FOR THIS PAGE HAS BEEN CHANGED BY IEAVCKEY
...1			XPTTAKE	BIT3 RESERVED. WAS USED IN VS2/RELI
.... 1...			XPTVIO	BIT4 WHEN 1, PAGE IS PART OF A VIO WINDOW
.... 1...			XPTRES2	BIT4 RESERVED.

XPTE

XPTE
Data Area Descriptions 551

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
	.... ..1.		XPTDEFER	BIT6 ALLOCATION DEFERRED FLAG; WHEN 1, ALLOCATION DEFERRED FOR THIS PAGE
3	.... ..1 (3) CHARACTER	1	XPTRSV4 XPTFLAG2	BIT7 RESERVED SECOND FLAG BYTE.
	1...		XPTVALID	BIT0 1=LSID IN XPTLSID IS VALID.
	.1.. .... ..1.		XPTRES1 XPTPOINP	BIT1 RESERVED BIT2 PAGE-OUT IN PROGRESS FLAG. 1=PAGE-OUT IN PROGRESS. (IMPLIES THAT XPTVALID='0'B
	...1		XPTIOERR	BIT3 I/O ERROR FLAG. 1=A PERMANENT READ I/O ERROR WAS SUFFERED BY THIS PAGE. QZ40WPYD

4	(4) CHARACTER	8	XPTLPID	THE LPID OF THE EXTERNAL STORAGE LOCATION OF THE VIRTUAL PAGE

4	(4) SIGNED	4	XPTLGN	LOGICAL GROUP NUMBER PORTION OF LPID IF VIO PAGE.

4	(4) CHARACTER	4	XPTLSID	AUX. STORAGE ADDRESS OF SLOT IF NOT VIO PAGE.

8	(8) SIGNED	4	XPTLPN	LOGICAL PAGE NUMBER PORTION OF LPID IF VIO PAGE.

8	(8) CHARACTER	4	XPTLSID2	AUX. STORAGE ADDRESS OF SLOT IF NOT VIO PAGE AND DUPLICATED PAGE.

12	(C) CHARACTER	1	XPTEND	

XTLSTCommon Name: Extent ListMacro ID: IHAXTLSTDSECT Name: XTLSTCreated by: Modules - IEAVLK01, IEAVID00, IEWMSEPTSubpool and Key: 255 and key 0Size: 16 bytesPointed to by: CDXMLJP field of the CDE data areaSerialization: By serialization of the CDE that points to the XTLSTFunction: Contains information concerning the extents of a particular load module which has been loaded into virtual storage.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	XTLST	
0	(0) SIGNED	4	XTLLNTH	NUMBER OF BYTES IN EXTENT LIST (=16)
4	(4) SIGNED	4	XTLNRFAC	NUMBER OF RELOCATION FACTORS (=1)
8	(8) A-ADDRESS	4	XTLMSBLA	WORD REFERENCE FOR XTLMSBLH
8	(8) CHARACTER	1		ONE BYTE OF X'80'
9	(9) A-ADDRESS	3	XTLMSBLN	LENGTH OF MAIN STORAGE BLOCK
12	(C) A-ADDRESS	4	XTLMSBAA	WORD REFERENCE FOR XTLMSBAD
12	(C) CHARACTER	1		ONE BYTE OF X'00'
13	(D) A-ADDRESS	3	XTLMSBAD	ADDRESS OF MAIN STORAGE BLOCK

XTLST

XTLST
Data Area Descriptions 553

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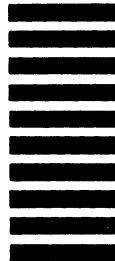
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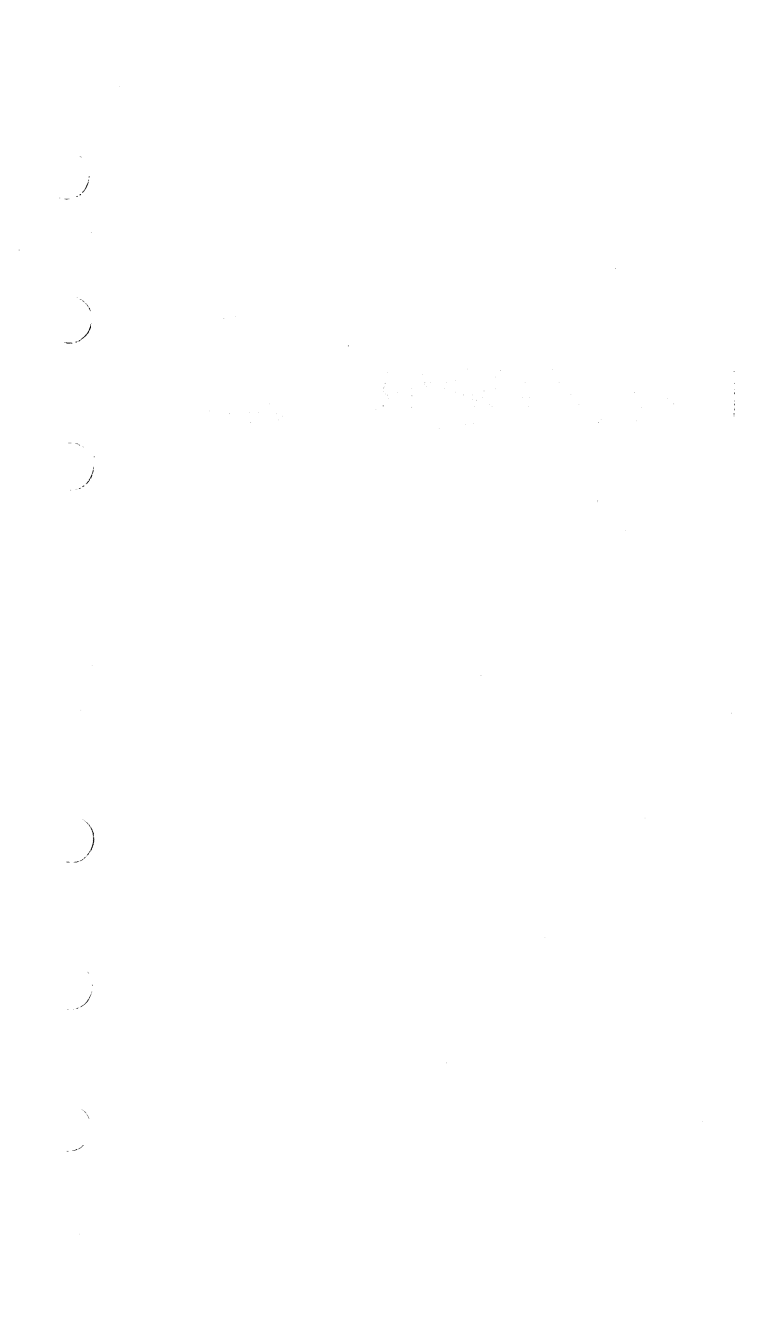
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GC28-0710-0

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Technical Newsletter

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Date January 15, 1980

Base Publication No. GC28-0710-0

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**Prerequisite Newsletters/
Supplements** GN28-2983

OS/VS2 System Programming Library:
Debugging Handbook Volume 3

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This newsletter contains replacement pages for *Debugging Handbook (Vol. 3)*.

Before inserting any of the attached pages into *Debugging Handbook (Vol. 3)*, read *carefully* the instructions on this cover. They indicate when and how you should insert the pages.

Pages to
be Removed

Attached Pages
to be Inserted*

Cover - Edition Notice
v - viii
453 - 488

Cover - Edition Notice
v - viii
453 - 488

*If you are inserting pages from different Newsletters/Supplements and *identical* page numbers are involved, always use the page with the latest date (shown in the slug at the top of the page). The page with the latest date contains the most complete information.

Summary of Amendments

This technical newsletter contains new and updated information in support of the UCB data area.

Note: Please file this cover letter at the back of the base publication to provide a record of changes.

First Edition (December, 1978)

This edition with Technical Newsletters GN28-2983 and GN28-4694 applies to Release 3.8 of OS/VS2 and to all subsequent releases of OS/VS2 until otherwise indicated in new editions or Technical Newsletters. Changes are continually made to the information herein; before using this publication in connection with the operation of IBM systems, consult the latest *IBM System/370 Bibliography*, GC20-0001, for the editions that are applicable and current.

This manual contains information formerly contained in *OS/VS2 System Programming Library: Debugging Handbook, Volume 2*, GC28-0709-0 and GC28-0752-0.

The JES3 information contained in this manual is applicable only if JES3 has been integrated into your system.

It is possible that this material may contain reference to, or information about, IBM products (machines and programs), programming, or services that are not announced in your country. Such references or information must not be construed to mean that IBM intends to announce such IBM products, programming, or services in your country.

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OS/VS2 System Programming Library: Debugging Handbook

Volume 3

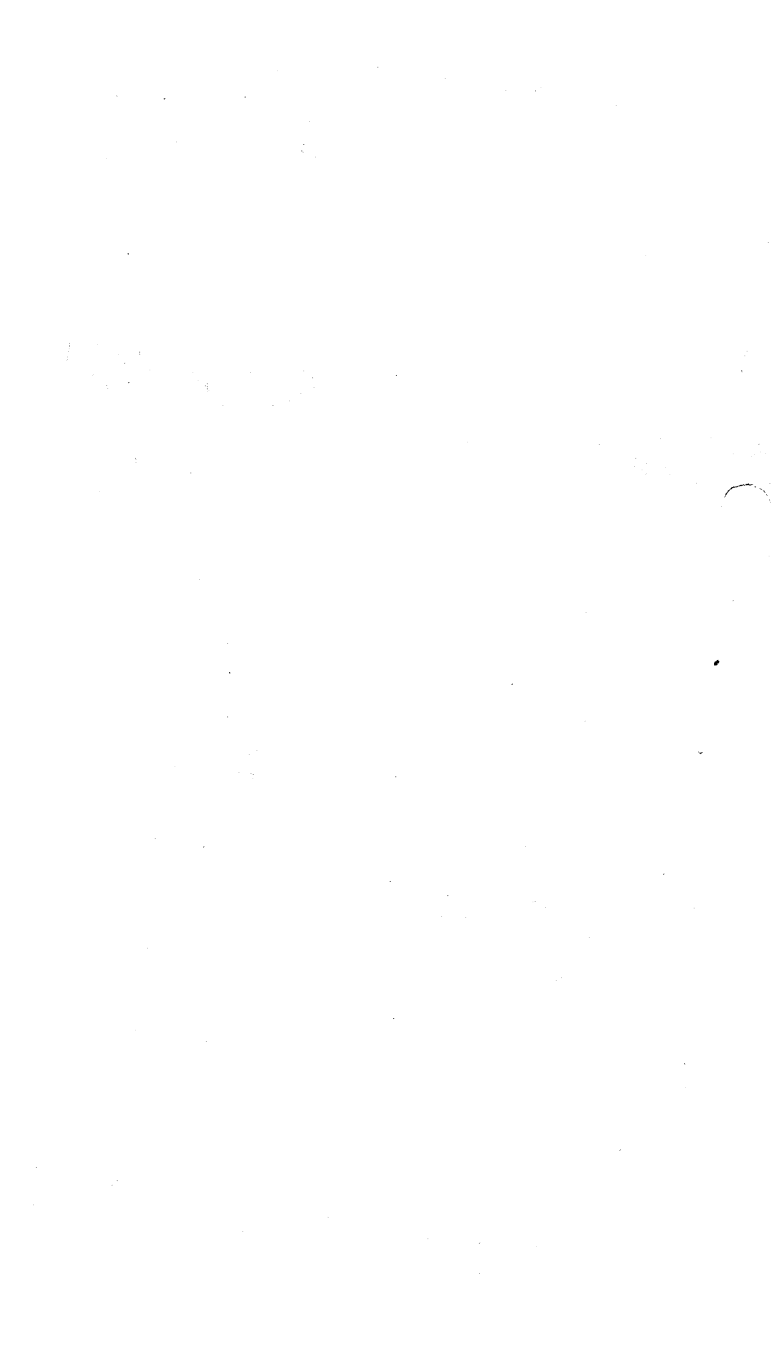
GC28-0710-0

File No. S370-37

Includes Selectable Units:

Scheduler Improvements	VS2.03.804
Supervisor Performance # 1	VS2.03.805
Supervisor Performance # 2	VS2.03.807
Data Management	VS2.03.808
IBM 3800 Printing Subsystem	VS2.03.810
TSO/VTAM	VS2.03.813
Scheduler/IOS Support	VS2.03.816
Service Data Improvements	VS2.03.817
MSS Enhancements	5752-824
3838 Vector Processing Subsystem	5752-829
3895 Device Support	5752-830
System Security Support	5752-832
Dumping Improvements	5752-833
Attached Processor Support	5752-847
MVS Processor Support	5752-851
Hardware Recovery Enhancements	5752-855
Interactive Problem Control System	5752-857
TSO/VTAM Level 2	5752-858
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**Summary of Amendments
for GC28-0710-0
As Updated by GN28-4694**

This technical newsletter contains information in support of the 3800 MVS enhancements.

**Summary of Amendments
for GC28-0710-0**

General

This edition has been reorganized into a three volume publication. See the Preface and Contents for the basic design and setup.

Specific

- Volumes 1, 2, and 3 incorporate maintenance updates accumulated since the last revision. Also, the following SUs have been integrated into these volumes.

Scheduler Improvements	VS2.03.804
Supervisor Performance #1	VS2.03.805
Supervisor Performance #2	VS2.03.807
Data Management	VS2.03.808
IBM 3800 Printing Subsystem	VS2.03.810
TSO/VTAM	VS2.03.813
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Hardware Recovery Enhancements	5752-855
Interactive Problem Control System	5752-857
TSO/VTAM Level 2	5752-858
Data Management Support	5752-860

- Volume 1 incorporates program product information for MVS/System Extensions (5740-XE1) and highlights this information where applicable.
- Section 2 of Volume 2 (GC28-0709-0 or GC28-0752-0) Control Block Chains has been moved to Volume 1 (GC28-0987-0) as Section 6.
- Section 1 of Volume 2 (GC28-0709-0 or GC28-0752-0) - "How to Find Information" has been moved. This information is now contained in the description of the individual data areas. Each Volume 2 and 3 data area greater than 2 pages in length has a label-displacement list appended to it.
- The publications summary (Section 6 in GC28-0708-0 or GC28-0751-0) has been deleted and replaced by a list of applicable publications in the Preface of Volume 1 (GC28-0708-1). A complete list of MVS publications can be obtained from the MVS Release Guide.

This edition has been reorganized for a three volume publication. See the Preface and Contents for the basic design and setup.

Data Area Descriptions

Descriptions of data areas are sequenced alphanumerically by data area acronym. Each description provides the following information:

- Common Name
- Macro ID
- DSECT Name (name created by mapping macro)
- Created by (module that creates the data area)
- Subpool and Key (subpool number and key used by creating module)
- Size
- Pointed to by (register(s) or data area field(s) that points to the data area)
- Serialization of the data area
- Function

Format for the data area a tabular description of the data area, derived directly from the mapping macro (if one exists). The format provides the information indicated below.

Offsets

field addresses (decimal and hexadecimal) relative to the beginning of the data area.

Example 16 (10)

Type

specific kind of program data defined for this field. The following types are possible:

Type	Description
A-ADDRESS	address constant (A-type).
BAL STMT	an instruction.
BITSTRING	bitstring constant.
CHARACTER	character value.
FLOATING	floating point binary value.
HEX	hexadecimal value.
OFFSET	address constant (Q-type).
PACKED	packed decimal value.
SIGNED	arithmetic signed value.
STRUCTURE	level 1 control block name.
S-ADDRESS	address constant (S-type).
UNKNOWN	a type other than the possible ones.
UNSIGNED	unsigned value.
V-ADDRESS	address constant (V-type).
Y-ADDRESS	address constant (Y-type).
ZONED	zoned decimal value.

Length

field size in bytes.

Name

field bit or mask name.

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

1...	....	(a reference to bit 0)
....	..11	(a reference to bits 6 and 7)
...1	....	(a reference to bit 3)
11..	1111	(a reference to a bit mask in bits 0, 1, 4, 5, 6, and 7)

Description

a verbal description of a field or bit.

For each data area with more than 100 fields, a cross reference list of field names in alphabetical order is provided. Each symbol identified in the data area description is listed in the cross reference along with:

1. Its decimal offset into the data area.
2. Either its hexadecimal offset into the data area (for non-bitstring symbols) or its bitstring hexadecimal equivalent (for bitstring symbols).

Descriptions of data areas in this publication are identical to corresponding descriptions in *OS/VS2 Data Areas*, SY88-0606.

Jan. 15, 1980

CROSS REFERENCE

THAASCB	12 (C)	TWAUFL1	82 X'80'
THAC	408(198)	TWAUFL2	82 X'40'
THACABFC	464(100)	TWAUFL3	82 X'20'
THACCOMP	76 (4C)	TWAUFL4	82 X'10'
THACE	476(1DC)	TWAUI	400(190)
THACECB	508(1FC)	TWAUID	300(12C)
THACEI	476(1DC)	TWAURTFC	360(168)
THACEIFC	476(1DC)	TWAUTCB	56 (38)
THACERA	477(1DD)	TWAUTWA	352(160)
THACERRS	480(1E0)	TWAV	184 (B8)
THACEWA	412(19C)	TWAVABFC	240 (F0)
THACFL	83 (53)	TWAVACQH	296(128)
THACFL1	83 X'80'	TWAVCOMP	68 (44)
THACFL2	83 X'40'	TWAVE	252 (FC)
THACFL4	83 X'20'	TWAVECB	284(11C)
THACI	508(1FC)	THAVEI	252 (FC)
THACID	408(19C)	THAVEIFC	252 (FC)
THACMODQ	516(204)	THAVERA	253 (FD)
THACOMP	0 (0)	THAVERRS	256(100)
THACRTFC	468(104)	THAVEWA	188 (BC)
THACSCB	16 (10)	THAVFL	81 (51)
THACSKIP	520(208)	THAVFL1	81 X'80'
THACSTPQ	512(200)	THAVFL2	81 X'40'
THACTCB	60 (3C)	THAVFL3	81 X'20'
THACTHA	460(1CC)	THAVFL4	81 X'10'
THADEGAS	44 (2C)	THAVFL5	81 X'08'
THAEESR	40 (28)	THAVFL6	81 X'04'
THAEND	536(216)	THAVI	284(11C)
THAINIT	24 (18)	THAVID	184 (B8)
THAM	84 (54)	THAVRTFC	244 (F4)
THAMABFC	140 (8C)	THAVTCB	52 (34)
THAME	152 (98)	THAVTEQH	288(120)
THAMECB	64 (40)	THAVTHQH	292(124)
THAMEI	152 (98)	THAVTWA	236 (EC)
THAMEIFC	152 (98)	THAWORKE	524(20C)
THAMERA	153 (99)		
THAMERRS	156 (9C)		
THAMEWA	88 (58)		
THAMFL	80 (50)		
THAMFL1	80 X'80'		
THAMID	84 (54)		
THAMRTFC	144 (90)		
THAMSG	48 (30)		
THAMTWA	136 (88)		
THAPASQH	8 (8)		
THAPPSR	36 (24)		
THAR	0 (0)		
THARSON	2 (2)		
THASYNQH	4 (4)		
THATCAST	20 (14)		
THATCSR	32 (20)		
THATTSR	28 (1C)		
THAU	300(12C)		
THAUABFC	356(164)		
THAUACQH	404(194)		
THAUCOMP	72 (48)		
THAUE	368(170)		
THAUECB	400(190)		
THAUEI	368(170)		
THAUEIFC	368(170)		
THAUERA	369(171)		
THAUERRS	372(174)		
THAUENA	304(130)		
THAUFL	82 (52)		

TWAR

TWAR

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UCBCommon Name: IOS Unit Control BlockMacro ID: IEFUCB0BDSECT Name: UCB (DSECT card precedes prefix). UCBCMSEG may be used in the USING statement for the common section.

UCBCHEXT (DSECT for common UCB extension),

UCBMT (DSECT for magnetic tape extension),

UCBOCR (DSECT for optical character reader extension),

UCB3540X (DSECT for 3540 device extension),

UCBUCS (DSECT for unit record with UCS extension),

UCB3600X (DSECT for 3600 device extension)

Created by: SYSGENSubpool and Key: NUCLEUS resident and key 0Size: Variable

Pointed to by: DEBUCBAD field of the DEB data area
 IOSUCB field of the IOSB data area
 JESUNITS field of the JESCT data area
 PCCAUCB field of the PCCA data area
 (channel-detected error UCB)
 RQEUCB field of the RQE data area
 TCCWUCB field of the TCCW data area
 TIOEFSRT field of the TIOT data area

SERIALIZATION: UCB LOCK, COMPARE & SWAP LOGIC, ENQ ON MAJOR SYSIEFSD, minor Q4.

Function: The UCB describes the characteristics of a device to the I/O supervisor and is used by the job scheduler during allocation of the device. There is a UCB for each device attached to the system. For device code definitions, see the UCBTYP data area description.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	UCB	, UCBPTR-512
-512 (-200)	SIGNED	4	(126)	RESERVED
-8	(-8) SIGNED	4	UCBLOCK	DEVICE LOCK
-4	(-4) A-ADDRESS	4	UCBIOQ	ADDRESS OF LAST QUEUING ELEMENT USED FOR THIS DEVICE. ADDRESS OF ERP WORK AREA DURING INTERCEPT AND ASYNCHRONOUS ATTENTION/DEVIC E END WITH UNIT CHECK CONDITIONS. WHEN DIRECT ACCESS VOLUME VERIFICATION (DAVV) IS WAITING FOR A VOLUME MOUNT, THIS FIELD WILL POINT TO THE DAVV SRB.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
=====				
SYSGEN-INDEPENDENT COMMON SECTION				

0	(0) SIGNED	4	UCBOB	
=====				

0	(0) BITSTRING	1	UCBJBNR	FLAG BYTE (OS/VS2)
1... ..			UCBVRDEV	X'80' UCB FOR VIO DEVICE
.1... ..			UCBJES3	X'40' ALL VOLUME MOUNTING AND DEVICE MANAGEMENT FOR THIS DEVICE IS CONTROLLED BY JES3
..1.			UCBDUC	X'20' DISPLAY DEVICE UNIT CHECK IPL
...1			UCBBOX	X'10' IF THIS BIT AND UCBIORST BIT ARE ON, THE DEVICE HA BEEN FORCED OFFLINE DUE TO A ERROR
.... 1...			UCBOLDSM	X'08' OLTEP COMMUNICATING DIRECTLY WITH THE MASS STORAGE CONTROL (MSC), NOT THROUGH THE MASS STORAGE SYSTEM COMMUNICATOR (MSSC)
.... .1..			UCBMMSGP	X'04' MOUNT MESSAGE PENDING. THE DEVICE HAS BEEN SELECTED BY DEVICE ALLOCATION, BUT NO MOUNT MESSAGE HAS BEEN ISSUED.
.... ..1.			UCBURINP	X'02' UNCONDITIONAL RESERVE IN PROGRESS
.... ...1			UCBMONT	X'01' VOLUME TO BE MOUNTED IS TO BE RETAINED OR CONTAIN A

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				PASSED DATA SET (SET BY DEVICE ALLOCATION OR DATA MANAGEMENT FOR OS/VS2)
1	(1) BITSTRING	1	UCBFL5	FLAGS
1... ..			UCBDCC	X'80'
				DISCONNECT COMMAND CHAIN DEVICE
.1..			UCBAF	X'40'
				ATTENTION FOR THIS CONSOLE DEVICE IS TO BE PROCESSED BY THE COMMUNICATIONS TASK
.1..			UCBAMV	X'40'
				SUCCESSFUL COMPARISON CHECKING OF THE ACCESS METHOD CATALOG AND THE VTOC (VSAM DIRECT ACCESS DEVICES ONLY)
..1.			UCBSASK	X'20' DEVICE REQUIRES STAND ALONE SEEK
...1			UCBVSDR	X'10' DEVICE HAS VARIABLE LENGTH SDR'S
.... 1...			UCBENVRD	X'08' DEVICE RETURNS ENVIRONMENTAL DATA
.... .1..			UCBNALOC	X'04' THIS OFFLINE DEVICE IS BEING USED BY A SYSTEM COMPONENT. THE DEVICE STATUS MUST NOT CHANGE TO ONLINE NOR WILL IT BE ALLOCATED. THE LAST PATH/CHANNEL/CP U TO THE DEVICE MUST NOT BE VARY'ED OFFLINE. THE DEVICE IS UNAVAILABLE FOR USAGE BY ANOTHER SYSTEM COMPONENT WHICH PROCESSES

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				OFFLINE DEVICES. TO SET THIS INDICATOR ON, A COMPONENT MUST OBTAIN VIA ENQ, EXCLUSIVE, SYSTEM LEVEL CONTROL OF RESOURCE SYSIEFSD, Q4. SERIALIZATION IS NOT REQUIRED TO TURN THIS INDICATOR OFF.
.... .1.			UCBALTCU	X'02' DEVICE HAS AN ALTERNATE CONTROL UNIT ADDRESS
.... .1			UCBALTPH	X'01' DEVICE HAS AN ALTERNATE PATH
2 (2) CHARACTER		1	UCBID	UCB IDENTIFICATION (FF)
1111 1111			UCBSTND	X'FF' STANDARD UCB
3 (3) BITSTRING		1	UCBSTAT	DEVICE STATUS
1...			UCBONLI	X'80' DEVICE IS ONLINE
.1...			UCBCHGS	X'40' DEVICE STATUS IS TO BE CHANGED FROM ONLINE TO OFFLINE, AND EITHER ALLOCATION IS ENQUEUED ON DEVICES OR THE DEVICE IS ALLOCATED. (BIT 0 IS ALSO ON.)
..1.			UCBRESV	X'20' THE MOUNT STATUS OF THE VOLUME ON THIS DEVICE IS RESERVED
...1			UCBUNLD	X'10' UNLOAD OPERATOR COMMAND HAS BEEN ADDRESSED TO THIS DEVICE. THE DEVICE IS NOT YET UNLOADED.
.... 1...			UCBALOC	X'08' DEVICE IS ALLOCATED

UCB

UCB

Data Area Descriptions 457

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... .1..			UCBPRES	X'04' THE MOUNT STATUS OF THE VOLUME ON THIS DEVICE IS PERMANENTLY RESIDENT
.... .1.			UCBSYSR	X'02' SYSTEM RESIDENCE DEVICE OR PRIMARY CONSOLE OR ACTIVE CONSOLE
.... ...1			UCBDADI	X'01' STANDARD TAPE LABELS HAVE BEEN VERIFIED FOR THIS TAPE VOLUME OR SECONDARY CONSOLE OR CONSOLE STATUS CHANGING

4	(4) SIGNED	2	UCBCHAN	BINARY CHANNEL/UNIT ADDRESS

4	(4) SIGNED	1	UCBCHA	BINARY CHANNEL ADDRESS OF LAST STARTED I/O OPERATION
5	(5) SIGNED	1	UCBUA	BINARY UNIT ADDRESS
6	(6) BITSTRING	2	UCBSFLS	DEVICE STATUS FLAGS
6	(6) BITSTRING	1	UCBFLA	I/O SUPERVISOR FLAG BYTE A
1...			UCBBSY	X'80' DEVICE IS BUSY
.1..			UCBNRY	X'40' DEVICE NOT READY
..1.			UCBPST	X'20' POST FLAG (ASSOC IOQE)
...1			UCBPSNS	X'10' PENDING SENSE OPERATION
.... 1...			UCBCUB	X'08' CONTROL UNIT BUSY
.... .1..			UCBSAP	X'04' STAND ALONE PROCESS ON DEVICE ACTIVE (EG., RESERVE)
.... .1.			UCBACTV	X'02' CHANNEL PROGRAM ACTIVE ON DEVICE
.... ...1			UCBQISCE	X'01' DEVICE QUIESCED
7	(7) BITSTRING	1	UCBFLB	I/O SUPERVISOR FLAG BYTE B

UCB

UCB

OFFSETS TYPE LENGTH NAME DESCRIPTION

1... ..			UCBIORST	X'80' I/O RESTART VIA ALTERNATE CPU RECOVERY HAS FACTORED DEVICE OUT OF CONFIGURATION BECAUSE OF NON-ACCESSABI LITY. ALL INCOMING I/O REQUESTS ARE INTERCEPTED AND MARKED IN PERMANENT ERROR WITH A COMPLETION CODE OF X'51'. HOWEVER, IF CHANNEL RECONFIGURATION HARDWARE (CRH) IS ACTIVE AND CRH WILL BE USED TO ACCESS THE DEVICE ASSOCIATED WITH THE UCB, THIS BIT WILL BE ON IN EVERY UCB THAT HAS OUTSTANDING I/O ACROSS A CRH PATH.
.1..			UCBASNS	X'40' SENSE ACTIVE ON DEVICE
..1.			UCBSPST	X'20' SENSE POST INDICATOR
...1			UCBRESVH	X'10' DEVICE RESERVED INDICATOR
.... 1..			UCBCRHRV	X'08' RESERVED PATH THROUGH A CHANNEL RECONFIGURATION HARDWARE (CRH)
.... .1..			UCBCRHSN	CONNECTION X'04' IF 1, SENSE PENDING FROM INOPERATIVE CPU. IF 0, SENSE PENDING FROM OPERATIVE CPU. BIT IS SET ONLY WHEN CHANNEL RECONFIGURATION HARDWARE (CRH) IS

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... ..1.			UCBVALPH	ACTIVE. X'02' PATH VALIDATION
.... ..1			UCBSIGP	X'01' IOS SIGP INDICATOR TO PREVENT PING/PONG

8	(8) BITSTRING	1	UCBCHM	PATH STATUS MASK FOR THIS DEVICE

8	(8) BITSTRING	1	UCBCHM1	SAME AS UCBCHM
11..			UCBPTH0	X'CO' PATHS FROM CPU 0
1...			UCBPPA	X'80' PRIMARY PATH CPU 0. IF 0, PATH IS AVAILABLE. IF 1, PATH IS UNAVAILABLE.
.1..			UCBSPA	X'40' SECONDARY PATH CPU 0. IF 0, PATH IS AVAILABLE. IF 1, PATH IS UNAVAILABLE.
..11			UCBPTH1	X'30' PATHS FROM CPU 1
..1.			UCBPPB	X'20' PRIMARY PATH CPU 1. IF 0, PATH IS AVAILABLE. IF 1, PATH IS UNAVAILABLE.
....1			UCBSPB	X'10' SECONDARY PATH CPU 1. IF 0, PATH IS AVAILABLE. IF 1, PATH IS UNAVAILABLE.
.... 1..			UCBRV014	X'08',,C'X' RESERVED
.... .1..			UCBRV015	X'04',,C'X' RESERVED
.... ..1.			UCBRV016	X'02',,C'X' RESERVED
.... ..1			UCBRV017	X'01',,C'X' RESERVED
9	(9) SIGNED	1	UCBCNT	COUNT OF QUEUED REQUESTS WAITING FOR DEVICE
10	(A) SIGNED	1	UCBLCI	INCREMENT WHICH, WHEN MULTIPLIED BY 32, BECOMES AN INDEX TO THE LOGICAL CHANNEL TABLE (LCHTAB)

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
11	(B) HEX	1	UCBCPU	LAST SIO TO DEVICE ISSUED FROM THIS CPUID

12	(C) BITSTRING	1	UCBWGT	FLAGS
	1... ..		UCBIN	X'80' SYSIN
	.1.. ..		UCBOUT	X'40' SYSOUT
	..1.		UCBFUB	X'20' ASSUMED THAT THIS DEVICE WILL BE ALLOCATED FOR A PUBLIC VOLUME REQUEST
	...1		UCBREW	X'10' REMIND COMMAND HAS BEEN ADDRESSED TO THIS MAGNETIC DEVICE-BY I/O SUPPORT
	.... 1...		UCBMPXP	X'08' MULTIPLE EXPOSURE DEVICE
	.... .1..		UCBVORSN	X'04' VARY COMMAND OPERATOR REASON INDICATOR
	.... ..1.		UCBVHRSN	X'02' VARY COMMAND HIERARCHY REASON INDICATOR
	.... ...1		UCBRV029	X'01',,,C'X' RESERVED
13	(D) CHARACTER	3	UCBNAME	UNIT NAME (EBCDIC)

16	(10) CHARACTER	4	UCBTYP	DEVICE TYPE

16	(10) BITSTRING	1	UCBTBYT1	MODEL BITS
	1... ..		UCB1FEA0	X'80' BIT 0
	.1.. ..		UCB1FEA1	X'40' BIT 1
	..1.		UCB1FEA2	X'20' BIT 2
	...1		UCB1FEA3	X'10' BIT 3
	.... 1...		UCB1FEA4	X'08' BIT 4
	.... .1..		UCB1FEA5	X'04' BIT 5
	.... ..1.		UCBD1600	X'04' 1600 BPI
	.... ...1.		UCB1FEA6	X'02' BIT 6
	.... ....1.		UCBD6250	X'02' 6250 BPI
	.... ..1		UCB1FEA7	X'01' BIT 7
17	(11) BITSTRING	1	UCBTBYT2	OPTION FLAGS
	1... ..		UCB2OPT0	X'80' FLAG 0
	.1.. ..		UCB2OPT1	X'40' FLAG 1
	..1.		UCB2OPT2	X'20' FLAG 2
	...1		UCBDUDN1	X'20' DUAL DENSITY 800/1600 BPI
	...1		UCBRR	X'20' THIS DEVICE IS SHARABLE BETWEEN TWO CPU'S (DIRECT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
...	...		UCB2OPT3	ACCESS)
...	...		UCBDUDN2	X'10' FLAG 3
...	...		UCBRPS	X'10' DUAL DENSITY 1600/6250 BPI X'10' ROTATIONAL POSITION SENSING (RPS) DEVICE (DIRECT ACCESS)
....	1...		UCB2OPT4	X'08' FLAG 4
....	1...		UCBRWTAU	X'08' READ/WRITE TAPE CONTROL
....	1...		UCBRVDEV	X'08' IF 0, REAL DEVICE. IF 1, VIRTUAL DEVICE. (DIRECT ACCESS)
....	.1..		UCB2OPT5	X'04' FLAG 5
....	.1..		UCB2OPT6	X'02' FLAG 6
....	.1..		UCBVLWPR	X'02' VOLUME REQUIRES ALTERNATE POWER SOURCE DEVICE
....	...1		UCB2OPT7	X'01' FLAG 7
....	...1		UCBDVPWR	X'01' DEVICE HAS ALTERNATE POWER SOURCE
18	(12) BITSTRING	1	UCBDVCLS	SAME AS UCBTBYT3
18	(12) BITSTRING	1	UCBTBYT3	CLASS BITS
1..	....		UCB3TAPE	X'80' TAPE
1..	....		UCB3COMM	X'40' COMMUNICATIONS
1..	...1		UCB3CTC	X'41' CHANNEL-TO-CHANNEL ADAPTER
...1	....		UCB3DACC	X'20' DIRECT ACCESS
...1	....		UCB3DISP	X'10' DISPLAY
....	1...		UCB3UREC	X'08' UNIT RECORD
....	.1..		UCB3CHAR	X'04' CHARACTER READER
....	...1.		UCBRV10	X'02',,C'X' RESERVED
....	...1		UCBRV11	X'01',,C'X' RESERVED
19	(13) CHARACTER	1	UCBUNTYP	SAME AS UCBTBYT4
19	(13) CHARACTER	1	UCBTBYT4	DEVICE CODE
1111	...1		UCB3791L	X'F1' 3791 LOCAL CONTROL UNIT
1..	11..		UCB3838	X'4C' 3838 ARRAY PROCESSOR

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.1..	.1.1.		UCBDSM	X'42' MASS STORAGE CONTROL (MSC) (3851)
..11	11.1		UCB7443	X'30' 7443 SERVICE RECORD FILE
...1	1..1		UCB3395	X'19' 3895 DEVICE
...1	....1		UCB42AD1	X'11' 2702 CONTROL UNIT WITH TYPE 1 ADAPTOR
....	111.		UCB3800	X'0E' 3800 DEVICE
....	11.1		UCB3036	X'0D' 3036 DISPLAY CONSOLE
....	1..1		UCB3211	X'09' 3211 PRINTER
....	..11		UCB3400	X'03' 3400 MAGNETIC TAPE
....	....1		UCB2400	X'01' 2400 SERIES MAGNETIC TAPE DEVICE

20	(14) A-ADDRESS	4	UCBEXTPT	ADDRESS OF COMMON UCB EXTENSION

20	(14) BITSTRING	1	UCBFLC	I/O SUPERVISOR FLAG BYTE C
1...	....		UCBATTP	X'80' ATTENTION PENDING
.1..	....		UCBWAA	X'40' WORK AREA APPENDED
..1.	....		UCBUDE	X'20' UNSOLICITED DEVICE END RECEIVED
...1	....		UCBITF	X'10' INTERCEPT CONDITION
....	1...		UCBIVRS	X'08' INTERVENTION REQUIRED MESSAGE ISSUED
....	.1..		UCBIVRR	X'04' INTERVENTION REQUIRED MESSAGE IS NEEDED
....	..1.		UCBTICBT	X'02' CHANNEL END AND/OR DEVICE END OR MOUNT CONDITION PENDING.
....1		UCBDDRSW	X'01' DDR SWITCH PENDING ON THIS DEVICE

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
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21	(15) A-ADDRESS	3	UCBEXTP	ADDRESS OF COMMON UCB EXTENSION
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DEVICE-DEPENDENT UCB SEGMENTS

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DIRECT ACCESS DEVICE SEGMENT

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UCBVOLI, UCBSTAB AND UCBDMCT ARE SAME IN TAPE SEGMENT AS
IN DIRECT ACCESS SEGMENT

24	(18) CHARACTER	4	UCBVTOC	RELATIVE ADDRESS OF VTOC FOR THIS VOLUME, IN FORM TTR0
28	(1C) CHARACTER	6	UCBVOLI	VOLUME SERIAL NUMBER
34	(22) BITSTRING 1... ..	1	UCBSTAB UCBBSVL	VOLUME STATUS X'80' VOLUME DEMOUNTABLE BY DATA MANAGEMENT (DIRECT ACCESS) (OS/VS2)
	1... ..		UCBDVSHR	X'80' DEVICE NOT SHARABLE AMONG SEVERAL CPU'S (3420 MAGNETIC TAPE DEVICES ONLY)
	.1... ..		UCBPGFL	X'40' UCB IS OPEN AND IS BEING USED AS A PAGE FILE
	..1... ..		UCBPRSRS	X'20' DURING VOLUME ATTRIBUTE PROCESSING THIS BIT IS USED BOTH TO DENOTE UCB'S THAT WERE MARKED PERMANENTLY RESIDENT PRIOR TO GETTING CONTROL AND TO IDENTIFY DEVICES THAT WERE SELECTED BY THE OPERATOR FOR MOUNTING VOLUMES (DIRECT

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
..1.			UCBBALB	ACCESS) X'20' ADDITIONAL VOLUME LABEL PROCESSING (TAPE)
...1			UCBBPRV	X'10' PRIVATE VOLUME USE STATUS
.... 1...			UCBBPUB	X'08' PUBLIC VOLUME USE STATUS
.... .1..			UCBBSTR	X'04' STORAGE VOLUME USE STATUS (DIRECT ACCESS) THE VOLUME MOUNTED HAS AN AMERICAN NATIONAL STANDARD LABEL (TAPE)
.... ..1.			UCBSHAR	X'02' VOLUME SHAREABLE AMONG JOB STEPS (OS/V52)
.... ...1			UCBBNUL	X'01' CONTROL VOLUME A CATALOG DATA SET IS ON THIS VOLUME (DIRECT ACCESS) IF THE MULTIPLE CONSOLE SUPPORT OPTION IS IN THE SYSTEM, DEMOUNT OR MOUNT MESSAGES HAVE BEEN ISSUED AND THE MESSAGE ID'S ARE AT OFFSETS 40 THROUGH 45. OPEN WILL DELETE THE MESSAGES AND TURN THIS BIT OFF. (TAPE)
35	(23) HEX	1	UCBDMCT	VOLUME USE BYTE
	1... ..		UCBMOUNT	X'80' IF 0, A MOUNT VERIFICATION HAS BEEN PERFORMED. IF 1, A MOUNT REQUEST HAS BEEN ISSUED. (DIRECT ACCESS) FOR TAPE, THE FOLLOWING MEANINGS

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
				<p>APPLY. NORMAL SCHEDULER PROCESSING IF 0, NO VOLUME HAS BEEN MOUNTED. IF 1, A VOLUME HAS BEEN MOUNTED BUT NO VOLUME LABEL PROCESSING HAS BEEN PERFORMED. SL OPEN ROUTINE IF 0, STANDARD VOLUME LABEL AND CORRECT SERIAL NUMBER HAVE BEEN VERIFIED. IF 1, VOLUME LABEL IS NOT STANDARD FORMAT OR SERIAL NUMBER IS NOT CORRECT. (A MOUNT MESSAGE HAS BEEN ISSUED.) NSL OPEN ROUTINE IF 0, NON-STANDARD VOLUME LABEL HAS BEEN VERIFIED. IF 1, VOLUME LABEL IS NOT STANDARD FORMAT. (CONTROL PASSES TO THE PROCESSING PROGRAM'S NON-STANDARD LABEL PROCESSING ROUTINE.) VOLUME LABEL IS STANDARD FORMAT. (CONTROL REMAINS WITH THE OPEN ROUTINE. A MOUNT MESSAGE HAS BEEN ISSUED.) BLP OPEN ROUTINE IF 0, VOLUME LABEL HAS NOT BEEN PROCESSED.</p>

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.111 1111			UCBDMC	X'7F' NUMBER OF DCB'S OPEN FOR THIS VOLUME

36	(24) SIGNED	1	UCBSQC	NUMBER OF RESERVE MACRO INSTRUCTIONS ISSUED
37	(25) BITSTRING	1	UCBFL4	DIRECT ACCESS FLAG BYTE
	1...		UCBDAVV	X'80' DIRECT ACCESS VOLUME VERIFICATION IN CONTROL (DAVV)
	.1..		UCBWDAV	X'40' DAVV WAITING FOR MOUNT
	..1.		UCBRESVP	X'20' RESERVE CHANNEL PROGRAM PENDING
	...1		UCBDSS	X'10' READ HOME ADDRESS AND READ RECORD ZERO OPERATIONS HAVE BEEN PERFORMED BY DYNAMIC SUPPORT SYSTEM (DSS)
	.... 1...		UCBATTN	X'08' 3330V ATTENTION RECEIVED
	.... .1..		UCBHOLD	X'04' 3330V CYLINDER FAULT PENDING
	.... ..1.		UCBMAT	X'02' 3330V ATTENTION OVERDUE
	.... ....1		UCBRRP	X'01' RESERVE/RELEASE PENDING
38	(26) SIGNED	1	UCBUSER	NUMBER OF CURRENT USERS
39	(27) SIGNED	1	UCBSATI	ATTENTION TABLE INDEX SAVED BY THE SCHEDULER.

40	(28) A-ADDRESS	4	UCBBASE	ADDRESS OF BASE EXPOSURE UCB

44	(2C) A-ADDRESS	4	UCBNEXP	BASE ADDRESS OF LAST STARTED EXPOSURE NON-BASE ADDRESS OF NEXT EXPOSURE

UCB

UCB

Data Area Descriptions 467

IN THE RING
THIS ADDRESS
POINTS TO THE
MULTIPROCESSING
PREFIX

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MAGNETIC TAPE SEGMENT

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UCBVOLI, UCBSTAB AND UCBDMCT ARE SAME IN TAPE SEGMENT AS
IN DIRECT ACCESS SEGMENT

24	(18)	SIGNED	2	UCBFSCT	DATA SET SEQUENCE COUNT
26	(1A)	SIGNED	2	UCBFSEQ	DATA SET SEQUENCE NUMBER
28	(1C)	CHARACTER	8		UCBVOLI, UCBSTAB AND UCBDMCT AS IN DIRECT ACCESS SEGMENT
36	(24)	CHARACTER	6	UCBFSEF	BEFORE OPEN, MESSAGE ID'S. SEE UCBSTAB BIT 7. AFTER OPEN, DATA SET SERIAL NUMBER RESERVED
42	(2A)	HEX	1	UCBRES1B	RESERVED
43	(2B)	BITSTRING	1	UCBTFL1	FLAG BYTE (TAPE DEVICES ONLY)
	1...	....		UCBNLTP	X'80' TAPE VOLUME DOES NOT CONTAIN LABELS
	.1..	....		UCBNSLTP	X'40' TAPE CONTAINS NON-STANDARD LABELS
	..1.	....		UCBDQDSP	X'20' DEQUEUE TAPE VOLUME WHEN DEMOUNTED
	...1	....		UCBRV005	X'10',,C'X' RESERVED
	.... 1..			UCBRV006	X'08',,C'X' RESERVED
	.... .1..			UCBRV007	X'04',,C'X' RESERVED
	.... ..1.			UCBRV008	X'02',,C'X' RESERVED
	.... ...1			UCBRV009	X'01',,C'X' RESERVED
44	(2C)	A-ADDRESS	4	UCBXTN	ADDRESS OF THE MAGNETIC TAPE UCB EXTENSION

UCB

UCB

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
44	(2C) BITSTRING	1	UCBVOPT	VOLUME STATISTICS
				OPTION BITS
	1... ..		UCBESV	X'80' ERROR STATISTICS BY VOLUME (ESV) RECORDS KEPT
	.1..		UCBEVA	X'40' ERROR VOLUME ANALYSIS (EVA) RECORDS KEPT
	..1.		UCBESVC	X'20' IF 0, ESV RECORDS SENT TO SYS1.MAN (X OR Y) DATA SET. IF 1, ESV RECORDS SENT TO CONSOLE.
	...1		UCBERPC	X'10' AN ERROR RECOVERY PROCEDURE HAS CONTROL
	.... 1...		UCBESVE	X'08' AN ESV RECORD HAS BEEN ISSUED FOR THIS VOLUME BECAUSE OF AN EOY CONDITION
	.... .1..		UCBRV20	X'04',,C'X' RESERVED
	.... ..1.		UCBRV21	X'02',,C'X' RESERVED
1		UCBRV22	X'01',,C'X' RESERVED
45	(2D) A-ADDRESS	3	UCBXTNB	ADDRESS OF THE MAGNETIC TAPE UCB EXTENSION

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UNIT RECORD WITH
 UNIVERSAL CHARACTER SET (1403, 3211)
 OR OPTICAL CHARACTER READER (3886)
 OR 3540 DEVICE
 OR 3800 DEVICE
 UCB SEGMENT

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24	(18)	A-ADDRESS	4	UCBXTADR	ADDRESS OF UCS UCB EXTENSION (1403 OR 3211) OR ADDRESS OF OPTICAL CHARACTER READER UCB EXTENSION (3886) OR ADDRESS OF 3540 DEVICE UCB EXTENSION (3540) OR ADDRESS OF 3800 UCB EXTENSION (3800)
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GRAPHICS EXCEPT 3270
UCB SEGMENT

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24	(18)	SIGNED	2	UCBSTART	LAST START ADDRESS
26	(1A)	SIGNED	1	UCBOPEN	NUMBER OF DCB'S THAT ARE CURRENTLY OPEN FOR THIS DEVICE
27	(1B)	CHARACTER	1	UCBGCB	GRAPHIC CONTROL BYTE USED FOR ATTENTION HANDLING
28	(1C)	A-ADDRESS	4	UCBTBE	ADDRESS OF TASK ENTRY (TE) BLOCK
32	(20)	HEX	4	UCBSNS	SENSE INFORMATION
36	(24)	A-ADDRESS	4	UCBBTA	ADDRESS OF BUFFER TABLE
36	(24)	SIGNED	1	UCBDI	DEVICE OR DEVICES ON A CONTROL UNIT TO WHICH BUFFER SECTIONS ARE ASSIGNED
37	(25)	A-ADDRESS	3	UCBBTB	ADDRESS OF BUFFER TABLE

UCB

UCB

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3270 GRAPHICS
UCB SEGMENT

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24	(18) BITSTRING	2	UCBAOF	ADDITIONAL OPTIONAL FEATURES. AN EXTENSION OF THE OPTIONAL FEATURES BYTE OF THE UCBTYP FIELD.
24	(18) BITSTRING	1	UCBAOF1	FIRST BYTE OF UCBAOF
	1...		UCBOFMCR	X'80' MAGNETIC CARD READER ADAPTER FOR 3277 ONLY
	.1..		UCBOFSP	X'40' SELECTOR PEN FOR 3277 ONLY
	..1.		UCBOFNL	X'20' NUMERIC LOCK FOR 3277 ONLY
	...1		UCBOFPTR	X'10' PREPARE TO READ FEATURE
	.... 1...		UCBR5V65	X'08',,C'X' RESERVED
	.... .1..		UCBR5V66	X'04',,C'X' RESERVED
	.... ..1.		UCBR5V67	X'02',,C'X' RESERVED
	.... ...1		UCBR5V68	X'01',,C'X' RESERVED
25	(19) BITSTRING	1	UCBAOF2	SECOND BYTE OF UCBAOF
	1...		UCBR5V69	X'80',,C'X' RESERVED
	.1..		UCBR5V70	X'40',,C'X' RESERVED
	..1.		UCBR5V71	X'20',,C'X' RESERVED
	...1		UCBR5V72	X'10',,C'X' RESERVED
	.... 1...		UCBR5V73	X'08',,C'X' RESERVED
	.... .1..		UCBR5V74	X'04',,C'X' RESERVED
	.... ..1.		UCBR5V75	X'02',,C'X' RESERVED
	.... ...1		UCBR5V76	X'01',,C'X' RESERVED
26	(1A) SIGNED	1	UCBATNCT	ATTENTION COUNT. THE NUMBER OF ATTENTIONS NOT

UCB

UCB

Data Area Descriptions 471

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
27	(1B) BITSTRING	1		SERVICED IN THE LINE GROUP. PRESENT ONLY IF THE DEVICE INDEX FIELD IS 1. OTHERWISE, THIS FIELD IS RESERVED.
	1... ..		UCBOLTEP	UCBGCB CONTROL BYTE. USED FOR ATTENTION HANDLING FLAGS X'80' OLTEP IN CONTROL OF THE DEVICE
	.1.. ..		UCBRV77	X'40',,C'X' RESERVED
	..1.		UCBRV78	X'20',,C'X' RESERVED
	...1		UCBRV79	X'10',,C'X' RESERVED
	.... 1...		UCBRTIAC	X'08' READ TI ACTIVE
	.... .1..		UCBRIPND	X'04' READ INITIAL PENDING
	.... ..1.		UCBSKPF6	X'02' SKIP FLAG
	.... ...1		UCBATRCD	X'01' ATTENTION RECEIVED FROM THE DEVICE
<hr/>				
28	(1C) A-ADDRESS	4	UCBIRB	ADDRESS OF THE IRB USED FOR SCHEDULING THE SECOND LEVEL ATTENTION ROUTINE
<hr/>				
28	(1C) BITSTRING	1	UCBGRAF	GRAPHICS STATUS FLAGS (BTAM)
	1... ..		UCBOIP	X'80' OPEN IS IN PROGRESS
	.1.. ..		UCBDR0	X'40' DEVICE READY IN OPEN
	..1.		UCBDRNO	X'20' DEVICE READY NOT IN OPEN
	...1		UCBBTAM	X'10' USE BTAM IGG019UP
	.... 1...		UCBUPM	X'08' USE PROVIDED MODULE
	.... .1..		UCBRPND	X'04' READY PROCESSING NOT DONE
	.... ..1.		UCBDWNR	X'02' DEVICE WENT NOT READY
	.... ...1		UCBRV039	X'01' RESERVED BTAM

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
29	(1D) A-ADDRESS	3	UCBIRBA	ADDRESS OF THE IRB USED FOR SCHEDULING THE SECONDD LEVEL ATTENTION ROUTINE
32	(20) A-ADDRESS	4	UCBLDNCA	ADDRESS OF 3270 WORK AREA ESTABLISHED BY VTAM
32	(20) A-ADDRESS	4	UCBRDYQ	ASYNCHRONOUS READY NOTIFICATION IRB ADDRESS (BTAM)
32	(20) SIGNED	1	UCBINRLN	SAME AS UCBIRLN
32	(20) SIGNED	1	UCBIRLN	INITIALIZED RLN. THE RELATIVE LINE NUMBER (RLN) OF THE IOB INITIALIZED FOR A READ INITIAL. IF 0, NO READ INITIAL IS OUTSTANDING. PRESENT ONLY IF THE DEVICE INDEX FIELD IS 1. OTHERWISE, THIS FIELD IS RESERVED.
33	(21) A-ADDRESS	3	UCBLDNCB	ADDRESS OF 3270 WORK AREA ESTABLISHED BY VTAM
33	(21) A-ADDRESS	3	UCBRDYQA	ASYNCHRONOUS READY NOTIFICATION IRB ADDRESS (BTAM)
36	(24) A-ADDRESS	4	UCBCTLNK	SAME AS UCBCTLNA BELOW
36	(24) SIGNED	1	UCBRLN	DEVICE INDEX. INDEX TO THE DEB UCB ADDRESS FIELD FOR THIS DEVICE. THIS VALUE IS ALSO THE RELATIVE LINE NUMBER.

UCB

UCB
Data Area Descriptions 473

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
37	(25) A-ADDRESS	3	UCBCTLNA	CONTROL BLOCK LINK. IF THE DEVICE INDEX FIELD IS 1, THIS FIELD CONTAINS THE ADDRESS OF THE DEB FOR THE LINE GROUP. IF THE DEVICE INDEX FIELD IS BETWEEN 2 AND 255 INCLUSIVE, THIS FIELD CONTAINS THE ADDRESS OF THE UCB WITH A DEVICE INDEX OF 1.

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3704, 3705 TELEPROCESSING DEVICE
UCB SEGMENT

=====

24	(18) A-ADDRESS	4	UCBRV040	RESERVED FOR USE AS TELEPROCESSING EXTENSION POINTER
28	(1C) A-ADDRESS	4	UCBICNCB	POINTER TO VTAM'S ICNCB

=====

CHANNEL-TO-CHANNEL (CTC) DEVICE
UCB SEGMENT

=====

24	(18) A-ADDRESS	4	UCBCTCAD	ADDRESS OF AN SRB/IOSB TO BE USED FOR SENSE COMMAND BYTE BY IECTCATN IF UCBCTC80 BIT IS SET TO ZERO
24	(18) A-ADDRESS	4	UCBCTCAL	ADDRESS OF JES3 ROUTINE FOR SWITCHING TO ALTERNATE PATH CTC IF UCBCTC80 BIT IS SET TO ONE

UCB

UCB

28	(1C) BITSTRING	1	UCBCTCF1	CHANNEL-TO-CHAN NEL (CTC) DEVICE FLAG BYTE
	1... ..		UCBCTC80	X'80',,C'X' THIS BIT IS ABOVE WORD HAS UCBCTCAL MEANING. IF THIS BIT IS OFF, ABOVE WORD HAS UCBCTCAD MEANING.
	.1.. ..		UCBRV076	X'40',,C'X' RESERVED
	..1.		UCBRV077	X'20',,C'X' RESERVED
	...1		UCBRV078	X'10',,C'X' RESERVED
	.... 1...		UCBRV079	X'08',,C'X' RESERVED
	.... .1..		UCBRV080	X'04',,C'X' RESERVED
1.		UCBRV081	X'02',,C'X' RESERVED
1		UCBRV082	X'01',,C'X' RESERVED
29	(10) HEX	3	UCBRV042	RESERVED

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3851 OR 3838 DEVICE
UCB SEGMENT

=====

24	(18) A-ADDRESS	4	UCBIOSBA	ADDRESS OF IOSB. SET BY IOS FOR ERROR CONDITIONS.
28	(1C) A-ADDRESS	4	UCBRV066	RESERVED

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UNIT CONTROL BLOCK EXTENSIONS
COMMON UCB EXTENSION

THIS EXTENSION IS POINTED TO BY THE UCBEXTPT FIELD IN THE
COMMON SEGMENT AND IS NOT CONTIGUOUS TO THE UCB.

0 (0) STRUCTURE 0 UCBCMEXT ,

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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0) SIGNED	1	UCBETI	A BINARY NUMBER USED BY THE EXIT EFFECTOR ROUTINE TO COMPLETE THE 8-BYTE NAME OF AN IBM-SUPPLIED ERROR ROUTINE FOR THIS DEVICE
1	(1) SIGNED	1	UCBSTI	INCREMENT WHICH, WHEN MULTIPLIED BY 10, BECOMES AN INDEX TO THE STATISTICS TABLE (STATAB)
2	(2) SIGNED	1	UCBDTI	INDEX TO THE DEVICE TABLE
3	(3) SIGNED	1	UCBATI	INDEX TO THE ATTENTION TABLE (ANTAB) OR OPTIONAL JOB ENTRY SUBSYSTEM (JES) FLAG BYTE
1...	....		UCBRSV04	X'80',,C'X' RESERVED
.1..	....		UCBRSV05	X'40',,C'X' RESERVED
..1.	....		UCBRSV06	X'20',,C'X' RESERVED
...1	....		UCBRSV07	X'10',,C'X' RESERVED
.... 1..			UCBRSV08	X'08',,C'X' RESERVED
.... .1..			UCBRSV09	X'04',,C'X' RESERVED
.... ..1.			UCSHALI	X'02' OPTIONAL JOB ENTRY SUBSYSTEM (JES) ALLOCATION INDICATOR
.... ...1			UCBHPDV	X'01' OPTIONAL JOB ENTRY SUBSYSTEM (JES) PSEUDO-DEVICE
4	(4) SIGNED	1	UCBSNSCT	COUNT OF SENSE BYTES PRESENTED BY THIS DEVICE
5	(5) BITSTRING	1	UCBFLP1	FLAG BYTE

UCB

UCB

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
1... ..			UCBNSRCH	X'80' THE CURRENTLY ALLOCATED VOLUME WAS SPECIFICALLY REQUESTED BY VOLUME SERIAL NUMBER. IT IS NOT AVAILABLE FOR ASSIGNMENT BY OPEN/EOV FOR A NON-SPECIFIC VOLUME REQUEST.
.1.. ..			UCBSHRUP	X'40' SHAREABLE WHEN IN UNIPROCESSOR MODE
..1.			UCBNSWAP	X'20' IF THIS BIT IS ON AND UCBPRES BIT IS ON, THIS FIXED HEAD DEVICE CANNOT BE SHAPPED
...1			UCBINHIO	X'10' INHIBIT HIO FROM SVC 33
.... 1...			UCBSWAPF	X'08' WITH BIT SET, THE DEVICE IS ABLE TO BE SWAPPED
.... .1..			UCBERLOG	X'04' INDICATES PRESENCE OF AN ERROR LOG IN A DEVICE
.... ..1.			UCBRV035	X'02',,C'X' RESERVED
....1			UCBRV036	X'01',,C'X' RESERVED
6	(6) CHARACTER	2	UCBRV041	RESERVED

8	(8) SIGNED	2	UCBCCWOF	OFFSET TO CCW PREFIX
10	(A) BITSTRING	2	UCBPHSK	PATH MASK FOR MESSAGES ISSUED

12	(C) SIGNED	2	UCBMFCNT	MEASUREMENT FACILITIES TOTAL DEVICE SIO COUNT. DURING NIP UCB INITIALIZATION, USED FOR PREVIOUSLY TESTED INDICATOR.

UCB

UCB

Data Area Descriptions 477

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
14	(E) SIGNED	2	UCBASID	ASID OF THE MEMORY TO WHICH THIS DEVICE IS ALLOCATED EXCEPT FOR UNALLOCATED TAPE. FOR UNALLOCATED TAPE, ASID OF THE LAST MEMORY TO WHICH THIS DEVICE WAS ALLOCATED.

16	(10) BITSTRING	1	UCBMIHTI	MISSING INTERRUPT HANDLER BYTE
	1... ..		UCBMIHSF	X'80' MISSING INTERRUPT HANDLER UCB SCAN FLAG
	.1..		UCBMIHPB	X'40' WITH BIT SET, MISSING INTERRUPT HANDLER CHECKING OF DEVICE IS PERMANENTLY BYPASSED
	...1.		UCBMIHT1	X'20' WITH BIT SET, MISSING INTERRUPT HANDLER CHECKING OF DEVICE IS TEMPORARILY BYPASSED
	...1		UCBMIHT2	X'10' WITH BIT SET, MISSING INTERRUPT HANDLER CHECKING OF DEVICE IS TEMPORARILY BYPASSED
	.... 1...		UCBRV084	X'08' RESERVED
	.... .1..		UCBRV085	X'04' RESERVED
	.... ..1.		UCBRV086	X'02' RESERVED
	.... ...1		UCBRV087	X'01' RESERVED
17	(11) CHARACTER	3	UCBWTOID	WTO MESSAGE IDENTIFIER

20	(14) A-ADDRESS	4	UCBDDT	ADDRESS OF DEVICE-DEPENDENT TABLE ASSOCIATED WITH UCB

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
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MAGNETIC TAPE
UCB EXTENSION

THIS EXTENSION IS POINTED TO BY THE UCBXTN FIELD OF THE
UCB AND IS NOT CONTIGUOUS TO THE UCB.

0	(0) STRUCTURE	0	UCBMT	, UCBXTN > UCBMT
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0	(0) SIGNED	2	UCBCTD	SERIAL NUMBER IN BINARY OF TAPE DRIVE UPON WHICH THE VOLUME WAS CREATED
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2	(2) SIGNED	1	UCBTRT	TEMPORARY READ ERROR THRESHOLD (IF 0, EVA IS NOT IN EFFECT). A BINARY NUMBER FROM 1 THROUGH 255 AS SELECTED AT SYSGEN TIME ON THE SCHEDULR MACRO BY EVA=(N1,N2) WHERE N1 = TEMPORARY READ ERROR THRESHOLD.
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3	(3) SIGNED	1	UCBTWT	TEMPORARY WRITE ERROR THRESHOLD (IF 0, EVA IS NOT IN EFFECT). A BINARY NUMBER FROM 1 THROUGH 255 AS SELECTED AT SYSGEN TIME ON THE SCHEDULR MACRO BY EVA=(N1,N2) WHERE N2 = TEMPORARY WRITE ERROR THRESHOLD.
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4	(4) SIGNED	1	UCBTR	THE NUMBER (BINARY) OF TEMPORARY READ ERRORS THAT HAVE OCCURRED
5	(5) SIGNED	1	UCBTW	THE NUMBER (BINARY) OF TEMPORARY WRITE ERRORS

UCB

UCB

Data Area Descriptions 479

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
6	(6) SIGNED	2	UCBSIO	THAT HAVE OCCURRED THE NUMBER (BINARY) OF START I/O OPERATIONS THAT HAVE OCCURRED
8	(8) SIGNED	1	UCBFR	THE NUMBER (BINARY) OF PERMANENT READ ERRORS THAT HAVE OCCURRED
9	(9) SIGNED	1	UCBPW	THE NUMBER (BINARY) OF PERMANENT WRITE ERRORS THAT HAVE OCCURRED
10	(A) SIGNED	1	UCBNB	THE NUMBER (BINARY) OF NOISE BLOCKS THAT HAVE BEEN ENCOUNTERED
11	(B) CHARACTER	1	UCBMS	MODE SET OPERATION CODE FOR DATA BLOCKS ON A 3420 MAGNETIC TAPE UNIT
12	(C) SIGNED	2	UCBERG	THE NUMBER (BINARY) OF ERASE GAPS THAT HAVE BEEN ENCOUNTERED
14	(E) SIGNED	2	UCBCLN	THE NUMBER (BINARY) OF CLEANER ACTIONS THAT HAVE OCCURRED

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OPTICAL CHARACTER READER (3886)

UCB EXTENSION

THIS EXTENSION IS POINTED TO BY THE UCBXTADR FIELD OF THE UCB AND IS NOT CONTIGUOUS TO THE UCB.

0	(0) STRUCTURE	0	UCBOCR	, UCBXTADR > UCBOCR
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OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
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3800 DEVICE
UCB EXTENSION
THIS EXTENSION IS POINTED TO BY THE UCBXTADR FIELD OF THE
UCB AND IS NOT CONTIGUOUS TO THE UCB.

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0	(0)	STRUCTURE	0	UCB3800X	, UCBXTADR > UCB3800X
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0 (0) BITSTRING 1 UCBOPTNS OPTIONAL
FEATURES
INSTALLED ON
PRINTER
1... .... UCBRV051 X'80',,C'X'
RESERVED
.1.. .... UCBRV052 X'40',,C'X'
RESERVED
..1. .... UCBRV053 X'20',,C'X'
RESERVED
...1 .... UCBRV054 X'10',,C'X'
RESERVED
.... 1... UCBRV055 X'08',,C'X'
RESERVED
.... .1.. UCBRV056 X'04',,C'X'
RESERVED
.... ..1. UCBBRSTR X'02' RESERVED
.... ...1 UCBRV083 X'01',,C'X'
RESERVED
1 (1) SIGNED 1 UCBCGMNO NUMBER OF
WRITEABLE
CHARACTER
GENERATION
MODULES
2 (2) BITSTRING 1 UCBGRAFS GRAPHIC
CHARACTER FLAG
BYTE
1... .... UCBRV046 X'80',,C'X'
RESERVED
.1.. .... UCBRV047 X'40',,C'X'
RESERVED
..1. .... UCBRV048 X'20',,C'X'
RESERVED
...1 .... UCBRV049 X'10',,C'X'
RESERVED
.... 1... UCBGRAF0 X'08' WCGM 0
HAS BEEN
MODIFIED BY A
GRAPHIC
CHARACTER
MODIFICATION
.... .1.. UCBGRAF1 X'04' WCGM 1
HAS BEEN
MODIFIED BY A
GRAPHIC
CHARACTER
MODIFICATION

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UCB

UCB

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... .1.			UCBGRAF2	X'02' WCGM 2 HAS BEEN MODIFIED BY A GRAPHIC CHARACTER MODIFICATION
.... .1.1			UCBGRAF3	X'01' WCGM 3 HAS BEEN MODIFIED BY A GRAPHIC CHARACTER MODIFICATION
3 (3) BITSTRING		1	UCBACTIV	ACTIVE FEATURES
1...			UCBRV057	X'80',,C'X' RESERVED
.1..			UCBRV058	X'40',,C'X' RESERVED
..1.			UCBRV059	X'20',,C'X' RESERVED
...1			UCBRV060	X'10',,C'X' RESERVED
.... 1...			UCBRV061	X'08',,C'X' RESERVED
.... .1..			UCBRV062	X'04',,C'X' RESERVED
.... .1.			UCBRV063	X'02',,C'X' RESERVED
.... .1.1			UCBBRSTA	X'01' RESERVED

4 (4) CHARACTER		4	UCBCGMID	FOUR ONE-BYTE ID'S FOR CHARACTER MODULES LOADED IN WRITEABLE CHARACTER GENERATION MODULES (WCGM'S)

8 (8) CHARACTER		4	UCBCHAR1	NAME OF FIRST TRANSLATE TABLE

12 (C) CHARACTER		4	UCBCHAR2	NAME OF SECOND TRANSLATE TABLE

16 (10) CHARACTER		4	UCBCHAR3	NAME OF THIRD TRANSLATE TABLE

20 (14) CHARACTER		4	UCBCHAR4	NAME OF FOURTH TRANSLATE TABLE

24 (18) CHARACTER		4	UCBFCBNM	FORMS CONTROL BUFFER (FCB) IMAGE NAME

UCB

UCB
Data Area Descriptions 483

28	(1C)	CHARACTER	4	UCBIMAGE	FORMS OVERLAY IMAGE IDENTIFICATION
32	(20)	SIGNED	2	UCBLDATA	LOST DATA PAGE COUNT
34	(22)	SIGNED	2	UCBPSID	ID OF THE LAST FUSED PAGE FOR SYSTEM RESTART OR PAGE AT THE TRANSFER STATION FOR CANCEL KEY
36	(24)	A-ADDRESS	4	UCBMORBF	MISCELLANEOUS DATA RECORDING (MDR) BUFFER ADDRESS
36	(24)	SIGNED	1	UCBRV075	RESERVED
37	(25)	A-ADDRESS	3	UCBMORBA	MDR BUFFER ADDRESS

UNIT RECORD WITH
 UNIVERSAL CHARACTER SET (1403, 3211)
 UCB EXTENSION
 THIS EXTENSION IS POINTED TO BY THE UCBXTADR FIELD OF THE
 UCB AND IS NOT CONTIGUOUS TO THE UCB.

0	(0)	STRUCTURE	0	UCBUCS	, UCBXTADR > UCBUCS
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0	(0)	CHARACTER	4	UCBUCSID	UCS IMAGE IDENTIFICATION IN BUFFER
4	(4)	BITSTRING	1	UCBUCSOP	FORMAT OF UCS IMAGE IN BUFFER (0 FOR OPTION)
	1...	....		UCBUCS01	X'80', UCS IMAGE IS A DEFAULT IMAGE
	.1..	....		UCBUCS02	X'40', UCS IMAGE IS IN FOLD MODE
	..1.	....		UCBRV39	X'20',,C'X' RESERVED
	...1	....		UCBRV40	X'10',,C'X' RESERVED
	.... 1..			UCBRV41	X'08',,C'X' RESERVED
	.... .1..			UCBRV42	X'04',,C'X' RESERVED
	.... ..1.			UCBRV43	X'02',,C'X' RESERVED

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
.... .1			UCBUCSPE	X'01' UCS IMAGE HAS PARITY ERROR (3211)
5 (5) BITSTRING		1	UCBFCBOP	RESERVED (1403) OR FCB OPTIONS (3211) (0 FOR OPTION)
1... ..			UCBFCB01	X'80' FCB IMAGE IS A DEFAULT IMAGE
.1.. ..			UCBRSV44	X'40',,C'X' RESERVED
..1.			UCBRSV45	X'20',,C'X' RESERVED
...1			UCBRSV46	X'10',,C'X' RESERVED
.... 1...			UCBRSV47	X'08',,C'X' RESERVED
.... .1..			UCBRSV48	X'04',,C'X' RESERVED
.... ..1.			UCBRSV49	X'02',,C'X' RESERVED
.... .1			UCBFCBPE	X'01' FCB IMAGE HAS PARITY ERROR
6 (6) HEX		1	UCBRSV51	RESERVED
7 (7) SIGNED		1	UCBERCNT	CONTAINS A COUNT OF THE ERRORS THAT HAVE OCCURRED. THE COUNT, WHICH MAY WRAP AROUND, IS WRITTEN IN STANDARD OBR RECORDS (ONE PER ERROR) AND IN NEW DEVICE-DEPENDEN T OBR RECORDS (0 TO 3 PER ERROR) AND SERVE TO RELATE TO EACH OTHER THE STANDARD AND DEVICE-DEPENDEN T OBR RECORDS THAT PERTAIN TO EACH ERROR (3211)
8 (8) CHARACTER		4	UCBFCBID	THE FCB IMAGE IDENTIFICATION
12 (C) A-ADDRESS		4	UCBERADR	THE ADDRESS OF THE ERP LOGOUT AREA

UCB	0 (0)	UCBDKAMX	6 X'80'
UCBACTIV	3 (3)	UCBDKBYT	6 (6)
UCBACTV	-504 X'02'	UCBDMC	35 X'7F'
UCBAF	1 X'40'	UCBDMCT	35 (23)
UCBALOC	3 X'08'	UCBDQDSDP	43 X'20'
UCBALTCU	1 X'02'	UCBDORNO	28 X'20'
UCBALTPH	1 X'01'	UCBDRO	28 X'40'
UCBAMV	1 X'40'	UCBDISM	19 X'42'
UCBAOF	24 (18)	UCBDSS	37 X'10'
UCBAOF1	24 (18)	UCBDTI	2 (2)
UCBAOF2	25 (19)	UCBDUC	0 X'20'
UCBASID	14 (E)	UCBDUDN1	17 X'20'
UCBASNS	7 X'40'	UCBDUDN2	17 X'10'
UCBATI	3 (3)	UCBDVCLS	18 (12)
UCBATNCT	26 (1A)	UCBDVPHR	17 X'01'
UCBATRCO	27 X'01'	UCBDVSHR	34 X'80'
UCBATTN	37 X'08'	UCBDWNR	28 X'02'
UCBATTTP	20 X'80'	UCBD1600	16 X'04'
UCBBALB	34 X'20'	UCBD6250	16 X'02'
UCBBASE	40 (28)	UCBENVRD	1 X'08'
UCBBNUL	34 X'01'	UCBERADR	12 (C)
UCBBOX	0 X'10'	UCBERCNT	7 (7)
UCBBPRV	34 X'10'	UCBERG	12 (C)
UCBBPUB	34 X'08'	UCBERLOG	5 X'04'
UCBBRSTA	3 X'01'	UCBERPC	44 X'10'
UCBBRSTR	0 X'02'	UCBESV	44 X'80'
UCBBSTR	34 X'04'	UCBESVC	44 X'20'
UCBBSVL	34 X'80'	UCBESVE	44 X'08'
UCBBSY	6 X'80'	UCBETI	0 (0)
UCBBTA	36 (24)	UCBEVA	44 X'40'
UCBBTAM	28 X'10'	UCBEXTP	21 (15)
UCBBTB	37 (25)	UCBEXTPT	20 (14)
UCBCCHOF	8 (8)	UCBFCBID	8 (8)
UCBCGMID	4 (4)	UCBFCBNM	24 (18)
UCBCGMNO	1 (1)	UCBFCBOP	5 (5)
UCBCHA	4 (4)	UCBFCBO1	5 X'80'
UCBCHAN	4 (4)	UCBFCBPE	5 X'01'
UCBCHAR1	8 (8)	UCBFLA	6 (6)
UCBCHAR2	12 (C)	UCBFLB	7 (7)
UCBCHAR3	16 (10)	UCBFLC	20 (14)
UCBCHAR4	20 (14)	UCBFLP1	5 (5)
UCBCHGS	3 X'40'	UCBFL4	37 (25)
UCBCHM	8 (8)	UCBFL5	1 (1)
UCBCHM1	8 (8)	UCBFRID	0 (0)
UCBCLN	14 (E)	UCBFSCT	24 (18)
UCBCHEXT	0 (0)	UCBFSEQ	26 (1A)
UCBCNT	9 (9)	UCBFSER	36 (24)
UCBCPU	11 (B)	UCBGCB	27 (1B)
UCBCRHRV	7 X'08'	UCBGRAF	28 (1C)
UCBCRHSN	7 X'04'	UCBGRAFS	2 (2)
UCBCTCAD	24 (18)	UCBGRAF0	2 X'08'
UCBCTCAL	24 (18)	UCBGRAF1	2 X'04'
UCBCTCF1	28 (1C)	UCBGRAF2	2 X'02'
UCBCTC80	28 X'80'	UCBGRAF3	2 X'01'
UCBCTD	0 (0)	UCBHALI	3 X'02'
UCBCTLNA	37 (25)	UCBHOLD	37 X'04'
UCBCTLNK	36 (24)	UCBHPDV	3 X'01'
UCBCUB	-480 X'08'	UCBICNCB	28 (1C)
UCBDADI	3 X'01'	UCBID	2 (2)
UCBDVV	37 X'80'	UCBIMAGE	28 (1C)
UCBDCC	1 X'80'	UCBIN	12 X'80'
UCBDDRSW	20 X'01'	UCBINHIO	5 X'10'
UCBDDT	20 (14)	UCBINRLN	32 (20)
UCBDI	36 (24)	UCBIOQ	-4 (-4)

UCBIORST	7 X'80'	UCBPUB	12 X'20'
UCBIOSBA	24 (18)	UCBPW	9 (9)
UCBIRB	28 (1C)	UCBQISCE	-504 X'01'
UCBIRBA	29 (1D)	UCBRDATA	4 (4)
UCBIRLN	32 (20)	UCBRDYQ	32 (20)
UCBITF	20 X'10'	UCBRDYQA	33 (21)
UCBIVRR	20 X'04'	UCBRESV	3 X'20'
UCBIVRS	20 X'08'	UCBRESVH	7 X'10'
UCBJBMR	0 (0)	UCBRESVP	37 X'20'
UCBJES3	0 X'40'	UCBRES1B	42 (2A)
UCBLCI	10 (A)	UCBREW	12 X'10'
UCBLDATA	32 (20)	UCBRIPND	27 X'04'
UCBLDNCA	32 (20)	UCBRLN	36 (24)
UCBLDNCB	33 (21)	UCBRPND	28 X'04'
UCBLOCK	-8 (-8)	UCBRPS	17 X'10'
UCBMAT	37 X'02'	UCBRR	17 X'20'
UCBMDRBA	37 (25)	UCBRRP	37 X'01'
UCBMDRBF	36 (24)	UCBRSV04	3 X'80'
UCBMFCNT	12 (C)	UCBRSV05	3 X'40'
UCBMIHPB	16 X'40'	UCBRSV06	3 X'20'
UCBMIHSF	16 X'80'	UCBRSV07	3 X'10'
UCBMIHTI	16 (10)	UCBRSV08	3 X'08'
UCBMIHT1	16 X'20'	UCBRSV09	3 X'04'
UCBMIHT2	16 X'10'	UCBRSV10	18 X'02'
UCBMHSGP	0 X'04'	UCBRSV11	18 X'01'
UCBMONT	0 X'01'	UCBRSV20	44 X'04'
UCBMOUNT	35 X'80'	UCBRSV21	44 X'02'
UCBMS	11 (B)	UCBRSV22	44 X'01'
UCBMT	0 (0)	UCBRSV39	4 X'20'
UCBMTXPX	12 X'08'	UCBRSV40	4 X'10'
UCBNALOC	1 X'04'	UCBRSV41	4 X'08'
UCBNAME	13 (D)	UCBRSV42	4 X'04'
UCBNB	10 (A)	UCBRSV43	4 X'02'
UCBNEXP	44 (2C)	UCBRSV44	5 X'40'
UCBNLTP	43 X'80'	UCBRSV45	5 X'20'
UCBNRY	-384 X'40'	UCBRSV46	5 X'10'
UCBNSLTP	43 X'40'	UCBRSV47	5 X'08'
UCBNSRCH	5 X'80'	UCBRSV48	5 X'04'
UCBNSWAP	5 X'20'	UCBRSV49	5 X'02'
UCBOB	0 (0)	UCBRSV51	6 (6)
UCBOCR	0 (0)	UCBRSV65	24 X'08'
UCBOFMCR	24 X'80'	UCBRSV66	24 X'04'
UCBOFNL	24 X'20'	UCBRSV67	24 X'02'
UCBOFPTR	24 X'10'	UCBRSV68	24 X'01'
UCBOFSP	24 X'40'	UCBRSV69	25 X'80'
UCBOIP	28 X'80'	UCBRSV70	25 X'40'
UCBOLDSM	0 X'08'	UCBRSV71	25 X'20'
UCBOLTEP	27 X'80'	UCBRSV72	25 X'10'
UCBONLI	3 X'80'	UCBRSV73	25 X'08'
UCBOPEN	26 (1A)	UCBRSV74	25 X'04'
UCBOPTNS	0 (0)	UCBRSV75	25 X'02'
UCBOUT	12 X'40'	UCBRSV76	25 X'01'
UCBPGFL	34 X'40'	UCBRSV77	27 X'40'
UCBPGID	34 (22)	UCBRSV78	27 X'20'
UCBPMSK	10 (A)	UCBRSV79	27 X'10'
UCBPPA	8 X'80'	UCBRTIAC	27 X'08'
UCBPPB	8 X'20'	UCBRVDEV	17 X'08'
UCBPR	8 (8)	UCBRV005	43 X'10'
UCBPRES	3 X'04'	UCBRV006	43 X'08'
UCBPRSRS	34 X'20'	UCBRV007	43 X'04'
UCBPSNS	-480 X'10'	UCBRV008	43 X'02'
UCBPST	-448 X'20'	UCBRV009	43 X'01'
UCBPTH0	8 X'C0'	UCBRV014	8 X'08'
UCBPTH1	8 X'30'	UCBRV015	8 X'04'

CROSS REFERENCE

UCBRV016	8 X'02'	UCBSTART	24 (18)
UCBRV017	8 X'01'	UCBSTAT	3 (3)
UCBRV029	12 X'01'	UCBSTI	1 (1)
UCBRV035	5 X'02'	UCBSTND	2 X'FF'
UCBRV036	5 X'01'	UCBSWAPP	5 X'08'
UCBRV039	28 X'01'	UCBSYSR	3 X'02'
UCBRV040	24 (18)	UCBTBYT1	16 (10)
UCBRV041	6 (6)	UCBTBYT2	17 (11)
UCBRV042	29 (1D)	UCBTBYT3	18 (12)
UCBRV046	2 X'80'	UCBTBYT4	19 (13)
UCBRV047	2 X'40'	UCBTEB	28 (1C)
UCBRV048	2 X'20'	UCBTFL1	43 (2B)
UCBRV049	2 X'10'	UCBTICBT	20 X'02'
UCBRV051	0 X'80'	UCBTR	4 (4)
UCBRV052	0 X'40'	UCBTRT	2 (2)
UCBRV053	0 X'20'	UCBTW	5 (5)
UCBRV054	0 X'10'	UCBTWT	3 (3)
UCBRV055	0 X'08'	UCBTYP	16 (10)
UCBRV056	0 X'04'	UCBUA	5 (5)
UCBRV057	3 X'80'	UCBUCS	0 (0)
UCBRV058	3 X'40'	UCBUCSID	0 (0)
UCBRV059	3 X'20'	UCBUCSOP	4 (4)
UCBRV060	3 X'10'	UCBUCSO1	4 X'80'
UCBRV061	3 X'08'	UCBUCSO2	4 X'40'
UCBRV062	3 X'04'	UCBUCSPE	4 X'01'
UCBRV063	3 X'02'	UCBUDE	20 X'20'
UCBRV066	28 (1C)	UCBUNLD	3 X'10'
UCBRV067	6 X'20'	UCBUNTYP	19 (13)
UCBRV068	6 X'10'	UCBUPH	28 X'08'
UCBRV069	6 X'08'	UCBURINP	0 X'02'
UCBRV070	6 X'04'	UCBUSER	38 (26)
UCBRV071	6 X'02'	UCBVALPH	7 X'02'
UCBRV072	6 X'01'	UCBVHRSN	12 X'02'
UCBRV073	7 (7)	UCBVLPWR	17 X'02'
UCBRV075	36 (24)	UCBVLSER	0 (0)
UCBRV076	28 X'40'	UCBVLYER	6 X'40'
UCBRV077	28 X'20'	UCBVOLI	28 (1C)
UCBRV078	28 X'10'	UCBVOPT	44 (2C)
UCBRV079	28 X'08'	UCBVORSN	12 X'04'
UCBRV080	28 X'04'	UCBVRDEV	0 X'80'
UCBRV081	28 X'02'	UCBVSDR	1 X'10'
UCBRV082	28 X'01'	UCBVTOC	24 (18)
UCBRV083	0 X'01'	UCBWAA	20 X'40'
UCBRV084	16 X'08'	UCBWDAV	37 X'40'
UCBRV085	16 X'04'	UCBWGT	12 (C)
UCBRV086	16 X'02'	UCBWTOID	17 (11)
UCBRV087	16 X'01'	UCBXTADR	24 (18)
UCBRWTAU	17 X'08'	UCBXTN	44 (2C)
UCBSAP	-504 X'04'	UCBXTNB	45 (2D)
UCBSASK	1 X'20'	UCB1FEA0	16 X'80'
UCBSATI	39 (27)	UCB1FEA1	16 X'40'
UCBSFLS	6 (6)	UCB1FEA2	16 X'20'
UCBSHAR	34 X'02'	UCB1FEA3	16 X'10'
UCBSHRUP	5 X'40'	UCB1FEA4	16 X'08'
UCBSIGP	7 X'01'	UCB1FEA5	16 X'04'
UCBSIO	6 (6)	UCB1FEA6	16 X'02'
UCBSKPF6	27 X'02'	UCB1FEA7	16 X'01'
UCBSNS	32 (20)	UCB2OPT0	17 X'80'
UCBSNSCT	4 (4)	UCB2OPT1	17 X'40'
UCBSPA	8 X'40'	UCB2OPT2	17 X'20'
UCBSPB	8 X'10'	UCB2OPT3	17 X'10'
UCBSPST	7 X'20'	UCB2OPT4	17 X'08'
UCBSGC	36 (24)	UCB2OPT5	17 X'04'
UCBSTAB	34 (22)	UCB2OPT6	17 X'02'

UCB

UCB

UCB20PT7	17 X'01'
UCB2400	19 X'01'
UCB3CHAR	18 X'04'
UCB3COMM	18 X'40'
UCB3CTC	18 X'41'
UCB3DACC	18 X'20'
UCB3DISP	18 X'10'
UCB3TAPE	18 X'80'
UCB3UREC	18 X'08'
UCB3036	19 X'0D'
UCB3211	19 X'09'
UCB3400	19 X'03'
UCB3540X	0 (0)
UCB3791L	19 X'F1'
UCB3800	19 X'0E'
UCB3800X	0 (0)
UCB3838	19 X'4C'
UCB3895	19 X'19'
UCB42AD1	19 X'11'
UCB7443	19 X'3D'

UCBTYP

Common Name: Unit Control Block Type Bytes

Macro ID: UCBTYPES

DSECT Name: None

Created by: SYSGEN

Subpool and Key: Nucleus and key 0

Size: Variable

Pointed to by: None

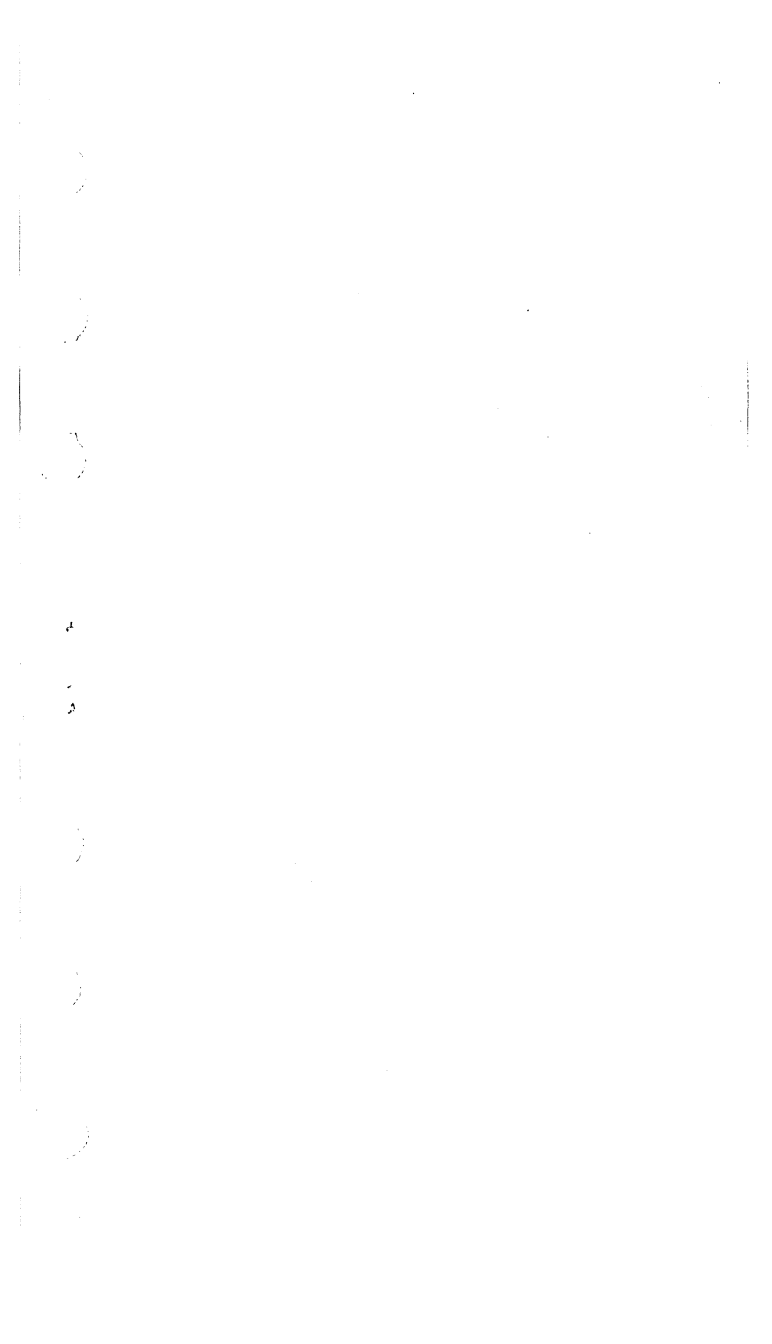
Serialization: None

Function: The UCB describes the characteristics of a device to the I/O supervisor and is used by the job scheduler during allocation of the device. There is a UCB for each device attached to the system.

*. NOTE - This is a mapping of the UCBTYP field of the UCB *. (UCB + X'10' through UCB + X'14'). The names defined are for mapping use only.

<u>OFFSETS</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>NAME</u>	<u>DESCRIPTION</u>
0	(0) STRUCTURE	0	UCBTYP	
=====				
UCBTYP FIELD				
=====				
UNIT RECORD DEVICE CLASS				

16	(10) BITSTRING	1		MODEL BITS
	1111		URIHEXF0	X'F0' I/O SUPERVISOR FLAGS
	1...		URIHEX80	X'80' RESERVED BIT
	.1..		URIHEX40	X'40' OVERRUNNABLE DEVICE
	..1.		URIHEX20	X'20' IF ON BURST MODE, IF OFF BYTE MODE
	...1		URIHEX10	X'10' DATA CHAINING
	.... 1111		URIHEX0F	X'0F' MODEL CODE
		URIHEX00	X'00' 1442, 2520 CARD READ PUNCH
1		URIHEX01	X'01' 1442, 2520 CARD PUNCH ONLY





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