

z/OS



# JES2 Data Areas Volume 3



z/OS



# JES2 Data Areas Volume 3

**Note**

Before using this information and the product it supports, be sure to read the general information under "Notices" on page 313.

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This edition applies to Version 1 Release 13 of z/OS (5694-A01) and to all subsequent releases and modifications until otherwise indicated in new editions.

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## About this information

This information is a graphic presentation of many data areas used by the z/OS operating system and by application programs. The data areas are one or more of the following:

- Programming interfaces
- Needed for debugging or diagnosis.

This information supports z/OS (5694-A01).

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## Who should use this information

This information is for system programmers who diagnose and debug operating system and programming problems. It provides information for debugging installation-provided programs or diagnosing IBM-provided programs. The user of this information should have a working knowledge of the functions and logic of the operating system.

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## How to use this information

Data areas are sequenced alphanumerically by data area acronym. Each data area has up to four sections:

- Programming Interface Information
- Header
- Data area map
- Cross-reference, if the data area map is long enough

## The header

The header includes some or all of the following:

<b>Common Name:</b>	The descriptive name of the data area.
<b>Macro ID:</b>	The name of the mapping macro for the data area. Mapping macros can be issued in programs to generate a copy of the data area.
<b>DSECT Name:</b>	Name of the DSECT (dummy control section) created by the mapping macro.
<b>Owning Component:</b>	Component name and component identifier in parentheses.
<b>Eye-Catcher ID:</b>	Character string identifier of the eye-catcher (sometimes called the <b>control block id</b> ) within the mapping macro. The offset and length of the eye-catcher are also included.
<b>Storage Attributes:</b>	The storage attributes of the data area, including the following: <ul style="list-style-type: none"><li><b>Main Storage:</b> Central storage attributes of the data area.</li><li><b>Virtual Storage:</b> Virtual storage attributes of the data area.</li><li><b>Auxiliary Storage:</b> Spool storage attributes of the data area.</li><li><b>Subpool and Key:</b> Subpool is the area of virtual storage that contains the data area. Key is the storage protect key for the storage represented by the data area.</li></ul>
<b>Size:</b>	The size of the data area in decimal bytes.
<b>Created by:</b>	Module, macro, or component whose use creates the data area.
<b>Pointed to by:</b>	Registers or data area fields that contain the address of the data area.
<b>Serialization:</b>	Method used to ensure that one user does not update a data area that is being updated or used by another user. The most common methods used for serialization are: <ul style="list-style-type: none"><li>• Lock or locks</li><li>• ENQ and DEQ macros</li><li>• Compare and Swap (CS) instruction</li></ul>

- Disablement, which is disabling interruptions by setting bits in the program status word (PSW) of the program using the data area

**Function:**

Brief description of the use of the data area.



## Data area map

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

The following is an example of the field descriptions for the ANYAREA data area:

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	384	ANYAREA	
0	(0)	CHARACTER		ANYBEGIN	BEGINNING OF ANYAREA
0	(0)	CHARACTER	4	ANYACRO	ACRONYM IN EBCDIC 'ANY '
4	(4)	ADDRESS	4	ANYADDR	ADDRESS OF NEXT ANYAREA ON QUEUE

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

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

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

Type	Description
ADDRESS	Address constant
BITSTRING	Bitstring constant
CHARACTER	Character value
DBL WORD	Double word boundary
FIXED	Arithmetic signed or unsigned value
HEX	Hexadecimal value
SIGNED	Arithmetic signed value
STRUCTURE	Level 1 control block name
UNSIGNED	Unsigned value

**Len** Size of the field in decimal bytes.

**Name (Dim)** The name of the field, bit, or mask.

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

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

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

## Cross reference

For each data area with more than 10 fields, the cross reference shows the following:

<b>Name</b>	The name of the field, bit, or mask.
<b>Hex Offset</b>	The hexadecimal offset of the field into the data area. For bits, the hexadecimal offset of the field containing the bit.
<b>Hex Value</b>	Values are shown only for bits, equates, and initialized character strings. For bits, the hexadecimal value shown implies the position of the bit in the field containing the bit.

Bit ANYBIT in the following illustration shows how to use the hexadecimal value. In the Example, cross reference for the ANYBIT bit looks like this:

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
ANYBIT	F0	80

In the map of the data area, the ANYBIT bit appears like this:

240	(F0)	FIXED	4	ANYWORD	CONTROL WORD
240	(F0)	BITSTRING	1	ANYBYTE	FLAG BYTE
		1... ..		ANYBIT	"X'80'" BIT ON MEANS THIS . . .

X'F0' is the offset of field ANYWORD into the data area. ANYWORD is a 4-byte field, which contains a 1-byte field named ANYBYTE. Both ANYWORD and ANYBYTE have the same offset. The first bit in both fields is named ANYBIT. Ignoring the other bits in the field ANYBYTE, if the ANYBIT bit is on, the value of field ANYBYTE would be 1000 0000, which is equivalent to X'80'. This value (X'80') is shown both in the Description in the data area map and in the column of the cross reference.

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## Programming interface information

This document contains information NOT intended to be used as programming interfaces of z/OS.

This document also contains intended programming interfaces that allow the customer to write programs to obtain the services of z/OS.

This information is identified where it occurs, either by an introductory statement to a chapter or section or by the following marking:

Programming Interface information
End of Programming Interface information

Unless otherwise specified, for data areas classified as programming interfaces, the **MACRO ID** and **DSECT NAME(S)** in the header are part of the programming interface. **ALL** other header information is included for diagnostic purposes **ONLY**.

Since a *data area name* that is designated as part of the programming interface is one of the following:

- MACRO ID
- DSECT NAME
- commonly-used name

before including the *data area name* in a program, refer to the data area header for the applicable **MACRO ID**.

If only certain fields in a data area are intended or not intended for use as a programming interface, the specific field name(s) are differentiated within the data area.

For data areas classified as programming interfaces, "RESERVED FOR USER" fields are part of the interface; all other "**RESERVED ...**" fields are **NOT** part of the interface.

For a field that is part of the programming interface, the only information that is part of the interface for writing programs is:

- field name
- data type
- field length
- description (purpose or allowed values)

**INCLUDE ONLY** data area: **ONLY** the MACRO ID is the programming interface. The DSECT NAME, constants, and data area itself are **NOT** part of the programming interface.

**TOKEN ONLY** data area: **ONLY** the address of the data area is a programming interface. The DSECT NAME, constants, and data area itself are **NOT** part of the programming interface.



---

**\$JCT Programming Interface information**

Programming Interface information

\$JCT

End of Programming Interface information

## \$JCT Heading Information

**Common Name:** JES2 Job Control Table  
**Macro ID:** \$JCT  
**DSECT Name:** JCT  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'JCT '  
 Offset: JCTIDENT-JCT  
 Length: 4

**Storage Attributes:** Subpool: 7 in JES2 main task environment; 230 in USER or SUBTASK environments  
 Key: 1  
 Residency: The \$JCT is a JES2 spool resident control block. Virtual storage can be anywhere (above or below 16M) in the JES2 main task and must be below 16M in all other environments. Real storage can be anywhere.

**Size:** JCTFEND-JCT is the length of the fixed portion.  
 The JCT is contained in a buffer of size \$BUFSIZE which is a field in \$HCT.

**Created by:** Initially created by HASPRDR or HASPNSR when a job enters the system.  
 In-storage versions of the control block are created by \$CBIO READ VERIFY=JCT.

**Pointed to by:** FSAJCTAD field of the \$FSACB data area  
 IOTJCT field of the \$IOT data area  
 JIBJCT field of the \$JIB data area  
 JIBJCTA field of the \$JIB data area (address on spool)  
 JQETRAK field of the \$JQE data area (address on spool)  
 SJBCT field of the \$SJB data area  
 Various fields in the processor work areas and parameter lists.

**Serialization:** Serialized under the JES2 TCB.

**Function:** The Job Control Table is the primary job oriented control block. It is created by the input service processor and written to spool. Other processors then read this control block and rewrite it to spool as needed. The control block contains two types of information: Accounting information from the accounting field of the JOB card or /\*JOBPARM control card and accounting information gathered during job processing. This control block is the primary contributor to the SMF Purge record (Type 26) as well as many other SMF records.

## \$JCT Map

Offsets		Type/Value	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	0	JCT	JOB CONTROL TABLE DSECT

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
-----					
The following fields are defined over the buffer prefix in order to ensure that they are never written to SPOOL.					
-----					
End of Comment					
0	(0)	X'50'	0	JCTFLAG5	"BUFMFLG1-BFPDSECT+JCT,1" Memory-only flag byte
0	(0)	X'80'	0	JCT5CKPT	"BUFM1CKP" Rewrite this JCT
		.... ...1		JCT5EXTA	"B'00000001" Local JCT extension allowed
0	(0)	X'5C'	0	JCTLEXTA	"BUFMEMW7-BFPDSECT+JCT,4,C'A" Local JCT extension address
Comment					
-----					
End of buffer prefix fields					
-----					
End of Comment					
0	(0)	BITSTRING	1	(0)	BUFFER CONTROL INFORMATION
0	(0)	X'68'	0	JCTSTART	*** START OF DATA WRITTEN TO SPOOL
Comment					
-----					
The following sub-section, generated by the SPID macro, must reside immediately after the I/O control data in every spool buffer.					
The following fields are defined:					
Eyecatcher - 4 bytes					
Job name - 8 bytes					
Job number - 4 bytes					
Job key - 4 bytes					
Dataset key - 4 bytes (or reserved if not applicable)					
-----					
End of Comment					
104	(68)	CHARACTER	4	JCTIDENT	Eyecatcher
108	(6C)	CHARACTER	8	JCTJNAME	Job name
116	(74)	SIGNED	4	JCTJBNUM	Job number
120	(78)	SIGNED	4	JCTJBKEY	Job key
124	(7C)	BITSTRING	4		Reserved
124	(7C)	X'18'	0	JCTSPLNG	**-JCTIDENT"
128	(80)	ADDRESS	2	JCTLENG	LENGTH OF JCT INCLUDING PREFIX
130	(82)	BITSTRING	1	JCTFLAG1	FLAGS 1 ---
		1... ....		JCT1SJOB	"X'80" Job ran because of \$\$ J
		.1.. ....		JCTBURST	"X'40" JOB OUTPUT BURST OPTION
		..1. ....		JCT1INTJ	"X'20" Internally created job (Job has no subsystem datasets)
		...1 ....		JCT1LDR	"X'10" JOB CREATED BY LOADER DEV.
		.... 1..		JCT1RECV	"X'08" JOB RECEIVED ON SYSOUT RCVR
		.... .1..		JCT1NUNK	"X'04" Token is NJE unknown
		.... ..1.		JCT1UNDF	"X'02" JCTJUSID is undefined user
		.... ...1		JCT1ODEL	"X'01" Job offloaded DISP=DELETE
131	(83)	BITSTRING	1	JCTJTFLG	JOB TERM FLAGS (SSJTFLG1)
132	(84)	CHARACTER	8	JCTJDVT	JDVT NAME
140	(8C)	BITSTRING	4	JCTTRAK_Z11	Track address (MTTR) of this JCT ( only valid up to version \$J2PZ111 )
144	(90)	BITSTRING	4	JCTSPIOT_Z11	Track address (MTTR) of 1st spin IOT ( only valid up to version \$J2PZ111 )

## \$JCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
148	(94)	BITSTRING	4	JCTIOT_Z11	Track address (MTTR) of 1st regular IOT ( only valid up to version \$J2PZ111 )
152	(98)	BITSTRING	4	JCTOCTTR_Z11	Track address (MTTR) of OCR table ( only valid up to version \$J2PZ111 )
156	(9C)	BITSTRING	4	JCTXTRK_Z11	Track address (MTTR) of 1st XMIT track ( only valid up to version \$J2PZ111 )
160	(A0)	BITSTRING	4	JCTXBUFO	BUFFER OFFSET IN 1ST XMIT TRACK
164	(A4)	BITSTRING	32	JCTSAMSK	SPOOLS ALLOWED MASK
196	(C4)	SIGNED	4	JCTPDDBK	PERIPHERAL DATA SET KEY
200	(C8)	SIGNED	4	JCTPDDBO	DS KEY FOR LAST INPUT Pddb OR 100 (X'64') IF NO SYSIN
204	(CC)	SIGNED	4	JCTCNVRC	RETURN CODE FROM JCL CONVERTER
204	(CC)	X'0'	0	JCTCOK	"0" JCL converted without err
204	(CC)	X'4'	0	JCTCJCL	"4" JCL error detected by CNV
204	(CC)	X'8'	0	JCTCIO	"8" I/O error detected by CNV
204	(CC)	X'4'	0	JCTCDUPL	"JCTCJCL" Duplicate logon executing
204	(CC)	X'C'	0	JCTCSECF	"12" Security envir. could not be established for the job
204	(CC)	X'10'	0	JCTCNWT	"16" JCL couldn't be converted The referenced JCLLIB data set not available
204	(CC)	X'24'	0	JCTCABND	"36" I/O error using RPLs
204	(CC)	X'26'	0	JCTCIOER	"38" I/O error on PROCLIB
204	(CC)	X'28'	0	JCTCJDVT	"40" Input JDVT not found
204	(CC)	X'36'	0	JCTCSYSE	"54" System error
204	(CC)	X'38'	0	JCTGMFAL	"56" Converter GETMAIN failed
204	(CC)	X'3C'	0	JCTCFOPN	"60" Fake open failure
208	(D0)	SIGNED	4	JCTUSER0	RESERVED FOR USER
212	(D4)	SIGNED	4	JCTUSER1	RESERVED FOR USER
216	(D8)	SIGNED	4	JCTUSER2	RESERVED FOR USER
220	(DC)	SIGNED	4	JCTUSER3	RESERVED FOR USER
224	(E0)	SIGNED	4	JCTUSER4	RESERVED FOR USER
228	(E4)	SIGNED	4	JCTUSER5	RESERVED FOR USER
232	(E8)	SIGNED	4	JCTUSER6	RESERVED FOR USER
236	(EC)	SIGNED	4	JCTUSER7	RESERVED FOR USER
240	(F0)	SIGNED	4	JCTUSER8	RESERVED FOR USER
244	(F4)	SIGNED	4	JCTUSER9	RESERVED FOR USER
248	(F8)	SIGNED	4	JCTUSERA	RESERVED FOR USER
252	(FC)	SIGNED	4	JCTUSERB	RESERVED FOR USER
256	(100)	SIGNED	4	JCTUSERC	RESERVED FOR USER
260	(104)	SIGNED	4	JCTUSERD	RESERVED FOR USER
264	(108)	SIGNED	4	JCTUSERE	RESERVED FOR USER
268	(10C)	SIGNED	4	JCTUSERF	RESERVED FOR USER
272	(110)	CHARACTER	2	JCTPRTY	PRIORITY OR JOB CARD 'PRTY='
274	(112)	SIGNED	2	JCTJSSTP	JOB SELECT RESTART STEP (SSRQSTEP)
276	(114)	SIGNED	2	JCTASID	ASID OF JOB
278	(116)	SIGNED	1	JCTVER	JCT version - contains the JES2 product level where the JCT was created. See \$J2Pxxx in \$HASPEQU.
278	(116)	X'2A'	0	JCTCVER	"42" Current version
279	(117)	BITSTRING	1		Reserved for future use
280	(118)	BITSTRING	1	JCTFLAG2	FLAG BYTE
		1... ....		JCT2TWOJ	"B'10000000" Two jobcards XMIT
		.1.. ....		JCT2AVDP	"B'01000000" DO NOT DO AUTH VERIFICATION IN JOB INITIATION, ALREADY DONE, JOB PASSED VERIFICATION CHECK
		..1. ....		JCT2AVF	"B'00100000" JOB FAILED AUTH VERIFICATION IN CALL FROM JES2
		...1 ....		JCT2AVD	"B'00010000" AUTH VERIFICATION DONE
		.... 1...		JCT2TJOB	"B'00001000" Job token received
		.... .1..		JCT2EXEC	"B'00000100" Job entered execution OK
		.... ..1.		JCT2SDCR	"B'00000010" SAF CALL FOR SYSIN CREATE NOT YET DONE FOR SYSIN DATA SETS
		.... ...1		JCT2IOT2	"B'00000001" SYSTEM DATA SETS SPAN 2 IOTS (NOT INCLUDING MULTI-DEST COPIES)
281	(119)	BITSTRING	1	JCTFLAG3	Flag Byte
		1... ....		JCT3TPI	"X'80" Transaction initiator
		.1.. ....		JCT3BATI	"X'40" Batch initiator



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		..1. ....		JCT3JDSP	"X'20" JESDS PROCESSING COMPLETED
		...1 ....		JCT3NCF	"X'10" Suppress notification of store-and-forward
		.... 1...		JCT3NCA	"X'08" Suppress notification of reached ultimate dest
		.... .1..		JCT3NOTK	"X'04" At least one D/S needs a Job Level Token
		.... .1.		JCT3FORM	"X'02" FORMS specified in JCL
		.... ...1		JCT3RJCS	"X'01" Job card processed locally
282	(11A)	BITSTRING	1	JCTJSFLG	JOB SELECT FLAGS (SSRQFLG1)
283	(11B)	BITSTRING	1	JCTSMFLG	SMF FLAGS
		11.1 1...		JCTSMFLO	"B'11011000" Reserved
		..1. ....		JCTNOUSO	"B'00100000" Do not take IEFUSO exit
		.... .1..		JCTNOTY6	"B'00000100" Do not produce Type 6 SMF record
		.... .1.		JCTNOUJP	"B'00000010" Do not take IEFUJP exit
		.... ...1		JCTNOT26	"B'00000001" Do not produce Type 26 SMF record

Comment

KEEP THE FIELDS JCTJOBFL AND JCTJBOPT TOGETHER FOR SMF

End of Comment

284	(11C)	BITSTRING	1	JCTJOBFL	HASP Job flags (same as CATJOBFL)
		1... ....		JCTBATCH	"B'10000000" Batch job
		.1.. ....		JCTTSUJB	"B'01000000" Time sharing user
		..1. ....		JCTSTCJB	"B'00100000" System task
284	(11C)	X'E0'	0	JCTVALJB	"JCTBATCH+JCTTSUJB+JCTSTCJB" valid types
		...1 ....		JCTNOJNL	"B'00010000" No journal option
		.... 1...		JCTNOUPT	"B'00001000" No output option
		.... .1..		JCTTSCAN	"B'00000100" TYPRUN=SCAN was specified
		.... .1.		JCTTCOPY	"B'00000010" TYPRUN=COPY was specified
		.... ...1		JCTRSTRT	"B'00000001" Allow warmstart to re-queue to XEQ
285	(11D)	BITSTRING	1	JCTJBOPT	HASP Job options (same as CATJBOPT)
		1... ....		JCTPRICD	"B'10000000" PRIORITY card or JOB card 'PRTY=' present (not used in CATJBOPT field)
		.1.. ....		JCTSETUP	"B'01000000" SETUP card(S) present (not used in CATJBOPT field)
		..1. ....		JCTTHOLD	"B'00100000" TYPRUN=HOLD
		...1 ....		JCTNOLOG	"B'00010000" NO job log option
		.... 1...		JCTXBMI	"B'00001000" XBM II job
		.... .1..		JCTINRDR	"B'00000100" Job was entered on INTRDR (not used in CATJBOPT field)
		.... .1.		JCTRERUN	"B'00000010" Job was re-run (not used in CATJBOPT field)
		.... ...1		JCTQHELD	"B'00000001" Not used in JCTJBOPT, indicates class queue is held in CATJBOPT
286	(11E)	BITSTRING	2	JCTMXLRC	Max LRECL of JCL stream
288	(120)	SIGNED	4	(0)	
288	(120)	CHARACTER	8	JCTJOBID	HASP ASSIGNED JOB IDENTIFICATION

Comment

Keep next 24 bytes intact for SMF - JCTPNAME thru JCTPRIO

End of Comment

296	(128)	CHARACTER	20	JCTPNAME	PROGRAMMER'S NAME FROM JOB CARD
316	(13C)	CHARACTER	1	JCTMCLAS	MSGCLASS FROM JOB CARD
317	(13D)	CHARACTER	1	JCTJCLAS	HASP EXECUTION JOB CLASS
318	(13E)	BITSTRING	1	JCTIPRIO	HASP INITIAL JOB SELECTION PRIORITY
319	(13F)	BITSTRING	1	JCTPRIO	HASP EXECUTION SELECTION PRIORITY
320	(140)	BITSTRING	1	JCTIOPRI	HASP INITIAL OUTPUT SELECTION PRIO
321	(141)	BITSTRING	1	JCTOPRIO	HASP OUTPUT SELECTION PRIORITY
322	(142)	SIGNED	2		Used by R10 and earlier
324	(144)	SIGNED	4	JCTROUTE (0)	INPUT ROUTE CODE
324	(144)	SIGNED	2	JCTRNODE	NODE NUMBER
326	(146)	SIGNED	2	JCTRRMT	REMOTE NUMBER

# \$JCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Keep next 28 bytes intact for SMF - JCTINDEV thru JCTESTPU					
End of Comment					
328	(148)	CHARACTER	8	JCTINDEV	HASP INPUT DEVICE NAME
336	(150)	CHARACTER	4	JCTACCTN	JOB ACCOUNTING NUMBER FROM JOB CARD
340	(154)	CHARACTER	4	JCTROOMN	PROGRAMMER'S ROOM NUMBER
344	(158)	SIGNED	4	JCTETIME	ESTIMATED EXECUTION TIME
348	(15C)	SIGNED	4	JCTESTLN	ESTIMATED OUTPUT LINES
352	(160)	SIGNED	4	JCTESTPU	ESTIMATED PUNCHED OUTPUT
356	(164)	CHARACTER	8	JCTFORMS	JOB OUTPUT FORMS
364	(16C)	BITSTRING	1	JCTFLAG4	Flag byte 4
		1... ....		JCT4PASE	"B'10000000" Password is encrypted
		.1.. ....		JCT4NPSE	"B'01000000" New password is encrypted
		..1. ....		JCT4UJNM	"B'00100000" Exit 2/52 updated job name
		...1 ....		JCT4RCST	"B'00010000" Return code info set (JCTMAXRC and JCTLSTAB)
		.... 1...		JCT4WINI	"B'00001000" Job ran under a WINIT (Work Load Manager INIT)
		.... .1..		JCT4EJOB	"B'00000100" Job restarted
		.... ..1.		JCT4LCDF	"B'00000010" JCTLINCT value from \$LINECT
		.... ...1		JCT4STAB	"B'00000001" JCTLSTAB set by JES2
365	(16D)	BITSTRING	1	JCTCPYCT	JOB PRINT COPY COUNT
Comment					
JCTJLOGD is a date token used to determine if a date line is needed in the job log. The token is remainder after dividing the number of days since JAN 1, 1900 by 254 plus 1. A value of zero indicates there is no date in the job log yet, a value of X'FF' indicates no dates are to be placed into the job log.					
End of Comment					
366	(16E)	BITSTRING	1	JCTJLOGD	JOB log date token
367	(16F)	BITSTRING	1	JCTLINCT	LINES PER PAGE
368	(170)	SIGNED	4	JCTESTPG	ESTIMATED PAGE OUTPUT
372	(174)	SIGNED	4	JCTESTBY	ESTIMATED BYTE OUTPUT
376	(178)	SIGNED	4	JCTPROUT (0)	JOB PRINT ROUTE CODE
376	(178)	SIGNED	2	JCTPRNOD	NODE NUMBER
378	(17A)	SIGNED	2	JCTPRRMT	REMOTE NUMBER
380	(17C)	CHARACTER	8	JCTPRRID	PRINTER EBCDIC RMT/USERID
388	(184)	SIGNED	4	JCTPUOUT (0)	JOB PUNCH ROUTE CODE
388	(184)	SIGNED	2	JCTPUNOD	NODE NUMBER
390	(186)	SIGNED	2	JCTPURMT	REMOTE NUMBER
392	(188)	CHARACTER	8	JCTPURID	PUNCH EBCDIC RMT/USERID
400	(190)	CHARACTER	8	JCTPROCN	PROCEDURE DDNAME
408	(198)	CHARACTER	8	JCTPASS	CURRENT PASSWORD
416	(1A0)	CHARACTER	8	JCTNUPAS	NEW PASSWORD
424	(1A8)	CHARACTER	8	JCTGRPID	GROUPID
432	(1B0)	CHARACTER	8	JCTNOTUS	Notify user id
432	(1B0)	X'1B0'	0	JCTTSUID	"JCTNOTUS,7" TIME SHARING USR FOR NOTIFY
440	(1B8)	BITSTRING	1	JCTTSUAF	INPUT SYSAF FOR NOTIFY
441	(1B9)	CHARACTER	9	JCTIDLEN (0)	FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER FOR RACROUTE USE
441	(1B9)	CHARACTER	1	JCTUIDL	USERID LENGTH
442	(1BA)	CHARACTER	8	JCTJUSID	USERID (FROM JOB CARD)
450	(1C2)	CHARACTER	8	JCTENCKY	Password encryption key
458	(1CA)	SIGNED	2	JCTRXLEN	Free space in JCT for JCT extensions
460	(1CC)	SIGNED	3	JCTFAMLY	Highest family ID used by MOCA IOTs
463	(1CF)	SIGNED	1		Reserved for future use

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
464	(1D0)	SIGNED	4	(0)	Ensure fullword for token
464	(1D0)	BITSTRING	1	JCTTOKEN	Security TOKEN for job

Comment

KEEP NEXT 48 BYTES INTACT FOR SMF - JCTCNVON THROUGH JCTODTOF

End of Comment

544	(220)	SIGNED	4	JCTCNVON	TIME ON JCL CONVERSION PROCESSOR
548	(224)	SIGNED	4	JCTCDTON	DATE ON JCL CONVERSION PROCESSOR
552	(228)	SIGNED	4	JCTCNVOF	TIME OFF JCL CONVERSION PROCESSOR
556	(22C)	SIGNED	4	JCTCDTOF	DATE OFF JCL CONVERSION PROCESSOR
560	(230)	SIGNED	4	JCTXEQON	TIME ON EXECUTION PROCESSOR
564	(234)	SIGNED	4	JCTXDTON	DATE ON EXECUTION PROCESSOR
568	(238)	SIGNED	4	JCTXEQOF	TIME OFF EXECUTION PROCESSOR
572	(23C)	SIGNED	4	JCTXDTOF	DATE OFF EXECUTION PROCESSOR
576	(240)	SIGNED	4	JCTOUTON	TIME ON OUTPUT PROCESSOR
580	(244)	SIGNED	4	JCTODTON	DATE ON OUTPUT PROCESSOR
584	(248)	SIGNED	4	JCTOUTOF	TIME OFF OUTPUT PROCESSOR
588	(24C)	SIGNED	4	JCTODTOF	DATE OFF OUTPUT PROCESSOR

Comment

KEEP NEXT 28 BYTES INTACT FOR SMF - JCTCARDS THROUGH JCTOTSID

End of Comment

592	(250)	SIGNED	4	JCTCARDS	TOTAL NUMBER OF INPUT CARDS
596	(254)	SIGNED	4	JCTLINES	GENERATED OUTPUT LINES
600	(258)	SIGNED	4	JCTPUNCH	GENERATED PUNCHED OUTPUT
604	(25C)	CHARACTER	4	JCTRDSID	INPUT PROCESSOR SYSTEM ID
608	(260)	CHARACTER	4	JCTCVSID	CONVERSION PROCESSOR SYSTEM ID
612	(264)	CHARACTER	4	JCTEXSID	EXECUTION PROCESSOR SYSTEM ID
616	(268)	CHARACTER	4	JCTOTSID	OUTPUT PROCESSOR SYSTEM ID
620	(26C)	SIGNED	4	JCTPAGES	GENERATED OUTPUT PAGES
624	(270)	SIGNED	4	JCTBYTES	GENERATED OUTPUT BYTES
628	(274)	SIGNED	4	JCTSPUNB	TOTAL BYTES IN SPUN DATASET(S)
632	(278)	SIGNED	2	JCTXEQND	INITIAL EXECUTION NODE
634	(27A)	SIGNED	2	JCTXNODE	ACTUAL EXECUTION NODE
636	(27C)	CHARACTER	4	JCTNJSID	JOB XMITTER PROCESSOR SYSTEM ID
640	(280)	SIGNED	4	JCTNJTON	TIME ON JOB TRANSMITTER PROCESSOR
644	(284)	SIGNED	4	JCTNDTON	DATE ON JOB TRANSMITTER PROCESSOR
648	(288)	SIGNED	4	JCTNJTOF	TIME OFF JOB TRANSMITTER PROCESSOR
652	(28C)	SIGNED	4	JCTNDTOF	DATE OFF JOB TRANSMITTER PROCESSOR
656	(290)	CHARACTER	8	JCTNACCT	NETWORK ACCOUNTING NUMBER
664	(298)	CHARACTER	8	JCTNOJID	ORIGINAL JOB IDENTIFICATION
672	(2A0)	CHARACTER	8	JCTNNDEV	JOB TRANSMITTER DEVICE NAME
680	(2A8)	CHARACTER	8	JCTNONDE	NETWORK ORIGINAL NODE NAME
688	(2B0)	CHARACTER	8	JCTNOUSR	SUBMITTING USERID
696	(2B8)	CHARACTER	8	JCTNXNDE	NETWORK EXECUTION NODE NAME
704	(2C0)	CHARACTER	8	JCTNNNDE	NETWORK NEXT NODE NAME
712	(2C8)	CHARACTER	8	JCTNLNDE	NETWORK LAST NODE NAME
720	(2D0)	SIGNED	4	JCTESOUT	ESTIMATED OUTPUT (LINES+CARDS)
724	(2D4)	SIGNED	4	JCTXOUT	GENERATED OUTPUT RECORDS
728	(2D8)	CHARACTER	8	JCTPSN1	STEP NAME FROM EXEC STEP
736	(2E0)	CHARACTER	8	JCTPSN2	STEP NAME OF CALLING STEP
744	(2E8)	DBL WORD	8	(0)	Ensure doubleword boundary
744	(2E8)	BITSTRING	144	JCTWORK	144-BYTE WORK AREA
888	(378)	BITSTRING	80	JCTXWRK	80-BYTE WORK AREA FOR RDR EXITS
888	(378)	X'3C8'	0	JCTJMRST	*** START OF JMR AREA

## \$JCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
KEEP THE FIELDS JCTJMRJN, JCTRDRON, AND JCTRDTON TOGETHER FOR SMF					
End of Comment					
968	(3C8)	CHARACTER	8	JCTJMRJN	JMR JOB NAME
976	(3D0)	SIGNED	4	JCTRDRON	TIME ON INPUT PROCESSOR
980	(3D4)	SIGNED	4	JCTRDTON	DATE ON INPUT PROCESSOR
984	(3D8)	BITSTRING	4	JCTCPUID	JMR CPU IDENTIFICATION
988	(3DC)	CHARACTER	8	JCTUSEID	JMR installation data field
996	(3E4)	BITSTRING	1	JCTSTEP	CURRENT STEP NUMBER
997	(3E5)	BITSTRING	1	JCTINDC	JMR SMF OPTIONS
998	(3E6)	BITSTRING	2	JCTJTCC (0)	CONDITION CODE
999	(3E7)	BITSTRING	1	JCTCLASS	HASP EXECUTION JOB CLASS
1000	(3E8)	SIGNED	4	JCTUCOM	JMR USER COMMUNICATION AREA
1004	(3EC)	SIGNED	4	JCTUJVP	JMR ADDRESS OF USER EXIT ROUTINE
Comment					
KEEP THE FIELDS JCTRDROF AND JCTRDTOF TOGETHER FOR SMF					
End of Comment					
1008	(3F0)	SIGNED	4	JCTRDROF	TIME OFF INPUT PROCESSOR
1012	(3F4)	SIGNED	4	JCTRDTOF	DATE OFF INPUT PROCESSOR
1016	(3F8)	SIGNED	4	JCTJOBIN	JMR JOB SYSIN COUNT
1020	(3FC)	BITSTRING	2	JCTRDR	READER DEVICE TYPE AND CLASS
1022	(3FE)	BITSTRING	1	JCTJMOPT	JMR SMF OPTIONS
		..1. ....		JCTJMRUX	"B'00100000" Take user exits for SMF
1023	(3FF)	BITSTRING	1		RESERVED
1024	(400)	SIGNED	4	JCTJMRND (0)	END OF JMR
1024	(400)	X'3C8'	0	JCTJMR	"JCTJMRST,*-JCTJMRST" Reference for entire JMR
1024	(400)	BITSTRING	32	JCTXMASK	EXIT JOB MASK
1056	(420)	SIGNED	4	JCTJQE	OFFSET OF HASP JOB QUEUE ENTRY
1060	(424)	CHARACTER	8	JCTNNODE	NOTIFICATION NODE
1068	(42C)	SIGNED	2	JCTCHNDX	CREATED HEADER TABLE INDEX
1070	(42E)	BITSTRING	10	JCTCHDRT	CREATED HEADER TABLE
1080	(438)	ADDRESS	4	JCTNJHTR_Z11	MTTR OF JOB HEADER ( only valid up to version \$J2PZ111 )
1084	(43C)	ADDRESS	4	JCTNJTR_Z11	MTTR OF JOB TRAILER ( only valid up to version \$J2PZ111 )
1088	(440)	BITSTRING	1	JCTAXCLS	Actual execution class
1089	(441)	BITSTRING	1	JCTAXPR	Actual execution priority
1096	(448)	DBL WORD	8	JCTXSTRT	Execution start time (STCK)
1104	(450)	DBL WORD	8	JCTXSTOP	Execution stop time (STCK)
1112	(458)	DBL WORD	8	JCTETS	System entry Time (STCK)
1120	(460)	CHARACTER	8	JCTDEPT	Programmer's department id
1128	(468)	CHARACTER	8	JCTBLDG	Programmer's building id
1136	(470)	CHARACTER	8	JCTROOM	PROGRAMMER'S ROOM
1144	(478)	CHARACTER	8	JCTSGRP	Submitting group

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>The job accounting packet format is:            DC Y(length) length of packet not including this halfword            followed by a variable length string of this format:            DC AL1(number-of-pairs-that-follow) followed by 0 or more accounting pairs            Accounting pairs are of the form:            DC AL1(length),C'string of length "length"            A length of 0 indicates an omitted field            Example:            (X3600,42,,ABC) on the JOB card will result in the packet looking like:            DC H'15' Length of following            DC FL1'4' Nr of fields            DC FL1'5' Length of field 1            DC C'X3600' Field 1            DC FL1'2' Length of field 2            DC C'42' Field 2            DC FL1'0' Length of field 3 (null)            DC FL1'3' Length of field 4            DC C'ABC' Field 4</p>					
End of Comment					
1152	(480)	SIGNED	2	JCTACCTL (0)	Beginning of acct. packet
1152	(480)	SIGNED	2	JCTACTLG	Length of job accounting
1154	(482)	BITSTRING	145	JCTJOBAC	Job accounting string
1299	(513)	BITSTRING	1		Reserved
1300	(514)	SIGNED	4	(0)	Ensure alignment
1300	(514)	CHARACTER	8	JCTSECLB	SECLABEL of job
1308	(51C)	SIGNED	4	JCTJPERD	STCK for end of READER
1312	(520)	DBL WORD	8	JCTJPEST	Program entry start time for JSAB (Time off JCL conversion processor STCK)
1320	(528)	CHARACTER	8	JCTNXUID	Network execution userid (from XMIT or XEQ)
1328	(530)	CHARACTER	8	JCTMVSNM	Execution MVS System name
1336	(538)	BITSTRING	3	JCTMAXRC	Max return code
1339	(53B)	BITSTRING	3	JCTLSTAB	Last ABEND code
1342	(53E)	CHARACTER	8	JCTWSCN	WLM service class name
1350	(546)	CHARACTER	8	JCTWOSCN	WLM (original) srv cls name
1358	(54E)	BITSTRING	4	JCTWEARR	TOD when job re-enqueued
1362	(552)	CHARACTER	16	JCTSCHEN	SCHENV for job
1378	(562)	BITSTRING	1	JCTNFLG1	Networking flags
		1... ....		JCTN1EOT	"B'10000000" EOT received for NJE job
1379	(563)	BITSTRING	1		RESERVED FOR FUTURE USE
Comment					

JCTPCTRK will be non-zero under the following conditions:

1. Job has been validated (JCT2AVDP is on), AND
2. Either of the password fields is not already encrypted(JCT4PASE or JCT4NPSE is off), AND
3. Password fields, JCTPASS and JCTNUPAS, are not null (zero or blank).

Note that this field will remain non-zero if a job is re-converted.

End of Comment					
1380	(564)	ADDRESS	4	JCTPCTRK_Z11	Track addr of pre-conv JCT ( only valid up to version \$J2PZ111 )
1384	(568)	BITSTRING	1	JCTFLAG6	Flag byte

## \$JCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		1... ....		JCT6LSRC	"B'10000000" JOBRC=LASTRC is default
		.1.. ....		JCT6RQST	"B'01000000" JCTREQRC has been set
		..1. ....		JCT6RQAB	"B'00100000" JCTREQRC has ABEND code
		...1 ....		JCT6RSPC	"B'00010000" JOBRC=STEP found
		.... 1...		JCT6JBRC	"B'00001000" JOBRC present on job card
1385	(569)	BITSTRING	3	JCTREQRC	RC of requested step
1388	(56C)	SIGNED	4		RESERVED FOR FUTURE USE
1392	(570)	SIGNED	4		RESERVED FOR FUTURE USE
1396	(574)	SIGNED	4		RESERVED FOR FUTURE USE
1400	(578)	SIGNED	4	JCTFEND_Z11 (0)	End of fixed portion of JCT ( only valid up to version \$J2PZ111 )

Comment

The following eight MQTR fields are only valid at version \$J2PZ112 and greater.

End of Comment

1400	(578)	BITSTRING	6	JCTCURTK	Track address (MQTR) of this JCT
1406	(57E)	BITSTRING	6	JCTSPNTK	Track address (MQTR) of 1st spin IOT
1412	(584)	BITSTRING	6	JCTIOTTK	Track address (MQTR) of 1st regular IOT
1418	(58A)	BITSTRING	6	JCTOCTTK	Track address (MQTR) of OCR table
1424	(590)	BITSTRING	6	JCTXMTTK	Track address (MQTR) of 1st XMIT track
1430	(596)	BITSTRING	6	JCTNJHTK	Track address (MQTR) of job header.
1436	(59C)	BITSTRING	6	JCTNJTTK	Track address (MQTR) of job trailer.
1442	(5A2)	BITSTRING	6	JCTPCVTK	Track address (MQTR) of pre-conv JCT. See the description of field JCTPCTRK_ZB for more info.
1448	(5A8)	SIGNED	4	JCTFEND (0)	End of fixed portion of JCT

Comment

It is required that the JCT have enough space left after the fixed portion of the JCT (i.e. after JCTFEND) for \$JCT extensions.

Enough space is arbitrarily declared to be 512 bytes in a buffer which is at its minimum size (2048).

If the following SCON gets an assembly error, then there is not enough space left over.

End of Comment

1448	(5A8)	ADDRESS	2	JCTLEFT (0)	
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Comment

The following fields define the local extension to the JCT pointed to by JCTLEXTA. This extension is a local data area managed by the \$JCTXnnn services.

End of Comment

1448	(5A8)	X'0'	0	JCTLXID	"0,4,C'C" Eyecatcher ('JCLX')
1448	(5A8)	X'4'	0	JCTLXLEN	"4,2,C'H" Remaining free space
1448	(5A8)	X'6'	0	JCTLXPRES	"L'JCTLXID+L'JCTLXLEN" Length of prefix
1448	(5A8)	X'2000'	0	JCTLXSIZ	"8192" Size of local extension

**\$JCT Cross Reference**

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
JCT	0		JCTIOPRI	140	
JCTACCTL	480		JCTIOT_Z11	94	
JCTACCTN	150		JCTIOTTK	584	
JCTACTLG	480		JCTIPRIO	13E	
JCTASID	114		JCTJBKEY	78	
JCTAXCLS	440		JCTJBNUM	74	
JCTAXPR	441		JCTJBOPT	11D	
JCTBATCH	11C	80	JCTJCLAS	13D	
JCTBLDG	468		JCTJDVT	84	
JCTBURST	82	40	JCTJLOGD	16E	
JCTBYTES	270		JCTJMOPT	3FE	
JCTCABND	CC	24	JCTJMR	400	3C8
JCTCARDS	250		JCTJMRJN	3C8	
JCTCDTOF	22C		JCTJMRND	400	
JCTCDTON	224		JCTJMRST	378	3C8
JCTCDUPL	CC	4	JCTJMRUX	3FE	20
JCTCFOPN	CC	3C	JCTJNAME	6C	
JCTCHDRT	42E		JCTJOBAC	482	
JCTCHNDX	42C		JCTJOBFL	11C	
JCTCIO	CC	8	JCTJOBID	120	
JCTCIOER	CC	26	JCTJOBIN	3F8	
JCTCJCL	CC	4	JCTJPERD	51C	
JCTCJDVT	CC	28	JCTJPEST	520	
JCTCLASS	3E7		JCTJQE	420	
JCTCNVOF	228		JCTJSFLG	11A	
JCTCNVON	220		JCTJSSTP	112	
JCTCNVRC	CC		JCTJTCC	3E6	
JCTCNWT	CC	10	JCTJTFLG	83	
JCTCOK	CC	0	JCTJUSID	1BA	
JCTCPUID	3D8		JCTLEFT	5A8	
JCTCPYCT	16D		JCTLENG	80	
JCTCSECF	CC	C	JCTLEXTA	0	5C
JCTCSYSE	CC	36	JCTLINCT	16F	
JCTCURTK	578		JCTLINES	254	
JCTCVER	116	2A	JCTLSTAB	53B	
JCTCVSID	260		JCTLXID	5A8	0
JCTDEPT	460		JCTLXLEN	5A8	4
JCTENCKY	1C2		JCTLXPRES	5A8	6
JCTESOUT	2D0		JCTLXSIZ	5A8	2000
JCTESTBY	174		JCTMAXRC	538	
JCTESTLN	15C		JCTMCLAS	13C	
JCTESTPG	170		JCTMVSNM	530	
JCTESTPU	160		JCTMXLRC	11E	
JCTETIME	158		JCTNACCT	290	
JCTETS	458		JCTNDTOF	28C	
JCTEXSID	264		JCTNDTON	284	
JCTFAMLY	1CC		JCTNFLG1	562	
JCTFEND	5A8		JCTNJHTK	596	
JCTFEND_Z11	578		JCTNJHTR_Z11	438	
JCTFLAG1	82		JCTNJSID	27C	
JCTFLAG2	118		JCTNJTOF	288	
JCTFLAG3	119		JCTNJTON	280	
JCTFLAG4	16C		JCTNJTTK	59C	
JCTFLAG5	0	50	JCTNJTR_Z11	43C	
JCTFLAG6	568		JCTNLNDE	2C8	
JCTFORMS	164		JCTNNDEV	2A0	
JCTGMFAL	CC	38	JCTNNNDE	2C0	
JCTGRPID	1A8		JCTNNODE	424	
JCTIDENT	68		JCTNOJID	298	
JCTIDLEN	1B9		JCTNOJNL	11C	10
JCTINDC	3E5		JCTNOLOG	11D	10
JCTINDEV	148		JCTNONDE	2A8	
JCTINRDR	11D	4	JCTNOTUS	1B0	

## \$JCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
JCTNOTY6	11B	4	JCTSPNTK	57E	
JCTNOT26	11B	1	JCTSPUNB	274	
JCTNOUJP	11B	2	JCTSTART	0	68
JCTNOUPT	11C	8	JCTSTCJB	11C	20
JCTNOUSO	11B	20	JCTSTEP	3E4	
JCTNOUSR	2B0		JCTTCOPY	11C	2
JCTNUPAS	1A0		JCTTHOLD	11D	20
JCTNXNDE	2B8		JCTTOKEN	1D0	
JCTNXUID	528		JCTTRAK_Z11	8C	
JCTN1EOT	562	80	JCTTSCAN	11C	4
JCTOCTTK	58A		JCTTSUAF	1B8	
JCTOCTTR_Z11	98		JCTTSUID	1B0	1B0
JCTODTOF	24C		JCTTSUJB	11C	40
JCTODTON	244		JCTUCOM	3E8	
JCTOPRIO	141		JCTUIDL	1B9	
JCTOTSID	268		JCTUJVP	3EC	
JCTOUTOF	248		JCTUSEID	3DC	
JCTOUTON	240		JCTUSERA	F8	
JCTPAGES	26C		JCTUSERB	FC	
JCTPASS	198		JCTUSERC	100	
JCTPCTRK_Z11	564		JCTUSERD	104	
JCTPCVTK	5A2		JCTUSERE	108	
JCTPDDBK	C4		JCTUSERF	10C	
JCTPDDBO	C8		JCTUSER0	D0	
JCTPNAME	128		JCTUSER1	D4	
JCTPRICD	11D	80	JCTUSER2	D8	
JCTPRIO	13F		JCTUSER3	DC	
JCTPRNOD	178		JCTUSER4	E0	
JCTPROCN	190		JCTUSER5	E4	
JCTPROUT	178		JCTUSER6	E8	
JCTPRRID	17C		JCTUSER7	EC	
JCTPRRMT	17A		JCTUSER8	F0	
JCTPRTY	110		JCTUSER9	F4	
JCTPSN1	2D8		JCTVALJB	11C	E0
JCTPSN2	2E0		JCTVER	116	
JCTPUNCH	258		JCTWEARR	54E	
JCTPUNOD	184		JCTWORK	2E8	
JCTPUOUT	184		JCTWOSCN	546	
JCTPURID	188		JCTWSCN	53E	
JCTPURMT	186		JCTXBMI	11D	8
JCTQHELD	11D	1	JCTXBUFO	A0	
JCTRDR	3FC		JCTXDTOF	23C	
JCTRDRDF	3F0		JCTXDTON	234	
JCTRDRON	3D0		JCTXEQND	278	
JCTRDSID	25C		JCTXEQOF	238	
JCTRDTOF	3F4		JCTXEQON	230	
JCTRDTON	3D4		JCTXMASK	400	
JCTREQRC	569		JCTXMTTK	590	
JCTRERUN	11D	2	JCTXNODE	27A	
JCTRNODE	144		JCTXOUT	2D4	
JCTROOM	470		JCTXSTOP	450	
JCTROOMN	154		JCTXSTRT	448	
JCTROUTE	144		JCTXTRK_Z11	9C	
JCTRRMT	146		JCTXWRK	378	
JCTRSTRT	11C	1	JCT1INTJ	82	20
JCTRXLN	1CA		JCT1LDR	82	10
JCTSAMSK	A4		JCT1NUNK	82	4
JCTSCHEN	552		JCT1ODEL	82	1
JCTSECLB	514		JCT1RECV	82	8
JCTSETUP	11D	40	JCT1SJOB	82	80
JCTSGRP	478		JCT1UNDF	82	2
JCTSMFLG	11B		JCT2AVD	118	10
JCTSMFL0	11B	D8	JCT2AVDP	118	40
JCTSPIOT_Z11	90		JCT2AVF	118	20
JCTSPLNG	7C	18	JCT2EXEC	118	4



<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
JCT2IOT2	118	1
JCT2SDCR	118	2
JCT2TJOB	118	8
JCT2TWOJ	118	80
JCT3BATI	119	40
JCT3FORM	119	2
JCT3JDSP	119	20
JCT3NCA	119	8
JCT3NCF	119	10
JCT3NOTK	119	4
JCT3RJCS	119	1
JCT3TPI	119	80
JCT4EJOB	16C	4
JCT4LCDF	16C	2
JCT4NPSE	16C	40
JCT4PASE	16C	80
JCT4RCST	16C	10
JCT4STAB	16C	1
JCT4UJNM	16C	20
JCT4WINI	16C	8
JCT5CKPT	0	80
JCT5EXTA	0	1
JCT6JBRC	568	8
JCT6LSRC	568	80
JCT6RQAB	568	20
JCT6RQST	568	40
JCT6RSPC	568	10



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## \$JCTX Programming Interface information

Programming Interface information

\$JCTX

End of Programming Interface information

## \$JCTX Heading Information

**Common Name:** JES2 Job Control Table Extension  
**Macro ID:** \$JCTX  
**DSECT Name:** JCTX  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'JCTX'  
 Offset: JCXEYE-JCTX  
 Length: 4

**Storage Attributes:** Subpool: 7 in JES2 main task environment; 230 in USER or SUBTASK environments  
 Key: 1  
 Residency: The \$JCTX is an extension of the \$JCT, currently residing in the same spool buffer as the \$JCT. No code dependencies (other than in the \$JCTX service routines themselves) should rely on this. Virtual storage can be anywhere (above or below 16M) in the JES2 main task and must be below 16M in all other environments. Real storage can be anywhere.

**Size:** JCXORG-JCTX defines the length of the base section of the JCTX. JCXLEN contains the total length of the extension.

**Created by:** \$JCTXADD routine in HASCXJCT.  
 In-storage versions of the control block are created by \$CBIO READ VERIFY=JCT.

**Pointed to by:** \$JCTXGET macro should be used to find the address of the extension.

**Serialization:** Serialization is the same as for the \$JCT.

**Function:** The Job Control Table Extension gives an installation the ability to associate their own information with a job without modifying the Job Control Table. These extensions may be manipulated using the \$JCTXADD, \$JCTXEXP, \$JCTXGET, and \$JCTXREM services.

The \$JCTX mapping is also used as the parameter list to the \$JCTX service routines. These parameter lists are created by the \$JCTXxxx macros and deleted by the corresponding routines.

## \$JCTX Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JCTX	,
0	(0)	CHARACTER	4	JCXEYE	JCTX Eyecatcher
4	(4)	CHARACTER	4	JCXTYPE	Extension Type
8	(8)	SIGNED	2	JCXMOD	Extension Modifier
10	(A)	SIGNED	2	JCXLEN	Extension Length

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>The variable information in the \$JCTX begins at label JCXORG. Note that different mappings will exist for different values of TYPE and MOD. The instruction "ORG ," should not be used in the mappings for any extension, as this sets the location counter to the highest value defined so far. If multiple sections are defined, this could lead to an erroneous mapping.</p>					
End of Comment					
12	(C)	SIGNED	4	JCXORG (0)	Origin for variable data portions of \$JCT extension.
12	(C)	X'C'	0	JCXBASLN	"JCXORG-JCTX" Length of base section of the \$JCTX
Comment					
<p>IBM supplied extension for JESLOG spin control.                      The JCXTYPE is "IBM"                      The JCXMOD is JCXJLGM</p>					
End of Comment					
12	(C)	X'1'	0	JCXJLGM	"1" Modifier
Comment					
<p>START OF SPECIFICATIONS</p> <p>01 DESCRIPTIVE NAME: JES log control</p> <p>02 ACRONYM: \$JESLOG</p> <p>01 MACRO NAME: \$JESLOG</p> <p>01 DSECT NAME: JLG</p> <p>01 LABEL PREFIX: JLG</p> <p>01 COMPONENT ID: JES2 (SC1BH)</p> <p>01 EXTERNAL CLASSIFICATION: PSPI</p> <p>01 END OF EXTERNAL CLASSIFICATION:</p> <p>01 EYE-CATCHER: "None"</p> <p>02 OFFSET: N/A</p> <p>02 LENGTH: N/A</p> <p>01 STORAGE ATTRIBUTES:</p> <p>02 SUBPOOL: n/a</p> <p>02 KEY: n/a</p> <p>02 RESIDENCY:</p> <p style="padding-left: 20px;">This block is included in JCTs, SJXBs, CATs and CNVWORK. See the description of those "hosting" blocks for storage attributes.</p> <p>01 SIZE:</p> <p style="padding-left: 20px;">See JLLEN</p> <p>01 CREATED BY:</p> <p style="padding-left: 20px;">See "hosting" control blocks</p> <p>01 POINTED TO BY:</p> <p style="padding-left: 20px;">No pointers</p> <p>01 SERIALIZATION:</p> <p style="padding-left: 20px;">None required</p> <p>01 FUNCTION:</p> <p style="padding-left: 20px;">The JESLOG describes how the spinning of JESLOG (JESYSMG and JESJOB LG) is to be supported.</p> <p>01 METHOD OF ACCESS:</p> <p>02 ASM:</p> <p style="padding-left: 20px;">Specify \$JESLOG as a positional operand on a \$MODULE macro instruction to cause this mapping to be generated. A USING of the following form is used: USING JLG,xxxx where xxxx is the label within the "hosting" block where the JESLOG</p>					

## \$JCTX Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
mapping begins. For example when referencing the JESLOG within the JCT, code USING JLG,JCTJLOG					
02 PL/X: This mapping is not available for compilations.					
01 USED BY: Spin processing for the two JESLOG data sets use the information for their decisions.					
01 DELETED BY: See "hosting" blocks.					
01 FREQUENCY: See "hosting" blocks					
01 RESTRICTIONS: None END OF SPECIFICATIONS					
01 CHANGE ACTIVITY: \$Z02LLRJ=LRJOB HJE7705 001101 J_K2: Long running jobs \$Z02P049=LRJ HJE7705 001218 J_K2: RJI SSOB JESLOG Support \$Z13LSPN=SPIN HJE7780 100818 J_K2: Spin any SPIN data set					
01 A000000-999999 CREATED for JES2 z/OS 1.2					
01 NOTES: The bit definitions in JLGFLAG1 must be the same as the definitions for SPCFLAG1 (\$SPC).					
End of Comment					
12	(C)	BITSTRING	6	JCXJLOG	JES log control
12	(C)	X'12'	0	JCXJLEN	"*-JCTX" Extension length

## \$JCTX Cross Reference

Name	Hex Offset	Hex Value
JCTX	0	
JCXBASLN	C	C
JCXEYE	0	D1C3E3E7
JCXJLEN	C	12
JCXJLGM	C	1
JCXJLOG	C	
JCXLEN	A	
JCXMOD	8	
JCXORG	C	
JCXTYPE	4	

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## \$JESLOG Programming Interface information

Programming Interface information

**\$JESLOG**

End of Programming Interface information

## \$JESLOG Heading Information

**Common Name:** JES log control  
**Macro ID:** \$JESLOG  
**DSECT Name:** JLG  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** "None"  
 Offset: N/A  
 Length: N/A

**Storage Attributes:** Subpool: n/a  
 Key: n/a  
 Residency: This block is included in JCTs, SJXBs, CATs and CNVWORK. See the description of those "hosting" blocks for storage attributes.

**Size:** See JLGLEN  
**Created by:** See "hosting" control blocks  
**Pointed to by:** No pointers  
**Serialization:** None required  
**Function:** The JESLOG describes how the spinning of JESLOG (JESYSMSG and JESJOBLOG) is to be supported.

## \$JESLOG Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JLG	,
0	(0)	BITSTRING	1	JLGFLAG1	Flags - JESMSG/LG/JESYSMSG
		1... ....		JLG1ELIG	"B'10000000" Spin eligible
		.1.. ....		JLG1TIMI	"B'01000000" Spin on time interval
		..1. ....		JLG1TIMD	"B'00100000" Spin on time of day
		...1 ....		JLG1LINE	"B'00010000" Spin upon line delta
		.... 1..		JLG1SUP	"B'00001000" Suppress
		.... .1..		JLG1NOSP	"B'00000100" No Spin
		.... .1..		JLG1NOCM	"B'00000100" Not spinnable via command
1	(1)	SIGNED	1	JLGSOURC	Source of JESLOG info
1	(1)	X'0'	0	JLGSEXIT	"0" JESLOG from Exit
1	(1)	X'1'	0	JLGSJCL	"1" JESLOG from JCL
1	(1)	X'2'	0	JLGSCAT	"2" JESLOG from CAT
1	(1)	X'3'	0	JLGSSRR	"3" JESLOG from IEFSSRR

Comment

- JLGVALUE has one of the following values:
- o 0 if no bit on in JLGFLAG1 or just JLG1ELIG on or just JLG1SUP on
  - o Increment in seconds if JLG1TIMI on
  - o Increment in TOD clock units if JLG1TIMI on and embedded in the SJXB
  - o Number of seconds past midnight if JLG1TIMD on
  - o Number of TOD clock units past midnight if JLG1TIMD on and embedded in the SJXB
  - o Line delta if JLG1LINE on

End of Comment

2	(2)	SIGNED	4	JLGVALUE	Value used for JESLOG spin decisions (see above)
2	(2)	X'6'	0	JLGLEN	**"-JLG" Length of area
6	(6)	ADDRESS	2	(0)	Ensure length is 6



**\$JESLOG Cross Reference**

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
JLG	0	
JLGFLAG1	0	
JLGLEN	2	6
JLGSCAT	1	2
JLGSEXIT	1	0
JLGSJCL	1	1
JLGSOURC	1	
JLGSSRR	1	3
JLGVALUE	2	
JLG1ELIG	0	80
JLG1LINE	0	10
JLG1NOCM	0	4
JLG1NOSP	0	4
JLG1SUP	0	8
JLG1TIMD	0	20
JLG1TIMI	0	40



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## \$JIB Programming Interface information

Programming Interface information

### \$JIB

The following fields are **NOT** programming interface information:

- JIBGCB
- JIBJSPA

End of Programming Interface information

## \$JIB Heading Information

**Common Name:** JES2 JOE Information Block  
**Macro ID:** \$JIB  
**DSECT Name:** JIB  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** JIB  
 Offset: JIBID-JIB  
 Length: LJIBID

**Storage Attributes:** Subpool: 230  
 Key: 1  
 Residency: If the FSS supports AMODE 31, then ANY. If the FSS only supports AMODE 24, then storage is obtained below the line. Real storage is anywhere. The storage resides in the FSS address space.

**Size:** See JIBSIZE  
**Created by:** HASPFSSM  
**Pointed to by:** FSAREQQS field of the FSACB data area  
 FSAACTQS field of the FSACB data area  
 FSARETQS field of the FSACB data area  
 JIBNEXT field of the JIB data area  
 QCTSTKHD field of the QCT data area

**Serialization:** Standard FSA level control block serialization.  
**Function:** The JIB is used to pass JOE level information between the JES2 main task (in HASPFSSP) and the FSS address space (HASPSSM). In addition, HASPFSSM uses the JIB to store JOE level information.

## \$JIB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JIB	JOE INFORMATION BLOCK
0	(0)	CHARACTER	4	JIBID	JIB IDENTIFIER
4	(4)	SIGNED	4	JIBNEXT	POINTER TO NEXT JIB ON QUEUE
8	(8)	SIGNED	4	JIBJ2RAB (0)	BEGIN JES2 RELDS CMS COPY AREA
8	(8)	CHARACTER	8	JIBMIDSE	JIB unprintable reason code
16	(10)	SIGNED	4	JIBFLAGS (0)	JIB FLAG BYTES
16	(10)	BITSTRING	1	JIBFLG1	FIRST FLAG BYTE
		1... ....		JIBFREQ	"B'10000000" JIB IS A REQUEST FOR A JOE
		.1. ....		JIBFACT	"B'01000000" JIB IS ACTIVE ON DEVICE
		..1. ....		JIBFRET	"B'00100000" JIB IS BEING RETURNED TO JES
		...1 ....		JIBFINIT	"B'00010000" JIB IS INITIALIZED
		.... 1..		JIBFCOMP	"B'00001000" JIB COMPLETELY PROCESSED
		.... .1..		JIBFINCP	"B'00000100" JIB NOT COMPLETELY PROCESSED
		.... ..1.		JIBFCPB	"B'00000010" CHECKPOINT BUFFER ACQUIRED
		.... ...1		JIBIOERR	"B'00000001" I/O ERROR ON JCT/IOT READ
17	(11)	BITSTRING	1	JIBFLG2	SECOND FLAG BYTE
		1... ....		JIBFSTOP	"B'10000000" \$Z COMMAND
		.1. ....		JIBFDEL	"B'01000000" \$C COMMAND
		..1. ....		JIBFRST	"B'00100000" \$E COMMAND
		...1 ....		JIBFINT	"B'00010000" \$I COMMAND
		.... 1..		JIBFBKSP	"B'00001000" \$B COMMAND
		.... .1..		JIBFJHPG	"B'00000100" JOB HEADER PAGE REQUIRED
		.... ..1.		JIBFJTPG	"B'00000010" JOB TRAILER PAGE REQUIRED
		.... ...1		JIBFNEWS	"B'00000001" JES2 NEWS DATA SET ACQUIRED
18	(12)	BITSTRING	1	JIBFLG3	THIRD FLAG BYTE
		1... ....		JIBFFSTP	"B'10000000" 1ST PDDB BEING GETDSD FROM JOE
		.1. ....		JIBFLSTP	"B'01000000" LAST PDDB BEING GETDSD FROM JOE
		..1. ....		JIBFCPVL	"B'00100000" VALID CKPT RECORD READ FOR JOE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		...1 ....		JIBFCPER	"B'00010000" I/O ERROR ON SPOOL CKPT RECORD
		.... 1...		JIBFUNPR	"B'00001000" UNPRINTABLE JOE IN JIB
		.... .1..		JIBFONDV	"B'00000100" ON DEVICE MSG NEEDED FOR JOE
		.... ..1.		JIBFOPIC	"B'00000010" JIB CANCELLED DURING SETUP
		.... ...1		JIB3AUTH	"B'00000001" JESNEWS AUTHORIZATION FAILURE
19	(13)	BITSTRING	1	JIBFLG4	FOURTH FLAG BYTE
		1... ....		JIB4RSV1	"B'10000000" Reserved for future use
		.1... ....		JIB4DUMD	"B'01000000" Dummy data set being processed
		..1. ....		JIB4FSSR	"B'00100000" HASP704 for FSS reason
		...1 ....		JIBSWBER	"B'00010000" SWB error
		.... 1...		JIB4RDIP	"B'00001000" FSA posted for GETDS as dataset RELDSed incomplete & FSA was waiting for work
		.... .1..		JIB4OPIN	"B'00000100" Operator intervention requested for dataset within JIB
		.... ..1.		JIB4REPO	"B'00000010" JIB's dataset going thru reposition
		.... ...1		JIB4NENF	"B'00000001" Data set select ENF was sent when JOE header page was printed
20	(14)	BITSTRING	1	JIBUNPRR	REASON PRT DS UNPRINTABLE
21	(15)	BITSTRING	3		Reserved for future use
24	(18)	SIGNED	4	JIBJ2GAB (0)	BEGIN JES2 GETDS CMS COPY AREA
24	(18)	SIGNED	4		RESERVED FOR FUTURE USE
28	(1C)	SIGNED	4	JIBJOEI	Index of JOE in the JOT
32	(20)	SIGNED	4	JIBJ2RAE (0)	END OF JES2 RELDS CMS COPY AREA
32	(20)	BITSTRING	4	JIBJCTA	JCT TRACK ADDRESS (JQEJCT)
36	(24)	SIGNED	4	JIBJBNUM	Job number
40	(28)	CHARACTER	8	JIBJOBID	HASP JOB IDENTIFIER
48	(30)	ADDRESS	4	JIBJKEY	HDBDSKEY FOR CB VERIFICATION
52	(34)	BITSTRING	184	JIBNEWS	Copy of current JNEW CB (used for JESNEWS)
236	(EC)	SIGNED	4	JIBJ2GAE (0)	END OF JES2 GETDS CMS COPY AREA
236	(EC)	SIGNED	4	JIBWORK (4)	WORK AREA FOR \$VERIFY IN FSSM
252	(FC)	CHARACTER	8	JIBDEVN	EBCDIC device name
260	(104)	ADDRESS	4	JIBSJIOB	Normal SJIOB pointer
264	(108)	ADDRESS	4	JIBCSJIO	CHK record SJIOB pointer
268	(10C)	ADDRESS	4	JIBJCT	POINTER TO JCT
272	(110)	ADDRESS	4	JIBIOT	POINTER TO IOT
276	(114)	BITSTRING	6	JIBIOTTK	IOT MQTR (CURRENT OR RESET)
282	(11A)	BITSTRING	2		Reserved
284	(11C)	ADDRESS	4	JIBPDDDB	POINTER TO NEXT ASSIGNABLE PDDB
288	(120)	ADDRESS	4	JIBFPDB	FIRST PDDB OFFSET IN JIB
292	(124)	ADDRESS	4	JIBFIOTR	IOT MTTR OF FIRST PDDB
296	(128)	ADDRESS	4	JIBCPBUF	CHECKPOINT I/O BUFFER ADDRESS
300	(12C)	ADDRESS	4	JIBGCB	POINTER TO GCB CHAIN
304	(130)	SIGNED	4	JIBDSACT	DATA SETS ASSIGNED COUNT
308	(134)	SIGNED	4	JIBDSEQN	DATA SET SEQUENCE NUMBER
312	(138)	CHARACTER	8	JIBSECLB	Security label of the job
320	(140)	BITSTRING	1	JIBJSPA	JSPA AREA
320	(140)	X'220'	0	JIBSIZE	**-"JIB" Length of JIB base. Note that the length of a JIB is JIBSIZE, plus the size of the prototype JOA, which is appended to the end of the JIB.
544	(220)	SIGNED	2	JIBJOAPR (0)	Prototype (copy) JOA. The size of a JIB is calculated dynamically at runtime by the FSMQCT routine in HASPFSSM

Comment

-----  
 Temporary equates for SDSF - Delete in next driver  
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End of Comment

544	(220)	BITSTRING	104	JIBWJOE	Work JOE is here
648	(288)	BITSTRING	1	JIBCJOE	Char JOE is here

## \$JIB Cross Reference

## \$JIB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
JIB	0		JIBWORK	EC	
JIBCJOE	288		JIB3AUTH	12	1
JIBCPBUF	128		JIB4DUMD	13	40
JIBCSJIO	108		JIB4FSSR	13	20
JIBDEVN	FC		JIB4NENF	13	1
JIBDSACT	130		JIB4OPIN	13	4
JIBDSEQN	134		JIB4RDIP	13	8
JIBFACT	10	40	JIB4REPO	13	2
JIBFBKSP	11	8	JIB4RSV1	13	80
JIBFCOMP	10	8			
JIBFCPB	10	2			
JIBFCPER	12	10			
JIBFCPVL	12	20			
JIBFDEL	11	40			
JIBFFSTP	12	80			
JIBFINCP	10	4			
JIBFINIT	10	10			
JIBFINT	11	10			
JIBFIOTR	124				
JIBFJHPG	11	4			
JIBFJTPG	11	2			
JIBFLAGS	10				
JIBFLG1	10				
JIBFLG2	11				
JIBFLG3	12				
JIBFLG4	13				
JIBFLSTP	12	40			
JIBFNEWS	11	1			
JIBFONDV	12	4			
JIBFOPIC	12	2			
JIBFPDB	120				
JIBFREQ	10	80			
JIBFRET	10	20			
JIBFRST	11	20			
JIBFSTOP	11	80			
JIBFUNPR	12	8			
JIBGCB	12C				
JIBID	0				
JIBIOERR	10	1			
JIBIOT	110				
JIBIOTTK	114				
JIBJBNUM	24				
JIBJCT	10C				
JIBJCTA	20				
JIBJKEY	30				
JIBJOAPR	220				
JIBJOBID	28				
JIBJOEI	1C				
JIBJSPA	140				
JIBJ2GAB	18				
JIBJ2GAE	EC				
JIBJ2RAB	8				
JIBJ2RAE	20				
JIBMIDSE	8				
JIBNEWS	34				
JIBNEXT	4				
JIBPDDB	11C				
JIBSECLB	138				
JIBSIZE	140	220			
JIBSJIOB	104				
JIBSWBER	13	10			
JIBUNPRR	14				
JIBWJOE	220				

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## \$JNEW Programming Interface information

Programming Interface information

\$JNEW

End of Programming Interface information

## \$JNEW Heading Information

**Common Name:** JNEW Control Block  
**Macro ID:** \$JNEW  
**DSECT Name:** JNEW  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** JNEW  
 Offset: JNEWID-JNEW  
 Length: LJNEWID

**Storage Attributes:** Subpool: 0  
 Key: 1  
 Residency: Virtual storage is 31 bit. No restriction on real storage

**Size:** See JNEWSIZE

**Created by:** JESNEWS processing in HASPJOS

**Pointed to by:** \$JNEW field of the \$HCT data area  
 JNEWNEXT field of the \$JNEW data area  
 PPPANEWS field of the \$PPPWORK data area  
 JIBNEWS field of the \$JIB data area

**Serialization:** Creation is serialized by the \$PRONEWS flag of the \$PROCESS byte in the HCT

**Function:** The JNEW is the control block representing the JESNEWS data set. It contains the JESNEWS data set resource name and the TOKEN associated with the data set. The format of the entity name is "nodeid.jes\_userid.\$JESNEWS.jesnews\_jobid.Dnews\_level.JESNEWS".

The JNEW is located in the JES2 address space. It is created by \$#NEWS when a new news data set is created and by \$#GTNEWS when a printer requests the current news.

## \$JNEW Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JNEW	
0	(0)	CHARACTER	4	JNEWID	JNEW identifier
4	(4)	ADDRESS	1	JNEWVERS	Version
		.... ...1		JNEWVRSN	"X'01" Version equate
5	(5)	BITSTRING	1	JNEWFLAG	Flag byte
		1... ....		JNEWMOVD	"B'10000000" JESNEWS was moved
6	(6)	ADDRESS	2		Reserved
8	(8)	SIGNED	4	JNEWUSE	Use Count
12	(C)	ADDRESS	4	JNEWNEXT	Address of next JNEW
16	(10)	SIGNED	4	JNEWJNUM	Job number of JQE
20	(14)	SIGNED	4	JNEWLEVL	Level of the news
24	(18)	ADDRESS	4	JNEWMTTR	MTTR of JESNEWS data set
28	(1C)	ADDRESS	4	JNEWIOTT	MTTR of JESNEWS IOT
32	(20)	SIGNED	4	JNEWRECT	Data set record count
36	(24)	SIGNED	4	JNEWPGCT	Page data page count
40	(28)	BITSTRING	80	JNEWTOKN	JESNEWS Security token
120	(78)	CHARACTER	53	JNEWENTY	JESNEWS entity name
173	(AD)	BITSTRING	1	JNEWRECF	Data set record format
174	(AE)	BITSTRING	2	JNEWRECL	Maximum data set record lng
176	(B0)	BITSTRING	4		Reserved
184	(B8)	DBL WORD	8	(0)	Ensure boundry
184	(B8)	X'B8'	0	JNEWSIZE	"*-JNEW" Size of JNEW control block



**\$JNEW Cross Reference**

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
JNEW	0	
JNEWENTY	78	
JNEWFLAG	5	
JNEWID	0	
JNEWIOTT	1C	
JNEWJNUM	10	
JNEWLEVL	14	
JNEWMOVD	5	80
JNEWMTTR	18	
JNEWNEXT	C	
JNEWPGCT	24	
JNEWRECF	AD	
JNEWRECL	AE	
JNEWRECT	20	
JNEWSIZE	B8	B8
JNEWTOKN	28	
JNEWUSE	8	
JNEWVERS	4	
JNEWVRSN	4	1



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## \$JNT Programming Interface information

Programming Interface information

\$JNT

End of Programming Interface information

## \$JNT Heading Information

**Common Name:** HASP Job Number Table  
**Macro ID:** \$JNT  
**DSECT Name:** JNT  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'JNT '  
 Offset: JNTID-JNT  
 Length: 4

**Storage Attributes:** Subpool: 0, 231, dataspace  
 Key: 1  
 Residency: Virtual storage is anywhere (below or above 16M) in the JES2 address space. Real storage is anywhere.

**Size:** JNTLEN + (2 \* 32768) - R4 mode <32K jobs  
 JNTLEN + (2 \* 65534) - R4 mode >=32K jobs  
 JNTLENZ2 + (4 \* 65536) - z2 mode

**Created by:** JES2 initialization allocates storage for the JNT. The checkpoint versions subtask creates copies of the JNT in the checkpoint versions data space.

**Pointed to by:** The \$JNTPTR field of the \$HCT data area.  
 The KACJNTP field of the \$KAC data area.  
 The DSRVJNPT field of the IAZDSERV data area.

**Serialization:** JES2 checkpoint data set lock (\$QSUSE)

**Function:** Maps the job number table in the 4K checkpoint page area. Contains all job number information including the JIX (job number index).

## \$JNT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JNT	JOB NUMBER TABLE DSECT
0	(0)	CHARACTER	4	JNTID	JNT IDENTIFIER
4	(4)	ADDRESS	1	JNTVRSN	JNT VERSION
4	(4)	X'3'	0	JNTVERS	"3" JNT VERSION NUMBER
5	(5)	ADDRESS	3	JNTRSV1	RESERVED
8	(8)	SIGNED	4	JNTLCMIN	LOCAL MINIMUM JOB NUMBER
12	(C)	SIGNED	4	JNTLCMAX	LOCAL MAXIMUM JOB NUMBER
16	(10)	SIGNED	4	JNTLSTAL	LAST ALLOCATED JOB NUMBER
20	(14)	SIGNED	4	JNTFRCNT	NUMBER OF FREE JOB NUMBERS
24	(18)	ADDRESS	4	JNTJBMAX	TOTAL NUMBER OF JOB NUMBERS
28	(1C)	SIGNED	4	(2)	Reserved for future use
36	(24)	SIGNED	4	JNTBSEND (0)	End of base section
36	(24)	X'24'	0	JNTBLEN	"*-JNT" Length of the base JNT

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>JNTJXMAP is a map of the allocated job numbers in the JIX. The map contains one bit for every 32 job numbers. Therefore, a bit being on indicates that one or more job numbers within the 32 job number range are allocated in the JIX.</p> <p>We selected one bit to represent 32 job numbers because 999999 job numbers could be accounted for and still keep the z2 JNT in a single buffer (not including the JIX).</p>					
End of Comment					
36	(24)	BITSTRING	1	JNTJXMAP	Jix map of allocated job numbers
36	(24)	X'F43'	0	JNTJXMLN	"*-JNTJXMAP" Length of JNTJXMAP
3944	(F68)	SIGNED	4	JNTJIXZ2 (0)	Start of z2 JIX
3944	(F68)	X'F68'	0	JNTLENZ2	"*-JNT" Length of the z2 JNT
3944	(F68)	X'10000'	0	JNTJXENT	"65536" Number of JIX entries

**\$JNT Cross Reference**

Name	Hex Offset	Hex Value
JNT	0	
JNTBLEN	24	24
JNTBSEND	24	
JNTFRCNT	14	
JNTID	0	D1D5E340
JNTJBMAX	18	
JNTJIXZ2	F68	
JNTJXENT	F68	10000
JNTJXMAP	24	
JNTJXMLN	24	F43
JNTLCMAX	C	
JNTLCMIN	8	
JNTLENZ2	F68	F68
JNTLSTAL	10	
JNTRSV1	5	
JNTVERS	4	3
JNTVRSN	4	



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## \$JOE Programming Interface information

Programming Interface information

\$JOE

End of Programming Interface information

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## \$JOE Heading Information

**Common Name:** Job Output Element  
**Macro ID:** \$JOE  
**DSECT Name:** JOE  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** The pool of JOEs is preceded by an  
eyecatcher **\*\*\*JOE POOL\*\*\*** in the header  
for the pool.  
Offset: HDPID-HDP  
Length: 13

**Storage Attributes:** Subpool: 0 for the JES2 main copy; dataspace for the checkpoint version copy.  
Key: 1  
Residency: The JOE is a checkpoint resident control block. Virtual storage is anywhere  
(below or above 16M) in the JES2 address space for the JES2 main copy.

**Size:** See JOESIZE.

**Created by:** JES2 Initialization allocates memory for the pool  
of JOEs. The checkpoint versions subtask creates  
the dataspace copies. The \$ADD service routine  
creates elements within the pool.

**Pointed to by:** The following fields contain indexes to \$JOEs from the  
address in field \$JOTABLE in the \$HCT data area. The  
offsets are converted to addresses by adding the value  
in \$JOTABLE to the offset. The indexes are converted  
to addresses by multiplying by JOESIZE and then adding  
the value in \$JOTABLE to the calculated offset.  
JOTFREQL field of the \$JOT data area  
JOTCHRQL field of the \$JOT data area  
JOTPRGQL field of the \$JOT data area  
JOTHLDSL field of the \$JOT data area  
JOTCLSQL field of the \$JOT data area  
JOTNTWQL field of the \$JOT data area  
JQEJOEL field of the \$JQE data area  
JOENEXTI field of the \$JOE data area  
JOEPREVI field of the \$JOE data area  
JOENXJQL field of the \$JOE data area  
JOECHARI field of the \$JOE data area  
JOECHNXL field of the \$JOE data area  
JOEWKPTI field of the \$JOE data area  
-----  
The following fields contain offsets to \$JOEs:  
PSOWKOFF field of the \$PSO data area  
PSOCHOFF field of the \$PSO data area  
JOENETCH field of the \$JOE data area  
-----  
The following fields contain addresses of \$JOEs:  
PQEJWJOE field of the \$PQE data area  
PQEDWJOE field of the \$PQE data area  
PQHJWJOE field of the \$PQH data area  
-----  
Various fields in the processor work areas and  
parameter lists contain offsets or addresses of  
JOEs.



**Serialization:** The JES2 checkpoint (\$QSUSE) for change, the owning job's job lock for selection. JOEs in the main copy of the checkpoint may not be examined by anything other than the JES2 main task since they could be changing, they may be page-released or they may be all zeros. WORK JOEs are managed by the \$DOGJOE service. This provides encapsulation services that can be used to isolate code from future changes. In addition, a lock (the BERT lock) is used to serialize updates to work JOEs (CHAR JOEs should never be updated except by the appropriate \$# service). With the exception of a few bits, you must obtain an update mode JOA before making any updates to a work JOE.

**Function:** The JOE control block represents group of sysout data sets (PDDBs) with compatible output grouping characteristics. It is a checkpointed control block that represents queued and active output work.

There are two main types of JOEs, work JOEs and characteristics JOEs. Work JOEs are the queue elements used to select, hold, track, etc. an output group. The chains that are run to select output work are those of work JOEs. Work JOEs contain attributes of JOEs that vary frequently such as class, record counts and page counts. One characteristics JOE exists for each unique combination of other characteristics not in the work JOE that vary less frequently such as userid, writer id and security label for all the JOEs in the MAS. One characteristics JOE may represent multiple work JOEs.

The work JOEs are chained by SYSOUT classes, from anchors in the Job Output Table (JOT). The JOT anchors are in the CKPT, located in the front of the section for the JOEs.

The JOEs written to the checkpoint exist in multiple copies: main and I/O checkpoint areas. The main and I/O CKPT areas in storage each have a copy, and are in subpool 0. There may be 1 or more versions in the CKPT Versions dataspace as well.

Copies of JOEs may be made in other control blocks, for example in the JIB that flows through the FSS output logic in an FSS address space (copied from the JES2 address space).

**\$JOE Map**

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JOE	JOB OUTPUT ELEMENT DSECT
0	(0)	X'0'	0	JOA	"JOE,0,C'J" JOE is sometimes a JOA
0	(0)	X'8'	0	JOEVRSN	"8" JOE control block version
					Comment
Work JOE starts here					
					End of Comment
0	(0)	X'0'	0	JOEWSTRT	"*,0,C'J" Start of work JOE area
0	(0)	BITSTRING	1	JOETYPE	JOE TYPE
		1... ....		JOEWORK	"B'10000000" THIS IS A WORK JOE
		.1... ....		JOECHARJ	"B'01000000" THIS IS A CHAR JOE
		11.. ....		JOEFREE	"B'11000000" THIS IS A FREE JOE

# \$JOE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	X'0'	0	JOEWB1	"JOE,*-JOE,C'X'" 1st work JOE block
1	(1)	ADDRESS	3	JOENEXTI	Next WORK-JOE in class q or next CHAR-JOE (index)
4	(4)	BITSTRING	1	JOECURCL	JOE CURRENT SYSOUT CLASS (reserved in the CHAR JOE)
4	(4)	X'4'	0	JOEWB2	"JOECURCL,*-JOECURCL,C'X'" 2nd work JOE block
Comment					
<p>When the JOE is the first JOE on the queue, the right-most 23 bits of the JOEPREVI value will be the offset of the JOT queue head representing the "0th" JOE. The left-most bit will be on to indicate it is an offset and not an index.</p>					
End of Comment					
5	(5)	ADDRESS	3	JOEPREVI	Previous WORK-JOE in class queue or previous CHAR-JOE (index)
8	(8)	BITSTRING	1	JOEFLAG5	Common area JOE flag byte
		.... ..1		JOE5RBLD	"B'00000001" This JOE is on the Rebuild queue
		.... ..1.		JOE5ZAP	"B'00000010" JOE (and JQE) zapped by ZAPJOB
8	(8)	X'8'	0	JOEWB3	"JOEFLAG5,*-JOEFLAG5,C'X'" 3rd work JOE block
9	(9)	BITSTRING	3		Reserved for future use
12	(C)	BITSTRING	1	JOEFLAG1	WORK-JOE FLAGS
		1... ....		JOE1CKV	"B'10000000" CHECKPOINT ELEMENT VALID FLAG
		.1... ....		JOE1SPIN	"B'01000000" SPIN JOE FLAG
		..1. ....		JOE1PRT	"B'00100000" JOE ON-PRINTER FLAG
		...1 ....		JOE1PUN	"B'00010000" JOE ON-PUNCH FLAG
		.... 1...		JOE1CJES	"B'00001000" ckpted by JES (not by FSS). If JOE is interrupted and later processed by FSS, bit indicates to invalidate ckpt + reset counts
Comment					
<p>JOE1CPDS is set on when a JOE is built and when PDDBs are grouped into the JOE. JOE1CPDS is never turned off even if there are no more PDDBs with PDB3PAGE on</p>					
End of Comment					
		.... ..1.		JOE1CPDS	"B'00000100" One or more PDDBs within this JOE are Page mode (i.e. PDB3PAGE is on)
Comment					
<p>JOE1CTKN is set on when a JOE is built if a PDDB being represented by the JOE has a client token associated with it (a client token was returned on the dynamic allocation for the SYSOUT data set represented by the PDDB).</p>					
End of Comment					
		.... ..1.		JOE1CTKN	"B'00000010" A PDDB within this JOE has a client token associated with it( i.e. PDB9CTKN on)
		.... ..1		JOE1ART	"B'00000001" This is an artificial JOE
13	(D)	ADDRESS	3	JOEJQEI	JQE for this JOE (index)
16	(10)	BITSTRING	1	JOEFLAG2	MORE WORK JOE FLAGS
		1... ....		JOE2TCEL	"B'10000000" TRACK-CELL JOE FLAG
		.1... ....		JOE2DMND	"B'01000000" DEMAND-SETUP JOE FLAG
		..1. ....		JOE2SYSN	"B'00100000" SYSTEM GENERATED JOE NAME FLAG

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		...1 ....		JOE2CLNE	"B'00010000" SET MULTIPLE COPIES OF THIS JOE
		.... 1...		JOE2UPRI	"B'00001000" USER SPECIFY PRIORITY FLAG
		.... .1..		JOE2IPAD	"B'00000100" Destination is in IP-format
		.... ..1.		JOE2NUNK	"B'00000010" Tokens are NJE unknown user
		.... ...1		JOE2UNSP	"B'00000001" JOE CREATED BY UNSPUN PROC
16	(10)	X'C'	0	JOEWB4	"JOEFLAG1,*-JOEFLAG1,C'X'" 4th work JOE block
17	(11)	ADDRESS	3	JOENXJQI	Next WORK-JOE with same job (index)
20	(14)	BITSTRING	1	JOEFLAG3	THIRD WORK JOE FLAG
		1... ....		JOE3CPER	"B'10000000" PERM I/O ERROR ON CHK SPOOL REC
		.1.. ....		JOE3IOTV	"B'01000000" JOE'S IOT HAS BEEN WRITTEN
		..1. ....		JOE3NWTG	"B'00100000" GET NEW TRK GRP FOR CHK
20	(14)	X'10'	0	JOE3TODP	"\$ODPURGE" JOE IS OUTDISP=PURGE

Comment

The 4 following bits must match definitions in STATSSL3/ESWPSSL3.

End of Comment

20	(14)	X'8'	0	JOE3TODW	"\$ODWRITE" JOE IS OUTDISP=WRITE
20	(14)	X'4'	0	JOE3TODH	"\$ODHOLD" JOE IS OUTDISP=HOLD
20	(14)	X'2'	0	JOE3TODK	"\$ODKEEP" JOE IS OUTDISP=KEEP
20	(14)	X'1'	0	JOE3TODL	"\$ODLEAVE" JOE IS OUTDISP=LEAVE
20	(14)	X'1F'	0	JOE3TODA	"\$ODANYWP" ALL OUTDISP BIT SETTINGS
20	(14)	X'14'	0	JOEWB5	"JOEFLAG3,*-JOEFLAG3,C'X'" 5th work JOE block
21	(15)	ADDRESS	3	JOECHARI	Characteristic JOE for this WORK-JOE (index)
24	(18)	BITSTRING	1	JOEOFFSL	OFFLOAD SELECT BYTE
24	(18)	X'18'	0	JOEWB6	"JOEOFFSL,*-JOEOFFSL,C'X'" 6th work JOE block
25	(19)	ADDRESS	3	JOECHNXI	Next WORK-JOE, same CHAR (index)
28	(1C)	BITSTRING	1	JOEFLAG4	FOURTH WORK JOE FLAG
		1... ....		JOE4JNEW	"B'10000000" JESNEWS JOE FLAG
		.1.. ....		JOE4CRTM	"B'01000000" JOECRTME update pending
		..1. ....		JOE4DAUG	"B'00100000" JOE created from daughter spin IOT
		...1 ....		JOE4DSCT	"B'00010000" Valid DSCT in spin IOT
		.... 1...		JOE4PRIO	"B'00001000" Installation set Priority
		.... .1..		JOE4DSID	"B'00000100" DSID= 3540 HELD DATA SET
		.... ..1.		JOE4NPSO	"B'00000010" JOE IS NOT AVAILABLE TO PSO
		.... ...1		JOE4PRST	"B'00000001" JOE priority has been set by \$#BLD

Comment

Flag byte JOEFLGT2 is used by various processors (HASPSSM, HASPNST, HASPPRPU, HASPPSO) to determine whether or not to update the corresponding PDDBs, hence causing the PDDBs to be re-grouped. These flags are currently being set by both \$TO and \$R command processing.

End of Comment

29	(1D)	BITSTRING	1	JOEFLGT2	Indications of JOE modified by operator commands, JOE fields should override corresponding fields in PDDB. See also JOEFLAGT.
		.1.. ....		JOE2TUSE	"B'01000000" Userid changed via commands
		..1. ....		JOETPSOC	"B'00100000" JOE created by PSO/SAPI
		...1 ....		JOETPSOA	"B'00010000" PSO/SAPI added PDDB to JOE
		.... 1...		JOETPSOD	"B'00001000" PSO/SAPI deleted PDDB from JOE
30	(1E)	BITSTRING	1	JOEHOLD	JOE hold type (also called JOE blocked type)

# \$JOE Map

## Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
OHLDOPER B'10000000' Operator HOLD/blocked					
OHLDSYS B'00100000' System HOLD/blocked					
OHLDALL B'11111111' ALL HOLD/blocked					
End of Comment					
31	(1F)	BITSTRING	1	JOEHSRSN	System HOLD/blocked reason
Comment					
OHLDJX01 X'01' FSI RELDS UNPRINTABLE SWB ERROR					
OHLDJX02 X'02' FSI RELDS UNPRINTABLE FSA					
OHLDJX03 X'03' SAF CALL FAILED IN HASPPRPU					
OHLDJX04 X'04' TRANSMISSION FAILED IN HASPNET					
OHLDJX05 X'05' NJE Hop Count Exceeded					
OHLDJX06 X'06' Held by Sysout API					
OHLDJ233 X'33' OFFLOAD WITH HOLD					
OHLDJ234 X'34' PROGRAM CHECK IN HASPPRPU					
OHLDJ235 X'35' PROGRAM CHECK IN USER EXIT					
OHLDJ236 X'36' PROGRAM CHECK IN SWBTUREQ					
End of Comment					
32	(20)	SIGNED	4	JOEFSID	FSID IF JOE ACTIVE ON AN FSA
32	(20)	X'20'	0	JOEFSSID	"JOEFSID,2,C'H" FSS ID
32	(20)	X'22'	0	JOEFSID	"JOEFSID+2,2,C'H" FSA ID
32	(20)	X'20'	0	JOENETCH	"JOEFSID,4,C'A" Offset of next JOE on SYSOUT transmitter chain
36	(24)	SIGNED	2	JOEPRIOR	JOE PRIORITY X'0000' - X'0FF0'
38	(26)	SIGNED	2	JOEJNEWL	JESNEWS number for JESNEWS
40	(28)	SIGNED	4	JOECPADR_Z2	CKPT SPOOL record addr (MTTR) z2 mode only (reserved in z11 mode)
Comment					
THESE FIELDS MUST BE KEPT TOGETHER					
End of Comment					
44	(2C)	BITSTRING	4	JOERECCT	TOTAL RECORD COUNT
48	(30)	BITSTRING	4	JOEPGCT	TOTAL PAGE RECORD COUNT
52	(34)	BITSTRING	4	JOEWRECEN	NUM OF RECS PROCESSED SO FAR
56	(38)	BITSTRING	4	JOEWPAGN	NUM OF PAGES PROCESSED SO FAR
Comment					
END OF SECTION THAT MUST BE KEPT TOGETHER					
End of Comment					
60	(3C)	SIGNED	4	JOEIOTTR_Z2	JOE IOT track addr (MTTR) z2 mode only (reserved in z11 mode)
64	(40)	BITSTRING	3	JOEDEVID	USER DEVICE IDENTIFICATION

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>Flag byte JOEFLAGT is used by various processors (HASPSSM, HASPNST, HASPPRPU, HASPPSO) to determine whether or not to update the corresponding PDDBs, hence causing the PDDBs to be re-grouped. These flags are currently being set by both \$TO and \$R command processing.</p>					
End of Comment					
67	(43)	BITSTRING	1	JOEFLAGT	Indications of JOE modified by operator commands, JOE fields should override corresponding fields in Pddb. See also JOEFLGT2.
		1... ..		JOEFTMOD	"B'10000000" JOE overrides Pddb settings or network data set header settings
		.1.. ..		JOEFTFMS	"B'01000000" FORMS CHANGED
		..1. ....		JOEFTFCB	"B'00100000" FCB CHANGED
		...1 ....		JOEFTUCS	"B'00010000" UCS CHANGED
		.... 1..		JOEFTWRT	"B'00001000" WRITER CHANGED
		.... .1..		JOEFTFLH	"B'00000100" FLASH CHANGED
		.... ..1.		JOEFTBRT	"B'00000010" BURST CHANGED
		.... ...1		JOEFTPRM	"B'00000001" PRMODE CHANGED
68	(44)	SIGNED	4	JOEROUT (0)	REMOTE ID OF DATA
68	(44)	SIGNED	2	JOERNODE	NODE NUMBER
70	(46)	SIGNED	2	JOEREMOT	REMOTE NUMBER
70	(46)	X'46'	0	JOERUNIT	"JOEREMOT" UNIT ADDRESS
72	(48)	CHARACTER	12	JOEID (0)	JOE IDENTIFICATION BLOCK
72	(48)	CHARACTER	8	JOENAME	JOE'S OUTPUT GROUP NAME
72	(48)	X'4F'	0	JOESGNB1	"JOENAME+7" JOENAME SIGN NIBBLE FOR EBCDIC
80	(50)	SIGNED	2	JOEID1	JOE'S OUTPUT GROUP 1ST ID
82	(52)	SIGNED	2	JOEID2	JOE'S OUTPUT GROUP 2ND ID
84	(54)	SIGNED	4	JOECRTME	JOE CREATION TIME
88	(58)	CHARACTER	8	JOECRUID	Creator userid for Dataset
96	(60)	SIGNED	4	JOEBERTT	Token representing the BERTS for this JOE (In z11 mode)
96	(60)	X'60'	0	JOESWBOT_Z2	"JOEBERTT,4,C'X" Track address of JOE SWBIT chain for SWBTU overrides (MTTR) z2 mode only
100	(64)	BITSTRING	1	JOEBUSY	JOE busy system id
101	(65)	SIGNED	3	JOEFAMILY	Mother/Daughter Family ID
101	(65)	X'1C'	0	JOEWB7	"JOEFLAG4,*-JOEFLAG4,C'X" 7th work JOE block
104	(68)	SIGNED	4	JOE1END (0)	END OF WORK-JOE
104	(68)	X'68'	0	JOEWSIZE	**-*JOEWSTRT" Size of Work JOE

Comment

CHAR JOE starts here

End of Comment					
104	(68)	X'68'	0	JOECSTRT	**0,C'J" Start of CHAR JOE area
104	(68)	BITSTRING	1	JCETYPE	JOETYPE JOE Type
104	(68)	X'68'	0	JOECB1	"JOECSTRT,*-JOECSTRT,C'X" 1st CHAR JOE block
105	(69)	ADDRESS	3	JCENEXTI	JOENEXTI Next CHAR-JOE
108	(6C)	BITSTRING	1	JOECR2	Reserved
108	(6C)	X'6C'	0	JOECB2	"JOECR2,*-JOECR2,C'X" 2nd CHAR JOE block

## \$JOE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
-----					
<p>When the JOE is the first JOE on the queue, the right-most 23 bits of the JOEPREVI value will be the offset of the JOT queue head representing the "0th" JOE. The left-most bit will be on to indicate it is an offset and not an index.</p>					
-----					
End of Comment					
109	(6D)	ADDRESS	3	JCEPREVI	JOEPREVI Previous CHAR-JOE
112	(70)	BITSTRING	1	JCEFLAG5	JOEFLAG5 Common area JOE flag byte
112	(70)	X'70'	0	JOECB3	"JCEFLAG5,*-JCEFLAG5,C'X'" 3rd CHAR JOE block
113	(71)	BITSTRING	3		Reserved for future use
116	(74)	BITSTRING	1	JOECR4	Reserved - Do not use. This allows us to use JOE1ART directly for an art JOE check instead of having to check JOETYPE first.
116	(74)	X'74'	0	JOECB4	"JOECR4,*-JOECR4,C'X'" 4th CHAR JOE block
117	(75)	ADDRESS	3	JOEWKPTI	WORK-JOE with like CHAR-JOE (index)
Comment					
<p>IF YOU ADD OR DELETE SETUP FIELDS, YOU MUST UPDATE THE EQUATES FOR THE \$D F COMMAND IN HASPCOMM</p>					
End of Comment					
120	(78)	CHARACTER	8	JOEFORM	FORMS NAME
128	(80)	CHARACTER	4	JOEFCB	FCB NUMBER
132	(84)	CHARACTER	4	JOEUCS	UCS NUMBER
136	(88)	CHARACTER	8	JOEWTRID	DATA SET EXTERNAL WRITER NAME
144	(90)	CHARACTER	8	JOEUSER	USER ID
152	(98)	CHARACTER	4	JOEFLASH	OVERLAY-FRAME
156	(9C)	CHARACTER	8	JOEPRMD	PROCESS MODE OF THIS JOE
164	(A4)	CHARACTER	8	JOESECLB	Security label for Dataset
172	(AC)	BITSTRING	1	JOEFLAGC	CHARACTERISTICS FLAGS
		1... ....		JOEFCBRT	"B'10000000" BURST=YES FLAG
173	(AD)	BITSTRING	1	JOEFLAGD	DEMAND CHARACTERISTIC FLAGS
		1... ....		JOEFDMS	"B'10000000" FORMS DEMAND '0' NO '1' YES
		.1.. ....		JOEFDLH	"B'01000000" FLASH DEMAND '0' NO '1' YES
		..1. ....		JOEFDLH	"B'00100000" FCB DEMAND '0' NO '1' YES
		...1 ....		JOEFDUCS	"B'00010000" UCS DEMAND '0' NO '1' YES
		.... 1...		JOEFDVRT	"B'00001000" BURST DEMAND '0' NO '1' YES
173	(AD)	X'78'	0	JOESETUP	"JOEFORM,*-JOEFORM" DEVICE SETUP CHARACTERISTICS
174	(AE)	BITSTRING	2		RESERVED FOR FUTURE USE
174	(AE)	X'78'	0	JOECB5	"JOEFORM,*-JOEFORM,C'X'" 5th CHAR JOE block
176	(B0)	SIGNED	4	JOEUSE	# OF JOES USING THIS ELEMENT
180	(B4)	SIGNED	4	JOE2END (0)	END OF CHAR-JOE
180	(B4)	X'4C'	0	JOESIZE	**-*JOECSTRT" Size of Char JOE
Comment					
<p>Set length to be 2 times the longer of the WORK or CHAR JOE.</p>					
End of Comment					
0	(0)	BITSTRING	208		Define 2 WORK JOEs length
0	(0)	BITSTRING	152		Define 2 CHAR JOEs length
208	(D0)	X'68'	0	JOESIZE	"(*-JOE)/2" Size of CKPTed JOE area

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description

Comment

JOE extension (JOX)  
 The following fields appear only within an artificial JOE. Artificial JOEs are constructed using the \$DOGJOE service.

End of Comment

208	(D0)	SIGNED	4	JOX (0)	Start of JOE extension
208	(D0)	BITSTRING	6	JOXSWBOT	Track address of JOE SWBIT chain for SWBTU overrides (MQTR)
214	(D6)	BITSTRING	6	JOXCPADR	CKPT SPOOL record addr
220	(DC)	BITSTRING	6	JOXIOTTR	JOE IOT track addr
226	(E2)	BITSTRING	1	JOXFLAG1	JOX Flags
		1... ....		JOXTRNCK	"B'10000000" This JOE has been checked for transaction data since last z2 to z11 activation.
226	(E2)	X'D0'	0	JOXSB1	"JOX,*-JOX,C'X'" 1st work JOX block
227	(E3)	BITSTRING	1		Reserved
228	(E4)	SIGNED	4	(3)	Reserved
240	(F0)	SIGNED	4	JOE3END (0)	End of JOX area
240	(F0)	X'20'	0	JOXSIZE	**-"JOX" Size of the JOX

Comment

Local JOE fields (never written to the checkpoint)

End of Comment

240	(F0)	ADDRESS	4	JOELCHAN	JOA chain pointer
244	(F4)	SIGNED	2	JOEDLEN	Length of JOA
246	(F6)	SIGNED	2		Reserved

Comment

JOE fields backed by BERTs (only valid in z11 mode)  
 Fields in this section are associated with work JOEs and are filled in by the \$DOGJOE/\$DOGBERT services.

End of Comment

248	(F8)	SIGNED	4	JOEBERTS (0)	Start of BERT JOE area
248	(F8)	CHARACTER	8	JBETRJB	Transaction job name
256	(100)	CHARACTER	8	JBETRWKI	Transaction work unit id
256	(100)	X'F8'	0	JBETRANS	"JBETRJB,*-JBETRJB" Section definition field
256	(100)	X'10'	0	JBEMAINL	**-"JOEBERTS" Length of BERT section
256	(100)	X'108'	0	JOASIZE	**-"JOA" Length of artificial JOE

**\$JOE Cross Reference**

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
JBEMAINL	100	10	JOEBUSY	64	
JBETRANS	100	F8	JOECB1	68	68
JBETRJB	F8		JOECB2	6C	6C
JBETRWKI	100		JOECB3	70	70
JCEFLAG5	70		JOECB4	74	74
JCENEXTI	69		JOECB5	AE	78
JCEPREVI	6D		JOECHARI	15	
JCETYPE	68		JOECHARJ	0	40
JOA	0	0	JOECHNXI	19	
JOASIZE	100	108	JOECPADR_Z2	28	
JOE	0		JOECRTME	54	
JOEBERTS	F8		JOECRUID	58	
JOEBERTT	60		JOECR2	6C	

## \$JOE Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
JOECR4	74		JOETPSOA	1D	10
JOECSIZE	B4	4C	JOETPSOC	1D	20
JOECSTRT	68	68	JOETPSOD	1D	8
JOECURCL	4		JOETYPE	0	
JOEDEVID	40		JOEUCS	84	
JOEDLEN	F4		JOEUSE	B0	
JOEFAMLY	65		JOEUSER	90	
JOEFCB	80		JOEVRSN	0	8
JOEFCBRT	AC	80	JOEWB1	0	0
JOEFDBRT	AD	8	JOEWB2	4	4
JOEFDFCB	AD	20	JOEWB3	8	8
JOEFDFLH	AD	40	JOEWB4	10	C
JOEFDFMS	AD	80	JOEWB5	14	14
JOEFDUCS	AD	10	JOEWB6	18	18
JOEFLAGC	AC		JOEWB7	65	1C
JOEFLAGD	AD		JOEWKPTI	75	
JOEFLAGT	43		JOEWORK	0	80
JOEFLAG1	C		JOEWPAgn	38	
JOEFLAG2	10		JOEWRECN	34	
JOEFLAG3	14		JOEWSIZE	68	68
JOEFLAG4	1C		JOEWSTRT	0	0
JOEFLAG5	8		JOEWTRID	88	
JOEFLASH	98		JOE1ART	C	1
JOEFLGT2	1D		JOE1CJES	C	8
JOEFORM	78		JOE1CKV	C	80
JOEFREE	0	C0	JOE1CPDS	C	4
JOEFSaid	20	22	JOE1CTKN	C	2
JOEFSID	20		JOE1END	68	
JOEFSSID	20	20	JOE1PRT	C	20
JOEFTBRT	43	2	JOE1PUN	C	10
JOEFTFCB	43	20	JOE1SPIN	C	40
JOEFTFLH	43	4	JOE2CLNE	10	10
JOEFTFMS	43	40	JOE2DMND	10	40
JOEFTMOD	43	80	JOE2END	B4	
JOEFTPRM	43	1	JOE2IPAD	10	4
JOEFTUCS	43	10	JOE2NUNK	10	2
JOEFTWRT	43	8	JOE2SYSN	10	20
JOEHOLD	1E		JOE2TCEL	10	80
JOEHSRSN	1F		JOE2TUSE	1D	40
JOEID	48		JOE2UNSP	10	1
JOEID1	50		JOE2UPRI	10	8
JOEID2	52		JOE3CPER	14	80
JOEIOTTR_Z2	3C		JOE3END	F0	
JOEJNEWL	26		JOE3IOTV	14	40
JOEJQEI	D		JOE3NWTG	14	20
JOELCHAN	F0		JOE3TODA	14	1F
JOENAME	48		JOE3TODH	14	4
JOENETCH	20	20	JOE3TODK	14	2
JOENEXTI	1		JOE3TODL	14	1
JOENXJQI	11		JOE3TODP	14	10
JOEOFFSL	18		JOE3TODW	14	8
JOEPGCT	30		JOE4CRTM	1C	40
JOEPREVI	5		JOE4DAUG	1C	20
JOEPRIO	24		JOE4DSCT	1C	10
JOEPRMD	9C		JOE4DSID	1C	4
JOERECCT	2C		JOE4JNEW	1C	80
JOEREMOT	46		JOE4NPSO	1C	2
JOERNODE	44		JOE4PRIO	1C	8
JOEROUT	44		JOE4PRST	1C	1
JOERUNIT	46	46	JOE5RBLD	8	1
JOESECLB	A4		JOE5ZAP	8	2
JOESETUP	AD	78	JOX	D0	
JOESGNB1	48	4F	JOXCPADR	D6	
JOESIZE	D0	68	JOXFLAG1	E2	
JOESWBOT_Z2	60	60	JOXIOTTR	DC	



<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
JOXSB1	E2	D0
JOXSIZE	F0	20
JOXSWBOT	D0	
JOXTRNCK	E2	80

## \$JOE Cross Reference

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## \$JOT Programming Interface information

Programming Interface information

\$JOT

End of Programming Interface information

## \$JOT Heading Information

**Common Name:** Job Output Table  
**Macro ID:** \$JOT  
**DSECT Name:** JOT  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'JOT '  
 Offset: JOTID-JOT  
 Length: 4

**Storage Attributes:** Subpool: 0 for the JES2 main copy; dataspace for the checkpoint version copy.  
 Key: 1  
 Residency: The JOT is a checkpoint resident control block. Virtual storage is anywhere (below or above 16M) in the JES2 address space for the JES2 main copy.

**Size:** See JOESIZE.  
**Created by:** JES2 Initialization allocates memory for the JOT.  
 The checkpoint versions subtask creates the dataspace copies.

**Pointed to by:** \$JOTABLE field of the \$HCT data area  
 KACJOTP field of the \$KAC data area

**Serialization:** The JES2 checkpoint (\$QSUSE) for change. The copy of the JOT in the main copy of the checkpoint may not be examined by anything other than the JES2 main task since it could be changing, it may be page-released or it may be all zeros

**Function:** The JOT control block contains the headers to all the job output queues and contains all the Job Output Elements (JOEs). See \$JOE for more information on JOEs.

## \$JOT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JOT	JOB OUTPUT TABLE DSECT
0	(0)	CHARACTER	4	JOTID	JOB OUTPUT TABLE ID
4	(4)	SIGNED	4	JOTFREC	COUNT OF FREE JOES
8	(8)	ADDRESS	2	JOTCLMU	CLASS MULTIPLIER
10	(A)	SIGNED	2		RESERVED FOR FUTURE USE
12	(C)	ADDRESS	4	JOTCLSEN	SIZE OF CLASS QUEUE ENTRY
16	(10)	ADDRESS	4	JOTUSER1	USER FIELD ONE
20	(14)	ADDRESS	4	JOTUSER2	USER FIELD TWO
24	(18)	ADDRESS	4	JOTUSER3	USER FIELD THREE
28	(1C)	ADDRESS	4	JOTUSER4	USER FIELD FOUR

Comment

-----  
 The contents of the queue head (value used to locate the JOE) vary depending upon the mode of the JES2 checkpoint. In R4 mode the queue head will contain a JOE offset. In R12 mode, the queue head will contain a JOE index.  
 -----

End of Comment

32	(20)	ADDRESS	4	JOTQHEAD (0)	Beginning of JOE q heads
32	(20)	ADDRESS	4	JOTFREQL	Queue of free JOEs
36	(24)	ADDRESS	4	JOTCHRQL	Queue of CHAR-JOEs

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
40	(28)	ADDRESS	4	JOTPRGQI	Queue of purge JOEs

Comment

-----  
 HOLD QUEUE - AVAILABLE FOR ANY OFFLOAD DEVICES  
 -----

End of Comment

44	(2C)	ADDRESS	4	JOTHLDQI	Queue of hold JOEs
----	------	---------	---	----------	--------------------

Comment

-----  
 READY QUEUE -  
 AVAILABLE FOR ANY PROCESSOR THAT IS ELIGIBLE TO SELECT JOES  
 -----

End of Comment

48	(30)	BITSTRING	0	JOTRDWQI (0)	Ready work JOE queues
48	(30)	ADDRESS	4	JOTNTWQI	Queue of network JOEs
52	(34)	ADDRESS	4	JOTCLSQI (0)	Queue of class WORK-JOEs
52	(34)	ADDRESS	4	(0)	OFFSET QUEUE OF CLASS WORK-JOES BY LOCAL AND NON-LOCAL DEST (QUEUE HEADS)
52	(34)	X'6D'	0	JOTNUMWQ	"(1+3*36)" NUMBER OF READY WORK QUEUE
52	(34)	X'1B0'	0	JOTCLSSZ	"(*-JOTCLSQI)" Size of class queue heads
52	(34)	X'4'	0	JOTHEADL	"4" LENGTH OF A CLASS QUEUE HEAD
52	(34)	X'8'	0	JOTPRHDL	"2*JOTHEADL" LENGTH OF PAIR OF CLASS Q HEADS
52	(34)	X'0'	0	JOTLQOFF	"0" OFFSET OF LCL Q FROM CLS
52	(34)	X'4'	0	JOTUQOFF	"JOTHEADL" OFFSET OF USER Q FROM CLS
52	(34)	X'8'	0	JOTRQOFF	"2*JOTHEADL" OFFSET OF REM Q FROM CLASS
52	(34)	X'C'	0	JOTTHEDL	"3*JOTHEADL" TOTAL LENGTH OF CLS Q HDS
484	(1E4)	ADDRESS	4	JOTRBLQI	JOE rebuild queue header
484	(1E4)	X'1C8'	0	JOTQUEL	**-"JOTQHEAD" Length of all JOE q headers
488	(1E8)	SIGNED	4	(2)	Reserved for future use

Comment

-----  
 Ensure JOT header size is exact multiple of JOE size.  
 There cannot be anything between the next DC  
 and JOTJOES.  
 -----

End of Comment

496	(1F0)	BITSTRING	1	(0)	
520	(208)	SIGNED	4	JOTJOES (0)	START OF JOB OUTPUT ELEMENTS
520	(208)	X'208'	0	JOTJOESO	**-"JOT" Offset of first real JOE
520	(208)	X'5'	0	JOTJOESI	"(*-JOT)/JOESIZE" Index of first real JOE
520	(208)	X'F4240'	0	JOTMXJOE	"1000000" Maximum number of JOEs for Z11 mode
520	(208)	X'1E84'	0	JOTFRJIX	"((JOTMXJOE+JOTJOESI)/x'200)*4" Local free JOE array size (see FREEJOE in HASPJOS for info)

## \$JOT Cross Reference

### \$JOT Cross Reference

Name	Hex Offset	Hex Value
JOT	0	
JOTCHRQI	24	
JOTCLMU	8	
JOTCLSEN	C	
JOTCLSQI	34	
JOTCLSSZ	34	1B0
JOTFREC	4	
JOTFREQI	20	
JOTFRJIX	208	1E84
JOTHEADL	34	4
JOTHLDQI	2C	
JOTID	0	
JOTJOES	208	
JOTJOESI	208	5
JOTJOESO	208	208
JOTLQOFF	34	0
JOTMXJOE	208	F4240
JOTNTWQI	30	
JOTNUMWQ	34	6D
JOTPRGQI	28	
JOTPRHDL	34	8
JOTQHEAD	20	
JOTQUEL	1E4	1C8
JOTRBLQI	1E4	
JOTRDWQI	30	
JOTRQOFF	34	8
JOTTEDL	34	C
JOTUQOFF	34	4
JOTUSER1	10	
JOTUSER2	14	
JOTUSER3	18	
JOTUSER4	1C	

## \$JPAWORK Heading Information

**Common Name:** JES2 Job Priority Aging PCE Work Area  
**Macro ID:** \$JPAWORK  
**DSECT Name:** PCE (\$JPAWORK is part of the PCE DSECT)  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'PCE '  
 Offset: PCEEYE-PCE  
 Length: 4  
**Storage Attributes:** Subpool: See \$PCE  
 Key: See \$PCE  
 Residency: See \$PCE  
**Size:** See symbol JPAPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.  
**Created by:** See \$PCE  
**Pointed to by:** The \$PRTYPCE field of the \$HCT data area  
 See \$PCE for other pointer fields that apply to all PCE types.  
**Serialization:** Normal PCE dispatch serialization  
**Function:** The fields in this area are used by a JES2 Job Priority Aging Processor and by its support routines and exits. \$JPAWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$JPAWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEJPAID in the second byte of field PCEID.

This PCE is not device related. Field PCEDCT is zero.

## \$JPAWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
312	(138)	BITSTRING	12	JPATQE	HASP Timer Queue Element
324	(144)	SIGNED	4		Reserved for future use
328	(148)	DBL WORD	8	(0)	Force double-word alignment
328	(148)	X'10'	0	JPAPCEWS	**-PCEWORK" Length of work area

## \$JPAWORK Map



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## \$JQE Programming Interface information

Programming Interface information

\$JQE

End of Programming Interface information

## \$JQE Heading Information

**Common Name:** JES2 Job Queue Element  
**Macro ID:** \$JQE  
**DSECT Name:** JQE  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** The pool of JQEs is preceded by an  
eyecatcher '\*\*JQE POOL\*\*' in the header  
for the pool.  
Offset: HDPID-HDP  
Length: 13

**Storage Attributes:** Subpool: 0, 231, dataspace  
Key: 1  
Residency: Virtual storage is anywhere (below or above 16M) in the JES2 address  
space. Real storage is anywhere.

**Size:** JQEBLEN (base length) + 4\*((SPOLNUM+31)/32) (size of  
the SPOOLS used mask which is dependent on the number  
of SPOOL volumes; 4 bytes for every 32 spool volumes)  
\$JQELEN in the \$HCT data area is the total length.

**Created by:** Storage is obtained by HASPIRDA for the JES2 private  
version and by HASPCKVR for the data space versions.  
The control block is filled in by the \$QADD service.

**Pointed to by:**

The following fields contain offsets (R4 level of the checkpoint) or indexes (z/OS 1.2 and later levels of the checkpoint) to \$JQEs from the address in field \$JOBQPTR in the \$HCT data area. The offsets are converted to addresses by adding the value in \$JOBQPTR to the offset. The indexes are converted to addresses by multiplying by \$JQELEN and then adding the value in \$JOBQPTR to the calculated offset.

- CATQHDI field of the \$CAT data area
- \$JQFREEI field of the \$HCT data area
- \$JQHEADI field of the \$HCT data area
- \$JQRBLDI field of the \$HCT data area
- JOEJQEI field of the \$JOE data area
- JQENEXTI field of the \$JQE data area

-----  
 The following fields contain offsets to \$JQEs:

- \$NEWSJQE field of the \$HCT data area
- \$SCQJQE field of the \$HCT data area
- IOTJQOFF field of the \$IOT data area
- JCTJQE field of the \$JCT data area
- PITJQOFF field of the \$PIT data area
- PSOJQEP field of the \$PSO data area
- QSEPRGJQ field of the \$QSE data area
- RATRMJQE field of the \$RAT data area
- SJBJQOFF field of the \$SJB data area
- TGBJQE field of the \$TGB data area

-----  
 The following fields contain addresses of \$JQEs:

- \$JOBQPTR field of the \$HCT data area
- PCEJQE field of the \$PCE data area

-----  
 Various fields in the processor work areas and parameter lists contain offsets or addresses of JQEs.

**Serialization:**

The JES2 Checkpoint data set lock (\$QSUSE), the job lock (in the JQE), and JQE1BUSY bits are used for serialization.

JQEs are managed by the \$DOGJQE service. This provides encapsulation services that can be used to isolate code from future changes. In addition, a lock (the BERT lock) is used to serialize updates to a JQE. With the exception of a few bits, you must obtain an update mode JQA before making any updates to a JQE.

**Function:**

The job queue element is a control block that represents an element of work for the system (a job) and is moved from queue to queue as that work moves through each successive stage of JES2 processing.

The heads of the JES2 queues reside at \$JQHEADI in the HCT. These queue heads are used when locating JQEs on a specific queue.

The JQEs are checkpointed control blocks. There are, therefore, at least two copies of each JQE in storage (the actual and I/O copies of the ckpt, in subpool 0). There may also 1 or more copies in the ckpt versions dataspace.

## \$JQE Map

### \$JQE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JQE	HASP JOB QUEUE ENTRY DSECT
0	(0)	X'0'	0	JQA	"JQE,0,C'J" JQE is sometimes a JQA
0	(0)	X'8'	0	JQEVRSN	"8" JQE control block version
0	(0)	X'0'	0	JQEBB1	*** Begin of move block 1
0	(0)	SIGNED	1	JQEPRIO	JOB PRIORITY
1	(1)	BITSTRING	1	JQETYPE	LOGICAL QUEUE TYPE
Comment					
<p>IF THE \$XEQ BIT IS ON THEN THE JOB CAN BE IN OR AWAITING CONVERSION OR EXECUTION. THE JOB IS IN OR AWAITING CONVERSION IF THE \$XEQ BIT IS ON AND THERE IS NO JOB CLASS DEFINED IN THE LOW ORDER SIX BITS. THE JOB IS AWAITING XEQ IF THERE IS A JOB CLASS DEFINED AND THE JOB IS NOT BUSY. IF THE JOB IS BUSY AND A CLASS IS DEFINED THEN THE JOB IS BUSY IN EXECUTION.</p> <p>If a new JQETYPE flag is added, then the \$QJQE macro and \$QINDEX must be updated for the queue type</p>					
End of Comment					
		.111 1111		\$XEQCLAS	"X'7F'" CLASS OF JOB QUEUED FOR EXECUTION
		1... ....		\$SPIN	"X'80'" SPIN QUEUE
		.1.. ....		\$XEQ	"X'40'" OS EXECUTION QUEUE, LOW ORDER SIX BITS
		..1. ....		\$INPUT	"X'20'" INPUT QUEUE
		...1 ....		\$XMIT	"X'10'" TRANSMISSION QUEUE
		.... 1..		\$SETUP	"X'08'" SETUP QUEUE
		.... .1..		\$RECEIVE	"X'04'" SYSOUT RECEIVER QUEUE
		.... .1..		\$OUTPUT	"X'02'" OUTPUT QUEUE
		.... ...1		\$HARDCPY	"X'01'" OUTPUT IN-PROGRESS QUEUE
		.... ....		\$PURGE	"X'00'" PURGE QUEUE
		1111 1111		\$FREE	"X'FF'" FREE QUEUE
1	(1)	X'41'	0	\$XEQJOB1	"C'A'-(FF-\$XEQCLAS)" OFFSET TO FIRST \$QINDEX ENTRY FOR JOB XEQ CLASS QUEUES (JQETYPE)
		.1.1 ....		\$XEQSTC	"X'D0'-(FF-\$XEQCLAS)" OFFSET TO THE \$QINDEX ENTRY FOR STC XEQ CLASS QUEUE (JQETYPE) (REFERENCE CATSTCCL, CATSTCID)
		.11. ....		\$XEQTSU	"X'E0'-(FF-\$XEQCLAS)" OFFSET TO THE \$QINDEX ENTRY FOR TSU XEQ CLASS QUEUE (JQETYPE) (REFERENCE CATTSUCL, CATTSUID)
1	(1)	X'79'	0	\$XEQJOBL	"C'9'-(FF-\$XEQCLAS)" Offset to Last \$QINDEX entry for job XEQ class queues (JQETYPE)
2	(2)	SIGNED	2		Reserved (was JQEJOBNO_R4)
4	(4)	BITSTRING	1	JQEFLAG1	JOB QUEUE FLAGS
		1... ....		JQE1HLDA	"B'10000000" HOLD ALL JOBS
		.1.. ....		JQE1HLD1	"B'01000000" HOLD SINGLE JOB
		..1. ....		JQE1HLDT	"B'00100000" Transcient flag indicating a job whose JQXDUP field is non-zero (not in CKPT)
		...1 ....		JQE1PURG	"B'00010000" JOB IS TO BE PURGED
		.... 1..		JQE1OCAN	"B'00001000" OPERATOR ISSUED \$C OR \$P JOB
		.... .1..		JQE1ARMR	"B'00000100" The Automatic Restart Manager has registered the job. Hold it (JQE1ARMH) when it ends execution.
		.... ..1.		JQE1ARMH	"B'00000010" The job is held awaiting a restart decision by the Automatic Restart Manager
		.... ...1		JQE1ARME	"B'00000001" \$E the job if ARM does not restart it
4	(4)	X'4'	0	JQE1ARME	**-1" End of first move block
4	(4)	X'0'	0	JQESB1	"JQEBB1,JQE1ARME-JQE1ARME+1,C'X'" Size of 1st block
5	(5)	ADDRESS	3	JQENEXTI	Next JQE index
5	(5)	X'8'	0	JQEBB2	*** Begin of 2nd move block
8	(8)	BITSTRING	1	JQEFLAG2	MORE JOB QUEUE FLAGS
		1... ....		JQE2IND	"B'10000000" JOB HAS INDEPENDENT MODE AFFINITY
		.1.. ....		JQE2REST	"B'01000000" JOB has been restarted

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		..1. ....		JQE2STAR	"B'00100000" JOB to be started by \$\$ J
		...1 ....		JQE2PEOM	"B'00010000" JOB pending EOM subtask
		.... ..1.		JQE2ZAP	"B'00000010" JQE zapped (ZAPJOB)
		.... ...1		JQE2ART	"B'00000001" This is artificial JQE
8	(8)	X'8'	0	JQEEB2	"*-1" End of 2nd move block
8	(8)	X'8'	0	JQESB2	"JQE2B2,JQE2B2-JQE2B2+1,C'X" Size of 2nd block
9	(9)	ADDRESS	3	JQEJOEI	First WORK-JOE for this JQE (index)
9	(9)	X'C'	0	JQE2B3	*** Begin of 3rd move block
12	(C)	BITSTRING	1	JQEFLAG3	SOME MORE JOB QUEUE FLAGS
		.... ..11		JQE3JOB	"B'00000011" BATCH JOB TYPE (WHEN BITS ZERO)
		.... ...1		JQE3STC	"B'00000001" STC JOB TYPE
		.... ..1.		JQE3TSU	"B'00000010" TSU JOB TYPE
		.... ..1..		JQE3XMIT	"B'00000100" JOB DESTINED FOR ANOTHER NODE XMIT OR INTERMEDIATE NODE JOB
		.... 1...		JQE3TMOD	"B'00001000" JOB IS BEING PROCESSED BY \$TO OR \$R
		1... ....		JQE3MVRQ	"B'10000000" MOVE JOB FOR SPOOL COMMANDS
		..1. ....		JQE3UNSP	"B'01000000" JOB HAS UNSPUN SPIN IOTS
		..1. ....		JQE3NDMP	"B'00100000" NON SELECTABLE BY DUMPER
		...1 ....		JQE3SYSD	"B'00010000" JQE REPRESENTS SYSTEM DATA SET, IMPLIES JQETRAK POINTS TO IOT
13	(D)	CHARACTER	1	JQEJCLAS	JOB CLASS
14	(E)	SIGNED	2		Reserved (was JQEINJNO_R4)
16	(10)	BITSTRING	4	JQEBKEY	JOB IDENTIFER KEY
20	(14)	BITSTRING	4	JQETRAK	TRACK ADDRESS OF JCT OR IOT TRACK ADDRESS IF JQE3SYSD
24	(18)	SIGNED	2	JQEINPND	INPUT NODE (BINARY)
26	(1A)	SIGNED	2	JQEXEQND	EXECUTION NODE (BINARY)
28	(1C)	SIGNED	4	(0)	FORCE ALIGNMENT
28	(1C)	BITSTRING	1	JQEFLAG4	More job queue flags
		1... ....		JQE4CAN	"B'10000000" FORCE SELECT WHEN VOL INACTIVE
		..1. ....		JQE4NEWS	"B'01000000" JOB IS JES2NEWS.
		..1. ....		JQE4SPHA	"B'00100000" SPOF HOLD ALL JOBS REQUIRED AFTER AUTH CHECK IN CNVT PROCESSOR
		...1 ....		JQE4SPOF	"B'00010000" JQE HELD BY SYSOUT RECEIVER OR JOB RECEIVER
		.... 1...		JQE4MOLD	"B'00001000" OLD (ORIGINAL) JOB FOR SPL MOVE
		.... ..1..		JQE4MNEW	"B'00000100" NEWLY CREATED JOB FROM SPL MOVE
		.... ...1.		JQE4TWOJ	"B'00000010" TWO JOBCARDS FOR JOB XMIT
		.... ...1		JQE4JCLH	"B'00000001" TYPRUN=JCLHOLD, HOLD REQUIRED AFTER AUTH CHK IN CNVT PROCESSOR
29	(1D)	ADDRESS	3	JQEDEVID	Device Identify (DCTDEVID)
32	(20)	BITSTRING	1	JQEARMMI	Member ID on which a job is registered by ARM
33	(21)	BITSTRING	1	JQERESVD	Formerly JQEWSLCK
34	(22)	BITSTRING	1	JQEBUSY	JQE busy system id
35	(23)	BITSTRING	1	JQEJLOK	Job lock busy system id
36	(24)	CHARACTER	8	JQEJNAME	JOB NAME FROM JOB CARD
44	(2C)	CHARACTER	8	JQEUSRID	USERID OF JOB OWNER
52	(34)	CHARACTER	8	JQESECLB	SECURITY LABEL OF JOB

Comment

JQEJOEID is the current JOE identifier used when building JOEs for this job unless this is JESNEWS. For an active JESNEWS job this is the count of active users of this instance of JESNEWS

End of Comment

60	(3C)	SIGNED	4	JQENWUSE (0)	News use count
60	(3C)	SIGNED	4	JQEJOEID	Current JOE id number (unless this is JESNEWS)
64	(40)	BITSTRING	1	JQEFLAG5	FLAG BYTE
		1... ....		JQE5XUSD	"B'10000000" USING EXTENSION FOR TG COUNT
		..1. ....		JQE5NSL	"B'01000000" JOB REJECTED BY SELECTIVE LOAD

# \$JQE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.1. ....		JQE5NUNK	"B'00100000" Job tkn is NJE unknwn user
		...1 ....		JQE5NOTF	"B'00010000" NOTIFY PROCESSING COMPLETE
		.... 1...		JQE5EOM	"B'00001000" Job terminated at end of memory
		.... .1..		JQE5RUNS	"B'00000100" Job has new unspun work
		.... .1.		JQE5PUPS	"B'00000010" Job may have unprocessed spin output (Flag only valid before unspun processing starts)
65	(41)	.... ...1	1	JQE5INPL	"B'00000001" Job went through input processing on local node
				JQEOFFSL	OFFLOAD SELECT BYTE
Comment					
<p>The total number of trackgroups allocated to a given JQE is in two pieces. One piece is in the JQX (JQXTGWRP) and the other piece is in the JQE (if JQE5XUSD is off) or in the JQT (if JQE5XUSD is on.) The one byte value in the JQX is the number of multiples of X'8000' trackgroups that the JQE owns. The value in the second piece is the number of trackgroups owned above the multiple of X'8000'. If JQE5XUSD is on, then JQETGNBR is the index of the JQT entry which holds the two byte value.</p>					
End of Comment					
66	(42)	SIGNED	2	JQETGNBR	See above
68	(44)	BITSTRING	1	JQEFLAG6	FLAG BYTE
Comment					
EQU B'10000000' Obsolete (JQE6DUPC in					
End of Comment					
		.1. ....		JQE6PRG	"B'01000000" Purge auditing required
		.1. ....		JQE6TGAE	"B'00100000" TG counter has overflowed
Comment					
B'00010000' This bit used in 5.1 (cannot use in 5.2)					
End of Comment					
		.... 1...		JQE6HOPR	"B'00001000" Reset NJE hop count when retransmitting job
		.... .1..		JQE6PRT	"B'00000100" Priority change by \$T
		.... .1.		JQE6PRAG	"B'00000010" Priority change by aging
		.... ...1		JQE6NCSA	"B'00000001" Job has no more CSA IOTs (only valid after job has completed execution)
69	(45)	BITSTRING	1	JQEFLAG7	FLAG BYTE
		1... ....		JQE7PROT	"B'10000000" Job's output is protected
		.1. ....		JQE7TP	"B'01000000" Transaction initiator
		.1. ....		JQE7INIT	"B'00100000" Batch initiator
		...1 ....		JQE7IOTE	"B'00010000" IOT error
		.... 1...		JQE7SPIN	"B'00001000" Spin IOTs outstanding
		.... .1..		JQE7SPOT	"B'00000100" Spin output produced
		.... .1.		JQE7RJI	"B'00000010" Request job id indicator
		.... ...1		JQE7SYSL	"B'00000001" SYSLOG indicator
70	(46)	BITSTRING	1	JQEFLAG8	FLAG BYTE
		1... ....		JQE8HLDS	"B'10000000" JOB HAS HELD 3540 DATA SET
		.1. ....		JQE8DUPL	"B'01000000" Job has been held at least once for duplicate job name
		.1. ....		JQE8CNWT	"B'00100000" Job must convert on a PCE that can wait for OS CNVT
		...1 ....		JQE8BOUT	"B'00010000" Use abnormal outdisp
		.... 1...		JQE8OPCD	"B'00001000" Job cancelled by oper with dump
		.... .1..		JQE8NJIX	"B'00000100" Job is not in JIX
		.... .1.		JQE8RBLD	"B'00000010" Job is on Rebuild Queue

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... ...1		JQE8NOQ	"B'00000001" Job is not on a queue

Comment

The use of JQEFLAG9 should be reserved for use by the job command processor only.

End of Comment

71	(47)	BITSTRING	1	JQEFLAG9	FLAG BYTE - JCMD processor
		1... ....		JQE9\$E	"B'10000000" Mark JQE for Restart
		.1... ....		JQE9\$C	"B'01000000" Cancel the JQE
		.11. ....		JQE9\$CD	"B'01100000" Cancel JQE with dump
		.1.1 ....		JQE9\$CAR	"B'01010000" Cancel JQE with ARM restart
		.... 1...		JQE9\$SPN	"B'00001000" Spin JESLOG files
		.... .1..		JQE9\$TSC	"B'00000100" Reset the service class
		.... ..1.		JQE9\$FRC	"B'00000010" Cancel JQE with FORCE
		.... ...1		JQE9\$EVC	"B'00000001" Evict this job
		..1. ...1		JQE9\$EVH	"B'00100001" Evict job with HOLD
72	(48)	SIGNED	4	JQEBNUM	HASP job number

Comment

The following default route fields should only be used for command/console authorization purposes. They initially match the JCT fields when a job is created, but are not complete in that only one of the userid valids is in the JQE. They are not used in any dataset destination resolution (the JCT fields are used), and apply (for compatibility) only to console operator job ownership.

End of Comment

76	(4C)	SIGNED	4	JQEDRPRT	Default print routing, initially same as JCTPROUT
80	(50)	CHARACTER	8	JQEDRPUR	Default print routing user for SDSF compatibility
88	(58)	SIGNED	4	JQEDRPUN	Default punch routing, initially same as JCTPUOUT
88	(58)	X'0'	0	JQEDRNO	"0,2,C'H" Offset of node in route
88	(58)	X'2'	0	JQEDRRO	"2,2,C'H" Offset of rmt in route
92	(5C)	BITSTRING	4	JQESAF	Full system affinity mask
96	(60)	SIGNED	4	(0)	INSURE FULL-WORD BOUNDARY
96	(60)	X'60'	0	JQEEB3	*** End of 3rd move block
96	(60)	X'C'	0	JQESB3	"JQE3B3,JQE3B3-JQE3B3,C'X" Size of 3rd block
96	(60)	X'60'	0	JQEBEND	*** End of base JQE
96	(60)	X'60'	0	JQEBLEN	** -JQE" LENGTH OF BASE JOB QUEUE ENTRY
96	(60)	SIGNED	4	JQESUMSK (0)	START OF SPOOLS-USED MASK, VARIABLE LEN (NUMBER OF BITS=SPOOLNUM), LEN IS MULTIPLE OF FOUR BYTES
96	(60)	BITSTRING	1	JQASUMSK	Max spools used mask

Comment

The following fields appear only within an artificial JQE. Artificial JQEs are constructed using the \$DOGJQE service.

End of Comment

128	(80)	SIGNED	4	JQX (0)	Beginning of JQX
128	(80)	X'8'	0	JQXVRZ2	"8" JQX control block version for z/OS version 1.2 checkpoint mode.
128	(80)	X'9'	0	JQXVRZ11	"9" JQX control block version for z/OS version 1.11 checkpoint mode.
128	(80)	X'80'	0	JQXBB1	*** Begin of 1st move block
128	(80)	SIGNED	4	JQXRECCT	Pre-execution record count

# \$JQE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
----- Comment					
<p>JQX maximum completion code information, by design, matches the mapping in the network job trailer. Consult NJE Formats and Protocols before adding a new type.</p>					
----- End of Comment					
132	(84)	BITSTRING	4	JQXMAXRC (0)	--+ Maximum Job Return Code
132	(84)	BITSTRING	1	JQXMIND	Job completion indicator
		1... ..		JQXMXAB	"X'80"   Abend code exists
		.1.. ..		JQXMXCDE	"X'40"   Condition code exists
		..1. ....		JQXMXJRC	"X'20"   Code from JOBRC request
132	(84)	X'E0'	0	JQXMXCDS	"JQXMXAB+JQXMXCDE+JQXMXJRC" List of all codes
132	(84)	X'0'	0	JQXMXUNK	"0"   No completion info
132	(84)	X'1'	0	JQXMXNRM	"1"   Job ended normally +
132	(84)	X'2'	0	JQXMXCC	"2"   Job ended by CC +
132	(84)	X'3'	0	JQXMXJCL	"3"   Job had a JCL error
132	(84)	X'4'	0	JQXMXCAN	"4"   Job was canceled
132	(84)	X'5'	0	JQXMXABN	"5"   Job ABENDEd +
132	(84)	X'6'	0	JQXMXCAB	"6"   Converter ABENDEd
132	(84)	X'7'	0	JQXMXSEC	"7"   Security error
132	(84)	X'8'	0	JQXMXEOM	"8"   Job failed in EOM +
132	(84)	X'9'	0	JQXMXCNV	"9"   Converter error
132	(84)	X'A'	0	JQXMXSYS	"10"   System failure
133	(85)	BITSTRING	3	JQXMAXCC	--+ Completion code (set for '+' conditions)
136	(88)	BITSTRING	4	JQXBERTT	Token representing the BERTS for this JQE
140	(8C)	BITSTRING	4	JQXCRTME	JQE creation time
140	(8C)	X'90'	0	JQXEB1	*** End of 1st move block
140	(8C)	X'80'	0	JQXSB1	"JQXBB1,JQXEB1-JQXBB1,C'X'" Size of 1st block
144	(90)	SIGNED	4	JQXWSNXT	Index of next JQE on WSC Q
148	(94)	SIGNED	4	JQXWSPRV	Index of prev JQE on WSC Q
148	(94)	X'98'	0	JQXBB2	*** Begin of 2nd move block
152	(98)	CHARACTER	8	JQXJCLAS	Job class
----- Comment					
<p>The JQX1WLM flag has special case code in \$DOGJQE. This flag should be modified using the real JQX. The other flags in JQXFLAG1 should be modified using the JQA.</p>					
----- End of Comment					
160	(A0)	BITSTRING	1	JQXFLAG1	Flags
		1... ..		JQX1TSRV	"B'10000000" SRVCLASS has been \$T'ed to a non-null value
		.1.. ..		JQX1WLM	"B'01000000" Job on WLM queue
		..1. ....		JQX1CTKN	"B'00100000" Job has data set(s) for which DYNALLOC returned a client token
		...1 ....		JQX1DFQ	"B'00010000" Job pending WLM requeue
		.... 1...		JQX1LSPN	"B'00001000" Job went thru unspun in its lifetime
		.... .1..		JQX1XWTR	"B'00000100" At least one JOE purged due to external device
		.... ..1.		JQX1BSPL	"B'00000010" CBIMPL4 dump processing has occurred
		.... ...1		JQX1AWFL	"B'00000001" Job ended badly (EOM or busy @ system crash)
161	(A1)	SIGNED	1	JQXTGWPR	Number of times JQETGNBR wrapped over 7FFF
162	(A2)	BITSTRING	1	JQXFLAG2	More flags
		1... ..		JQX2JOQE	"B'10000000" Anomalously queued JOE
163	(A3)	BITSTRING	1		Reserved
164	(A4)	SIGNED	4	JQXNWSID (0)	JESNEWS id
164	(A4)	SIGNED	4	JQXIJNUM	Initial job number
164	(A4)	X'A8'	0	JQXEB2	*** End of 2nd move block



Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
164	(A4)	X'98'	0	JQXSB2	"JQXBB2,JQXEB2-JQXBB2,C'X'" Size of 2nd block
Comment					
<p>-----</p> <p>JQXDUP is managed without JQAs. This field will be modified only by the DUPJOB service routine and by queue rebuild.</p> <p>-----</p>					
End of Comment					
168	(A8)	SIGNED	4	JQXDUP	Index of next duplicate job zero ==> not duplicate -1 ==> last JQE in dup chn
168	(A8)	X'AC'	0	JQXBB3	*** Begin of 3rd move block
172	(AC)	BITSTRING	4	JQXCAFF	Composite member affinity
176	(B0)	BITSTRING	4	JQXIT141	Reserved for Exit 14
180	(B4)	BITSTRING	4	JQXIT142	Reserved for Exit 14
180	(B4)	X'B8'	0	JQXEB3	*** End of 3rd move block
180	(B4)	X'AC'	0	JQXSB3	"JQXBB3,JQXEB3-JQXBB3,C'X'" Size of 3rd block
Comment					
<p>-----</p> <p>JQXJNUMQ is used to make JIX processing faster. By having this value in the real JQX, the real JQE does not need to be obtained to do job number comparisons in \$QLOC.            Note: JQXJNUMQ is not included in the JQA since it is only useful for chaining (along with field JQXNJIXI).</p> <p>-----</p>					
End of Comment					
184	(B8)	BITSTRING	1	JQXJNUMQ	The quotient of the JQE job number divided by 64K
185	(B9)	ADDRESS	3	JQXNJIXI	Index of next JQE/JQX on the JIX chain (z/OS 1.2 and later levels of the checkpoint)
188	(BC)	SIGNED	4	JQXBSSEND (0)	End of base section
Comment					
<p>-----</p> <p>The INTERNAL format of the JQX is different depending on the mode of the JES2 checkpoint:            - If the JES2 checkpoint is in z/OS 1.2 mode, each checkpointed JQX entry DOES NOT include the expanded area.            - If the JES2 checkpoint is in z/OS 1.11 mode, each checkpointed JQX entry DOES include the expanded area.            The EXTERNAL JQA will always include the expanded area. However, it is only meaningful in z/OS 1.11 mode.            NOTE: JQXJQEBI is not included in the JQA since it is only useful for chaining.</p> <p>-----</p>					
End of Comment					
188	(BC)	X'3C'	0	JQXLEN_Z2	**-"JQX" Length of checkpointed z/OS 1.2 mode JQX.
188	(BC)	BITSTRING	1		Reserved for future use.
189	(BD)	ADDRESS	3	JQXJQEBI	JQE back chain index (only valid in z/OS 1.11 mode)
189	(BD)	X'CO'	0	JQXBB4	*** Begin of 4th move block
192	(C0)	SIGNED	4	JQXRDRON	Time on input processor
196	(C4)	SIGNED	4	JQXRDTON	Date on input processor
196	(C4)	X'C8'	0	JQXEB4	*** End of 4th move block

## \$JQE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
196	(C4)	X'C0'	0	JQXSB4	"JQXBB4,JQXEBA-JQXBB4,C'X'" Size of 4th block
200	(C8)	SIGNED	4	(5)	Reserved for future use
200	(C8)	X'DC'	0	JQXEXEND	*** End of z/OS 1.11 mode JQX and JQX section of the external JQA.
200	(C8)	X'5C'	0	JQXSIZE	** -JQX" Size of JQX
200	(C8)	X'5C'	0	JQXZ11LN	** -JQX" Length of checkpointed z/OS 1.11 mode JQX and JQX section of the external JQA.

Comment

The following fields are pseudo fields. They are artificially constructed from other fields in the JQE/JQX/BERT-backed fields. There are no \$BERTTABS defining these fields, so DOGBERT does not know of their existence. The field names begin with JQP for Job Queue Pseudo

JQPTGNBR field is constructed from the two fields JQETGNBR and JQXTGWRP. This pseudo field should be used as an input field only. Any updates made to it will not be reflected back into the JQE/JQX or the JQT.

End of Comment

220	(DC)	SIGNED	4	JQPTGNBR	Track groups
224	(E0)	BITSTRING	1	JQPFLAG1	Parameter flag byte
		1... ....		JQP1REQ	"B'10000000" Job is being re-queued
		.1.. ....		JQP1EVIC	"B'01000000" EJOB,STEP requeued job
225	(E1)	BITSTRING	3		Reserved

Comment

End of Pseudo fields

End of Comment

228	(E4)	SIGNED	4	JQABERT (0)	Begin BERT resident data
228	(E4)	BITSTRING	148	JQAACCT	Job accounting information
376	(178)	SIGNED	4	JQAXEQ (0)	Start of XEQ section of JQE
376	(178)	CHARACTER	3	JQAPERF	Performance group
379	(17B)	BITSTRING	1	JQAFLAG1	Flags
		1... ....		JQA1EHLD	"B'10000000" Job was held by the end user via TYPRUN=HOLD or SETUP
		.1.. ....		JQA1JCLH	"B'01000000" Job held for JCLHOLD
		..1. ....		JQA1THLD	"B'00100000" Hold start time in JQATIMER
		...1 ....		JQA1TSCH	"B'00010000" SCHENV start time in JQATIMER
		.... 1..		JQA1DUPJ	"B'00001000" Possible duplicate jobname exists
		.... ..1.		JQA1TBAD	"B'00000010" Hold/SCHENV timers should not be maintained
		.... ...1		JQA1SPIN	"B'00000001" JESLOG is spinable
380	(17C)	BITSTRING	4	JQASTOK	Service class token
384	(180)	CHARACTER	8	JQAWSCN	Service Class Queue Name
392	(188)	SIGNED	4	JQARRIV	Time job arrived in XEQ Q
396	(18C)	SIGNED	4	JQAQTIME	Time job entered current execution queue
400	(190)	BITSTRING	2	JQASID	ASID where executing
402	(192)	BITSTRING	4	JQASCHAF	Affinity mask of systems where scheduling environ is available
406	(196)	BITSTRING	1	JQASTARM	Member on which \$\$ J is to occur.
408	(198)	SIGNED	4	JQARHLD	Duration when job held
412	(19C)	SIGNED	4	JQARRSC	Duration when SCHENV not available
416	(1A0)	SIGNED	4	JQARTOC	Conversion time
420	(1A4)	SIGNED	4	JQATIMER	STCK value when hold or SCHENV timer last started
424	(1A8)	SIGNED	4	JQAUTIME	STCK value when JQARHLD last updated
428	(1AC)	BITSTRING	1	JQAFLAG2	Flags
		1... ....		JQA2SCHE	"B'10000000" SCHENV is a default
		.1.. ....		JQA2SINV	"B'01000000" SCHENV (JQASCHE) no longer valid

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		..1. ....		JQA2TSCH	"B'00100000" SCHENV has been \$Ted to a non-null value
		...1 ....		JQA2DUPJ	"B'00010000" JQADUPTM has been primed
		.... 1...		JQA21212	"B'00001000" JQA2WIN setting is valid (remove when z9 is no longer supported)
		.... .1..		JQA2WIN	"B'00000100" WINIT selected job
429	(1AD)	BITSTRING	3		Reserved for future use
429	(1AD)	X'38'	0	JQAXEQL	**"JQAXEQ" Length of XEQ section
432	(1B0)	SIGNED	4	JQAXBAT (0)	Start of batch execution section
432	(1B0)	SIGNED	4	JQAXSRMT	SRM Token from classify
432	(1B0)	X'4'	0	JQAXBATL	**"JQAXBAT" Length of section
436	(1B4)	CHARACTER	16	JQASCHE	Scheduling environment
452	(1C4)	BITSTRING	4	JQASCLAF	Affinity mask of systems where SECLABEL is active
456	(1C8)	BITSTRING	4	JQAUNSPN	MTRR of UNSPUN IOT (0 if multiple or unknown)
460	(1CC)	SIGNED	4	JQADUPTM	Accumulated TOD units when job held for duplicate jobname

Comment

-----  
 This section is only defined for MVS SYSLOG jobs  
 -----

End of Comment

464	(1D0)	CHARACTER	8	JQASYSLN	MVS system name for SYSLOG job
472	(1D8)	SIGNED	4	JQASYSLC	Index of next SYSLOG JQE
472	(1D8)	X'1D0'	0	JQASYSLG	"JQASYSLN,*-JQASYSLN" Section definition field
472	(1D8)	X'F8'	0	JQABERTL	**"JQABERT" Length of BERT data defined in this DSECT
472	(1D8)	X'1DC'	0	JQABLEN	**"JQE" Length of JQE + extensions defined in this DSECT

### \$JQE Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$FREE	1	FF	JQASID	190	
\$HARDCPY	1	1	JQASTARM	196	
\$INPUT	1	20	JQASTOK	17C	
\$OUTPUT	1	2	JQASUMSK	60	
\$PURGE	1	0	JQASYSLC	1D8	
\$RECEIVE	1	4	JQASYSLG	1D8	1D0
\$SETUP	1	8	JQASYSLN	1D0	
\$SPIN	1	80	JQATIMER	1A4	
\$XEQ	1	40	JQAUNSPN	1C8	
\$XEQCLAS	1	7F	JQAUTIME	1A8	
\$XEQJOBL	1	79	JQAWSCN	180	
\$XEQJOB1	1	41	JQAXBAT	1B0	
\$XEQSTC	1	50	JQAXBATL	1B0	4
\$XEQTSU	1	60	JQAXEQ	178	
\$XMIT	1	10	JQAXEQL	1AD	38
JQA	0	0	JQAXSRMT	1B0	
JQAACCT	E4		JQA1DUPJ	17B	8
JQABERT	E4		JQA1EHLA	17B	80
JQABERTL	1D8	F8	JQA1JCLH	17B	40
JQABLEN	1D8	1DC	JQA1SPIN	17B	1
JQADUPTM	1CC		JQA1TBAD	17B	2
JQAFLAG1	17B		JQA1THLD	17B	20
JQAFLAG2	1AC		JQA1TSCH	17B	10
JQAPERF	178		JQA2DUPJ	1AC	10
JQAQTIME	18C		JQA2SCHE	1AC	80
JQARHLD	198		JQA2SINV	1AC	40
JQARRIV	188		JQA2TSCH	1AC	20
JQARRSC	19C		JQA2WIN	1AC	4
JQARTOC	1A0		JQA21212	1AC	8
JQASCHAF	192		JQE	0	
JQASCHE	1B4		JQEARMMI	20	
JQASCLAF	1C4		JQEBB1	0	0

## \$JQE Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
JQE2BB2	5	8	JQE3STC	C	1
JQE2BB3	9	C	JQE3SYSD	C	10
JQE2BEND	60	60	JQE3TMOD	C	8
JQE2BLN	60	60	JQE3TSU	C	2
JQE2BUSY	22		JQE3UNSP	C	40
JQE2DEVID	1D		JQE3XMIT	C	4
JQE2DRNO	58	0	JQE4CAN	1C	80
JQE2DRPRT	4C		JQE4JCLH	1C	1
JQE2DRPRU	50		JQE4MNEW	1C	4
JQE2DRPUN	58		JQE4MOLD	1C	8
JQE2DRRO	58	2	JQE4NEWS	1C	40
JQE2EB1	4	4	JQE4SPHA	1C	20
JQE2EB2	8	8	JQE4SPOF	1C	10
JQE2EB3	60	60	JQE4TWOJ	1C	2
JQE2FLAG1	4		JQE5EOM	40	8
JQE2FLAG2	8		JQE5INPL	40	1
JQE2FLAG3	C		JQE5NOTF	40	10
JQE2FLAG4	1C		JQE5NSL	40	40
JQE2FLAG5	40		JQE5NUNK	40	20
JQE2FLAG6	44		JQE5PUPS	40	2
JQE2FLAG7	45		JQE5RUNS	40	4
JQE2FLAG8	46		JQE5XUSD	40	80
JQE2FLAG9	47		JQE6HOPR	0	8
JQE2INPND	18		JQE6NCSA	0	1
JQE2JBKEY	10		JQE6PRAG	0	2
JQE2JBNUM	48		JQE6PRG	0	40
JQE2JCLAS	D		JQE6PRT	0	4
JQE2JLOK	23		JQE6TGAE	0	20
JQE2JNAME	24		JQE7INIT	45	20
JQE2JOEI	9		JQE7IOTE	45	10
JQE2JOEID	3C		JQE7PROT	45	80
JQE2NEXTI	5		JQE7RJI	45	2
JQE2NWUSE	3C		JQE7SPIN	45	8
JQE2OFFSL	41		JQE7SPOT	45	4
JQE2PRIO	0		JQE7SYSL	45	1
JQE2RESVD	21		JQE7TP	45	40
JQE2SAF	5C		JQE8BOUT	46	10
JQE2SB1	4	0	JQE8CNWT	46	20
JQE2SB2	8	8	JQE8DUPL	46	40
JQE2SB3	60	C	JQE8HLDS	46	80
JQE2SECLB	34		JQE8NJIX	46	4
JQE2SUMSK	60		JQE8NOQ	46	1
JQE2TGNBR	42		JQE8OPCD	46	8
JQE2TRAK	14		JQE8RBLD	46	2
JQE2TYPE	1		JQE9\$C	47	40
JQE2USRID	2C		JQE9\$CAR	47	50
JQE2VRSN	0	8	JQE9\$CD	47	60
JQE2XEQND	1A		JQE9\$E	47	80
JQE21ARME	4	1	JQE9\$EVC	47	1
JQE21ARMH	4	2	JQE9\$EVH	47	21
JQE21ARMR	4	4	JQE9\$FRC	47	2
JQE21HLDA	4	80	JQE9\$SPN	47	8
JQE21HLDT	4	20	JQE9\$TSC	47	4
JQE21HLD1	4	40	JQPFLAG1	E0	
JQE21OCAN	4	8	JQPTGNBR	DC	
JQE21PURG	4	10	JQP1EVIC	E0	40
JQE22ART	8	1	JQP1REQ	E0	80
JQE22IND	8	80	JQX	80	
JQE22PEOM	8	10	JQXBB1	80	80
JQE22REST	8	40	JQXBB2	94	98
JQE22STAR	8	20	JQXBB3	A8	AC
JQE22ZAP	8	2	JQXBB4	BD	C0
JQE23JOB	C	3	JQXBERTT	88	
JQE23MVRQ	C	80	JQXSEND	BC	
JQE23NDMP	C	20	JQXCAFF	AC	

Name	Hex Offset	Hex Value
JQXCRTME	8C	
JQXDUP	A8	
JQXEB1	8C	90
JQXEB2	A4	A8
JQXEB3	B4	B8
JQXEB4	C4	C8
JQXEXEND	C8	DC
JQXFLAG1	A0	
JQXFLAG2	A2	
JQXIJNUM	A4	
JQXIT141	B0	
JQXIT142	B4	
JQXJCLAS	98	
JQXJNUMQ	B8	
JQXJQEBI	BD	
JQXLEN_Z2	BC	3C
JQXMAXCC	85	
JQXMAXRC	84	
JQXMXAB	84	80
JQXMXABN	84	5
JQXMXCAB	84	6
JQXMXCAN	84	4
JQXMXCC	84	2
JQXMXCDE	84	40
JQXMXCDS	84	E0
JQXMXCNV	84	9
JQXMXEOM	84	8
JQXMXIND	84	
JQXMXJCL	84	3
JQXMXJRC	84	20
JQXMXNRM	84	1
JQXMXSEC	84	7
JQXMXSYS	84	A
JQXMXUNK	84	0
JQXNJIXI	B9	
JQXNWSID	A4	
JQXRDRON	C0	
JQXRDTON	C4	
JQXRECCT	80	
JQXSB1	8C	80
JQXSB2	A4	98
JQXSB3	B4	AC
JQXSB4	C4	C0
JQXSIZE	C8	5C
JQXTGWRP	A1	
JQXVRZ11	80	9
JQXVRZ2	80	8
JQXWSNXT	90	
JQXWSPRV	94	
JQXZ11LN	C8	5C
JQX1AWFL	A0	1
JQX1BSPL	A0	2
JQX1CTKN	A0	20
JQX1DFQ	A0	10
JQX1LSPN	A0	8
JQX1TSRV	A0	80
JQX1WLM	A0	40
JQX1XWTR	A0	4
JQX2JOQE	A2	80

## \$JQE Cross Reference

## \$JQRWORK Heading Information

**Common Name:** JES2 JQE request PCE Work Area  
**Macro ID:** \$JQRWORK  
**DSECT Name:** PCE (\$JQRWORK is part of the PCE DSECT)  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'PCE '  
 Offset: PCEEYE-PCE  
 Length: 4

**Storage Attributes:** Subpool: See \$PCE  
 Key: See \$PCE  
 Residency: See \$PCE

**Size:** See symbol JQRPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.

**Created by:** See \$PCE  
**Pointed to by:** The \$JQRPCWE field of the \$HCT data area  
 See \$PCE for other pointer fields that apply to all PCE types.

**Serialization:** Normal PCE dispatch serialization  
**Function:** The fields in this work area are used by the JES2 JQE request Processor. \$JQRWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$JQRWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEJQRID in the second byte of field PCEID.

This PCE is not device related. Field PCEDCT is zero.

## \$JQRWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
312	(138)	SIGNED	4	JQRPALET	JQRB data space ALET
316	(13C)	ADDRESS	4	JQRJQA	Address of current JQA
320	(140)	ADDRESS	4	JQRJCT	Address of current JCT
324	(144)	ADDRESS	4	JQRIOT	Address of current IOT
328	(148)	BITSTRING	1	JQRFLAG1	General flag byte
		1... ....		JQR1BRTL	"B'10000000" BERT lock held
		.1... ....		JQR1QSUS	"B'01000000" Wait for the queues
		..1. ....		JQR1CKPW	"B'00100000" Wait for CKPT write
		...1 ....		JQR1BUFR	"B'00010000" Wait for free buffers
329	(149)	BITSTRING	1	JQRQUE	New queue from JQRB
330	(14A)	BITSTRING	2	JQRRSV1	Reserved
332	(14C)	SIGNED	4	JQRRQJRA (0)	Request Job ID Request Area
332	(14C)	CHARACTER	4	JQRJQRID	ID for JQR requestor
336	(150)	SIGNED	2	JQRRQJAS	Request Job ID ASID
338	(152)	BITSTRING	2	JQRRQJRE	Req Job ID Request Area End
340	(154)	SIGNED	4	JQRASDSA	ASDS data space ALET
344	(158)	DBL WORD	8	(0)	Alignment
344	(158)	X'20'	0	JQRPCEWL	**"-PCEWORK" Length of misc PCE work area

## \$JQRWORK Cross Reference

## \$JQRWORK Cross Reference

Name	Hex Offset	Hex Value
JQRASDSA	154	
JQRFLAG1	148	
JQRIOT	144	
JQRJCT	140	
JQRJQA	13C	
JQRJQRID	14C	
JQRPALET	138	
JQRPCEWL	158	20
JQRQUE	149	
JQRRQJAS	150	
JQRRQJRA	14C	
JQRRQJRE	152	
JQRRSV1	14A	
JQR1BRTL	148	80
JQR1BUFR	148	10
JQR1CKPW	148	20
JQR1QSUS	148	40
PCE	0	



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## \$JRW Programming Interface information

Programming Interface information

\$JRW

End of Programming Interface information

## \$JRW Heading Information

**Common Name:** JES2 Job Receiver Work Area  
**Macro ID:** \$JRW  
**DSECT Name:** JRW  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** none  
**Storage Attributes:** Subpool: See \$PCE (JES2 address space) 0 (NETSRV address space)  
 Key: See \$PCE (JES2 address space) 0 (NETSRV address space)  
 Residency: See \$PCE (JES2 address space) Virtual and real storage are anywhere (above or below 16M) in private storage (NETSRV address space)  
**Size:** See JRWLEN  
**Created by:** See \$PCE (JES2 address space)  
 Subtask initialization exit (NETSRV address space)  
**Pointed to by:** NSSTJRW field of the \$NSST data area  
 RDRCWKAR label of the \$RDRWORK data area  
 X002AREA field of the \$XPL data area  
 X003AREA field of the \$XPL data area  
 X004AREA field of the \$XPL data area  
 X020AREA field of the \$XPL data area  
 X050AREA field of the \$XPL data area  
 X052AREA field of the \$XPL data area  
 X053AREA field of the \$XPL data area  
 X054AREA field of the \$XPL data area  
 Imbedded in the PCE in the JES2 address space.  
 See \$PCE for other pointer fields that apply to all PCE types.  
**Serialization:** Normal PCE dispatch serialization  
**Function:** The fields in this work area are used by a JES2 input processing PCEs, including NJE job receivers, card readers, internal readers, RJE card readers, and internal job creation. This includes support routines and exits. \$JRW maps the fields that are used by common service routines in both the JES2 address space and the NETSRV address spaces.

## \$JRW Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JRW	, JRW mapped as \$NJEWORK
0	(0)	CHARACTER	4	JRWEYE	Eyecatcher
4	(4)	CHARACTER	10	JRWDEVN	Device name
14	(E)	BITSTRING	1	JRWDEVTP	Device type
15	(F)	BITSTRING	3	JRWDEVID	Device id
18	(12)	BITSTRING	2	JRWCRSV1	Reserved
20	(14)	ADDRESS	4	JRW WAVE	WAVE address
24	(18)	ADDRESS	4	JRW SQD	SQD address
28	(1C)	ADDRESS	4	JRW PAREA	Address of PCL area for this subdevice
32	(20)	ADDRESS	4	JRW AREA	Address of TSCT area for this subdevice (NETSRV address space only)
36	(24)	ADDRESS	4	JRW NSST	Address of NSST (NETSRV address space only)
40	(28)	ADDRESS	4	JRW TBUF	Address of associated TBUF
44	(2C)	ADDRESS	4	JRW TAREA	Address of rolling trace area (NETSRV addrspc only)
48	(30)	SIGNED	4	JRW ECBCC	Contents of POSTed ECB
52	(34)	ADDRESS	4	JRW NITAD	Address of adjacent NIT
56	(38)	ADDRESS	4	JRW NITAL	ALET of adjacent NIT

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
60	(3C)	ADDRESS	4	JRWNITBL	Address of NIT table
Comment					
THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER					
End of Comment					
64	(40)	SIGNED	4	JRWXTIME	Time offload DS allocated
68	(44)	SIGNED	4	JRWXDATE	Date offload DS allocated
72	(48)	SIGNED	4	JRWCLRST (0)	Start of area to clear
72	(48)	ADDRESS	4	JRWJQA	Address of JQA
72	(48)	X'48'	0	JRWJQE	"JRWJQA" Address of JQE
76	(4C)	ADDRESS	4	JRWJCT	Address of JCT
80	(50)	ADDRESS	4	JRWIOT	Address of IOT
80	(50)	X'50'	0	JRWIOTBF	"JRWIOT" Address of IOT
84	(54)	ADDRESS	4	JRWNJH	Network job header address
88	(58)	ADDRESS	4	JRWNJT	Network job trailer address
92	(5C)	SIGNED	4	JRWRCOUN	Number of records sent/received
96	(60)	ADDRESS	4	JRWCUREC	Current record count, not including header/trailer records
100	(64)	CHARACTER	8	JRWJOBID	Job id of active job
108	(6C)	BITSTRING	1	JRWNERRC	Error code
108	(6C)	X'1'	0	JRWNEJOB	"1" JQE/JOE Mismatch
108	(6C)	X'2'	0	JRWNEJOE	"2" Invalid mix of spin/nonspin
108	(6C)	X'3'	0	JRWNESUB	"3" Subtask failure
108	(6C)	X'4'	0	JRWNEOPE	"4" OPEN failure
108	(6C)	X'5'	0	JRWNECLO	"5" CLOSE failure
108	(6C)	X'6'	0	JRWNEIOE	"6" I/O error
108	(6C)	X'7'	0	JRWNECBI	"7" CBIO failure
108	(6C)	X'8'	0	JRWNEJH	"8" NJE Header/Trailer build
108	(6C)	X'9'	0	JRWNESEQ	"9" Record sequencing error
108	(6C)	X'A'	0	JRWNEGG	"10" Grouping error
108	(6C)	X'B'	0	JRWNESJF	"11" SJF error
108	(6C)	X'C'	0	JRWNESAF	"12" SAF check failure
109	(6D)	BITSTRING	7	JRWCRSV2	Reserved
120	(78)	DBL WORD	8	JRWDBL	Doubleword work area
128	(80)	DBL WORD	8	JRWDBLE	Doubleword work area 2
136	(88)	DBL WORD	8	JRWDBLE1	Doubleword work area 3
136	(88)	X'80'	0	JRWWRK16	"JRWDBLE,16,C'X'" 16-byte work area
136	(88)	X'78'	0	JRWWRK24	"JRWDBL,24,C'X'" 24-byte work area
144	(90)	DBL WORD	8	(0)	Force alignment
144	(90)	X'48'	0	JRWCLEAR	"JRWCLRST,*-JRWCLRST,C'X'" Area to clear
144	(90)	BITSTRING	1	JRW\$EXP	'EXPECTED' TYPES (FLAGS)
145	(91)	BITSTRING	1	JRW\$LST	'LAST RECEIVED' TYPE (FLAG)
		1... ....		JRW\$JH	"B'10000000" JOB HEADER
		.1.. ....		JRW\$JT	"B'01000000" JOB TRAILER
		..1. ....		JRW\$DSH	"B'00100000" DATA SET HEADER
		...1 ....		JRW\$DST	"B'00010000" DATA SET TRAILER (NOT USED)
		.... 1...		JRW\$DATA	"B'00001000" DATA RECORD
		.... .1..		JRW\$EOF	"B'00000100" NORMAL END-OF-FILE
		.... ..1.		JRW\$JES2	"B'00000010" JES2 SECTION RECEIVED
		.... ...1		JRW\$SPOF	"B'00000001" OFFLOAD SECTION RECEIVED
146	(92)	BITSTRING	1	JRWFLAG2	Control flags
Comment					

-----  
 JRW2SYSN indicates sysin data being processed and any JCL/IECL will end data. JRW2DATA is any data that must be terminated by a DLM card.  
 -----

End of Comment					
		1... ....		JRW2SYSN	"B'10000000" Processing SYSIN
		.1.. ....		JRW2DATA	"B'01000000" Processing data cards

## \$JRW Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		..1. ....		JRW2JCL	"B'00100000" Processing JCL card
		...1 ....		JRW2JECL	"B'00010000" Processing JECL card
Comment					
EQU B'00001000' Reserved					
End of Comment					
		.... .1..		JRW2CONT	"B'00000100" Processing continuation
		.... ..1.		JRW2QUOT	"B'00000010" Processing unended quote
		.... ...1		JRW2CMNT	"B'00000001" Processing comment cont
146	(92)	X'7'	0	JRW2CNTS	"JRW2CONT+JRW2QUOT+JRW2CMNT" All continuations
147	(93)	BITSTRING	1	JRWFLAG3	Control flags
		1... ....		JRW3SKIP	"B'10000000" Skipping for job card message issued
		.1.. ....		JRW3FLSH	"B'01000000" Flushing input stream (look for delimiter)
		..1. ....		JRW3FEOF	"B'00100000" Flushing until EOF
		...1 ....		JRW3FAIL	"B'00010000" Fail job at end of input
		.... 1..		JRW3SKGT	"B'00001000" Reprocess current record
		.... .1..		JRW3STNF	"B'00000100" Store and forward steam
		.... ..1.		JRW3XMIT	"B'00000010" XMIT stream
		.... ...1		JRW3PURG	"B'00000001" Job is to be purged
148	(94)	BITSTRING	1	JRWFLAG4	Control flags
		1... ....		JRW4ILLC	"B'10000000" Illegal continuation
		.1.. ....		JRW4ILCD	"B'01000000" Deferred continuation err
		..1. ....		JRW4JQSA	"B'00100000" \$JQESERV ADD in progress
		...1 ....		JRW4ILCB	"B'00010000" Illegal continuation before exit
149	(95)	BITSTRING	1	JRWCPSWK	Caller PSW byte 1 (key)
150	(96)	BITSTRING	2		Reserved
152	(98)	DBL WORD	8	JRWTMP8	8 byte work area
160	(A0)	BITSTRING	32	JRWTMP32	32 byte work area
Comment					
MACDATE = 08/19/88					
End of Comment					
160	(A0)	BITSTRING	24	JRWSTIML	REMOTE STIMERM SET PARM LIST

Comment

Job reader card buffer (RJCB) queues

The queus are used as follows:

JRWRJCB - Cards that represent the current JCL card being processed. These cards are represented in JRWSTMT

JRWRJCBN - These are cards that are queued for processing after the current cards in JRWRJCB are processed. There were either generated internally or were added by an exit

JRWRJCBF - Free RJCBs that are ready for re-use

JRWRJCBX - These are the job cards that have already been written to the JCLIN data set and are waiting to be written to the SYSIN data set for XBM processing.

JRWRJCBS - SCRs that are to be written after the cards in JRWRJCB (if any) are processed.

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
JRWRJCBP - One pending SCR that is to be written when the next data or JCL card is encountered.					
JRWRJCBM - Messages that need to be processed after the current cards (JRWRJCB) are written.					
JRWRJCBC - CMBs that need to be processed after the current cards (JRWRJCB) are written.					
JRWRJCBI - RJCBI that represents a SYSIN or delimiter card added by an exit					
End of Comment					
192	(C0)	SIGNED	4	JRWRJCB1 (0)	First queue of RJCBI
192	(C0)	ADDRESS	4	JRWRJCB	Current card buffer head
196	(C4)	ADDRESS	4	JRWRJCBN	Next card buffer head
200	(C8)	ADDRESS	4	JRWRJCBF	Free card buffer head
204	(CC)	ADDRESS	4	JRWRJCBX	XBM card queue
208	(D0)	ADDRESS	4	JRWRJCBS	SCR queue
212	(D4)	ADDRESS	4	JRWRJCBP	Pending SCR queue
216	(D8)	ADDRESS	4	JRWRJCBM	Message queue
220	(DC)	ADDRESS	4	JRWRJCBC	CMB queue
224	(E0)	ADDRESS	4	JRWRJCBI	SYSIN/delimiter RJCBI
224	(E0)	X'9'	0	JRWRJCNM	"(*-JRWRJCB1)/4" Number of RJCBI queues
228	(E4)	ADDRESS	4	(2)	Reserved for future use

Comment

Current logical statement work areas

End of Comment					
236	(EC)	ADDRESS	4	JRWSTMT	Pointer to statement buffer
240	(F0)	ADDRESS	4	JRWSTMTE	1st free byte in buffer
244	(F4)	SIGNED	2	JRWSTMTS	Size of JRWSTMT area
246	(F6)	SIGNED	2		Reserved
248	(F8)	CHARACTER	8	JRWSTMTV	JCL/JECL verb for statement in 4K buffer
256	(100)	CHARACTER	8	JRWSTMTL	JCL label for verb in 4K buffer
264	(108)	SIGNED	4	JRWSTMTC	Count of cards in current statement

Comment

RCARDSCN work areas

End of Comment					
268	(10C)	CHARACTER	8	JRWRSCNK	Scanned keyword
276	(114)	SIGNED	2	JRWRSCNL	Value length (-1 implies missing required keyword)
278	(116)	SIGNED	2	JRWRSCNP	Number of positionals found
280	(118)	SIGNED	2	JRWRSCNM	# of list elements found
282	(11A)	BITSTRING	1	JRWRSCER	RCARDSCN error code
282	(11A)	X'1'	0	JRWRSCOP	"1" Operand error code
282	(11A)	X'2'	0	JRWRSCKY	"2" Keyword error code
283	(11B)	BITSTRING	1		Reserved
284	(11C)	CHARACTER	256	JRWRSCNV	Keyword value

Comment

Routing information areas

End of Comment					
540	(21C)	SIGNED	2	JRWXEQND	Default execution node
542	(21E)	SIGNED	2	JRWJRMNO	Device modify node number
544	(220)	SIGNED	4	JRWRDRT (0)	Source (origin) route code
544	(220)	SIGNED	2	JRWRDNOD	Node number
546	(222)	SIGNED	2	JRWRDRTE	Remote number

# \$JRW Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
548	(224)	SIGNED	4	JRWPRINT (0)	Default print route code
548	(224)	SIGNED	2	JRWPRNOD	Node number
550	(226)	SIGNED	2	JRWPRRTE	Local printer/remote number
552	(228)	CHARACTER	8	JRWPRSER	Print userid
560	(230)	SIGNED	4	JRWXPUNCH (0)	Default punch route code
560	(230)	SIGNED	2	JRWXPUNOD	Node number
562	(232)	SIGNED	2	JRWXPURTE	Local punch/remote number
564	(234)	CHARACTER	8	JRWXPUSER	Punch userid
Comment					
General work/data areas					
End of Comment					
572	(23C)	BITSTRING	200	JRWMSG	Input processing msg area
772	(304)	BITSTRING	152	JRWSAFI	SAFINFO parameter list
924	(39C)	ADDRESS	4	JRWTTWA	Address of token work area
928	(3A0)	ADDRESS	4	JRWTTOKA	Input token for JOBVALM
932	(3A4)	ADDRESS	4	JRWJJECLT	Addr of JECL table
936	(3A8)	ADDRESS	4	JRWJCTSV	JCT address obtained at NJE JOB header time
940	(3AC)	ADDRESS	4	JRWIOTL	Address of last IOT
944	(3B0)	SIGNED	2	JRWIOTCT	Count of IOT's used
946	(3B2)	SIGNED	2		Reserved
948	(3B4)	ADDRESS	4	JRWOCT	Output control table addr
952	(3B8)	ADDRESS	4	JRWPOCT	Pending OCT buffer address
956	(3BC)	ADDRESS	4	JRWPDDB	Current SYSIN PDDB address
960	(3C0)	CHARACTER	2	JRWJPRIO	Priority from PRIO or PRTY=
962	(3C2)	CHARACTER	1	JRWMLAS	Default msgclass
963	(3C3)	BITSTRING	1	JRWPRINC	Priority increment
964	(3C4)	BITSTRING	1	JRWPLIM	Priority limit
965	(3C5)	BITSTRING	3		Reserved
968	(3C8)	CHARACTER	8	JRWJCLAS	Default job class
976	(3D0)	CHARACTER	1	JRWVCLS	Original job class (Saved)
977	(3D1)	CHARACTER	7		Reserved - 8 char jobclass
984	(3D8)	CHARACTER	1	JRWJCLS	Override JOBCLASS value
985	(3D9)	CHARACTER	7		Reserved - 8 char jobclass
992	(3E0)	CHARACTER	8	JRWXBMPR	Procname for XBM/2 job
1000	(3E8)	SIGNED	4	JRWJNO	Initial job number
1004	(3EC)	ADDRESS	4	JRWNOFF	Address of offload section
1008	(3F0)	BITSTRING	4	JRWSAF	System affinity
1012	(3F4)	BITSTRING	1	JRWPSWD	PASSWORD processing field
		.... .1		\$RPASFND	"B'00000001" PASSWORD processed
		.... .1.		\$RJOBERR	"B'00000010" Error on JOB card
		.... .1..		\$RPSWPRC	"B'00000100" PASSWORD processing
		.... 1...		\$RJOBFND	"B'00001000" JOB card being processed
		.... .1 ....		\$RPSWCNT	"B'00010000" PASSWORD continuation found in RPUTSCAN routine
		..1. ....		\$RNPASER	"B'00100000" Encrypted password network protocol error detected
1013	(3F5)	BITSTRING	1	JRWVSW1	Input switches
		1... ....		JRW1XBCH	"B'10000000" Xeq batch monitor class job
		.1.. ....		JRW1JVfy	"B'01000000" Job has been verified
		..1. ....		JRW1SREQ	"B'00100000" Submitter token required
		...1 ....		JRW1IXEQ	"B'00010000" Invalid XEQ card detected
		.... 1...		JRW1JKIL	"B'00001000" Job killed via RJOBKILL
		.... .1..		JRW1XBGN	"B'00000100" XBM generated cards added
1014	(3F6)	BITSTRING	1	JRWVSW2	Input switches
		1... ....		JRW2JSRD	"B'10000000" At least one JOB stmt read since the last physical EOF
		.1.. ....		JRW2IND	"B'01000000" Independent mode
		..1. ....		JRW2XMIT	"B'00100000" Off - XMIT allowed after job or comment cards On - XMIT not allowed
		.... .1 ....		JRW2JCLH	"B'00010000" TYPRUN=JCLHOLD
		.... 1...		JRW2JBON	"B'00001000" \$HASP100 msg issued

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... .1..		JRW2COPY	"B'00000100" TYPRUN=COPY flag
		.... ..1.		JRW2ASAF	"B'00000010" System affinity from MVS
		.... ...1		JRW2JCAN	"B'00000001" NJE job cancel switch
1015	(3F7)	BITSTRING	1	JRWSW3	Input switches
		1... ....		JRW3MAIN	"B'10000000" SRIP caller main task
		.1.. ....		JRW3SUBT	"B'01000000" SRIP caller sub task
		..1. ....		JRW3USER	"B'00100000" SRIP caller user space
		...1 ....		JRW3MULT	"B'00010000" Multiple job cards found
		.... 1...		JRW3SHLD	"B'00001000" Hold job for spof smf
		.... .1..		JRW3JHLD	"B'00000100" Device TYPRUN=HOLD
		.... ..1.		JRW3DHDR	"B'00000010" An NJE header has had its processing deferred
1016	(3F8)	BITSTRING	1	JRWSW4	Input switches
		1... ....		JRW4JCLE	"B'10000000" Job contains a JECL error
1017	(3F9)	BITSTRING	1	JRWSW5	Input switches
		...1 ....		JRW5E20T	"B'00010000" Job terminated by exit 20
1018	(3FA)	BITSTRING	1	JRWXMIND	Reason for terminating input - see JQXMXIND for possible values
1019	(3FB)	SIGNED	1	JRWNEXTQ	Next phase of processing
1020	(3FC)	BITSTRING	1	JRWDELRS	"JOB DELETED" reason code
1020	(3FC)	X'1'	0	JRWDJOB	"1" Illegal JOB card
1020	(3FC)	X'2'	0	JRWDXIT4	"2" EXIT 4 illegal cntrl card
1020	(3FC)	X'3'	0	JRWDCONT	"3" Error on continuation
1020	(3FC)	X'4'	0	JRWDELP	"4" DEL or PURGE JECL
1020	(3FC)	X'5'	0	JRWDOPER	"5" Operator command
1020	(3FC)	X'6'	0	JRWDERR	"6" Processing error
1020	(3FC)	X'7'	0	JRWDIOR	"7" I/O error
1020	(3FC)	X'8'	0	JRWJJECL	"8" Illegal JECL card
1020	(3FC)	X'9'	0	JRWDXEQN	"9" Illegal execution node
1020	(3FC)	X'A'	0	JRWDSYSN	"10" Excessive SYSIN stmts
1020	(3FC)	X'B'	0	JRWDCONT	"11" Device canceled or stoped
1020	(3FC)	X'C'	0	JRWDCACT	"12" Illegal acct field JOB card
1020	(3FC)	X'D'	0	JRWDSAF	"13" Unsupported SAF return code
1020	(3FC)	X'E'	0	JRWDPROT	"14" NJE protocol error
1020	(3FC)	X'F'	0	JRWDXMIT	"15" JCL XMIT card error
1020	(3FC)	X'10'	0	JRWDDATA	"16" JCL DD DATA card error
1021	(3FD)	BITSTRING	1	JRWACCTL	Length of accounting string
1022	(3FE)	BITSTRING	1	JRWRAUTH	Reader command authority
1023	(3FF)	BITSTRING	1		Reserved
1024	(400)	SIGNED	2	JRWDLM (0)	Input data set delimiter
1026	(402)	BITSTRING	1	JRWFLAGX	Reader exits flag byte
		.... ...1		JRWXJCL	"B'00000001" JCL card detected
1026	(402)	X'1'	0	RDWXJCL	"JRWXJCL" Compatibility
		.... ..1.		JRWXJECL	"B'00000010" JECL card detected
1026	(402)	X'2'	0	RDWXJECL	"JRWXJECL" Compatibility
		.... .1..		JRWXJOB	"B'00000100" JOB card detected
1026	(402)	X'4'	0	RDWXJOB	"JRWXJOB" Compatibility
		.... 1...		JRWXCONT	"B'00001000" Continuation card detected
1026	(402)	X'8'	0	RDWXCONT	"JRWXCONT" Compatibility
		...1 ....		JRWXSNC	"B'00010000" Exit supplied next card
1026	(402)	X'10'	0	RDWXSNC	"JRWXSNC" Compatibility
		..1. ....		JRWXXSEM	"B'00100000" Exit supplied error message
1026	(402)	X'20'	0	RDWXXSEM	"JRWXXSEM" Compatibility
		.1.. ....		JRWXJOBP	"B'01000000" JOBPARM card detected
1026	(402)	X'40'	0	RDWXJOBP	"JRWXJOBP" Compatibility
1027	(403)	BITSTRING	1		Reserved
1028	(404)	ADDRESS	4	JRWENTRY	Addr of entry point vector

Comment

For internal readers, information on the submitter

End of Comment

1032	(408)	CHARACTER	8	JRWSJBID	Id of current owner
1040	(410)	CHARACTER	8	JRWSJNAM	Name of current owner

## \$JRW Map

### Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
1048	(418)	CHARACTER	8	JRWXSUSR	'USER' from owner's ACEE
1056	(420)	CHARACTER	8	JRWXSGRP	'GROUP' from owner's ACEE

Comment

Information on last record read (RGET or passed to reader processing)

End of Comment

1064	(428)	BITSTRING	1	JRWINFLG	Input record flags
1065	(429)	BITSTRING	1	JRWCCCTL	Carriage control
1066	(42A)	SIGNED	2	JRWCDLRL	Card logical record length
1066	(42A)	X'42B'	0	JRWCDLR1	"JRWCDLRL+1,1,C'X'" One byte LRECL for HASPRDR
1068	(42C)	ADDRESS	4	JRWRECRD	Record address

Comment

LRECL and RECFM information

End of Comment

1072	(430)	BITSTRING	1	JRWCDLEN	Card length
1073	(431)	BITSTRING	1	JRWCDLRC	Card logical record control byte
1074	(432)	SIGNED	2	JRWDEFLR	Default LRECL for SYSIN DS
1076	(434)	BITSTRING	1	JRWDEFRR	Default RECFM for SYSIN DS, bits defined in DCB under DCBRECFCM
1077	(435)	BITSTRING	1	JRWUDFRF	Ultimate default RECFM for SYSIN datasets for the job
1078	(436)	SIGNED	2	JRWMAXRL	Longest sysin record scanned so far
1080	(438)	SIGNED	2	JRWUDFLR	Ultimate default LRECL for SYSIN datasets for the job
1084	(43C)	SIGNED	4	JRWDSKEY	Data set key

Comment

Estimates for LINES/BYTES/CARDS/PAGES scanned from the job statement.

End of Comment

1088	(440)	SIGNED	4	JRWESTLN	Line estimate
1092	(444)	SIGNED	4	JRWESTPU	Punch estimate
1096	(448)	SIGNED	4	JRWESTPG	Page estimate
1100	(44C)	SIGNED	4	JRWESTBY	Byte estimate
1100	(44C)	X'440'	0	JRWESTXX	"JRWESTLN,*-JRWESTLN" Length of all estimate flds
1104	(450)	ADDRESS	4	JRWTCB	Owning TCB
1112	(458)	DBL WORD	8	JRWTEMP	Double word work area

Comment

The following list represents entry points to routines that are environment peculiar. Users of routines in SRIP must fill in the addresses with entry point values that support the function. If the function is not supported in a particular environment, then the address is left as zero.

End of Comment

1120	(460)	ADDRESS	4	JRW_BASE (0)	First routine address
1120	(460)	ADDRESS	4	JRW_RJQEUPD	JQE update routine
1124	(464)	ADDRESS	4	JRW_RCLSSYSI	Close open SYSIN data set
1128	(468)	ADDRESS	4	JRW_WRTBUFRS	Write out buffers to SPOOL
1132	(46C)	ADDRESS	4	JRW_WRJCTIOT	Finish write of JCT/IOTs
1136	(470)	ADDRESS	4	JRW_RWRTJOB	Ensure tracks obtained
1140	(474)	ADDRESS	4	JRW_RQMODJOB	\$QMOD JQE to proper queue
1144	(478)	ADDRESS	4	JRW_RJOBWTO	Job Receiver Notification
1148	(47C)	ADDRESS	4	JRW_RJCBPROC	Process Q'ed Msgs/CMB JRCBs
1152	(480)	ADDRESS	4	JRW_RJCTTERM	JCT cleanup



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1152	(480)	X'460'	0	JRW_LIST	"JRW_BASE,*-JRW_BASE" Environment list
1156	(484)	SIGNED	4	(4)	Reserved
1176	(498)	DBL WORD	8	(0)	
1176	(498)	CHARACTER	48	JRWCRTSY	Create SYSIN parm list
1224	(4C8)	CHARACTER	1	JRWOPNSP	Open spool parm list
1224	(4C8)	X'4E8'	0	JRWLEN	"*-JRW" Length of area

Comment

The following fields exist only in a JRW that is not in the JES2 address space (NETSERV, INTRDR, Request JOBID, etc)

End of Comment

1256	(4E8)	ADDRESS	4	JRWSAVEA	JRW save area stack
1260	(4EC)	SIGNED	4	JRWHRGSV (4)	High half R14-R1 save area
1276	(4FC)	SIGNED	4	JRWARGSV (4)	AR14-AR1 save area
1292	(50C)	BITSTRING	28	JRWPJCL	JCLIN data set parm list
1320	(528)	BITSTRING	28	JRWPSYSN	SYSIN data set parm list
1348	(544)	ADDRESS	4	JRWPCUR	Last JRWPUPPL used in I/O
1352	(548)	ADDRESS	4	JRWSJB	SJB address
1356	(54C)	ADDRESS	4	(3)	Reserved
1368	(558)	BITSTRING	1	JRWNFLG1	Status flags
		1... ....		JRWNF1ERR	"B'10000000" Processing detected error
1369	(559)	BITSTRING	1	JRWNFLG2	Status flags
1370	(55A)	BITSTRING	2		Reserved
1372	(55C)	ADDRESS	4	JRWRJQE	Real JQE address in live
1376	(560)	SIGNED	4	JRWRJQEA	version and ALET
1384	(568)	DBL WORD	8	(0)	Align
1384	(568)	X'568'	0	JRWCLEN	"*-JRW" Length of JRW in NETSRV address space

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	RCSL	, Reader card scan DSECT
0	(0)	CHARACTER	8	RCSLKEY	Keyword
8	(8)	ADDRESS	4	RCSLRTN	Processing routine
12	(C)	BITSTRING	1	RCSLPOSN	Positional parm number (0 implies all positional)
13	(D)	BITSTRING	1	RCSLFLG1	Flag byte
		1... ....		RCSL1ASI	"B'10000000" Leave apostrophes as is
		.1.. ....		RCSL1NSP	"B'01000000" Leave enclosing parens
		..1. ....		RCSL1REQ	"B'00100000" Required operand
		...1 ....		RCSL1BLK	"B'00010000" Skip blanks after keyword
		.... 1...		RCSL1LST	"B'00001000" Value is a list
14	(E)	BITSTRING	1	RCSLLSIZ	List element size
15	(F)	BITSTRING	1		Reserved
15	(F)	X'10'	0	RCSLELEN	"*-RCSL" Length of table entry

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JRWPUTPL	, CPUT parameter list DSECT
0	(0)	ADDRESS	4	JRWPLACB	ACB address
4	(4)	ADDRESS	4	JRWPLRPL	RPL address
8	(8)	ADDRESS	4	JRWPLDEB	DEB address
12	(C)	ADDRESS	4	JRWPLSDB	SDB address
16	(10)	ADDRESS	4	JRWPLREC	IAZYTDBC or record to put
20	(14)	BITSTRING	1	JRWPLCC	Carriage control
21	(15)	BITSTRING	1	JRWPLRC	LRC to be used
22	(16)	SIGNED	2	JRWPLRCL	Record LRECL
24	(18)	BITSTRING	1	JRWPLFG1	Control flags
		1... ....		JRWPL1DB	"B'10000000" JRWPLREC points to a IAZYTDBC with record
		.1.. ....		JRWPL1AS	"B'01000000" Use ASYNC put (ie NETSRV)

## \$JRW Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		..1. ....		JRWPL1TR	"B'00100000" Truncate current buffer
		...1 ....		JRWPL1JL	"B'00010000" JCL data set (will be read by converter)
-----					
Comment					
-----					
Work areas used by CPUT and close processing					
-----					
End of Comment					
25	(19)	BITSTRING	1	JRWPLFG2	Data flag byte
		1... ....		JRWPL2FR	"B'10000000" At least one record proc
		..1. ....		JRWPL2VA	"B'01000000" Record sized vary
		..1. ....		JRWPL2CA	"B'00100000" ASA control character found
		...1 ....		JRWPL2CM	"B'00010000" Machine control chars found
26	(1A)	SIGNED	2	JRWPLMLR	Max LRECL seen by RPUT
28	(1C)	SIGNED	4	(0)	Align
28	(1C)	X'1C'	0	JRWPLSIZ	"*-JRWPUTPL" Parameter list size

## \$JRW Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$RJOBERR	3F4	2	JRWCRSV2	6D	
\$RJOBFND	3F4	8	JRWCRTSY	498	
\$RNPASER	3F4	20	JRWKUREC	60	
\$RPASFND	3F4	1	JRWDACCT	3FC	C
\$RPSWCNT	3F4	10	JRWDBL	78	
\$RPSWPRC	3F4	4	JRWDBLE	80	
JRW	0		JRWDBLE1	88	
JRW\$DATA	91	8	JRWDCONT	3FC	3
JRW\$DSH	91	20	JRWDDATA	3FC	10
JRW\$DST	91	10	JRWDEDEL	3FC	4
JRW\$EOF	91	4	JRWDEFLR	432	
JRW\$EXP	90		JRWDEFRR	434	
JRW\$JES2	91	2	JRWDELRS	3FC	
JRW\$JH	91	80	JRWDEERR	3FC	6
JRW\$JT	91	40	JRWDEVID	F	
JRW\$LST	91		JRWDEVN	4	
JRW\$SPOF	91	1	JRWDEVTP	E	
JRW_BASE	460		JRWPIOER	3FC	7
JRW_LIST	480	460	JRWJJECL	3FC	8
JRW_RCLSSYSI	464		JRWJJOBC	3FC	1
JRW_RJCBPROC	47C		JRWJLDM	400	
JRW_RJCTTERM	480		JRWJOPER	3FC	5
JRW_RJOBWTO	478		JRWJPROT	3FC	E
JRW_RJQEUPD	460		JRWJSAF	3FC	D
JRW_RQMODJOB	474		JRWJDSKEY	43C	
JRW_RWRTJOB	470		JRWJSTOP	3FC	B
JRW_WRJCTIOT	46C		JRWJYSYN	3FC	A
JRW_WRTBUFRS	468		JRWJXEQN	3FC	9
JRWACCTL	3FD		JRWJXIT4	3FC	2
JRWAREA	20		JRWJXMIT	3FC	F
JRWARGSV	4FC		JRWJCBCC	30	
JRWCTL	429		JRWJENTRY	404	
JRWCDLEN	430		JRWJSTBY	44C	
JRWCDLRC	431		JRWJSTLN	440	
JRWCDLRL	42A		JRWJSTPG	448	
JRWCDLR1	42A	42B	JRWJSTPU	444	
JRWCLEAR	90	48	JRWJSTXX	44C	440
JRWCLLEN	568	568	JRWJEYE	0	D1D9E640
JRWCLRST	48		JRWJFLAGX	402	
JRWCPSTWK	95		JRWJFLAG2	92	
JRWCRSV1	12		JRWJFLAG3	93	

## \$JRW Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
JRWFLAG4	94		JRWPL1AS	18	40
JRWHRGSV	4EC		JRWPL1DB	18	80
JRWINFLG	428		JRWPL1JL	18	10
JRWINJNO	3E8		JRWPL1TR	18	20
JRWIOT	50		JRWPL2CA	19	20
JRWIOTBF	50	50	JRWPL2CM	19	10
JRWIOTCT	3B0		JRWPL2FR	19	80
JRWIOTL	3AC		JRWPL2VA	19	40
JRWJCLAS	3C8		JRWPOCT	3B8	
JRWJCT	4C		JRWPRINC	3C3	
JRWJCTSV	3A8		JRWPRINT	224	
JRWJECLT	3A4		JRWPRLIM	3C4	
JRWJOBID	64		JRWPRNOD	224	
JRWJPRI0	3C0		JRWPRRTE	226	
JRWJQA	48		JRWPRSER	228	
JRWJQE	48	48	JRWPSWD	3F4	
JRWJRMNO	21E		JRWPSYSN	528	
JRWLEN	4C8	4E8	JRWPUNCH	230	
JRWMAXRL	436		JRWPNOD	230	
JRWMCCLAS	3C2		JRWPURTE	232	
JRWMSG	23C		JRWUSER	234	
JRWMXIND	3FA		JRWPUTPL	0	
JRWNECBI	6C	7	JRWRAUTH	3FE	
JRWNECLO	6C	5	JRWRCOUN	5C	
JRWNEGG	6C	A	JRWRDNOD	220	
JRWNEIOE	6C	6	JRWDRRT	220	
JRWNEJOB	6C	1	JRWDRRTE	222	
JRWNEJOE	6C	2	JRWRECRD	42C	
JRWNENJH	6C	8	JRWRJCB	C0	
JRWNEOPE	6C	4	JRWRJCBC	DC	
JRWNERRC	6C		JRWRJCBF	C8	
JRWNESAF	6C	C	JRWRJCBI	E0	
JRWNESEQ	6C	9	JRWRJCBM	D8	
JRWNESJF	6C	B	JRWRJCBN	C4	
JRWNESUB	6C	3	JRWRJCBP	D4	
JRWNEXTQ	3FB		JRWRJCBS	D0	
JRWNFLG1	558		JRWRJCBX	CC	
JRWNFLG2	559		JRWRJCB1	C0	
JRWNITAD	34		JRWRJCNM	E0	9
JRWNITAL	38		JRWRJQE	55C	
JRWNITBL	3C		JRWRJQEA	560	
JRWNJH	54		JRWRSCER	11A	
JRWNJOFF	3EC		JRWRSCKY	11A	2
JRWNJT	58		JRWRSCNK	10C	
JRWNSST	24		JRWRSCNL	114	
JRWN1ERR	558	80	JRWRSCNM	118	
JRW0CT	3B4		JRWRSCNP	116	
JRWOJCLS	3D8		JRWRSCNV	11C	
JRWOPNSP	4C8		JRWRSCOP	11A	1
JRWPARA	1C		JRWSAF	3F0	
JRWPCUR	544		JRWSAFI	304	
JRWPDDB	3BC		JRWSAVEA	4E8	
JRWPJCL	50C		JRWSGRP	420	
JRWPLACB	0		JRWsjb	548	
JRWPLCC	14		JRWsjbid	408	
JRWPLDEB	8		JRWsjnam	410	
JRWPLFG1	18		JRWsqd	18	
JRWPLFG2	19		JRWSTIML	A0	0
JRWPLLR	15		JRWSTMT	EC	
JRWPLMLR	1A		JRWSTMTC	108	
JRWPLRCL	16		JRWSTMTE	F0	
JRWPLREC	10		JRWSTMTL	100	
JRWPLRPL	4		JRWSTMTS	F4	
JRWPLSDB	C		JRWSTMTV	F8	
JRWPLSIZ	1C	1C	JRWSUSR	418	

## \$JRW Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
JRWSVCLS	3D0		JRW3USER	3F7	20
JRWSW1	3F5		JRW3XMIT	93	2
JRWSW2	3F6		JRW4ILCB	94	10
JRWSW3	3F7		JRW4ILCD	94	40
JRWSW4	3F8		JRW4ILLC	94	80
JRWSW5	3F9		JRW4JCLE	3F8	80
JRWTAREA	2C		JRW4JQSA	94	20
JRWTBUF	28		JRW5E20T	3F9	10
JRWTCB	450		RCSL	0	
JRWTEMP	458		RCSLELEN	F	10
JRWTMP32	A0		RCSLFLG1	D	
JRWTMP8	98		RCSLKEY	0	
JRWTOKA	3A0		RCSLLSIZ	E	
JRWTWA	39C		RCSLPOSN	C	
JRWUDFLR	438		RCSLRTN	8	
JRWUDFRF	435		RCSL1ASI	D	80
JRWVAVE	14		RCSL1BLK	D	10
JRWWRK16	88	80	RCSL1LST	D	8
JRWWRK24	88	78	RCSL1NSP	D	40
JRWXBMPR	3E0		RCSL1REQ	D	20
JRWXCONT	402	8	RDWXCONT	402	8
JRWXDATE	44		RDWXJCL	402	1
JRWXEQND	21C		RDWXJECL	402	2
JRWXJCL	402	1	RDWXJOB	402	4
JRWXJECL	402	2	RDWXJOBP	402	40
JRWXJOB	402	4	RDWXXSEM	402	20
JRWXJOBP	402	40	RDWXXSNC	402	10
JRWXTIME	40				
JRWXXSEM	402	20			
JRWXXSNC	402	10			
JRW1IXEQ	3F5	10			
JRW1JKIL	3F5	8			
JRW1JVFY	3F5	40			
JRW1SREQ	3F5	20			
JRW1XBCH	3F5	80			
JRW1XBGN	3F5	4			
JRW2ASAF	3F6	2			
JRW2CMNT	92	1			
JRW2CNTS	92	7			
JRW2CONT	92	4			
JRW2COPY	3F6	4			
JRW2DATA	92	40			
JRW2IND	3F6	40			
JRW2JBON	3F6	8			
JRW2JCAN	3F6	1			
JRW2JCL	92	20			
JRW2JCLH	3F6	10			
JRW2JECL	92	10			
JRW2JSRD	3F6	80			
JRW2QUOT	92	2			
JRW2SYSN	92	80			
JRW2XMIT	3F6	20			
JRW3DHDR	3F7	2			
JRW3FAIL	93	10			
JRW3FE0F	93	20			
JRW3FLSH	93	40			
JRW3JHLD	3F7	4			
JRW3MAIN	3F7	80			
JRW3MULT	3F7	10			
JRW3PURG	93	1			
JRW3SHLD	3F7	8			
JRW3SKGT	93	8			
JRW3SKIP	93	80			
JRW3STNF	93	4			
JRW3SUBT	3F7	40			

---

**\$JTW Programming Interface information**

Programming Interface information

**\$JTW**

End of Programming Interface information

## \$JTW Heading Information

**Common Name:** JES2 Job Transmitter Work Area  
**Macro ID:** \$JTW  
**DSECT Name:** JTW  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** none  
**Storage Attributes:** Subpool: See \$PCE (JES2 address space) 0 (NETSRV address space)  
 Key: See \$PCE (JES2 address space) 0 (NETSRV address space)  
 Residency: See \$PCE (JES2 address space) Virtual and real storage are anywhere (above or below 16M) in private storage (NETSRV address space)  
**Size:** See JTWLEN  
**Created by:** See \$PCE (JES2 address space)  
 Subtask initialization exit (NETSRV address space)  
**Pointed to by:** NSSTJTW field of the \$NSST data area  
 X046AREA field of the \$XPL data area  
 X056AREA field of the \$XPL data area  
 Imbedded in the PCE in the JES2 address space.  
 See \$PCE for other pointer fields that apply to all PCE types.  
**Serialization:** Normal PCE dispatch serialization  
**Function:** The fields in this work area are used by a JES2 Job Transmitter Processor and by its support routines and exits. \$JTW maps the fields that are used by common service routines in both the JES2 address space and the NETSRV address spaces.

## \$JTW Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JTW	, JTW mapped as \$NJEWORK
0	(0)	CHARACTER	4	JTWEYE	Eyecatcher
4	(4)	CHARACTER	10	JTWDEVN	Device name
14	(E)	BITSTRING	1	JTWDEVTP	Device type
15	(F)	BITSTRING	3	JTWDEVID	Device id
18	(12)	BITSTRING	2	JTWCRSV1	Reserved
20	(14)	ADDRESS	4	JTWWAVE	WAVE address
24	(18)	ADDRESS	4	JTWSQD	SQD address
28	(1C)	ADDRESS	4	JTWPAREA	Address of PCL area for this subdevice
32	(20)	ADDRESS	4	JTWAREA	Address of TSCT area for this subdevice (NETSRV address space only)
36	(24)	ADDRESS	4	JTWNSST	Address of NSST (NETSRV address space only)
40	(28)	ADDRESS	4	JTWTBUF	Address of associated TBUF
44	(2C)	ADDRESS	4	JTWTAREA	Address of rolling trace area (NETSRV addrspc only)
48	(30)	SIGNED	4	JTWEBCCC	Contents of POSTed ECB
52	(34)	ADDRESS	4	JTWNITAD	Address of adjacent NIT
56	(38)	ADDRESS	4	JTWNITAL	ALET of adjacent NIT
60	(3C)	ADDRESS	4	JTWNITBL	Address of NIT table

Comment

THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER

End of Comment

64	(40)	SIGNED	4	JTWXTIME	Time offload DS allocated
68	(44)	SIGNED	4	JTWXDATE	Date offload DS allocated
72	(48)	SIGNED	4	JTWCLRST (0)	Start of area to clear
72	(48)	ADDRESS	4	JTWJQA	Address of JQA

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
72	(48)	X'48'	0	JTWJQE	"JTWJQA" Address of JQE
76	(4C)	ADDRESS	4	JTWJCT	Address of JCT
80	(50)	ADDRESS	4	JTWIOT	Address of IOT
80	(50)	X'50'	0	JTWIOTBF	"JTWIOT" Address of IOT
84	(54)	ADDRESS	4	JTWNJH	Network job header address
88	(58)	ADDRESS	4	JTWNJT	Network job trailer address
92	(5C)	SIGNED	4	JTWRCOUN	Number of records sent/received
96	(60)	ADDRESS	4	JTWCUREC	Current record count, not including header/trailer records
100	(64)	CHARACTER	8	JTWJOBID	Job id of active job
108	(6C)	BITSTRING	1	JTWNERRC	Error code
108	(6C)	X'1'	0	JTWNEJOB	"1" JQE/JOE Mismatch
108	(6C)	X'2'	0	JTWNEJOE	"2" Invalid mix of spin/nonspin
108	(6C)	X'3'	0	JTWNESUB	"3" Subtask failure
108	(6C)	X'4'	0	JTWNEOPE	"4" OPEN failure
108	(6C)	X'5'	0	JTWNECLO	"5" CLOSE failure
108	(6C)	X'6'	0	JTWNEIOE	"6" I/O error
108	(6C)	X'7'	0	JTWNECBI	"7" CBIO failure
108	(6C)	X'8'	0	JTWNENJH	"8" NJE Header/Trailer build
108	(6C)	X'9'	0	JTWNESEQ	"9" Record sequencing error
108	(6C)	X'A'	0	JTWNEGG	"10" Grouping error
108	(6C)	X'B'	0	JTWNESJF	"11" SJF error
108	(6C)	X'C'	0	JTWNESAF	"12" SAF check failure
109	(6D)	BITSTRING	7	JTWCRSV2	Reserved
120	(78)	DBL WORD	8	JTWDBL	Doubleword work area
128	(80)	DBL WORD	8	JTWDBLE	Doubleword work area 2
136	(88)	DBL WORD	8	JTWDBLE1	Doubleword work area 3
136	(88)	X'80'	0	JTWWRK16	"JTWDBLE,16,C'X'" 16-byte work area
136	(88)	X'78'	0	JTWWRK24	"JTWDBL,24,C'X'" 24-byte work area
144	(90)	DBL WORD	8	(0)	Force alignment
144	(90)	X'48'	0	JTWCLEAR	"JTWCLRST,*-JTWCLRST,C'X'" Area to clear
144	(90)	ADDRESS	4	JTWLOGST	Address of LOGSTR used in NJTAUTH

Comment

THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER

End of Comment

152	(98)	DBL WORD	8		SNA WORK AREA
160	(A0)	BITSTRING	256	JTWWORK	WORK AREA
416	(1A0)	SIGNED	4	JTWNJTON (2)	PROCESSOR SIGN-ON TIME AND DATE
424	(1A8)	BITSTRING	1	JTWORCFM	Previous RECFM
425	(1A9)	BITSTRING	1	JTWNRCFM	New RECFM
426	(1AA)	SIGNED	2	JTWOLRCL	Previous LRECL
428	(1AC)	SIGNED	2	JTWNLRCL	New LRECL
430	(1AE)	BITSTRING	1	JTWFLAG1	FLAG BYTE
		1... ....		JTWF1MSG	"B'10000000" INACTIVE MESSAGE HAS BEEN ISSUED
		.1.. ....		JTWF1DAT	"B'01000000" INVALID DATA BLOCK MSG REQUIRED
		..1. ....		JTWF1HLD	"B'00100000" HOLD JOB AFTER RESTART OF DEVICE
		...1 ....		JTWF1PEF	"B'00010000" PASSWORD ENCRYPTION FAILED
		.... 1...		JTWF1JDM	"B'00001000" Write JOB deleted message
		.... .1..		JTWF1CUQ	"B'00000100" Return job to current queue
		.... ..1.		JTWF1NDT	"B'00000010" No data records have been transmitted yet.
		.... ...1		JTWF1SRC	"B'00000001" Found an SCR; LRECL/RECFM may have changed
431	(1AF)	BITSTRING	1		Reserved for future use
432	(1B0)	BITSTRING	1	JTWFLAG2	More flags
		1... ....		JTWF2AUT	"B'10000000" Authorization failed
		.1.. ....		JTWF2TRC	"B'01000000" Truncate long SYSIN records
434	(1B2)	SIGNED	2	JTWPCEID	Processor Type
434	(1B2)	X'1B4'	0	JTWLEN	**-JTW" Length of work DSECT

## \$JTW Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
The following fields exist only in the JTW in the NETSRV address space					
End of Comment					
436	(1B4)	ADDRESS	4	JTWACB	ACB address
440	(1B8)	ADDRESS	4	JTWRPL	RPL address
444	(1BC)	ADDRESS	4	JTWSJB	SJB address
448	(1C0)	ADDRESS	4	JTWSDB	SDB address
452	(1C4)	ADDRESS	4	JTWB32K	32K buffer containing record during RCCS send
456	(1C8)	BITSTRING	1	JTWNFLG1	Progress flags
		1... ....		JTWN1JHI	"B'10000000" NJH creation in progress
		.1.. ....		JTWN1JHC	"B'01000000" NJH creation complete
		..1. ....		JTWN1JHS	"B'00100000" NJH has been sent
		...1 ....		JTWN1GTI	"B'00010000" Get is in progress
		.... 1...		JTWN1JTI	"B'00001000" NJT creation in progress
		.... .1..		JTWN1JTC	"B'00000100" NJT creation complete
		.... ..1.		JTWN1JTS	"B'00000010" NJT has been sent
		.... ...1		JTWN1EOT	"B'00000001" EOT has been sent
457	(1C9)	BITSTRING	1	JTWNFLG2	Status flags
		1... ....		JTWN2ERR	"B'10000000" Error, abort transmission
		.1.. ....		JTWN2WJ2	"B'01000000" Wait while JES2 down
		..1. ....		JTWN2XMS	"B'00100000" Found 1st card to XMIT
464	(1D0)	DBL WORD	8	(0)	End of JTW area
464	(1D0)	X'1D0'	0	JTWCLEN	**-JTW" Length of JTW in NETSRV address space

## \$JTW Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
JTW	0		JTWJCT	4C	
JTWACB	1B4		JTWJOBID	64	
JTWAREA	20		JTWJQA	48	
JTWB32K	1C4		JTWJQE	48	48
JTWCLEAR	90	48	JTWLEN	1B2	1B4
JTWCLEN	1D0	1D0	JTWLOGST	90	
JTWCLRST	48		JTWNECBI	6C	7
JTWCRSV1	12		JTWNECLO	6C	5
JTWCRSV2	6D		JTWNEGG	6C	A
JTWCUREC	60		JTWNEIOE	6C	6
JTWDDBL	78		JTWNEJOB	6C	1
JTWDDBLE	80		JTWNEJOE	6C	2
JTWDDBLE1	88		JTWNENJH	6C	8
JTWDEVID	F		JTWNEOPE	6C	4
JTWDEVN	4		JTWNERRC	6C	
JTWDEVTP	E		JTWNESAF	6C	C
JTWECBCC	30		JTWNESEQ	6C	9
JTWEYE	0	D1E3E640	JTWNESJF	6C	B
JTWFLAG1	1AE		JTWNESUB	6C	3
JTWFLAG2	1B0		JTWNFLG1	1C8	
JTW1CUQ	1AE	4	JTWNFLG2	1C9	
JTW1DAT	1AE	40	JTWNITAD	34	
JTW1HLD	1AE	20	JTWNITAL	38	
JTW1JDM	1AE	8	JTWNITBL	3C	
JTW1MSG	1AE	80	JTWNJH	54	
JTW1NDT	1AE	2	JTWNJT	58	
JTW1PEF	1AE	10	JTWNJTON	1A0	
JTW1SRC	1AE	1	JTWNLRCL	1AC	
JTW2AUT	1B0	80	JTWNRCFM	1A9	
JTW2TRC	1B0	40	JTWNSST	24	
JTWIOT	50		JTWN1EOT	1C8	1
JTWIOTBF	50	50	JTWN1GTI	1C8	10



<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
JTWN1JHC	1C8	40
JTWN1JHI	1C8	80
JTWN1JHS	1C8	20
JTWN1JTC	1C8	4
JTWN1JTI	1C8	8
JTWN1JTS	1C8	2
JTWN2ERR	1C9	80
JTWN2WJ2	1C9	40
JTWN2XMS	1C9	20
JTWOLRCL	1AA	
JTWORCFM	1A8	
JTWPAREA	1C	
JTWPCEID	1B2	
JTWRCOUN	5C	
JTWRPL	1B8	
JTWSDB	1C0	
JTWSJB	1BC	
JTWSQD	18	
JTWTAREA	2C	
JTWTBUF	28	
JTWWAVE	14	
JTWORK	A0	
JTWWRK16	88	80
JTWWRK24	88	78
JTWXDATE	44	
JTWXTIME	40	



## \$KAWA Heading Information

**Common Name:** Checkpoint Allocation Work Area  
**Macro ID:** \$KAWA  
**DSECT Name:** KAW  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** KAWA  
 Offset: 0  
 Length: 4  
**Storage Attributes:** Subpool: 0  
 Key: 1  
 Residency: During Allocation, virtual and real storage are below 16M in the JES2 address space. During Unallocation, virtual and real storage are anywhere in the JES2 address space.  
**Size:** See KAWALEN  
**Created by:** JES2 Checkpoint Allocation and Unallocation  
**Pointed to by:** N/A  
**Serialization:** None required  
**Function:** The KAWA is used to map out a work area obtained by CKPTALOC and CKPTUNAL. It is also returned to CKPTALOC's caller if the routine detects an error.

## \$KAWA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	KAW	CHECKPOINT ALOC WORK AREA
0	(0)	CHARACTER	4		EYE CATCHER
4	(4)	ADDRESS	1	KAWAVER	VERSION NUMBER
4	(4)	X'2'	0	KAWAVERN	"2" VERSION EQUATE
5	(5)	BITSTRING	1	KAWFLAG1	FLAG BYTE
		1... ....		KAW1ALOC	"B'10000000" ALLOCATE WAS DONE
		.1.. ....		KAW1NEW	"B'01000000" ALLOCATE DISP=NEW WAS USED
		..1. ....		KAW1OPEN	"B'00100000" MVS OPEN WAS DONE
6	(6)	BITSTRING	1	KAWPARAM	PARAMETERS PASSED TO CKPTALOC
7	(7)	BITSTRING	1		RESERVED FOR FUTURE USE
8	(8)	SIGNED	4		Reserved for future IBM use
12	(C)	SIGNED	4	KAWALORT	RETURN CODE FROM MVS DYNALLOC
16	(10)	ADDRESS	4	KAWDCBA	ADDRESS OF THE NEW DCB/DCBE
20	(14)	CHARACTER	8	KAWDDNAM	DDNAME FOR DATA SET
28	(1C)	ADDRESS	4	KAWTOT	ADDRESS OF THE TRACK ONE TABLE
32	(20)	ADDRESS	4	KAWCKG	ADDRESS OF THE CKG
36	(24)	ADDRESS	4	KAWUCB	Address of the UCB
40	(28)	ADDRESS	4	KAWUCBPX	Address of the UCB Prefix
44	(2C)	SIGNED	4	KAWBYTRK	Number of Bytes or Tracks needed for DS (HASP295-6)
48	(30)	SIGNED	4	KAWOBFCC	Error Code from OBTAIN
52	(34)	ADDRESS	4	KAWRBPTR	REQUEST BLOCK POINTER
56	(38)	BITSTRING	20	KAWRB	DYNALLOC REQUEST BLOCK
76	(4C)	SIGNED	4	KAWTXTP1 (0)	TEXT POINTERS
76	(4C)	ADDRESS	4	KAWTXTP1	ADDRESS OF TEXT UNIT 1
80	(50)	ADDRESS	4	KAWTXTP2	ADDRESS OF TEXT UNIT 2
84	(54)	ADDRESS	4	KAWTXTP3	ADDRESS OF TEXT UNIT 3
88	(58)	ADDRESS	4	KAWTXTP4	ADDRESS OF TEXT UNIT 4
92	(5C)	ADDRESS	4	KAWTXTP5	ADDRESS OF TEXT UNIT 5
96	(60)	ADDRESS	4	KAWTXTP6	ADDRESS OF TEXT UNIT 6
100	(64)	ADDRESS	4	KAWTXTP7	ADDRESS OF TEXT UNIT 7
104	(68)	ADDRESS	4	KAWTXTP8	ADDRESS OF TEXT UNIT 8 -EAS
108	(6C)	ADDRESS	4	KAWTXTP9	ADDRESS OF TEXT UNIT 9
112	(70)	ADDRESS	4	KAWTXP10	ADDRESS OF TEXT UNIT 10

# \$KAWA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
116	(74)	SIGNED	4	KAWTXT (0)	TEXT UNITS
116	(74)	BITSTRING	6	KAWTXT1	TEXT UNIT 1
122	(7A)	BITSTRING	8	KAWTXT1D	TEXT UNIT 1 PARM
130	(82)	BITSTRING	6	KAWTXT2	TEXT UNIT 2
136	(88)	BITSTRING	8	KAWTXT2D	TEXT UNIT 2 PARM
144	(90)	BITSTRING	6	KAWTXT3	TEXT UNIT 3
150	(96)	BITSTRING	8	KAWTXT3D	TEXT UNIT 3 PARM
158	(9E)	BITSTRING	6	KAWTXT4	TEXT UNIT 4
164	(A4)	BITSTRING	8	KAWTXT4D	TEXT UNIT 4 PARM
172	(AC)	BITSTRING	6	KAWTXT5	TEXT UNIT 5
178	(B2)	BITSTRING	8	KAWTXT5D	TEXT UNIT 5 PARM
186	(BA)	BITSTRING	6	KAWTXT6	TEXT UNIT 6
192	(C0)	CHARACTER	44	KAWDSN (0)	DATASET NAME
192	(C0)	BITSTRING	44	KAWTXT6D	TEXT UNIT 6 PARM
236	(EC)	BITSTRING	6	KAWTXT7	TEXT UNIT 7
242	(F2)	BITSTRING	8	KAWTXT7D	TEXT UNIT 7 PARM
250	(FA)	BITSTRING	7	KAWTXT8	TEXT UNIT 8 - EAS
257	(101)	BITSTRING	6	KAWTXT9	TEXT UNIT 9
263	(107)	BITSTRING	8	KAWTXT9D	TEXT UNIT 9 PARM
271	(10F)	BITSTRING	6	KAWTXT10	TEXT UNIT 10
277	(115)	BITSTRING	8	KAWTX10D	TEXT UNIT 10 PARM
288	(120)	SIGNED	4	KAWCMLST (4)	CAMLIST FOR OBTAIN
304	(130)	SIGNED	4	(0)	Alignment
304	(130)	CHARACTER	8	KAWEXTNT (0)	Extent start/end absolute addresses
304	(130)	BITSTRING	4	KAWLOLIM	Lower CCcch of extent
308	(134)	BITSTRING	4	KAWUPLIM	Upper CCcch of extent
312	(138)	DBL WORD	8	(0)	DOUBLE WORD FOR DSCB
312	(138)	BITSTRING	148	KAWDSCB	DSCB FROM OBTAIN
312	(138)	X'138'	0	KAWTRKCL	"KAWDSCB,12" TRKCALC WORK AREA
312	(138)	X'138'	0	KAWPURGE	"KAWDSCB,PPLLEN" PURGE PARAMETER LIST
460	(1CC)	SIGNED	4	KAWDEVT (0)	LENGTH OF PARAMETER LIST
461	(1CD)	ADDRESS	1		VERSION OF PARAMETER LIST
462	(1CE)	BITSTRING	2		Flags & reserved
464	(1D0)	ADDRESS	4		ADDRESS OF UCB LIST OR DD NAME
468	(1D4)	ADDRESS	4		NUMBER OF UCBS IN LIST
472	(1D8)	ADDRESS	4		ADDRESS OF RESULT AREA
476	(1DC)	ADDRESS	4		SIZE OF RESULT AREA
480	(1E0)	ADDRESS	4		ADDRESS OF INFO LIST (DEVTYPE INFO=)
480	(1E0)	X'18'	0	KAWDEVTL	"*-KAWDEVT" Length of list form
484	(1E4)	SIGNED	4	(0)	Ensure alignment
484	(1E4)	BITSTRING	1	KAWDEVO	DEVTYPE output area

Comment

----- IOSCAPU MF=(L,KAWCAPU) IOSCAPU PARM LIST  
 MACDATE -01/22/01-<1>

End of Comment

0	(0)	X'1F8'	0	M00M1156	"KAWCAPU" ++ IOSCAPU NAME
504	(1F8)	DBL WORD	8	KAWCAPU (0)	++ IOSCAPU PARM LIST
504	(1F8)	BITSTRING	1	KAWCAPU_XVERSION	++ INPUT XVERSION
505	(1F9)	BITSTRING	1	KAWCAPU_XFLAGS1	++ FIELD_LABEL
		1... ..		KAWCAPU_KEYUSED_CAPTUCB	"B'10000000" ++ KEYUSED.CAPTUCB KEYWORD
		.1.. ....		KAWCAPU_KEYUSED_UCAPTUCB	"B'01000000" ++ KEYUSED.UCAPTUCB KEYWORD
		..1. ....		KAWCAPU_KEYUSED_CAPTOACT	"B'00100000" ++ KEYUSED.CAPTOACT KEYWORD
		...1 ....		KAWCAPU_KEYUSED_ASID	"B'00010000" ++ KEYUSED.ASID KEYWORD
		.... 1...		KAWCAPU_KEYUSED_UCBPTR	"B'00001000" ++ KEYUSED.UCBPTR KEYWORD

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... .1..		KAWCAPU_KEYUSED_CAPTPTR	"B'00000100" ++ KEYUSED.CAPTPTR KEYWORD
506	(1FA)	CHARACTER	2	KAWCAPU_XRESERVED1	++ FIELD_LABEL XRESERVED1
508	(1FC)	ADDRESS	4	KAWCAPU_XUCBPTR	++ XUCBPTR
512	(200)	ADDRESS	4	KAWCAPU_XCAPTPTR	++ XCAPTPTR
516	(204)	CHARACTER	1	KAWCAPU_XRESERVED2	++ FIELD_LABEL XRESERVED2
517	(205)	BITSTRING	1	KAWCAPU_XMASK	++ FIELD_LABEL
		1... ....		KAWCAPU_XMSIFREE_YES	"B'10000000" ++ XMSIFREE.YES KEYWORD
		.1.. ....		KAWCAPU_XLASTING_YES	"B'01000000" ++ XLASTING.YES KEYWORD
		..1. ....		KAWCAPU_XCAPTCOM_YES	"B'00100000" ++ XCAPTCOM.YES KEYWORD
		...1 ....		KAWCAPU_XCAPTCOM_NEVER	"B'00010000" ++ XCAPTCOM.NEVER KEYWORD
518	(206)	BITSTRING	2	KAWCAPU_XASID	++ XASID
520	(208)	CHARACTER	16	KAWCAPU_XRESERVED3	++ FIELD_LABEL XRESERVED3
520	(208)	X'20'	0	KAWCAPUL	**KAWCAPU" ++ LENGTH OF PLIST

Comment

IOSCAPU-1

End of Comment

0	(0)	X'218'	0	KAWALEN	**KAW" LENGTH OF THE KAWA
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Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	OBTM414	, HASP414 parms - obtain error
0	(0)	CHARACTER	8	OBTNFNAM	Checkpoint file name exists if OBTNCK is FF
8	(8)	CHARACTER	44	OBTNDNAM	Dataset name
52	(34)	CHARACTER	6	OBTNVSER	VOLSER NAME
58	(3A)	CHARACTER	4	OBTNCC	Condition code returned from obtain
62	(3E)	BITSTRING	1	OBTNCK	FF denotes checkpoint name has been supplied
62	(3E)	X'3F'	0	OBTMLN	**OBTM414" Length of a HASP414 parms

**\$KAWA Cross Reference**

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
KAW	0		KAWCAPU_KEYUSED_UCAPTUCB	1F9	40
KAWALEN	0	218	KAWCAPU_KEYUSED_UCBPTR	1F9	8
KAWALORT	C		KAWCAPU_XASID	206	
KAWAVER	4		KAWCAPU_XCAPTCOM_NEVER	205	10
KAWAVERN	4	2	KAWCAPU_XCAPTCOM_YES	205	20
KAWBYTRK	2C		KAWCAPU_XCAPTPTR	200	
KAWCAPU	1F8		KAWCAPU_XFLAGS1	1F9	
KAWCAPU_KEYUSED_ASID	1F9	10	KAWCAPU_XLASTING_YES		
KAWCAPU_KEYUSED_CAPTOACT	1F9	20			
KAWCAPU_KEYUSED_CAPTPTR	1F9	4			
KAWCAPU_KEYUSED_CAPTUCB	1F9	80			

## \$KAWA Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
	205	40	KAWTX10D	115	
KAWCAPU_XMASK			KAWUCB	24	
	205		KAWUCBPX	28	
KAWCAPU_XMSIFREE_YES			KAWUPLIM	134	
	205	80	KAW1ALOC	5	80
KAWCAPU_XRESERVED1			KAW1NEW	5	40
	1FA		KAW1OPEN	5	20
KAWCAPU_XRESERVED2			M00M1156	0	1F8
	204		OBTMLEN	3E	3F
KAWCAPU_XRESERVED3			OBTM414	0	
	208		OBTNCC	3A	
KAWCAPU_XUCBPTR			OBTNCK	3E	
	1FC		OBTNDNAM	8	
KAWCAPU_XVERSION			OBTNFNAM	0	
	1F8		OBTNVSER	34	
KAWCAPUL	208	20			
KAWCKG	20				
KAWCMLST	120				
KAWDCBA	10				
KAWDDNAM	14				
KAWDEVO	1E4				
KAWDEVT	1CC	18			
KAWDEVTL	1E0	18			
KAWDSCB	138				
KAWDSN	C0				
KAWEXTNT	130				
KAWFLAG1	5				
KAWLOLIM	130				
KAWOBFCC	30				
KAWPARM	6				
KAWPURGE	138	138			
KAWRB	38				
KAWRBPTR	34				
KAWTOTA	1C				
KAWTRKCL	138	138			
KAWTXP10	70				
KAWTXT	74				
KAWTXTPT	4C				
KAWTXTP1	4C				
KAWTXTP2	50				
KAWTXTP3	54				
KAWTXTP4	58				
KAWTXTP5	5C				
KAWTXTP6	60				
KAWTXTP7	64				
KAWTXTP8	68				
KAWTXTP9	6C				
KAWTXT1	74				
KAWTXT1D	7A				
KAWTXT10	10F				
KAWTXT2	82				
KAWTXT2D	88				
KAWTXT3	90				
KAWTXT3D	96				
KAWTXT4	9E				
KAWTXT4D	A4				
KAWTXT5	AC				
KAWTXT5D	B2				
KAWTXT6	BA				
KAWTXT6D	C0				
KAWTXT7	EC				
KAWTXT7D	F2				
KAWTXT8	FA				
KAWTXT9	101				
KAWTXT9D	107				

---

## \$LMT Heading Information

**Common Name:** Load Module Table  
**Macro ID:** \$LMT  
**DSECT Name:** LMT  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'LMT '  
Offset: LMT- $\$CSBPRFX + \$CSBID$   
Length: 4

**Storage Attributes:** Subpool: 0 (private chain), 241 (CSA chain)  
Key: 1  
Residency: Virtual storage is below 16M and real storage is anywhere (above or below 16M). There are two chains of LMTs. One is in the private storage of the JES2 address space, the other is in CSA.

**Size:** LMTLEN plus standard CSA prefix (CSBPRFX equate in the \$HASPEQU data area) per entry, whether PVT or CSA

**Created by:** \$MODLOAD

**Pointed to by:** Private LMT chain pointers:  
\$LMT1 field of the HCT data area -  
Points to head of chain, which connects also to the CSA chain. This is the only anchor that should be used by LMT search routines.  
\$LMTPBOT field of the HCT data area -  
Points to the last private entry, for internal use by \$MODLOAD only  
-----  
Common LMT chain pointers:  
CCTLMT1 field of the HCCT data area -  
Points to head of CSA chain (middle of composite private/CSA chain).  
\$LMTC field of the HCT data area -  
An HCT copy of the CCTLMT1 value, for internal use by \$MODLOAD only.  
-----  
LMTCHAIN field of the \$LMT data area

**Serialization:** Entries cannot be removed from the chains once added, and should be added in a way that allows multi-tasking references.

**Function:** The LMT contains an entry for each JES2 module loaded via \$MODLOAD. \$MODLOAD adds the entries. \$MODELET invalidates an entry. Invalidation is a 2 step process. First the module is logically deleted (bit LMT2DELT is set). Once it is determined the module can be physically deleted (see MCKDELET for details), then the module is deleted and the LMT invalidated (bit LMT1INVD is set).

## \$LMT Map

There are two LMT chains. One is chained from the HCCT for entries for those modules loaded into common storage. The other has entries for those loaded into private storage and is chained from the HCT. On abnormal termination the common LMTs are not freed. On a hot start the common LMTs are still valid, so only the private LMTs are rebuilt from new LOADMOD initialization parameters.

The LMT chains are built with dynamic storage for each \$MODLOAD call. At any given time the last element in the private LMT chain points to the first in the CSA chain, thereby allowing a single LMT chain loop to access all LMT entries (starting from the HCT anchor).

## \$LMT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	LMT	HASP LOAD MODULE TABLE DSECT
-----					
Comment					
-----					
The following fields are used by internal tools. Do not change the offsets of these fields.					
-----					
End of Comment					
0	(0)	CHARACTER	8	LMTMODNM	LOAD MODULE NAME
8	(8)	ADDRESS	4	LMTMITAD	POINTER TO MIT
12	(C)	SIGNED	4	LMTESIZE (0)	Module subpool and length
12	(C)	BITSTRING	1	LMTSUBPL	Subpool, only if direct Id
13	(D)	ADDRESS	3	LMTMODLN	Module length in all cases
16	(10)	ADDRESS	4	LMTBASEA	ALT. MODULE BASE FOR REP FACIL.
20	(14)	BITSTRING	1	LMTFLG1	FLAG FOR LMT ENTRY
		1... ..		LMT1DIRL	"B'10000000" MODULE DIRECTLY LOADED
		.1.. ..		LMT1CMN	"B'01000000" MODULE LOADED INTO COMMON STOR
		.1. ...		LMT1PVT	"B'00100000" MODULE LOADED INTO PRIVATE
		...1 ...		LMT1INVD	"B'00010000" INVALID LMT ENTRY
		.... 1..		LMT1LOAD	"B'00001000" Loaded via LOADMOD parm stmt or operator command
		.... .1..		LMT1IBM	"B'00000100" THIS IS AN IBM LOAD MODULE
		.... .1.		LMT1BSPL	"B'00000010" Bypass SPLEVEL check
		.... ...1		LMT1OS	"B'00000001" Module is an OS module
21	(15)	BITSTRING	1	LMTFLG2	FLAG 2 FOR LMT ENTRY
		1... ..		LMT2CMNR	"B'10000000" REQUEST FROM LOADMOD STATEMENT TO PLACE MODULE IN COMMON STOR
		.1.. ..		LMT2PVTR	"B'01000000" REQUEST FROM LOADMOD STATEMENT TO PLACE MODULE IN PRIVATE STOR
		..1. ...		LMT2LPAR	"B'00100000" REQUEST FROM LOADMOD STATEMENT TO USE LPA COPY OF MODULE
		...1 ...		LMT2RM24	"B'00010000" Load module was loaded below the line
		.... 1..		LMT2RM31	"B'00001000" Load module was loaded above the line
		.... .1..		LMT2REFR	"B'00000100" Request from LOADMOD to refresh this module
		.... .1.		LMT2DELT	"B'00000010" Module logically deleted (may still be in storage)
		.... ...1		LMT2NDYN	"B'00000001" Module does not support DYNAMIC commands
22	(16)	BITSTRING	1	LMTFLG3	Flag 3 for LMT entry
		1... ..		LMT3DTBL	"B'10000000" Module has dynamic tables
		.1.. ..		LMT3NXRT	"B'01000000" No XRTs for this LMT
		.1. ...		LMT3FDEL	"B'00100000" Force delete the LMT
		...1 ...		LMT3FREE	"B'00010000" Module has been freed
		.... 1..		LMT3MCKD	"B'00001000" \$MODCHK delete succeeded
		.... .1..		LMT3DRNN	"B'00000100" \$\$\$DEL returned RC=4 (do not delete now)
		.... .1.		LMT3DRND	"B'00000010" \$\$\$DEL returned RC=8 (never delete)



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... ...1		LMT3RFIP	"B'00000001" Module was refreshed in place (refreshed LPA module with same copy)
23	(17)	BITSTRING	1		Reserved for future use
24	(18)	ADDRESS	4	LMTCHAIN	CHAIN POINTER TO NEXT LMT

----- Comment -----

-----  
End of fields used by internal tools.  
-----

----- End of Comment -----

28	(1C)	ADDRESS	4	LMTENTRY	Entry addr returned by LOAD
32	(20)	ADDRESS	4	LMTADELR	Additional \$\$\$DEL routine
36	(24)	SIGNED	4		Reserved
40	(28)	DBL WORD	8	LMTTIME	Time LMT was created
48	(30)	DBL WORD	8	LMTTIMDL	Time LMT logically deleted
56	(38)	DBL WORD	8	LMTDRTIM	Time for next \$\$\$DEL call
64	(40)	DBL WORD	8	(0)	Assure LMTLEN DWORD align
64	(40)	X'40'	0	LMTLEN	"*-LMT" LENGTH
64	(40)	X'1'	0	LMTVERSN	"1" VERSION NUMBER OF LMT

**\$LMT Cross Reference**

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
LMT	0		LMT3FREE	16	10
LMTADELR	20		LMT3MCKD	16	8
LMTBASEA	10		LMT3NXRT	16	40
LMTCHAIN	18		LMT3RFIP	16	1
LMTDRTIM	38				
LMTENTRY	1C				
LMTESIZE	C				
LMTFLG1	14				
LMTFLG2	15				
LMTFLG3	16				
LMTLEN	40	40			
LMTMITAD	8				
LMTMODLN	D				
LMTMODNM	0				
LMTSUBPL	C				
LMTTIMDL	30				
LMTTIME	28				
LMTVERSN	40	1			
LMT1BSPL	14	2			
LMT1CMN	14	40			
LMT1DIRL	14	80			
LMT1IBM	14	4			
LMT1INVD	14	10			
LMT1LOAD	14	8			
LMT1OS	14	1			
LMT1PVT	14	20			
LMT2CMNR	15	80			
LMT2DELT	15	2			
LMT2LPAR	15	20			
LMT2NDYN	15	1			
LMT2PVTR	15	40			
LMT2REFR	15	4			
LMT2RM24	15	10			
LMT2RM31	15	8			
LMT3DRND	16	2			
LMT3DRNN	16	4			
LMT3DTBL	16	80			
LMT3FDEL	16	20			

## \$LMT Cross Reference

## \$MCT Programming Interface information

Programming Interface information

### \$MCT

**ONLY** the following fields are part of the programming interface information:

- |            |            |            |            |
|------------|------------|------------|------------|
| • MCTAPLTU | • MCTJQETU | • MCTOPTTU | • MCTRPRTU |
| • MCTBADTU | • MCTJRWTU | • MCTOPYTU | • MCTRPUTU |
| • MCTBFHTU | • MCTJSPTU | • MCTOSMTU | • MCTRQJIU |
| • MCTBFXTU | • MCTJTWU  | • MCTOSRTU | • MCTRRDTU |
| • MCTBRTTU | • MCTKPNTU | • MCTOSTTU | • MCTSAWTU |
| • MCTBSCTU | • MCTLINTU | • MCTOTPTU | • MCTSBDTU |
| • MCTBUFTU | • MCTLJRTU | • MCTOUTTU | • MCTSCTTU |
| • MCTCATTU | • MCTLJTTU | • MCTPARTU | • MCTSEPTU |
| • MCTCKLTU | • MCTLJWTU | • MCTPCCTU | • MCTSMFTU |
| • MCTCKTTU | • MCTLNETU | • MCTPCDTU | • MCTSNATU |
| • MCTCNDTU | • MCTLODTU | • MCTPCETU | • MCTSPDTU |
| • MCTCOMTU | • MCTLOGTU | • MCTPCNTU | • MCTSPLTU |
| • MCTCONTU | • MCTLOTTU | • MCTPCRTU | • MCTSRWTU |
| • MCTDCTTU | • MCTLSRTU | • MCTPDDTU | • MCTSSITU |
| • MCTDESTU | • MCTLSTTU | • MCTPITTU | • MCTSTATU |
| • MCTDSTTU | • MCTLSWTU | • MCTPRLTU | • MCTSTCTU |
| • MCTDTETU | • MCTMASTU | • MCTPRTTU | • MCTSTWTU |
| • MCTEBYTU | • MCTMEMTU | • MCTPRWTU | • MCTSTYTU |
| • MCTEKNTU | • MCTMGU   | • MCTPTDTU | • MCTSUBTU |
| • MCTELCTU | • MCTMODTU | • MCTPHTU  | • MCTTGLTU |
| • MCTEPGTU | • MCTMPSTU | • MCTPUDTU | • MCTTGSTU |
| • MCTEPNTU | • MCTNAUTU | • MCTPUNTU | • MCTTIDTU |
| • MCTERRTU | • MCTNDPTU | • MCTPUWTU | • MCTTLGTU |
| • MCTETMTU | • MCTNETTU | • MCTRAUTU | • MCTTPDTU |
| • MCTFENTU | • MCTNJETU | • MCTRCNTU | • MCTTRCTU |
| • MCTFSSTU | • MCTNODTU | • MCTRCVTU | • MCTTRITU |
| • MCTHDRTU | • MCTOFFTU | • MCTRDITU | • MCTTSUTU |
| • MCTIAUTU | • MCTOFLTU | • MCTRDRTU | • MCTVIATU |
| • MCTINCTU | • MCTOJMTU | • MCTRDTTU | • MCTVKPTU |
| • MCTINRTU | • MCTOJRTU | • MCTRDVTU | • MCTVLTTU |
| • MCTJOBTU | • MCTOJTTU | • MCTREDTU | • MCTVUNTU |
| • MCTJPYTU | • MCTOPDTU | • MCTRMTTU | • MCTXITTU |

End of Programming Interface information

## \$MCT Heading Information

**Common Name:** HASP Master Control Table  
**Macro ID:** \$MCT  
**DSECT Name:** MCT  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: Part of the HASJES20 load module  
 Key: 1  
 Residency: Part of the HASJES20 load module in the JES2 address space.  
**Size:** See field MCTLEN  
**Created by:** Load of module HASJES20.  
**Pointed to by:** \$MCT field of the \$HCT data area  
**Serialization:** None required.  
**Function:** The master control table contains pointers to table pairs within JES2.

The naming convention for tables and table pairs is as follows:

Select a unique three character id for the entity (for example ZZZ).

The MCT fields are:

MCTZZZTP - Label for the table pair

MCTZZZTU - Label for the USER table

MCTZZZTH - Label for the JES2 (HASP) table

MCTZZZTD - Label for dynamic table list

The VCONS (and weak externals for user tables) are:

USERZZZT - Label for the USER table and WXTRN

HASPZZZT - Label for the JES2 (HASP) table

User table addresses can be placed in the \$MCT either by an exit routine storing the address into field MCTZZZTU or by the user table being named USERZZZT and being link-edited with the HASJES20 load module.

Dynamic tables can be placed in the \$MCT via the \$PUTABLE service, which is called automatically when a load module containing dynamic tables is processed by the JES2 LOAD initialization statement.

## \$MCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MCT	HASP MASTER CONSOLE TABLE

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
\$GETABLE TABLE-PAIRS, AND ASSOCIATED TABLE ACCESS ROUTINES.					
End of Comment					
0	(0)	ADDRESS	4	MCTPCETP (0)	\$PCETAB table pair
0	(0)	ADDRESS	4	MCTPCETU	"V(USERPCET)" User table
4	(4)	ADDRESS	4	MCTPCETH	"V(HASPPCET)" HASP table
8	(8)	ADDRESS	4	MCTPCETD	Dynamic table array
12	(C)	ADDRESS	4	MCTDCTTP (0)	\$DCTTAB table pair
12	(C)	ADDRESS	4	MCTDCTTU	"V(USERDCTT)" User table
16	(10)	ADDRESS	4	MCTDCTTH	"V(HASPDCTT)" HASP table
20	(14)	ADDRESS	4	MCTDCTTD	Dynamic table array
24	(18)	ADDRESS	4	MCTDTETP (0)	\$DTETAB table pair
24	(18)	ADDRESS	4	MCTDTETU	"V(USERDTET)" User table
28	(1C)	ADDRESS	4	MCTDTETH	"V(HASPDTE)" HASP table
32	(20)	ADDRESS	4	MCTDTETD	Dynamic table array
36	(24)	ADDRESS	4	MCTRDTP (0)	\$RDRTAB table pair
36	(24)	ADDRESS	4	MCTRDTTU	"V(USERRDTT)" User table
40	(28)	ADDRESS	4	MCTRDTH	"V(HASPRDTT)" HASP table
44	(2C)	ADDRESS	4	MCTRDTTD	Dynamic table array
48	(30)	ADDRESS	4	MCTTIDTP (0)	\$TIDTAB table pair
48	(30)	ADDRESS	4	MCTTIDTU	"V(USERTIDT)" User table
52	(34)	ADDRESS	4	MCTTIDTH	"V(HASPTIDT)" HASP table
56	(38)	ADDRESS	4	MCTTIDTD	Dynamic table array
60	(3C)	ADDRESS	4	MCTPCRTP (0)	\$PCTAB table pair
60	(3C)	ADDRESS	4	MCTPCRTU	"V(USERPCRT)" User table
64	(40)	ADDRESS	4	MCTPCRTH	"V(HASPPCRT)" HASP table
68	(44)	ADDRESS	4	MCTPCRTD	Dynamic table array
72	(48)	ADDRESS	4	MCTBRTP (0)	\$BERTTAB table pair
72	(48)	ADDRESS	4	MCTBRTTU	"V(USERBRTT)" User table
76	(4C)	ADDRESS	4	MCTBRTH	"V(HASPBRTT)" HASP table
80	(50)	ADDRESS	4	MCTBRSTD	Dynamic table array

Comment

\$SCAN FACILITY PRIMARY HASP/USER TABLE PAIRS - TABLE PAIRS FOR THE INITIALIZATION OPTIONS AND FOR PARAMETERS STMTS.

End of Comment					
84	(54)	ADDRESS	4	MCTOPTTP (0)	HASP OPTIONS \$SCAN TABLE
84	(54)	ADDRESS	4	MCTOPTTU	"V(USEROPTT)" User table
88	(58)	ADDRESS	4	MCTOPTTH	"V(HASPOPTT)" HASP table
92	(5C)	ADDRESS	4	MCTOPTTD	Dynamic table array
96	(60)	ADDRESS	4	MCTMPSTP (0)	HASP MAIN-PARM-STMT TABLE
96	(60)	ADDRESS	4	MCTMPSTU	"V(USERMPST)" User table
100	(64)	ADDRESS	4	MCTMPSTH	"V(HASMPST)" HASP table
104	(68)	ADDRESS	4	MCTMPSTD	Dynamic table array
108	(6C)	ADDRESS	4	MCTMGTP (0)	HASP MSG-GEN TABLE PAIR
108	(6C)	ADDRESS	4	MCTMGTU	"V(USERMGST)" User table
112	(70)	ADDRESS	4	MCTMGTH	"V(HASPMGST)" HASP table
116	(74)	ADDRESS	4	MCTMGTD	Dynamic table array

Comment

\$SCAN FACILITY HASP/USER TABLE PAIRS FOR SUBSCANNING OF DEVICE RELATED PARAMETER STATEMENTS.

End of Comment					
120	(78)	ADDRESS	4	MCTINRTP (0)	INTRDR PARM-STMT SUBSCAN
120	(78)	ADDRESS	4	MCTINRTU	"V(USERINRT)" User table
124	(7C)	ADDRESS	4	MCTINRTH	"V(HASPINRT)" HASP table
128	(80)	ADDRESS	4	MCTINRTD	Dynamic table array

## \$MCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
132	(84)	ADDRESS	4	MCTLNETP (0)	LINENNNN PARM-STMT SUBSCAN
132	(84)	ADDRESS	4	MCTLNETU	"V(USERLNET)" User table
136	(88)	ADDRESS	4	MCTLNETH	"V(HASPLNET)" HASP table
140	(8C)	ADDRESS	4	MCTLNETD	Dynamic table array
144	(90)	ADDRESS	4	MCTLTRTP (0)	LINEnnnn TRACE KEYWORD SUBSCAN
144	(90)	ADDRESS	4	MCTLTRTU	"V(USERLTRT)" User table
148	(94)	ADDRESS	4	MCTLTRTH	"V(HASPLTRT)" HASP table
152	(98)	ADDRESS	4	MCTLTRTD	Dynamic table array
156	(9C)	ADDRESS	4	MCTLINTP (0)	Ln.DVn PARM-STMT SUBSCAN
156	(9C)	ADDRESS	4	MCTLINTU	"V(USERLINT)" User table
160	(A0)	ADDRESS	4	MCTLINTH	"V(HASPLINT)" HASP table
164	(A4)	ADDRESS	4	MCTLINTD	Dynamic table array
168	(A8)	ADDRESS	4	MCTLJRTP (0)	Ln.JR PARM-STMT SUBSCAN
168	(A8)	ADDRESS	4	MCTLJRTU	"V(USERLJRT)" User table
172	(AC)	ADDRESS	4	MCTLJRTH	"V(HASPLJRT)" HASP table
176	(B0)	ADDRESS	4	MCTLJRTD	Dynamic table array
180	(B4)	ADDRESS	4	MCTLJTTP (0)	Ln.JT PARM-STMT SUBSCAN
180	(B4)	ADDRESS	4	MCTLJTU	"V(USERLJTT)" User table
184	(B8)	ADDRESS	4	MCTLJTTH	"V(HASPLJTT)" HASP table
188	(BC)	ADDRESS	4	MCTLJTTD	Dynamic table array
192	(C0)	ADDRESS	4	MCTLSRTP (0)	Ln.SR PARM-STMT SUBSCAN
192	(C0)	ADDRESS	4	MCTLSRTU	"V(USERLSRT)" User table
196	(C4)	ADDRESS	4	MCTLSRTH	"V(HASPLSRT)" HASP table
200	(C8)	ADDRESS	4	MCTLSRTD	Dynamic table array
204	(CC)	ADDRESS	4	MCTLSTTP (0)	Ln.ST PARM-STMT SUBSCAN
204	(CC)	ADDRESS	4	MCTLSTTU	"V(USERLSTT)" User table
208	(D0)	ADDRESS	4	MCTLSTTH	"V(HASPLSTT)" HASP table
212	(D4)	ADDRESS	4	MCTLSTTD	Dynamic table array
216	(D8)	ADDRESS	4	MCTLOGTP (0)	LOGONN PARM-STMT SUBSCAN
216	(D8)	ADDRESS	4	MCTLOGTU	"V(USERLOGT)" User table
220	(DC)	ADDRESS	4	MCTLOGTH	"V(HASPLOGT)" HASP table
224	(E0)	ADDRESS	4	MCTLOGTD	Dynamic table array
228	(E4)	ADDRESS	4	MCTOFLTP (0)	OFFLOADN PARM-STMT SUBSCAN PAIR
228	(E4)	ADDRESS	4	MCTOFLTU	"V(USEROFLT)" User table
232	(E8)	ADDRESS	4	MCTOFLTH	"V(HASPOFLT)" HASP table
236	(EC)	ADDRESS	4	MCTOFLTD	Dynamic table array
240	(F0)	ADDRESS	4	MCTOFFTP (0)	OFFN.DV PARM-STMT SUBSCAN PAIR
240	(F0)	ADDRESS	4	MCTOFFTU	"V(USEROFFT)" User table
244	(F4)	ADDRESS	4	MCTOFFTH	"V(HASPOFFT)" HASP table
248	(F8)	ADDRESS	4	MCTOFFTD	Dynamic table array
252	(FC)	ADDRESS	4	MCTOJRTP (0)	OFFN.JR PARM-STMT SUBSCAN PAIR
252	(FC)	ADDRESS	4	MCTOJRTH	"V(USEROJRT)" User table
256	(100)	ADDRESS	4	MCTOJRTH	"V(HASPOJRT)" HASP table
260	(104)	ADDRESS	4	MCTOJRTH	Dynamic table array
264	(108)	ADDRESS	4	MCTOJTTP (0)	OFFN.JT PARM-STMT SUBSCAN PAIR
264	(108)	ADDRESS	4	MCTOJTU	"V(USEROJTT)" User table
268	(10C)	ADDRESS	4	MCTOJTTH	"V(HASPOJTT)" HASP table
272	(110)	ADDRESS	4	MCTOJTTD	Dynamic table array
276	(114)	ADDRESS	4	MCTOSRTP (0)	OFFN.SR PARM-STMT SUBSCAN PAIR
276	(114)	ADDRESS	4	MCTOSRTU	"V(USEROSRT)" User table
280	(118)	ADDRESS	4	MCTOSRTH	"V(HASPOSRT)" HASP table
284	(11C)	ADDRESS	4	MCTOSRTD	Dynamic table array
288	(120)	ADDRESS	4	MCTOSTTP (0)	OFFN.ST PARM-STMT SUBSCAN PAIR
288	(120)	ADDRESS	4	MCTOSTTU	"V(USEROSTT)" User table
292	(124)	ADDRESS	4	MCTOSTTH	"V(HASPOSTT)" HASP table
296	(128)	ADDRESS	4	MCTOSTTD	Dynamic table array
300	(12C)	ADDRESS	4	MCTPRTP (0)	PRINTERNN PARM-STMT SUBSCAN
300	(12C)	ADDRESS	4	MCTPRTTU	"V(USERPRTT)" User table
304	(130)	ADDRESS	4	MCTPRTTH	"V(HASPPRTT)" HASP table
308	(134)	ADDRESS	4	MCTPRTTD	Dynamic table array
312	(138)	ADDRESS	4	MCTPRLTP (0)	PROCLIB(nnnnnnnn) PARM-STMT SUBSCAN
312	(138)	ADDRESS	4	MCTPRLTU	"V(USERPRLT)" User table
316	(13C)	ADDRESS	4	MCTPRLTH	"V(HASPPRLT)" HASP table
320	(140)	ADDRESS	4	MCTPRLTD	Dynamic table array

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
324	(144)	ADDRESS	4	MCTPUNTP (0)	PUNCHNN PARM-STMT SUBSCAN
324	(144)	ADDRESS	4	MCTPUNTU	"V(USERPUNT)" User table
328	(148)	ADDRESS	4	MCTPUNTH	"V(HASPPUNT)" HASP table
332	(14C)	ADDRESS	4	MCTPUNTD	Dynamic table array
336	(150)	ADDRESS	4	MCTRDITP (0)	RDI PARM-STMT SUBSCAN PAIR
336	(150)	ADDRESS	4	MCTRDITU	"V(USERRDIT)" User table
340	(154)	ADDRESS	4	MCTRDITH	"V(HASPRDIT)" HASP table
344	(158)	ADDRESS	4	MCTRDITD	Dynamic table array
348	(15C)	ADDRESS	4	MCTRD RTP (0)	READERNN PARM-STMT SUBSCAN
348	(15C)	ADDRESS	4	MCTRDRTU	"V(USERRDRT)" User table
352	(160)	ADDRESS	4	MCTRD RTH	"V(HASPRDRT)" HASP table
356	(164)	ADDRESS	4	MCTRD R TD	Dynamic table array
360	(168)	ADDRESS	4	MCTRQJTP (0)	REQJOBID PARM-STMT SUBSCAN
360	(168)	ADDRESS	4	MCTRQJTU	"V(USERRQJT)" User table
364	(16C)	ADDRESS	4	MCTRQJTH	"V(HASPRQJT)" HASP table
368	(170)	ADDRESS	4	MCTRQJTD	Dynamic table array
372	(174)	ADDRESS	4	MCTRDVTP (0)	RNNNNDVX PARM-STMT SUBSCAN PAIR
372	(174)	ADDRESS	4	MCTRDVTU	"V(USERRDVT)" User table
376	(178)	ADDRESS	4	MCTRDVTH	"V(HASPRDVT)" HASP table
380	(17C)	ADDRESS	4	MCTRDVTD	Dynamic table array
384	(180)	ADDRESS	4	MCTRP RTP (0)	RNNNNPRX PARM-STMT SUBSCAN
384	(180)	ADDRESS	4	MCTRP RTU	"V(USERRPRT)" User table
388	(184)	ADDRESS	4	MCTRP RTH	"V(HASPRPRT)" HASP table
392	(188)	ADDRESS	4	MCTRP R TD	Dynamic table array
396	(18C)	ADDRESS	4	MCTRP PUTP (0)	RNNNNPUX PARM-STMT SUBSCAN
396	(18C)	ADDRESS	4	MCTRP PUTU	"V(USERRPUT)" User table
400	(190)	ADDRESS	4	MCTRP PUTH	"V(HASPRPUT)" HASP table
404	(194)	ADDRESS	4	MCTRP PUTD	Dynamic table array
408	(198)	ADDRESS	4	MCTRRDTP (0)	RNNNNRDX PARM-STMT SUBSCAN
408	(198)	ADDRESS	4	MCTRRD TU	"V(USERRRDT)" User table
412	(19C)	ADDRESS	4	MCTRRD TH	"V(HASPRRDT)" HASP table
416	(1A0)	ADDRESS	4	MCTRRD TD	Dynamic table array
420	(1A4)	ADDRESS	4	MCTRCNTP (0)	RNNNNCN PARM-STMT SUBSCAN
420	(1A4)	ADDRESS	4	MCTRCNTU	"V(USERRCNT)" User table
424	(1A8)	ADDRESS	4	MCTRCNTH	"V(HASPRCNT)" HASP table
428	(1AC)	ADDRESS	4	MCTRCNTD	Dynamic table array
432	(1B0)	ADDRESS	4	MCTSUBTP (0)	SUBNET PARM-STMT SUBSCAN
432	(1B0)	ADDRESS	4	MCTSUBTU	"V(USERSUBT)" User table
436	(1B4)	ADDRESS	4	MCTSUBTH	"V(HASPSUBT)" HASP table
440	(1B8)	ADDRESS	4	MCTSUBTD	Dynamic table array
444	(1BC)	ADDRESS	4	MCTNSVTP (0)	NETSRV PARM-STMT SUBSCAN
444	(1BC)	ADDRESS	4	MCTNSVTU	"V(USERN SVT)" User table
448	(1C0)	ADDRESS	4	MCTNSVTH	"V(HASPNSVT)" HASP table
452	(1C4)	ADDRESS	4	MCTNSVTD	Dynamic table array
456	(1C8)	ADDRESS	4	MCTNTRTP (0)	NETSRVnnn TRACE KEYWORD SUBSCAN
456	(1C8)	ADDRESS	4	MCTNTRTU	"V(USERNTRT)" User table
460	(1CC)	ADDRESS	4	MCTNTRTH	"V(HASPNTRT)" HASP table
464	(1D0)	ADDRESS	4	MCTNTRTD	Dynamic table array
468	(1D4)	ADDRESS	4	MCTSOKTP (0)	SOCKET PARM-STMT SUBSCAN
468	(1D4)	ADDRESS	4	MCTSOKTU	"V(USERSOKT)" User table
472	(1D8)	ADDRESS	4	MCTSOKTH	"V(HASPSOKT)" HASP table
476	(1DC)	ADDRESS	4	MCTSOKTD	Dynamic table array
480	(1E0)	ADDRESS	4	(3)	Reserved for future use

Comment

\$SCAN FACILITY HASP TABLE FOR SUBSCANNING OF VECTOR TYPE  
PARAMETER STATEMENTS.

End of Comment

492	(1EC)	ADDRESS	4	MCTAD RTP (0)	BAD TRACK ADDRESS OPERAND VECTR
492	(1EC)	ADDRESS	4	MCTADRTH	"V(HASPVADR)" HASP VECTOR table
496	(1F0)	ADDRESS	4	MCTVTMTP (0)	TIME OPERAND VECTOR
496	(1F0)	ADDRESS	4	MCTVTMTH	"V(HASPVTIM)" HASP VECTOR table

## \$MCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
500	(1F4)	ADDRESS	4	MCTAUTTP (0)	AUTHORITY OPERAND VECTOR
500	(1F4)	ADDRESS	4	MCTAUTTH	"V(HASPVAUT)" HASP VECTOR table
504	(1F8)	ADDRESS	4	MCTMSGTP (0)	MESSAGE OPERAND VECTOR
504	(1F8)	ADDRESS	4	MCTMSGTH	"V(HASPVMSG)" HASP VECTOR table
508	(1FC)	ADDRESS	4	MCTCHRTP (0)	CHARACTER OPERAND VECTOR
508	(1FC)	ADDRESS	4	MCTCHRTH	"V(HASPVCHR)" HASP VECTOR table
512	(200)	ADDRESS	4	MCTXRTP (0)	ROUTINE OPERAND VECTOR
512	(200)	ADDRESS	4	MCTXRTH	"V(HASPVXRT)" HASP VECTOR table
516	(204)	ADDRESS	4	MCTJRNT (0)	JOB RANGE OPERAND VECTOR (INIT)
516	(204)	ADDRESS	4	MCTJRNTH	"V(HASPVJRN)" HASP VECTOR table
520	(208)	ADDRESS	4	MCTRANTP (0)	JOB RANGE OPERAND VECTOR(\$T/\$D)
520	(208)	ADDRESS	4	MCTRANTH	"V(HASPVJBR)" HASP VECTOR table
524	(20C)	ADDRESS	4	MCTDRMTP (0)	DORMANCY OPERAND VECTOR
524	(20C)	ADDRESS	4	MCTDRMTH	"V(HASPVDRM)" HASP VECTOR table
528	(210)	ADDRESS	4	MCTRNGTP (0)	RANGE OPERAND VECTOR
528	(210)	ADDRESS	4	MCTRNGTH	"V(HASPV RNG)" HASP VECTOR table
532	(214)	ADDRESS	4	MCTRN2TP (0)	RANGE OPERAND VECTOR 2
532	(214)	ADDRESS	4	MCTRN2TH	"V(HASPV RN2)" HASP VECTOR table
536	(218)	ADDRESS	4	MCTPRCTP (0)	ROUTE CODE OPERAND VECTOR
536	(218)	ADDRESS	4	MCTPRCTH	"V(HASPVPRC)" HASP VECTOR table
540	(21C)	ADDRESS	4	MCTSAFTP (0)	SYSTEM AFFINITY OPERAND VECTOR
540	(21C)	ADDRESS	4	MCTSAFTH	"V(HASPVSAF)" HASP VECTOR table
544	(220)	ADDRESS	4	MCTVOLTP (0)	VOLUME OPERAND VECTOR
544	(220)	ADDRESS	4	MCTVOLTH	"V(HASPVVOL)" HASP VECTOR table
548	(224)	ADDRESS	4	MCTFRMTP (0)	FORMS OPERAND VECTOR
548	(224)	ADDRESS	4	MCTFRMTH	"V(HASPVFRM)" HASP VECTOR table
552	(228)	ADDRESS	4	MCTPPRTP (0)	PRMODE OPERAND VECTOR
552	(228)	ADDRESS	4	MCTPPRTH	"V(HASPVPPR)" HASP VECTOR table
556	(22C)	ADDRESS	4	MCTLIMTP (0)	LIMIT OPERAND VECTOR
556	(22C)	ADDRESS	4	MCTLIMTH	"V(HASPV LIM)" HASP VECTOR table
560	(230)	ADDRESS	4	MCTMSMTP (0)	MODULE ASSEMBLE= VECTOR
560	(230)	ADDRESS	4	MCTMSMTH	"V(HASPVMSMT)" HASP VECTOR table
564	(234)	ADDRESS	4	MCTPLMTP (0)	PLIM OPERAND VECTOR
564	(234)	ADDRESS	4	MCTPLMTH	"V(HASPVPLM)" HASP VECTOR table
568	(238)	ADDRESS	4	MCTOUNTP (0)	OFFLOAD UNIT= OPERAND
568	(238)	ADDRESS	4	MCTOUNTH	"V(HASPOUNT)" HASP VECTOR table
572	(23C)	ADDRESS	4	MCTVWSTP (0)	WS OPERAND VECTOR
572	(23C)	ADDRESS	4	MCTVWSTH	"V(HASPVWST)" HASP VECTOR table
576	(240)	ADDRESS	4	MCTVOSTP (0)	OUTDISP OPERAND VECTOR
576	(240)	ADDRESS	4	MCTVOSTH	"V(HASPVODS)" HASP VECTOR table
580	(244)	ADDRESS	4	MCTVOJTP (0)	OUTDISP OPERAND
580	(244)	ADDRESS	4	MCTVOJTH	"V(HASPVODJ)" HASP VECTOR table
584	(248)	ADDRESS	4	MCTVSRTP (0)	OUTDISP OPERAND VECTOR
584	(248)	ADDRESS	4	MCTVSRTH	"V(HASPVOSR)" HASP VECTOR table
588	(24C)	ADDRESS	4	MCTVSTTP (0)	OUTDISP OPERAND VECTOR
588	(24C)	ADDRESS	4	MCTVSTTH	"V(HASPVOST)" HASP VECTOR table
592	(250)	ADDRESS	4	MCTVSFTP (0)	RDRnn SYSAFF=OPERAND VECTOR
592	(250)	ADDRESS	4	MCTVSFTH	"V(HASVRSFT)" HASP VECTOR table
596	(254)	ADDRESS	4	MCTVWSAP (0)	SRVCLASS ACTIVE= OPERAND VECTOR
596	(254)	ADDRESS	4	MCTVWSAH	"V(HASVWSAP)" HASP VECTOR table
600	(258)	ADDRESS	4	MCTVCATP (0)	JOBCLASS ACTIVE= operand vector
600	(258)	ADDRESS	4	MCTVCATH	"V(HASPCATP)" HASP VECTOR table
604	(25C)	ADDRESS	4	MCTVSSTP (0)	SPOOL SYSAFF=OPERAND VECTOR
604	(25C)	ADDRESS	4	MCTVSSTH	"V(HASVRSST)" HASP VECTOR table
608	(260)	ADDRESS	4	MCTVISTP (0)	SPOOL INIT SYSAFF=operand Vector
608	(260)	ADDRESS	4	MCTVISTH	"V(HASVISAFF)" HASP VECTOR table
612	(264)	ADDRESS	4	MCTVJCTP (0)	JOBnn CMDAUTH= VECTOR
612	(264)	ADDRESS	4	MCTVJCTH	"V(HASVJCMT)" HASP VECTOR table
616	(268)	ADDRESS	4	MCTVJSTP (0)	JOBnn SYSAFF=OPERAND VECTOR
616	(268)	ADDRESS	4	MCTVJSTH	"V(HASVJSFT)" HASP VECTOR table
620	(26C)	ADDRESS	4	MCTVJOF (0)	JOBnn OFFS= OPERAND VECTOR
620	(26C)	ADDRESS	4	MCTVJOFT	"V(HASVJOFT)" HASP VECTOR table
624	(270)	ADDRESS	4	MCTVSOFP (0)	OUTPUT OFFS= OPERAND VECTOR
624	(270)	ADDRESS	4	MCTVSOFH	"V(HASVSOFT)" HASP VECTOR table



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
628	(274)	ADDRESS	4	MCTVVUDP (0)	SPOOL UNITDATA TRKRANGE
628	(274)	ADDRESS	4	MCTVVUDH	"V(HASPVUDT)" HASP VECTOR table
632	(278)	ADDRESS	4	MCTVJVLP (0)	JOBnnn VOLUMES= vector
632	(278)	ADDRESS	4	MCTVJVLH	"V(HASPVJVT)" HASP VECTOR table
636	(27C)	ADDRESS	4	MCTVJABP (0)	JOBnnn ABEND= vector
636	(27C)	ADDRESS	4	MCTVJABH	"V(HASPVABT)" HASP VECTOR table
640	(280)	ADDRESS	4	MCTVOJLP (0)	JESLOG OPERAND
640	(280)	ADDRESS	4	MCTVOJLH	"V(HASPVJL)" HASP VECTOR table
644	(284)	ADDRESS	4	MCTDVRTP (0)	LINEn/LOGONn/NETSRVn RESTART KEYWORD SUBSCAN
644	(284)	ADDRESS	4	MCTDVRTH	"V(HASPV DVR)" HASP VECTOR table
648	(288)	ADDRESS	4	MCTLNCTP (0)	LINEnnnnn CONNECT KEYWORD SUBSCAN
648	(288)	ADDRESS	4	MCTLNCTH	"V(HASPV LNC)" HASP VECTOR table
652	(28C)	ADDRESS	4	MCTSKCTP (0)	SOCKET CONNECT KEYWORD SUBSCAN
652	(28C)	ADDRESS	4	MCTSKCTH	"V(HASPV SKC)" HASP VECTOR table
656	(290)	ADDRESS	4	MCTSPSTP (0)	SPOOL SPACE= subparm
656	(290)	ADDRESS	4	MCTSPSTH	"V(HASPV SPS)" HASP VECTOR table
660	(294)	ADDRESS	4	MCTAPCTP (0)	APPL CONNECT KEYWORD SUBSCAN
660	(294)	ADDRESS	4	MCTAPCTH	"V(HASPV APC)" HASP VECTOR table
664	(298)	ADDRESS	4	MCTNJCTP (0)	NJEDEF CONNECT KEYWORD SUBSCAN
664	(298)	ADDRESS	4	MCTNJCTH	"V(HASPV NJC)" HASP VECTOR table
668	(29C)	ADDRESS	4	MCTNOCTP (0)	NODEnnnnn CONNECT KEYWORD SUBSCAN
668	(29C)	ADDRESS	4	MCTNOCTH	"V(HASPV NOC)" HASP VECTOR table
672	(2A0)	ADDRESS	4		Reserved for future use
676	(2A4)	ADDRESS	4		Reserved for future use
680	(2A8)	ADDRESS	4		Reserved for future use
684	(2AC)	ADDRESS	4		Reserved for future use

Comment

\$SCAN FACILITY HASP/USER TABLE PAIRS FOR SUBSCANNING OF MISCELLANEOUS PARAMETER STATEMENTS.

End of Comment

688	(2B0)	ADDRESS	4	MCTACTTP (0)	ACTRMT statement table pair
688	(2B0)	ADDRESS	4	MCTACTTU	"V(USERACTT)" User table
692	(2B4)	ADDRESS	4	MCTACTTH	"V(HASPACTT)" HASP table
696	(2B8)	ADDRESS	4	MCTACTTD	Dynamic table array
700	(2BC)	ADDRESS	4	MCTAPLTP (0)	APPL PARM-STMT SUBSCAN
700	(2BC)	ADDRESS	4	MCTAPLTU	"V(USERAPLT)" User table
704	(2C0)	ADDRESS	4	MCTAPLTH	"V(HASPAPLT)" HASP table
708	(2C4)	ADDRESS	4	MCTAPLTD	Dynamic table array
712	(2C8)	ADDRESS	4	MCTBADTP (0)	BADTRACK PARM-STMT SUBSCAN
712	(2C8)	ADDRESS	4	MCTBADTU	"V(USERBADT)" User table
716	(2CC)	ADDRESS	4	MCTBADTH	"V(HASPBADT)" HASP table
720	(2D0)	ADDRESS	4	MCTBADTD	Dynamic table array
724	(2D4)	ADDRESS	4	MCTBUFTP (0)	BUFDEF PARM-STMT SUBSCAN PAIR
724	(2D4)	ADDRESS	4	MCTBUFTU	"V(USERBUFT)" User table
728	(2D8)	ADDRESS	4	MCTBUFTH	"V(HASPBUFF)" HASP table
732	(2DC)	ADDRESS	4	MCTBUFTD	Dynamic table array
736	(2E0)	ADDRESS	4	MCTBFHTP (0)	BUFDEF BELOWBUF SUBSCAN PR
736	(2E0)	ADDRESS	4	MCTBFHTU	"V(USERBFHT)" User table
740	(2E4)	ADDRESS	4	MCTBFHTH	"V(HASPBHFT)" HASP table
744	(2E8)	ADDRESS	4	MCTBFHTD	Dynamic table array
748	(2EC)	ADDRESS	4	MCTBFXTP (0)	BUFDEF ABOVEBUF SUBSCAN PR
748	(2EC)	ADDRESS	4	MCTBFXTU	"V(USERBFXT)" User table
752	(2F0)	ADDRESS	4	MCTBFXTH	"V(HASPBFXT)" HASP table
756	(2F4)	ADDRESS	4	MCTBFXTD	Dynamic table array
760	(2F8)	ADDRESS	4	MCTBSCTP (0)	TPDEF BSC SUBSCAN PAIR
760	(2F8)	ADDRESS	4	MCTBSCTU	"V(USERBSCT)" User table
764	(2FC)	ADDRESS	4	MCTBSCTH	"V(HASPBSCT)" HASP table
768	(300)	ADDRESS	4	MCTBSCTD	Dynamic table array
772	(304)	ADDRESS	4	MCTSNATP (0)	TPDEF SNA SUBSCAN PAIR
772	(304)	ADDRESS	4	MCTSNATU	"V(USERSNAT)" User table
776	(308)	ADDRESS	4	MCTSNATH	"V(HASPSNAT)" HASP table

## \$MCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
780	(30C)	ADDRESS	4	MCTSNATD	Dynamic table array
784	(310)	ADDRESS	4	MCTSESTP (0)	TPDEF SESSIONS= subscan
784	(310)	ADDRESS	4	MCTSESTU	"V(USERSEST)" User table
788	(314)	ADDRESS	4	MCTSESTH	"V(HASPSEST)" HASP table
792	(318)	ADDRESS	4	MCTSESTD	Dynamic table array
796	(31C)	ADDRESS	4	MCTJCXTP (0)	JOBCLASS XEQCOUNT= subscan
796	(31C)	ADDRESS	4	MCTJCXTU	"V(USERJCXT)" User table
800	(320)	ADDRESS	4	MCTJCXTH	"V(HASPJCXT)" HASP table
804	(324)	ADDRESS	4	MCTJCXTD	Dynamic table array
808	(328)	ADDRESS	4	MCTJCCTP (0)	JOB CC (completion code)
808	(328)	ADDRESS	4	MCTJCCTU	"V(USERJCCT)" User table
812	(32C)	ADDRESS	4	MCTJCCTH	"V(HASPJCCT)" HASP table
816	(330)	ADDRESS	4	MCTJCCTD	Dynamic table array
820	(334)	ADDRESS	4	MCTCATT (0)	JOB CLASS PARM-STMTS SUBSCAN
820	(334)	ADDRESS	4	MCTCATTU	"V(USERCATT)" User table
824	(338)	ADDRESS	4	MCTCATTH	"V(HASPCATT)" HASP table
828	(33C)	ADDRESS	4	MCTCATTD	Dynamic table array
832	(340)	ADDRESS	4	MCTVXMT (0)	JOBCLASS XEQMEMBER= SUBSCAN
832	(340)	ADDRESS	4	MCTVXMTU	"V(USERVXMT)" User table
836	(344)	ADDRESS	4	MCTVXMTH	"V(HASPMXMT)" HASP table
840	(348)	ADDRESS	4	MCTVXMTH	Dynamic table array
844	(34C)	ADDRESS	4	MCTCKTTP (0)	CKPTDEF PARM-STMT SUBSCAN PAIR
844	(34C)	ADDRESS	4	MCTCKTTU	"V(USERCKTT)" User table
848	(350)	ADDRESS	4	MCTCKTTH	"V(HASPCKTT)" HASP table
852	(354)	ADDRESS	4	MCTCKTTD	Dynamic table array
856	(358)	ADDRESS	4	MCTCKLTP (0)	CKPTLOCK PARM-STMT TABLE PR
856	(358)	ADDRESS	4	MCTCKLTU	"V(USERCKLT)" User table
860	(35C)	ADDRESS	4	MCTCKLTH	"V(HASPCKLT)" HASP table
864	(360)	ADDRESS	4	MCTCKLTD	Dynamic table array
868	(364)	ADDRESS	4	MCTSPCT (0)	CKPTSPACE Parm-stmt tbl pr
868	(364)	ADDRESS	4	MCTSPCTU	"V(USERSPCT)" User table
872	(368)	ADDRESS	4	MCTSPCTH	"V(HASPSPCT)" HASP table
876	(36C)	ADDRESS	4	MCTSPCTD	Dynamic table array
880	(370)	ADDRESS	4	MCTKPNT (0)	CKPTDEF CKPTN= SUBSCAN PAIR
880	(370)	ADDRESS	4	MCTKPNTU	"V(USERKPNT)" User table
884	(374)	ADDRESS	4	MCTKPNTH	"V(HASPKPNT)" HASP table
888	(378)	ADDRESS	4	MCTKPNTD	Dynamic table array
892	(37C)	ADDRESS	4	MCTEKNT (0)	CKPTDEF NEWCKPTN= SUBSCAN
892	(37C)	ADDRESS	4	MCTEKNTU	"V(USEREKNT)" User table
896	(380)	ADDRESS	4	MCTEKNTH	"V(HASPEKNT)" HASP table
900	(384)	ADDRESS	4	MCTEKNTD	Dynamic table array
904	(388)	ADDRESS	4	MCTVLTP (0)	CKPTDEF VOLATILE= subscan
904	(388)	ADDRESS	4	MCTVLTTU	"V(USERVLT)" User table
908	(38C)	ADDRESS	4	MCTVLTTH	"V(HASPVLT)" HASP table
912	(390)	ADDRESS	4	MCTVLTTD	Dynamic table array
916	(394)	ADDRESS	4	MCTVKPT (0)	CKPTDEF VERSIONS= SUBSCAN
916	(394)	ADDRESS	4	MCTVKPTU	"V(USERVKPT)" User table
920	(398)	ADDRESS	4	MCTVKPTH	"V(HASPVKPT)" HASP table
924	(39C)	ADDRESS	4	MCTVKPTD	Dynamic table array
928	(3A0)	ADDRESS	4	MCTCNDTP (0)	CONDEF PARM-STMT SUBSCAN PAIR
928	(3A0)	ADDRESS	4	MCTCNDTU	"V(USERCNDT)" User table
932	(3A4)	ADDRESS	4	MCTCNDTH	"V(HASPCNDT)" HASP table
936	(3A8)	ADDRESS	4	MCTCNDTD	Dynamic table array
940	(3AC)	ADDRESS	4	MCTCOMTP (0)	COMPACT PARM-STMT SUBSCAN
940	(3AC)	ADDRESS	4	MCTCOMTU	"V(USERCOMT)" User table
944	(3B0)	ADDRESS	4	MCTCOMTH	"V(HASPCOMT)" HASP table
948	(3B4)	ADDRESS	4	MCTCOMTD	Dynamic table array
952	(3B8)	ADDRESS	4	MCTCONT (0)	CONNECT PARM-STMT SUBSCAN
952	(3B8)	ADDRESS	4	MCTCONTU	"V(USERCONT)" User table
956	(3BC)	ADDRESS	4	MCTCONTH	"V(HASPCONT)" HASP table
960	(3C0)	ADDRESS	4	MCTCONTD	Dynamic table array
964	(3C4)	ADDRESS	4	MCTDBGTP (0)	DEBUG stmt table pair
964	(3C4)	ADDRESS	4	MCTDBGTU	"V(USERDBGT)" User table
968	(3C8)	ADDRESS	4	MCTDBGTH	"V(HASPDGBT)" HASP table

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
972	(3CC)	ADDRESS	4	MCTDBGTD	Dynamic table array
976	(3D0)	ADDRESS	4	MCTDESTP (0)	DESTID PARM-STMT SUBSCAN
976	(3D0)	ADDRESS	4	MCTDESTU	"V(USERDEST)" User table
980	(3D4)	ADDRESS	4	MCTDESTH	"V(HASPDEST)" HASP table
984	(3D8)	ADDRESS	4	MCTDESTD	Dynamic table array
988	(3DC)	ADDRESS	4	MCTDSTTP (0)	DESTDEF stmt table pair
988	(3DC)	ADDRESS	4	MCTDSTTU	"V(USERDSTT)" User table
992	(3E0)	ADDRESS	4	MCTDSTTH	"V(HASPDSTT)" HASP table
996	(3E4)	ADDRESS	4	MCTDSTTD	Dynamic table array
1000	(3E8)	ADDRESS	4	MCTELCTP (0)	ESTLNCT PARM-STMT SUBSCAN
1000	(3E8)	ADDRESS	4	MCTELCTU	"V(USERELCT)" User table
1004	(3EC)	ADDRESS	4	MCTELCTH	"V(HASPELCT)" HASP table
1008	(3F0)	ADDRESS	4	MCTELCTD	Dynamic table array
1012	(3F4)	ADDRESS	4	MCTEBYTP (0)	ESTBYTE SUBSCAN PAIR
1012	(3F4)	ADDRESS	4	MCTEBYTU	"V(USEREBYT)" User table
1016	(3F8)	ADDRESS	4	MCTEBYTH	"V(HASPEBYT)" HASP table
1020	(3FC)	ADDRESS	4	MCTEBYTD	Dynamic table array
1024	(400)	ADDRESS	4	MCTEPGTP (0)	ESTPAGE PARM-STMT SUBSCAN
1024	(400)	ADDRESS	4	MCTEPGTU	"V(USEREPGT)" User table
1028	(404)	ADDRESS	4	MCTEPGTH	"V(HASPEPGT)" HASP table
1032	(408)	ADDRESS	4	MCTEPGTD	Dynamic table array
1036	(40C)	ADDRESS	4	MCTEPNTP (0)	ESTPUN PARM-STMT SUBSCAN
1036	(40C)	ADDRESS	4	MCTEPNTU	"V(USEREPNT)" User table
1040	(410)	ADDRESS	4	MCTEPNTH	"V(HASPEPNT)" HASP table
1044	(414)	ADDRESS	4	MCTEPNTD	Dynamic table array
1048	(418)	ADDRESS	4	MCTETMTP (0)	ESTIME PARM-STMT SUBSCAN
1048	(418)	ADDRESS	4	MCTETMTU	"V(USERETMT)" User table
1052	(41C)	ADDRESS	4	MCTETMTH	"V(HASPETMT)" HASP table
1056	(420)	ADDRESS	4	MCTETMTD	Dynamic table array
1060	(424)	ADDRESS	4	MCTXITTP (0)	EXITNNN PARM-STMT SUBSCAN
1060	(424)	ADDRESS	4	MCTXITTU	"V(USERXITT)" User table
1064	(428)	ADDRESS	4	MCTXITTH	"V(HASPXITT)" HASP table
1068	(42C)	ADDRESS	4	MCTXITTD	Dynamic table array
1072	(430)	ADDRESS	4	MCTXRLTP (0)	EXITnnn ROUTINE= parm subscan
1072	(430)	ADDRESS	4	MCTXRLTU	"V(USERXRLT)" User table
1076	(434)	ADDRESS	4	MCTXRLTH	"V(HASPXRLT)" HASP table
1080	(438)	ADDRESS	4	MCTXRLTD	Dynamic table array
1084	(43C)	ADDRESS	4	MCTFSSTP (0)	FSS parm-stmt subscan pair
1084	(43C)	ADDRESS	4	MCTFSSTU	"V(USERFSST)" User table
1088	(440)	ADDRESS	4	MCTFSSTH	"V(HASPFSSST)" HASP table
1092	(444)	ADDRESS	4	MCTFSSTD	Dynamic table array
1096	(448)	ADDRESS	4	MCTINCTP (0)	INCLUDE init-stmt subscan pair
1096	(448)	ADDRESS	4	MCTINCTU	"V(USERINCT)" User table
1100	(44C)	ADDRESS	4	MCTINCTH	"V(HASPINCT)" HASP table
1104	(450)	ADDRESS	4	MCTINCTD	Dynamic table array
1108	(454)	ADDRESS	4	MCTHDRTP (0)	NJEDEF HDRBUF subscan pair
1108	(454)	ADDRESS	4	MCTHDRTU	"V(USERHDRT)" User table
1112	(458)	ADDRESS	4	MCTHDRTH	"V(HASPHDRT)" HASP table
1116	(45C)	ADDRESS	4	MCTHDRTD	Dynamic table array
1120	(460)	ADDRESS	4	MCTPARTP (0)	INITDEF PARM-STMT SUBSCAN PAIR
1120	(460)	ADDRESS	4	MCTPARTU	"V(USERPART)" User table
1124	(464)	ADDRESS	4	MCTPARTH	"V(HASPPART)" HASP table
1128	(468)	ADDRESS	4	MCTPARTD	Dynamic table array
1132	(46C)	ADDRESS	4	MCTPITTP (0)	INNNN PARM-STMT SUBSCAN
1132	(46C)	ADDRESS	4	MCTPITTU	"V(USERPITT)" User table
1136	(470)	ADDRESS	4	MCTPITTH	"V(HASPPITT)" HASP table
1140	(474)	ADDRESS	4	MCTPITTD	Dynamic table array
1144	(478)	ADDRESS	4	MCTJOBTP (0)	JOBDEF PARM-STMT SUBSCAN PAIR
1144	(478)	ADDRESS	4	MCTJOBTU	"V(USERJOBT)" User table
1148	(47C)	ADDRESS	4	MCTJOBTH	"V(HASPJOBT)" HASP table
1152	(480)	ADDRESS	4	MCTJOBTD	Dynamic table array
1156	(484)	ADDRESS	4	MCTJQETP (0)	JOBnnn PARM-STMT SUBSCAN PAIR
1156	(484)	ADDRESS	4	MCTJQETU	"V(USERJQET)" User table
1160	(488)	ADDRESS	4	MCTJQETH	"V(HASPJQET)" HASP table

## \$MCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1164	(48C)	ADDRESS	4	MCTJQETD	Dynamic table array
1168	(490)	ADDRESS	4	MCTJSPTP (0)	JOBnnn SPOOL= SUBSCAN PAIR
1168	(490)	ADDRESS	4	MCTJSPTU	"V(USERJSPT)" User table
1172	(494)	ADDRESS	4	MCTJSPTH	"V(HASPJSPT)" HASP table
1176	(498)	ADDRESS	4	MCTJSPTD	Dynamic table array
1180	(49C)	ADDRESS	4	MCTJPYTP (0)	JOBPRTY PARM-STMT SUBSCAN PAIR
1180	(49C)	ADDRESS	4	MCTJPYTU	"V(USERJPYT)" User table
1184	(4A0)	ADDRESS	4	MCTJPYTH	"V(HASPJPYT)" HASP table
1188	(4A4)	ADDRESS	4	MCTJPYTD	Dynamic table array
1192	(4A8)	ADDRESS	4	MCTLODTP (0)	LOADMOD PARM-STMT SUBSCAN PAIR
1192	(4A8)	ADDRESS	4	MCTLODTU	"V(USERLODT)" User table
1196	(4AC)	ADDRESS	4	MCTLODTH	"V(HASPLODT)" HASP table
1200	(4B0)	ADDRESS	4	MCTLODTD	Dynamic table array
1204	(4B4)	ADDRESS	4	MCTMASTP (0)	MASDEF PARM-STMT SUBSCAN PAIR
1204	(4B4)	ADDRESS	4	MCTMASTU	"V(USERMAST)" User table
1208	(4B8)	ADDRESS	4	MCTMASTH	"V(HASPMAST)" HASP table
1212	(4BC)	ADDRESS	4	MCTMASTD	Dynamic table array
1216	(4C0)	ADDRESS	4	MCTMEMTP (0)	MEMBER parm-stmt subscan
1216	(4C0)	ADDRESS	4	MCTMEMTU	"V(USERMEMT)" User table
1220	(4C4)	ADDRESS	4	MCTMEMTH	"V(HASPMEMT)" HASP table
1224	(4C8)	ADDRESS	4	MCTMEMTD	Dynamic table array
1228	(4CC)	ADDRESS	4	MCTSTYTP (0)	MEMBER LASTART= subscan
1228	(4CC)	ADDRESS	4	MCTSTYTU	"V(USERSTYT)" User table
1232	(4D0)	ADDRESS	4	MCTSTYTH	"V(HASPSTYT)" HASP table
1236	(4D4)	ADDRESS	4	MCTSTYTD	Dynamic table array
1240	(4D8)	ADDRESS	4	MCTMIGTP (0)	SPOOL MIGDATA= subparm
1240	(4D8)	ADDRESS	4	MCTMIGTU	"V(USERMIGT)" User table
1244	(4DC)	ADDRESS	4	MCTMIGTH	"V(HASPMIGT)" HASP table
1248	(4E0)	ADDRESS	4	MCTMIGTD	Dynamic table array
1252	(4E4)	ADDRESS	4	MCTMODTP (0)	MODULE PARM-STMT SUBSCAN
1252	(4E4)	ADDRESS	4		User table
1256	(4E8)	ADDRESS	4	MCTMODTH	"V(HASPMODT)" HASP table
1260	(4EC)	ADDRESS	4		Dynamic table array
1264	(4F0)	ADDRESS	4	MCTNJETP (0)	NJEDEF PARM-STMT SUBSCAN PAIR
1264	(4F0)	ADDRESS	4	MCTNJETU	"V(USERNJET)" User table
1268	(4F4)	ADDRESS	4	MCTNJETH	"V(HASPNJET)" HASP table
1272	(4F8)	ADDRESS	4	MCTNJETD	Dynamic table array
1276	(4FC)	ADDRESS	4	MCTNWKTP (0)	NETWORK PARM-STMT SUBSCAN PAIR
1276	(4FC)	ADDRESS	4	MCTNWKTU	"V(USERNWKT)" User table
1280	(500)	ADDRESS	4	MCTNWKTH	"V(HASPNWKT)" HASP table
1284	(504)	ADDRESS	4	MCTNWKTD	Dynamic table array
1288	(508)	ADDRESS	4	MCTNODTP (0)	NNNNN PARM-STMT SUBSCAN
1288	(508)	ADDRESS	4	MCTNODTU	"V(USERNODT)" User table
1292	(50C)	ADDRESS	4	MCTNODTH	"V(HASPNODT)" HASP table
1296	(510)	ADDRESS	4	MCTNODTD	Dynamic table array
1300	(514)	ADDRESS	4	MCTNDPTP (0)	NODEnnnn PASSWORD subscan
1300	(514)	ADDRESS	4	MCTNDPTU	"V(USERNDPT)" User table
1304	(518)	ADDRESS	4	MCTNDPTH	"V(HASPNDPT)" HASP table
1308	(51C)	ADDRESS	4	MCTNDPTD	Dynamic table array
1312	(520)	ADDRESS	4	MCTNAUTP (0)	NODENNNN AUTH SUBSCAN PAIR
1312	(520)	ADDRESS	4	MCTNAUTU	"V(USERNAUT)" User table
1316	(524)	ADDRESS	4	MCTNAUTH	"V(HASPNAUT)" HASP table
1320	(528)	ADDRESS	4	MCTNAUTD	Dynamic table array
1324	(52C)	ADDRESS	4	MCTNETTP (0)	NETACCT PARM-STMT SUBSCAN
1324	(52C)	ADDRESS	4	MCTNETTU	"V(USERNETT)" User table
1328	(530)	ADDRESS	4	MCTNETTH	"V(HASPNETT)" HASP table
1332	(534)	ADDRESS	4	MCTNETTD	Dynamic table array
1336	(538)	ADDRESS	4	MCTOJMTP (0)	OFFN.JR MOD= PARM SUBSCAN PAIR
1336	(538)	ADDRESS	4	MCTOJMTH	"V(USEROJMT)" User table
1340	(53C)	ADDRESS	4	MCTOJMTH	"V(HASPOJMT)" HASP table
1344	(540)	ADDRESS	4	MCTOJMTH	Dynamic table array
1348	(544)	ADDRESS	4	MCTOSMTP (0)	OFFN.SR MOD= PARM SUBSCAN PAIR
1348	(544)	ADDRESS	4	MCTOSMTU	"V(USEROSMT)" User table
1352	(548)	ADDRESS	4	MCTOSMTH	"V(HASPOSMT)" HASP table

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1356	(54C)	ADDRESS	4	MCTOSMTD	Dynamic table array
1360	(550)	ADDRESS	4	MCTOPDTP (0)	OPTSDEF PARM-STMT SUBSCAN PAIR
1360	(550)	ADDRESS	4	MCTOPDTU	"V(USEROPDT)" User table
1364	(554)	ADDRESS	4	MCTOPDTH	"V(HASPOPDT)" HASP table
1368	(558)	ADDRESS	4	MCTOPDTD	Dynamic table array
1372	(55C)	ADDRESS	4	MCTOUTTP (0)	OUTDEF PARM-STMT SUBSCAN PAIR
1372	(55C)	ADDRESS	4	MCTOUTTU	"V(USEROUTT)" User table
1376	(560)	ADDRESS	4	MCTOUTTH	"V(HASPOUTT)" HASP table
1380	(564)	ADDRESS	4	MCTOUTTD	Dynamic table array
1384	(568)	ADDRESS	4	MCTOPYTP (0)	OUTPRTY PARM-STMT SUBSCAN PAIR
1384	(568)	ADDRESS	4	MCTOPYTU	"V(USEROPYT)" User table
1388	(56C)	ADDRESS	4	MCTOPYTH	"V(HASPOPYT)" HASP table
1392	(570)	ADDRESS	4	MCTOPYTD	Dynamic table array
1396	(574)	ADDRESS	4	MCTOTPTP (0)	OUTPUT display subscan pair
1396	(574)	ADDRESS	4	MCTOTPTU	"V(USEROTPT)" User table
1400	(578)	ADDRESS	4	MCTOTPTH	"V(HASPOTPT)" HASP table
1404	(57C)	ADDRESS	4	MCTOTPTD	Dynamic table array
1408	(580)	ADDRESS	4	MCTLOTPP (0)	OUTPUT PARM-STMT PAIR (\$LJ)
1408	(580)	ADDRESS	4	MCTLOTTU	"V(USERLOTT)" User table
1412	(584)	ADDRESS	4	MCTLOTTH	"V(HASPLOTT)" HASP table
1416	(588)	ADDRESS	4	MCTLOTTD	Dynamic table array
1420	(58C)	ADDRESS	4	MCTPHTHP (0)	Path parm-stmt subscan pair
1420	(58C)	ADDRESS	4	MCTPHTHU	"V(USERPHTH)" User table
1424	(590)	ADDRESS	4	MCTPHTH	"V(HASPHTH)" HASP table
1428	(594)	ADDRESS	4	MCTPHTD	Dynamic table array
1432	(598)	ADDRESS	4	MCTPCCTP (0)	PCE parm-stmt subscan pair
1432	(598)	ADDRESS	4	MCTPCCTU	"V(USERPCCT)" User table
1436	(59C)	ADDRESS	4	MCTPCCTH	"V(HASPPCCT)" HASP table
1440	(5A0)	ADDRESS	4	MCTPCCTD	Dynamic table array
1444	(5A4)	ADDRESS	4	MCTPCNTP (0)	PCE COUNT parm subscan pair
1444	(5A4)	ADDRESS	4	MCTPCNTU	"V(USERPCNT)" User table
1448	(5A8)	ADDRESS	4	MCTPCNTH	"V(HASPPCNT)" HASP table
1452	(5AC)	ADDRESS	4	MCTPCNTD	Dynamic table array
1456	(5B0)	ADDRESS	4	MCTPDTPP (0)	PCE DETAILS parm subscan pair
1456	(5B0)	ADDRESS	4	MCTPDTTU	"V(USERPDTP)" User table
1460	(5B4)	ADDRESS	4	MCTPDTH	"V(HASPPDTP)" HASP table
1464	(5B8)	ADDRESS	4	MCTPDTD	Dynamic table array
1468	(5BC)	ADDRESS	4	MCTPCDTP (0)	PCEDEF PARM-STMT SUBSCAN PAIR
1468	(5BC)	ADDRESS	4	MCTPCDTU	"V(USERPCDT)" User table
1472	(5C0)	ADDRESS	4	MCTPCDTH	"V(HASPPCDT)" HASP table
1476	(5C4)	ADDRESS	4	MCTPCDTD	Dynamic table array
1480	(5C8)	ADDRESS	4	MCTPTDTP (0)	PRINTDEF PARM-STMT SUBSCAN PAIR
1480	(5C8)	ADDRESS	4	MCTPTDTU	"V(USERPTDT)" User table
1484	(5CC)	ADDRESS	4	MCTPTDTH	"V(HASPPDTH)" HASP table
1488	(5D0)	ADDRESS	4	MCTPTDTD	Dynamic table array
1492	(5D4)	ADDRESS	4	MCTPDDTP (0)	PROCLIB DD Parm-stmt subscan pair
1492	(5D4)	ADDRESS	4	MCTPDDTU	"V(USERPDDT)" User table
1496	(5D8)	ADDRESS	4	MCTPDDTH	"V(HASPPDDT)" HASP table
1500	(5DC)	ADDRESS	4	MCTPDDTD	Dynamic table array
1504	(5E0)	ADDRESS	4	MCTPCDTP (0)	PUNCHDEF PARM-STMT SUBSCAN PAIR
1504	(5E0)	ADDRESS	4	MCTPUDTU	"V(USERPUPT)" User table
1508	(5E4)	ADDRESS	4	MCTPUDTH	"V(HASPPUDT)" HASP table
1512	(5E8)	ADDRESS	4	MCTPUDTD	Dynamic table array
1516	(5EC)	ADDRESS	4	MCTIAUTP (0)	RDInn AUTH SUBSCAN PAIR
1516	(5EC)	ADDRESS	4	MCTIAUTU	"V(USERIAUT)" User table
1520	(5F0)	ADDRESS	4	MCTIAUTH	"V(HASPIAUT)" HASP table
1524	(5F4)	ADDRESS	4	MCTIAUTD	Dynamic table array
1528	(5F8)	ADDRESS	4	MCTIJBT (0)	RDInn JOB SCANTAB PAIR
1528	(5F8)	ADDRESS	4	MCTIJBTU	"V(USERIJBT)" User table
1532	(5FC)	ADDRESS	4	MCTIJBTH	"V(HASPIJBT)" HASP table
1536	(600)	ADDRESS	4	MCTIJBTD	Dynamic table array
1540	(604)	ADDRESS	4	MCTIJSTP (0)	RDInn JOBSTAT SUBSCAN PAIR
1540	(604)	ADDRESS	4	MCTIJSTU	"V(USERIJST)" User table
1544	(608)	ADDRESS	4	MCTIJSTH	"V(HASPIJST)" HASP table

## \$MCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1548	(60C)	ADDRESS	4	MCTIJSTD	Dynamic table array
1552	(610)	ADDRESS	4	MCTIOWTP (0)	RDIInn OWNER SCANTAB PAIR
1552	(610)	ADDRESS	4	MCTIOWTU	"V(USERIOWT)" User table
1556	(614)	ADDRESS	4	MCTIOWTH	"V(HASPIOWT)" HASP table
1560	(618)	ADDRESS	4	MCTIOWTD	Dynamic table array
1564	(61C)	ADDRESS	4	MCTRAUTP (0)	RDRnn AUTH SUBSCAN PAIR
1564	(61C)	ADDRESS	4	MCTRAUTU	"V(USERRAUT)" User table
1568	(620)	ADDRESS	4	MCTRAUTH	"V(HASPRAUT)" HASP table
1572	(624)	ADDRESS	4	MCTRAUTD	Dynamic table array
1576	(628)	ADDRESS	4	MCTREDTP (0)	REDIR PARM-STMT SUBSCAN PR
1576	(628)	ADDRESS	4	MCTREDTU	"V(USERR EDT)" User table
1580	(62C)	ADDRESS	4	MCTREDTH	"V(HASPREDT)" HASP table
1584	(630)	ADDRESS	4	MCTREDTD	Dynamic table array
1588	(634)	ADDRESS	4	MCTRCVTP (0)	RECVOPTS PARM-STMT SUBSCAN
1588	(634)	ADDRESS	4	MCTRCVTU	"V(USERRCVT)" User table
1592	(638)	ADDRESS	4	MCTRCVTH	"V(HASPRCVT)" HASP table
1596	(63C)	ADDRESS	4	MCTRCVTD	Dynamic table array
1600	(640)	ADDRESS	4	MCTRMTPP (0)	RMTNNNN PARM-STMT SUBSCAN
1600	(640)	ADDRESS	4	MCTRMTTU	"V(USERRMTP)" User table
1604	(644)	ADDRESS	4	MCTRMTHH	"V(HASPRMTH)" HASP table
1608	(648)	ADDRESS	4	MCTRMTTD	Dynamic table array
1612	(64C)	ADDRESS	4	MCTSCTTP (0)	OUTCLASS PARM-STMT SUBSCAN PAIR
1612	(64C)	ADDRESS	4	MCTSCTTU	"V(USERSCTT)" User table
1616	(650)	ADDRESS	4	MCTSCTTH	"V(HASPSCTT)" HASP table
1620	(654)	ADDRESS	4	MCTSCTTD	Dynamic table array
1624	(658)	ADDRESS	4	MCTSMFTP (0)	SMFDEF PARM-STMT SUBSCAN PAIR
1624	(658)	ADDRESS	4	MCTSMFTU	"V(USERSMFT)" User table
1628	(65C)	ADDRESS	4	MCTSMFTH	"V(HASPSMFT)" HASP table
1632	(660)	ADDRESS	4	MCTSMFTD	Dynamic table array
1636	(664)	ADDRESS	4	MCTSPLTP (0)	SPOOL PARM-STMT PAIR
1636	(664)	ADDRESS	4	MCTSPLTU	"V(USERSPLT)" User table
1640	(668)	ADDRESS	4	MCTSPLTH	"V(HASPSPLT)" HASP table
1644	(66C)	ADDRESS	4	MCTSPLTD	Dynamic table array
1648	(670)	ADDRESS	4	MCTSPDTP (0)	SPOOLDEF PARM-STMT SUBSCAN PAIR
1648	(670)	ADDRESS	4	MCTSPDTU	"V(USERSPDT)" User table
1652	(674)	ADDRESS	4	MCTSPDTH	"V(HASPSPDT)" HASP table
1656	(678)	ADDRESS	4	MCTSPDTD	Dynamic table array
1660	(67C)	ADDRESS	4	MCTFENTP (0)	SPOOLDEF FENCE=subscan
1660	(67C)	ADDRESS	4	MCTFENTU	"V(USERFENT)" User table
1664	(680)	ADDRESS	4	MCTFENTH	"V(HASPFENT)" HASP table
1668	(684)	ADDRESS	4	MCTFENTD	Dynamic table array
1672	(688)	ADDRESS	4	MCTTGSTP (0)	SPOOLDEF TGSPACE=subscan
1672	(688)	ADDRESS	4	MCTTGSTU	"V(USERTGST)" User table
1676	(68C)	ADDRESS	4	MCTTGSTH	"V(HASPTGST)" HASP table
1680	(690)	ADDRESS	4	MCTTGSTD	Dynamic table array
1684	(694)	ADDRESS	4	MCTWSCTP (0)	SERVICE Class Parm-stmts subscan
1684	(694)	ADDRESS	4	MCTWSCTU	"V(USERWSCT)" User table
1688	(698)	ADDRESS	4	MCTWSCTH	"V(HASPWCT)" HASP table
1692	(69C)	ADDRESS	4	MCTWSCTD	Dynamic table array
1696	(6A0)	ADDRESS	4	MCTWCTTP (0)	SERVICE class COUNT= SUBSCAN
1696	(6A0)	ADDRESS	4	MCTWCTTU	"V(USERWCTT)" User table
1700	(6A4)	ADDRESS	4	MCTWCTTH	"V(HASPWCTT)" HASP table
1704	(6A8)	ADDRESS	4	MCTWCTTD	Dynamic table array
1708	(6AC)	ADDRESS	4	MCTWMCTP (0)	SERVICE class MASCOUNT= SUBSCAN
1708	(6AC)	ADDRESS	4	MCTWMCTU	"V(USERWMCT)" User table
1712	(6B0)	ADDRESS	4	MCTWMCTH	"V(HASPWMCT)" HASP table
1716	(6B4)	ADDRESS	4	MCTWMCTD	Dynamic table array
1720	(6B8)	ADDRESS	4	MCTSBDBTP (0)	SUBTDEF STMT SUBSCAN PAIR
1720	(6B8)	ADDRESS	4	MCTSBDBTU	"V(USERSBDT)" User table
1724	(6BC)	ADDRESS	4	MCTSBDBTH	"V(HASPSBDT)" HASP table
1728	(6C0)	ADDRESS	4	MCTSBDBTD	Dynamic table array
1732	(6C4)	ADDRESS	4	MCTTPDTP (0)	TPDEF PARM-STMT SUBSCAN PAIR
1732	(6C4)	ADDRESS	4	MCTTPDTU	"V(USERTPDT)" User table
1736	(6C8)	ADDRESS	4	MCTTPDTH	"V(HASPTPDT)" HASP table

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1740	(6CC)	ADDRESS	4	MCTTPDTD	Dynamic table array
1744	(6D0)	ADDRESS	4	MCTTRCTP (0)	TRACEDEF PARM-STMT SUBSCAN PAIR
1744	(6D0)	ADDRESS	4	MCTTRCTU	"V(USERTRCT)" User table
1748	(6D4)	ADDRESS	4	MCTTRCTH	"V(HASPTRCT)" HASP table
1752	(6D8)	ADDRESS	4	MCTTRCTD	Dynamic table array
1756	(6DC)	ADDRESS	4	MCTTRITP (0)	TRACE(N) PARM-STMT SUBSCAN PR
1756	(6DC)	ADDRESS	4	MCTTRITU	"V(USERTRIT)" User table
1760	(6E0)	ADDRESS	4	MCTTRITH	"V(HASPTRIT)" HASP table
1764	(6E4)	ADDRESS	4	MCTTRITD	Dynamic table array
1768	(6E8)	ADDRESS	4	MCTSTATP (0)	TRACE STAT PARM-STMT SUBSCAN PR
1768	(6E8)	ADDRESS	4	MCTSTATU	"V(USERSTAT)" User table
1772	(6EC)	ADDRESS	4	MCTSTATH	"V(HASPSTAT)" HASP table
1776	(6F0)	ADDRESS	4	MCTSTATD	Dynamic table array
1780	(6F4)	ADDRESS	4	MCTTLGTP (0)	TRC LOG PARM-STMT SUBSCAN PAIR
1780	(6F4)	ADDRESS	4	MCTTLGTU	"V(USERTLGT)" User table
1784	(6F8)	ADDRESS	4	MCTTLGTH	"V(HASPTLGT)" HASP table
1788	(6FC)	ADDRESS	4	MCTTLGTD	Dynamic table array
1792	(700)	ADDRESS	4	MCTSSITP (0)	SSI PARM-STMT SUBSCAN PAIR
1792	(700)	ADDRESS	4	MCTSSITU	"V(USERSSIT)" User table
1796	(704)	ADDRESS	4	MCTSSITH	"V(HASPSSIT)" HASP table
1800	(708)	ADDRESS	4	MCTSSITD	Dynamic table array
1804	(70C)	ADDRESS	4	MCTSEPTP (0)	SEPPAGE PARM-STMT SUBSCN PR
1804	(70C)	ADDRESS	4	MCTSEPTU	"V(USERSEPT)" User table
1808	(710)	ADDRESS	4	MCTSEPTH	"V(HASPSEPT)" HASP table
1812	(714)	ADDRESS	4	MCTSEPTD	Dynamic table array
1816	(718)	ADDRESS	4	MCTVIATP (0)	Path parm-stmt VIA subparm
1816	(718)	ADDRESS	4	MCTVIATU	"V(USERVIAT)" User table
1820	(71C)	ADDRESS	4	MCTVIATH	"V(HASPVIAT)" HASP table
1824	(720)	ADDRESS	4	MCTVIATD	Dynamic table array
1828	(724)	ADDRESS	4	MCTVUNTP (0)	SPOOL UNITDATA= subparm
1828	(724)	ADDRESS	4	MCTVUNTU	"V(USERVUNT)" User table
1832	(728)	ADDRESS	4	MCTVUNTH	"V(HASPVUNT)" HASP table
1836	(72C)	ADDRESS	4	MCTVUNTD	Dynamic table array
1840	(730)	ADDRESS	4	MCTZJBTP (0)	ZAPJOB SUBSCAN pair
1840	(730)	ADDRESS	4	MCTZJBTU	"V(USERZJBT)" User table
1844	(734)	ADDRESS	4	MCTZJBTH	"V(HASPZJBT)" HASP table
1848	(738)	ADDRESS	4	MCTZJBD	Dynamic table array
1852	(73C)	ADDRESS	4	MCT4KPTP (0)	CKPTSPACE 4K_RECS subparm
1852	(73C)	ADDRESS	4	MCT4KPTU	"V(USER4KPT)" User table
1856	(740)	ADDRESS	4	MCT4KPTH	"V(HASP4KPT)" HASP table
1860	(744)	ADDRESS	4	MCT4KPTD	Dynamic table array
1864	(748)	ADDRESS	4	MCTPRFTP (0)	PRTnn FSSINFO subparm
1864	(748)	ADDRESS	4	MCTPRFTU	"V(USERPRFT)" User table
1868	(74C)	ADDRESS	4	MCTPRFTH	"V(HASPPRFT)" HASP table
1872	(750)	ADDRESS	4	MCTPRFTD	Dynamic table array
1876	(754)	ADDRESS	4	MCTLRPTP (0)	\$L JOBQ RECORDS/PAGES subparms
1876	(754)	ADDRESS	4	MCTLRPTU	"V(USERLRPT)" User table
1880	(758)	ADDRESS	4	MCTLRPTH	"V(HASPLRPT)" HASP table
1884	(75C)	ADDRESS	4	MCTLRPTD	Dynamic table array
1888	(760)	ADDRESS	4	(3)	Reserved for future use
1900	(76C)	ADDRESS	4	(3)	Reserved for future use
1912	(778)	ADDRESS	4	(3)	Reserved for future use

Comment

WORK SELECTION USER AND HASP TABLES

End of Comment

1924	(784)	ADDRESS	4	MCTPRWTP (0)	PRINTER WS TABLE ADDR PAIR
1924	(784)	ADDRESS	4	MCTPRWTU	"V(USERPRWT)" User table
1928	(788)	ADDRESS	4	MCTPRWTH	"V(HASPPRWT)" HASP table
1932	(78C)	ADDRESS	4	MCTPRWTD	Dynamic table array
1936	(790)	ADDRESS	4	MCTPUWTP (0)	PUNCH WS TABLE ADDR PAIR
1936	(790)	ADDRESS	4	MCTPUWTU	"V(USERPUWT)" User table

## \$MCT Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1940	(794)	ADDRESS	4	MCTPUWTH	"V(HASPPUWT)" HASP table
1944	(798)	ADDRESS	4	MCTPUWTD	Dynamic table array
1948	(79C)	ADDRESS	4	MCTJTWTP (0)	OFFJT WS TABLE ADDR PAIR
1948	(79C)	ADDRESS	4	MCTJTWTH	"V(USERJTWTH)" User table
1952	(7A0)	ADDRESS	4	MCTJTWTH	"V(HASPJTWT)" HASP table
1956	(7A4)	ADDRESS	4	MCTJTWTD	Dynamic table array
1960	(7A8)	ADDRESS	4	MCTJRWTP (0)	OFFJR WS TABLE ADDR PAIR
1960	(7A8)	ADDRESS	4	MCTJRWTH	"V(USERJRWTH)" User table
1964	(7AC)	ADDRESS	4	MCTJRWTH	"V(HASPCRWT)" HASP table
1968	(7B0)	ADDRESS	4	MCTJRWTD	Dynamic table array
1972	(7B4)	ADDRESS	4	MCTSTWTP (0)	OFFST WS TABLE ADDR PAIR
1972	(7B4)	ADDRESS	4	MCTSTWTH	"V(USERSTWTH)" User table
1976	(7B8)	ADDRESS	4	MCTSTWTH	"V(HASPSTWT)" HASP table
1980	(7BC)	ADDRESS	4	MCTSTWTD	Dynamic table array
1984	(7C0)	ADDRESS	4	MCTSRWTP (0)	OFFSR WS TABLE ADDR PAIR
1984	(7C0)	ADDRESS	4	MCTSRWTH	"V(USERSRWTH)" User table
1988	(7C4)	ADDRESS	4	MCTSRWTH	"V(HASPSRWT)" HASP table
1992	(7C8)	ADDRESS	4	MCTSRWTD	Dynamic table array
1996	(7CC)	ADDRESS	4	MCTLJWTP (0)	Lx.JT WS table ADDR PAIR
1996	(7CC)	ADDRESS	4	MCTLJWTH	"V(USERLJWTH)" User table
2000	(7D0)	ADDRESS	4	MCTLJWTH	"V(HASPLJWT)" HASP table
2004	(7D4)	ADDRESS	4	MCTLJWTD	Dynamic table array
2008	(7D8)	ADDRESS	4	MCTLSWTP (0)	Lx.ST WS table ADDR PAIR
2008	(7D8)	ADDRESS	4	MCTLSWTH	"V(USERLSWTH)" User table
2012	(7DC)	ADDRESS	4	MCTLSWTH	"V(HASPLSWT)" HASP table
2016	(7E0)	ADDRESS	4	MCTLSWTD	Dynamic table array
2020	(7E4)	ADDRESS	4	MCTSAWTP (0)	Sysout API table Addr Pair
2020	(7E4)	ADDRESS	4	MCTSAWTH	"V(USERSAWTH)" User table
2024	(7E8)	ADDRESS	4	MCTSAWTH	"V(HASPSAWT)" HASP table
2028	(7EC)	ADDRESS	4	MCTSAWTD	Dynamic table array
2032	(7F0)	ADDRESS	4	(3)	Reserved for future use

Comment

### MISCELLANEOUS SECTION FOR USER TABLE POINTERS

End of Comment

2044	(7FC)	ADDRESS	4	MCTERRTP (0)	USER ERROR TEXT TABLE
2044	(7FC)	ADDRESS	4	MCTERRTU	"V(USERERRTU)" User table
2048	(800)	ADDRESS	4		HASP table
2052	(804)	ADDRESS	4	MCTERRTD	Dynamic table array
2052	(804)	X'808'	0	MCTLEN	"*-MCT" LENGTH OF THE MCT

## \$MCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
MCT	0		MCTBADTP	2C8	
MCTACTTD	2B8		MCTBADTU	2C8	
MCTACTTH	2B4		MCTBFHTD	2E8	
MCTACTTP	2B0		MCTBFHTH	2E4	
MCTACTTU	2B0		MCTBFHTP	2E0	
MCTADRTH	1EC		MCTBFHTU	2E0	
MCTADRTP	1EC		MCTBFXTD	2F4	
MCTAPCTH	294		MCTBFXTH	2F0	
MCTAPCTP	294		MCTBFXTP	2EC	
MCTAPLTD	2C4		MCTBFXTU	2EC	
MCTAPLTH	2C0		MCTBRTTD	50	
MCTAPLTP	2BC		MCTBRTTH	4C	
MCTAPLTU	2BC		MCTBRTPP	48	
MCTAUTTH	1F4		MCTBRTPU	48	
MCTAUTTP	1F4		MCTBSCTD	300	
MCTBADTD	2D0		MCTBSCTH	2FC	
MCTBADTH	2CC		MCTBSCTP	2F8	



Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
MCTBSCTU	2F8		MCTELCTP	3E8	
MCTBUFTD	2DC		MCTELCTU	3E8	
MCTBUFTH	2D8		MCTEPGTD	408	
MCTBUFTP	2D4		MCTEPGTH	404	
MCTBUFTU	2D4		MCTEPGTP	400	
MCTCATTD	33C		MCTEPGTU	400	
MCTCATTH	338		MCTEPNTD	414	
MCTCATTP	334		MCTEPNTH	410	
MCTCATTU	334		MCTEPNTP	40C	
MCTCHRTH	1FC		MCTEPNTU	40C	
MCTCHRTP	1FC		MCTERRTD	804	
MCTCKLTD	360		MCTERRTP	7FC	
MCTCKLTH	35C		MCTERRTU	7FC	
MCTCKLTP	358		MCTETMTD	420	
MCTCKLTU	358		MCTETMTH	41C	
MCTCKTTD	354		MCTETMTP	418	
MCTCKTTH	350		MCTETMTU	418	
MCTCKTTP	34C		MCTFENTD	684	
MCTCKTTU	34C		MCTFENTH	680	
MCTCNDTD	3A8		MCTFENTP	67C	
MCTCNDTH	3A4		MCTFENTU	67C	
MCTCNDTP	3A0		MCTFRMTH	224	
MCTCNDTU	3A0		MCTFRMTP	224	
MCTCOMTD	3B4		MCTFSSTD	444	
MCTCOMTH	3B0		MCTFSSTH	440	
MCTCOMTP	3AC		MCTFSSTP	43C	
MCTCOMTU	3AC		MCTFSSTU	43C	
MCTCONTD	3C0		MCTHDRTD	45C	
MCTCONTH	3BC		MCTHDRTH	458	
MCTCONTP	3B8		MCTHD RTP	454	
MCTCONTU	3B8		MCTHDRTU	454	
MCTDBGTD	3CC		MCTIAUTD	5F4	
MCTDBGTH	3C8		MCTIAUTH	5F0	
MCTDBGTP	3C4		MCTIAUTP	5EC	
MCTDBGTU	3C4		MCTIAUTU	5EC	
MCTDCTTD	14		MCTIJBTD	600	
MCTDCTTH	10		MCTIJBTH	5FC	
MCTDCTTP	C		MCTIJBTP	5F8	
MCTDCTTU	C		MCTIJBTP	5F8	
MCTDESTD	3D8		MCTIJBTP	5F8	
MCTDESTH	3D4		MCTIJBTP	5F8	
MCTDESTP	3D0		MCTIJBTP	5F8	
MCTDESTU	3D0		MCTIJBTP	5F8	
MCTDRMTH	20C		MCTIJBTP	5F8	
MCTDRMTP	20C		MCTIJBTP	5F8	
MCTDSTTD	3E4		MCTIJBTP	5F8	
MCTDSTTH	3E0		MCTIJBTP	5F8	
MCTDSTTP	3DC		MCTIJBTP	5F8	
MCTDSTTU	3DC		MCTIJBTP	5F8	
MCTDTETD	20		MCTIJBTP	5F8	
MCTDTETH	1C		MCTIJBTP	5F8	
MCTDTETP	18		MCTIJBTP	5F8	
MCTDTETU	18		MCTIJBTP	5F8	
MCTDVRTH	284		MCTIJBTP	5F8	
MCTDVRTP	284		MCTIJBTP	5F8	
MCTEBYTD	3FC		MCTIJBTP	5F8	
MCTEBYTH	3F8		MCTIJBTP	5F8	
MCTEBYTP	3F4		MCTIJBTP	5F8	
MCTEBYTU	3F4		MCTIJBTP	5F8	
MCTEKNTD	384		MCTIJBTP	5F8	
MCTEKNTH	380		MCTIJBTP	5F8	
MCTEKNTP	37C		MCTIJBTP	5F8	
MCTEKNTU	37C		MCTIJBTP	5F8	
MCTELCTD	3F0		MCTIJBTP	5F8	
MCTELCTH	3EC		MCTIJBTP	5F8	

## \$MCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
MCTJOBTP	478		MCTLRPTD	75C	
MCTJOBTU	478		MCTLRPTH	758	
MCTJPYTD	4A4		MCTLRPTP	754	
MCTJPYTH	4A0		MCTLRPTU	754	
MCTJPYTP	49C		MCTLSRTD	C8	
MCTJPYTU	49C		MCTLSRTH	C4	
MCTJQETD	48C		MCTLSRTP	C0	
MCTJQETH	488		MCTLSRTU	C0	
MCTJQETP	484		MCTLSTTD	D4	
MCTJQETU	484		MCTLSTTH	D0	
MCTJRNTH	204		MCTLSTTP	CC	
MCTJRNTP	204		MCTLSTTU	CC	
MCTJRWTD	7B0		MCTLSWTD	7E0	
MCTJRWTH	7AC		MCTLSWTH	7DC	
MCTJRWTP	7A8		MCTLSWTP	7D8	
MCTJRWTU	7A8		MCTLSWTU	7D8	
MCTJSPTD	498		MCTLTRTD	98	
MCTJSPTH	494		MCTLTRTH	94	
MCTJSPTP	490		MCTLTRTP	90	
MCTJSPTU	490		MCTLTRTU	90	
MCTJTWTD	7A4		MCTMASTD	4BC	
MCTJTWTH	7A0		MCTMASTH	4B8	
MCTJTWTP	79C		MCTMASTP	4B4	
MCTJTWTU	79C		MCTMASTU	4B4	
MCTKPNTD	378		MCTMEMTD	4C8	
MCTKPNTH	374		MCTMEMTH	4C4	
MCTKPNTP	370		MCTMEMTP	4C0	
MCTKPNTU	370		MCTMEMTU	4C0	
MCTLEN	804	808	MCTMGTD	74	
MCTLIMTH	22C		MCTMGTH	70	
MCTLIMTP	22C		MCTMGTP	6C	
MCTLINTD	A4		MCTMGTU	6C	
MCTLINTH	A0		MCTMIGTD	4E0	
MCTLINTP	9C		MCTMIGTH	4DC	
MCTLINTU	9C		MCTMIGTP	4D8	
MCTLJRTD	B0		MCTMIGTU	4D8	
MCTLJRTH	AC		MCTMODTH	4E8	
MCTLJRTP	A8		MCTMODTP	4E4	
MCTLJRTU	A8		MCTMPSTD	68	
MCTLJTDD	BC		MCTMPSTH	64	
MCTLJTTH	B8		MCTMPSTP	60	
MCTLJTTP	B4		MCTMPSTU	60	
MCTLJTU	B4		MCTMSGTH	1F8	
MCTLJWTD	7D4		MCTMSGTP	1F8	
MCTLJWTH	7D0		MCTMSMTH	230	
MCTLJWTP	7CC		MCTMSMTP	230	
MCTLJWU	7CC		MCTNAUTD	528	
MCTLNCTH	288		MCTNAUTH	524	
MCTLNCTP	288		MCTNAUTP	520	
MCTLNETH	8C		MCTNAUTU	520	
MCTLNETH	88		MCTNDPTD	51C	
MCTLNETP	84		MCTNDPTH	518	
MCTLNETU	84		MCTNDPTP	514	
MCTLODTD	4B0		MCTNDPTU	514	
MCTLODTH	4AC		MCTNETTD	534	
MCTLODTP	4A8		MCTNETTH	530	
MCTLODTU	4A8		MCTNETTP	52C	
MCTLOGTD	E0		MCTNETTU	52C	
MCTLOGTH	DC		MCTNJCTH	298	
MCTLOGTP	D8		MCTNJCTP	298	
MCTLOGTU	D8		MCTNJETD	4F8	
MCTLOTTD	588		MCTNJETH	4F4	
MCTLOTTH	584		MCTNJETP	4F0	
MCTLOTP	580		MCTNJETU	4F0	
MCTLOTTU	580		MCTNOCTH	29C	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
MCTNOCTP	29C		MCTOUNTH	238	
MCTNODTD	510		MCTOUNTP	238	
MCTNODTH	50C		MCTOUTTD	564	
MCTNODTP	508		MCTOUTTH	560	
MCTNODTU	508		MCTOUTTP	55C	
MCTNSVTD	1C4		MCTOUTTU	55C	
MCTNSVTH	1C0		MCTPARTD	468	
MCTNSVTP	1BC		MCTPARTH	464	
MCTNSVTU	1BC		MCTPARTP	460	
MCTNTRTD	1D0		MCTPARTU	460	
MCTNTRTH	1CC		MCTPCCTD	5A0	
MCTNTRTP	1C8		MCTPCCTH	59C	
MCTNTRTU	1C8		MCTPCCTP	598	
MCTNWKTD	504		MCTPCCTU	598	
MCTNWKTH	500		MCTPCDTD	5C4	
MCTNWKTP	4FC		MCTPCDTH	5C0	
MCTNWKTU	4FC		MCTPCDTP	5BC	
MCTOFFTD	F8		MCTPCDTU	5BC	
MCTOFFTH	F4		MCTPCETD	8	
MCTOFFTP	F0		MCTPCETH	4	
MCTOFFTU	F0		MCTPCETP	0	
MCTOFLTD	EC		MCTPCETU	0	
MCTOFLTH	E8		MCTPCNTD	5AC	
MCTOFLTP	E4		MCTPCNTH	5A8	
MCTOFLTU	E4		MCTPCNTP	5A4	
MCTOJMTD	540		MCTPCNTU	5A4	
MCTOJMTH	53C		MCTPCRTH	44	
MCTOJMTP	538		MCTPCRTP	40	
MCTOJMTU	538		MCTPCRTP	3C	
MCTOJRTD	104		MCTPCRTP	3C	
MCTOJRTH	100		MCTPDDTD	5DC	
MCTOJRTP	FC		MCTPDDTH	5D8	
MCTOJRTU	FC		MCTPDDTP	5D4	
MCTOJTTD	110		MCTPDDTU	5D4	
MCTOJTTH	10C		MCTPDTHD	5B8	
MCTOJTTP	108		MCTPDTHH	5B4	
MCTOJTU	108		MCTPDTHP	5B0	
MCTOPDTD	558		MCTPDTHU	5B0	
MCTOPDTH	554		MCTPITTD	474	
MCTOPDTP	550		MCTPITTH	470	
MCTOPDTU	550		MCTPITTP	46C	
MCTOPTTD	5C		MCTPITTU	46C	
MCTOPTTH	58		MCTPLMTH	234	
MCTOPTTP	54		MCTPLMTP	234	
MCTOPTTU	54		MCTPPRTH	228	
MCTOPYTD	570		MCTPPRTP	228	
MCTOPYTH	56C		MCTPRCTH	218	
MCTOPYTP	568		MCTPRCTP	218	
MCTOPYTU	568		MCTPRFTD	750	
MCTOSMTD	54C		MCTPRFTH	74C	
MCTOSMTH	548		MCTPRFTP	748	
MCTOSMTP	544		MCTPRFTU	748	
MCTOSMTU	544		MCTPRLTD	140	
MCTOSRTD	11C		MCTPRLTH	13C	
MCTOSRTH	118		MCTPRLTP	138	
MCTOSRTP	114		MCTPRLTU	138	
MCTOSRTU	114		MCTPRTTD	134	
MCTOSTTD	128		MCTPRTTH	130	
MCTOSTTH	124		MCTPRTTP	12C	
MCTOSTTP	120		MCTPRTTU	12C	
MCTOSTTU	120		MCTPRWTD	78C	
MCTOTPTD	57C		MCTPRWTH	788	
MCTOTPTH	578		MCTPRWTP	784	
MCTOTPTP	574		MCTPRWTU	784	
MCTOTPTU	574		MCTPTDTD	5D0	

## \$MCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
MCTPTDTH	5CC		MCTRPUTD	194	
MCTPTDTP	5C8		MCTRPUTH	190	
MCTPTDTU	5C8		MCTRPUTP	18C	
MCTPHTD	594		MCTRPUTU	18C	
MCTPTHTH	590		MCTRQJTD	170	
MCTPHTP	58C		MCTRQJTH	16C	
MCTPHTU	58C		MCTRQJTP	168	
MCTPUDTD	5E8		MCTRQJTU	168	
MCTPUDTH	5E4		MCTRRDTD	1A0	
MCTPUDTP	5E0		MCTRRDTH	19C	
MCTPUDTU	5E0		MCTRRDTP	198	
MCTPUNTD	14C		MCTRRDTU	198	
MCTPUNTH	148		MCTSAFTH	21C	
MCTPUNTP	144		MCTSAFTP	21C	
MCTPUNTU	144		MCTSAWTD	7EC	
MCTPUWTD	798		MCTSAWTH	7E8	
MCTPUWTH	794		MCTSAWTP	7E4	
MCTPUWTP	790		MCTSAWTU	7E4	
MCTPUWTU	790		MCTSBDTD	6C0	
MCTRANTH	208		MCTSBDTH	6BC	
MCTRANTP	208		MCTSBDTP	6B8	
MCTRAUTD	624		MCTSBDTU	6B8	
MCTRAUTH	620		MCTSCTTD	654	
MCTRAUTP	61C		MCTSCTTH	650	
MCTRAUTU	61C		MCTSCTTP	64C	
MCTRCNTD	1AC		MCTSCTTU	64C	
MCTRCNTH	1A8		MCTSEPTD	714	
MCTRCNTP	1A4		MCTSEPTH	710	
MCTRCNTU	1A4		MCTSEPTP	70C	
MCTRCVTD	63C		MCTSEPTU	70C	
MCTRCVTH	638		MCTSESTD	318	
MCTRCVTP	634		MCTSESTH	314	
MCTRCVTU	634		MCTSESTP	310	
MCTRDITD	158		MCTSESTU	310	
MCTRDITH	154		MCTSKCTH	28C	
MCTRDITP	150		MCTSKCTP	28C	
MCTRDITU	150		MCTSMFTD	660	
MCTRDRTD	164		MCTSMFTH	65C	
MCTRDRTH	160		MCTSMFTP	658	
MCTRDRTP	15C		MCTSMFTU	658	
MCTRDRTU	15C		MCTSNATD	30C	
MCTRDTTD	2C		MCTSNATH	308	
MCTRDTHH	28		MCTSNATP	304	
MCTRDTHP	24		MCTSNATU	304	
MCTRDTHU	24		MCTSOKTD	1DC	
MCTRDVTD	17C		MCTSOKTH	1D8	
MCTRDVTH	178		MCTSOKTP	1D4	
MCTRDVTP	174		MCTSOKTU	1D4	
MCTRDVTU	174		MCTSPCTD	36C	
MCTREDTD	630		MCTSPCTH	368	
MCTREDTH	62C		MCTSPCTP	364	
MCTREDTP	628		MCTSPCTU	364	
MCTREDTU	628		MCTSPDTD	678	
MCTRMTTD	648		MCTSPDTH	674	
MCTRMTHH	644		MCTSPDTP	670	
MCTRMTHP	640		MCTSPDTU	670	
MCTRMTHU	640		MCTSPLTD	66C	
MCTRNGTH	210		MCTSPLTH	668	
MCTRNGTP	210		MCTSPLTP	664	
MCTRN2TH	214		MCTSPLTU	664	
MCTRN2TP	214		MCTSPSTH	290	
MCTRPRTD	188		MCTSPSTP	290	
MCTRPRTH	184		MCTSRWTD	7C8	
MCTRPRTP	180		MCTSRWTH	7C4	
MCTRPRTU	180		MCTSRWTP	7C0	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
MCTSRWTU	7C0		MCTVKPTP	394	
MCTSSITD	708		MCTVKPTU	394	
MCTSSITH	704		MCTVLTTD	390	
MCTSSITP	700		MCTVLTHH	38C	
MCTSSITU	700		MCTVLTHP	388	
MCTSTATD	6F0		MCTVLTHU	388	
MCTSTATH	6EC		MCTVOJLH	280	
MCTSTATP	6E8		MCTVOJLP	280	
MCTSTATU	6E8		MCTVOJTH	244	
MCTSTWTD	7BC		MCTVOJTP	244	
MCTSTWTH	7B8		MCTVOLTH	220	
MCTSTWTP	7B4		MCTVOLTP	220	
MCTSTWTU	7B4		MCTVOSTH	240	
MCTSTYTD	4D4		MCTVOSTP	240	
MCTSTYTH	4D0		MCTVSFTH	250	
MCTSTYTP	4CC		MCTVSFTP	250	
MCTSTYTU	4CC		MCTVSOFH	270	
MCTSUBTD	1B8		MCTVSOPF	270	
MCTSUBTH	1B4		MCTVSRTH	248	
MCTSUBTP	1B0		MCTVSRTP	248	
MCTSUBTU	1B0		MCTVSSTH	25C	
MCTTGSTD	690		MCTVSSTP	25C	
MCTTGSTH	68C		MCTVSTTH	24C	
MCTTGSTP	688		MCTVSTTP	24C	
MCTTGSTU	688		MCTVTMTH	1F0	
MCTTIDTD	38		MCTVTMTP	1F0	
MCTTIDTH	34		MCTVUNTD	72C	
MCTTIDTP	30		MCTVUNTH	728	
MCTTIDTU	30		MCTVUNTP	724	
MCTTLGTD	6FC		MCTVUNTU	724	
MCTTLGTH	6F8		MCTVVUDH	274	
MCTTLGTP	6F4		MCTVVUDP	274	
MCTTLGTU	6F4		MCTVWSAH	254	
MCTTPDTD	6CC		MCTVWSAP	254	
MCTTPDTH	6C8		MCTVWSTH	23C	
MCTTPDTP	6C4		MCTVWSTP	23C	
MCTTPDTU	6C4		MCTVXMTD	348	
MCTTRCTD	6D8		MCTVXMTH	344	
MCTTRCTH	6D4		MCTVXMTP	340	
MCTTRCTP	6D0		MCTVXMTU	340	
MCTTRCTU	6D0		MCTWCTTD	6A8	
MCTTRITD	6E4		MCTWCTTH	6A4	
MCTTRITH	6E0		MCTWCTTP	6A0	
MCTTRITP	6DC		MCTWCTTU	6A0	
MCTTRITU	6DC		MCTWMCTD	6B4	
MCTVCATH	258		MCTWMCTH	6B0	
MCTVCATP	258		MCTWMCTP	6AC	
MCTVIATD	720		MCTWMCTU	6AC	
MCTVIATH	71C		MCTWSCTD	69C	
MCTVIATP	718		MCTWSCTH	698	
MCTVIATU	718		MCTWSCTP	694	
MCTVISTH	260		MCTWSCTU	694	
MCTVISTP	260		MCTXITTD	42C	
MCTVJABH	27C		MCTXITTH	428	
MCTVJABP	27C		MCTXITTP	424	
MCTVJCTH	264		MCTXITTU	424	
MCTVJCTP	264		MCTXRLTD	438	
MCTVJOFH	26C		MCTXRLTH	434	
MCTVJAFP	26C		MCTXRLTP	430	
MCTVJSTH	268		MCTXRLTU	430	
MCTVJSTP	268		MCTXRTTH	200	
MCTVJVLH	278		MCTXRTTP	200	
MCTVJVLP	278		MCTZJBD	738	
MCTVKPTD	39C		MCTZJBTH	734	
MCTVKPTH	398		MCTZJBTP	730	

## \$MCT Cross Reference

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
MCTZJBTU	730	
MCT4KPTD	744	
MCT4KPTH	740	
MCT4KPTP	73C	
MCT4KPTU	73C	

## \$MIGROBJ Heading Information

**Common Name:** Migration object  
**Macro ID:** \$MIGROBJ  
**DSECT Name:** MIGROBJ  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** Volume serial  
 Offset: MIGKEY-MIGROBJ  
 Length: L'MIGKEY

**Storage Attributes:** Subpool: 0  
 Key: 1  
 Residency: Virtual and real storage are in 31 bit storage in the private storage of the JES2 address space.

**Size:** See MIGSIZ

**Created by:** \$DOGDAS - create migration recovery object  
**Pointed to by:** Pointer returned by \$DOGMIG service  
**Serialization:** Update access is serialized by the BERT lock  
**Function:** The \$MIGROBJ is stored in BERTs in the JES2 checkpoint structure. The object is accessed via the source volume serial of the migrating SPOOL volume.

This macro maps a migration object. The scope of a recovery object is one migration being either a move or merge. Each and every migration has one. A migration recovery object serves two purposes. First it will house a target DAS for a move migration. Secondly it contains recovery fields to restart or cancel a migration should the migrator -- member go away. The layout is as follows:

```

-----
| BERT backed target DAS - support of MOVE
-----
| Source VOLID
-----
| Recovery data (For move and merge)
-----
    
```

This object is BERT backed. Keyed BERT - keyed on source VOLID.

## \$MIGROBJ Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MIGROBJ	
0	(0)	BITSTRING	212	MIGDAS	BERT backed DAS in support of move migration
212	(D4)	CHARACTER	6	MIGKEY	Migration source DAS VOLID - key BERT access for merge and move.

Comment

---

Information used to drive migration recovery  
 These fields are memory only (not in BERTs)

---

End of Comment

220	(DC)	SIGNED	4	(0)	Alignment
-----	------	--------	---	-----	-----------

## \$MIGROBJ Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
220	(DC)	BITSTRING	1	RCGENINF	General recovery info
Comment					
<p>-----</p> <p>Following 3 fields define migration recovery types which DADMSET1 will perform. Rotuine MIGRRECV (migration recovery) sets the recovery type and are interpreted by DADMSET1 (Recovery setup).</p> <p>-----</p>					
End of Comment					
		1... ..		RCFULL	"B'10000000" FULL-RECOVERY. Given source DAS our member becomes migrator and our migration assistant is also initialized.
		.1... ..		RCMIGRAT	"B'01000000" MIGRATOR-TAKEOVER. Given source DAS our member becomes migrator. Our migration assistant is OK.
		..1... ..		RCASSIST	"B'00100000" ASSISTANT-RECOVERY. Given source DAS just recover our migration assistant
221	(DD)	BITSTRING	3		Reserved
224	(E0)	ADDRESS	4	RCMIGDTE	MIGR DTE address
Comment					
Source DAS recovery information (BERT backed)					
End of Comment					
232	(E8)	DBL WORD	8	RCSRCSTR (0)	Start of source info
232	(E8)	BITSTRING	1	RCRSRINF	Source dataset info
233	(E9)	BITSTRING	1	RCRSRSTS	Source migration status
		1... ..		RCRGMDN	"B'10000000" DAMMCLU1 - TARGTGM - This migration has run TARGTGM once either in normal or recovery mode and must never run again. If we crash during TARGTGM the sniffer will recover target TGM in time.
234	(EA)	BITSTRING	2		Reserved
236	(EC)	SIGNED	4	RCSRCST	Relative track at which source dataset starts. Set by SPOL PCE in DAS7SET2 OR DAS7SET3. Only valid if source DAS is using relative addressing
240	(F0)	SIGNED	4	RCRHITG	SRC DAS TG associated with highwater mark.
244	(F4)	SIGNED	4	RCRSRTRK	Number of tracks required to house source dataset - up to highwater mark. Set by SPOL PCE in DAS7SET2 or DAS7SET3.
248	(F8)	SIGNED	4	RCSRBTR	Number of records needed to store the TLBM (track levelbitmap)
252	(FC)	SIGNED	4	RCRNUMRQ	Total number of tracks which must be migrated for this migration.
256	(100)	SIGNED	4	RCSRECT	Number of records per track
260	(104)	SIGNED	4	RCSRTRC	Tracks per cylinder
264	(108)	BITSTRING	1	RCRSRFX	One to ensure max BERT
272	(110)	DBL WORD	8	(0)	Align section
272	(110)	X'E8'	0	RCSRCINF	"RCSRCSTR,*-RCSRCSTR" Source info segment in BERTs
Comment					
End source DAS					
Target DAS recovery information (BERT backed)					
End of Comment					
272	(110)	DBL WORD	8	RCTRGSTR (0)	Start of target info
272	(110)	CHARACTER	6	RCVOLID	EBCDIC VOLSER ID of target.
278	(116)	BITSTRING	2		Reserved
280	(118)	SIGNED	4	RCRMIGRC	Number of tracks required on target dataset to house TLBM.
284	(11C)	SIGNED	4	RCRTGTG	Number of TGs in target



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
288	(120)	SIGNED	4	RCRTGSTT	Start TG reserved in target DAS TGM for pending migration - is one based. Valid for merge only.
292	(124)	SIGNED	4	RCRTGENT	End TG reserved in target DAS TGM for pending migration. This is one one based. Valid for merge only.
296	(128)	SIGNED	4	RCRTGWRT	Relative track at which to write data. Set by SPOL PCE in DAS7SET2 or DAS7SET3.
300	(12C)	SIGNED	4	RCATGWRT	Absolute track at which to write data. Set by SPOL PCE in DAS7SET2 OR DAS7SET3.
304	(130)	SIGNED	4	RCRSBTAS	Relative track at which the track level bitmap starts on target volume
308	(134)	SIGNED	4	RCRTDAST	Target DASSTRK value
312	(138)	BITSTRING	1	RCRTGINF	Target dataset info
313	(139)	BITSTRING	2		Reserved
316	(13C)	SIGNED	4	RCRTGTRC	Tracks per cylinder
320	(140)	SIGNED	4	RCRTRECT	Records per track for target
324	(144)	BITSTRING	1	RCRTGFIX	One to ensure max BERT
328	(148)	DBL WORD	8	(0)	Align section
328	(148)	X'110'	0	RCTRGINF	"RCTRGSTR,*-RCTRGSTR" Target info segment in BERTs
Comment					
End target DAS					
End of Comment					
328	(148)	X'148'	0	MIGSIZ	**-"MIGROBJ" Size of migration object

**\$MIGROBJ Cross Reference**

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
MIGDAS	0		RCTRGINF	148	110
MIGKEY	D4		RCTRGSTR	110	
MIGROBJ	0		RCVOLID	110	40404040
MIGSIZ	148	148			
RCASSIST	DC	20			
RCATGWRT	12C				
RCFULL	DC	80			
RCGENINF	DC				
RCMIGDTE	E0				
RCMIGRAT	DC	40			
RCRGMDN	E9	80			
RCRHITG	F0				
RCRMIGRC	118				
RCRNUMRQ	FC				
RCRSBITR	F8				
RCRSBTAS	130				
RCRSRCST	EC				
RCRSRECT	100				
RCRSRFX	108				
RCRSRINF	E8				
RCRSRSTS	E9				
RCRSRTRC	104				
RCRSRTRK	F4				
RCRTDAST	134				
RCRTGENT	124				
RCRTGFIX	144				
RCRTGINF	138				
RCRTGSTT	120				
RCRTGTG	11C				
RCRTGTRC	13C				
RCRTGWRT	128				
RCRTRECT	140				
RCSRCINF	110	E8			
RCSRCSTR	E8				

## \$MIGROBJ Cross Reference

## \$MIT Heading Information

**Common Name:** Module Information Table  
**Macro ID:** \$MIT  
**DSECT Name:** MIT  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'MIT '  
 Offset: MITID-MIT  
 Length: 4

**Storage Attributes:** Subpool: The subpool of the load module involved  
 Key: The key of the load module involved  
 Residency: In the JES2 address space, common storage, or the address space of a JES2 FSS, above or below the 16M line, dependent on the environment and RMODE of the load module involved.

**Size:** See the MITLNGTH equate and the MITLEN field.  
**Created by:** A MIT is created by the assembly of a JES2 base, sample, or installation exit module, using the \$MODULE macro to define the module setup.

**Pointed to by:** The MIT for a module is at the start of its CSECT. MITs for modules in JES2 multi-csect load modules are pointed to by the \$MODMAP entries. MITs for modules in single-csect load modules, such as exits, are pointed to by the load module's \$LMT control block.

**Serialization:** MITs should be considered read-only control blocks.  
**Function:** The MITs are used to define and validate code modules used in the JES2 component, whether an IBM module or an installation exit module. They are also used to collect and display exit point and exit routine information, module offsets for various addresses, and other data for problem determination.

All JES2 modules must have a MIT at their front, and MTEs at the end.

## \$MIT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MIT	HASP MODULE INFO TABLE DSECT
0	(0)	CHARACTER	4	MITID	MIT IDENTIFIER FIELD
4	(4)	CHARACTER	8	MITNAME	NAME OF MODULE
12	(C)	CHARACTER	8	MITVRSN	VERSION OF THIS JES2 RELEASE
20	(14)	CHARACTER	8	MITUVRSN	USER VERSION OF THIS JES2 REL
28	(1C)	CHARACTER	8	MITUSER	RESERVED FOR USER
36	(24)	ADDRESS	1	MITCBV	Control block version
36	(24)	X'1'	0	MITCBVE	"1" Control block version equ
37	(25)	CHARACTER	1	MITENVIR	Module assembly environment
37	(25)	X'D1'	0	MITENVJ	"C'J" JES2 main task environment
37	(25)	X'E2'	0	MITENV5	"C'S" JES2 subtask environment
37	(25)	X'E4'	0	MITENVU	"C'U" all-addrspc USER environ
37	(25)	X'C6'	0	MITENVF	"C'F" FSS addrspc environment
37	(25)	X'C9'	0	MITENVI	"C'I" IPCS environment
37	(25)	X'D4'	0	MITENVM	"C'M" JES2 monitor environment
37	(25)	X'E5'	0	MITENVV	"C'V" Various environs in module
37	(25)	X'C4'	0	MITENV D	"C'D" Documentation
38	(26)	ADDRESS	2	MITLEN	Length of this MIT

## \$MIT Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
40	(28)	CHARACTER	1	MITMVRSN	VERSION OF THE MACLIBS USED TO ASSEMBLE THIS MODULE, FROM THE SPLEVEL MACRO
41	(29)	ADDRESS	1	MITFLAG1	MIT FLAG 1
		1... ....		MIT1OCO	"B'10000000" O C O module
		.1.. ....		MIT1BSPL	"B'01000000" Bypass MVS SPLEVEL check during module load
		..1. ....		MIT1IBMB	"B'00100000" Base module in the IBM JES2 product
		...1 ....		MIT1IBMS	"B'00010000" Sample module (e.g. exit) in the IBM JES2 product
		.... 1...		MIT1PTF	"B'00001000" PTFNUM field exists
		.... .1..		MIT1NDYN	"B'00000100" Module does not support dynamic operations
42	(2A)	ADDRESS	2		Reserved for future use
44	(2C)	CHARACTER	8	MITFMID	JES2 SMP product FMID
52	(34)	CHARACTER	8	MITDATE	DATE OF ASSEMBLY
60	(3C)	CHARACTER	5	MITTIME	TIME OF ASSEMBLY
65	(41)	ADDRESS	3	MITMODSZ	Length of assembly module (up through \$MODEND)
68	(44)	ADDRESS	4	MITENTAD	ADDRESS OF MIT ENTRY TABLE
72	(48)	ADDRESS	4	MITXMAPA	Addr of 32 byte (256 bit) bit mask for exit points in this module
76	(4C)	ADDRESS	4	MITAPARN	Pointer to 8 byte APARNUM if it exists, else to this MIT's MITUVRSN field
80	(50)	DBL WORD	8	(0)	ENSURE MIT ENDS ON DOUBLEWORD
80	(50)	X'50'	0	MITLNPTH	**"-MIT" Length of a MIT

## \$MIT Cross Reference

Name	Hex Offset	Hex Value
MIT	0	
MITAPARN	4C	
MITCBV	24	
MITCBVE	24	1
MITDATE	34	
MITENTAD	44	
MITENV D	25	C4
MITENV F	25	C6
MITENV I	25	C9
MITENVIR	25	
MITENVJ	25	D1
MITENVM	25	D4
MITENV S	25	E2
MITENVU	25	E4
MITENVV	25	E5
MITFLAG1	29	
MITFMID	2C	
MITID	0	
MITLEN	26	
MITLNPTH	50	50
MITMODSZ	41	
MITMVRSN	28	
MITNAME	4	
MITTIME	3C	
MITUSER	1C	
MITUVRSN	14	
MITVRSN	C	
MITXMAPA	48	
MIT1BSPL	29	40
MIT1IBMB	29	20
MIT1IBMS	29	10
MIT1NDYN	29	4
MIT1OCO	29	80
MIT1PTF	29	8

## \$MITETBL Heading Information

**Common Name:** Module Information Table Entries  
**Macro ID:** \$MITETBL  
**DSECT Name:** MTE  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** '\$\$\$\$MTES' (as the first MTE's MTENAME)  
 Offset: MTENAME of the first MTE - MTE  
 Length: 8

**Storage Attributes:** Subpool: The subpool of the load module involved  
 Key: The key of the load module involved  
 Residency: In the JES2 address space, common storage, or the address space of a JES2 FSS, above or below the 16M line, dependent on the environment and RMODE of the load module involved.

**Size:** See the MTELEN equate.  
**Created by:** The MTEs for a module are created by the assembly of a JES2 base, sample, or installation exit module, using the \$MODULE macro to define the module setup, the \$ENTRY macro to define the entry points (MTEs), and \$MODEND to perform the module epilog.

**Pointed to by:** The MTEs for a module are at the end of its CSECT. The MITENDAD field in the module's MIT at the front of module points to the first MTE.

**Serialization:** MTEs should be considered read-only control blocks.  
**Function:** The MTEs are used to define and validate code modules used in the JES2 component, whether an IBM module or an installation exit module. They are also used to collect and display exit point and exit routine information, module offsets for various addresses, and other data for problem determination.

All JES2 modules must have a MIT at their front, and MTEs at the end.

## \$MITETBL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MTE	HASP MIT ENTRY TABLE DSECT
0	(0)	CHARACTER	8	MTENAME	NAME FROM \$ENTRY
8	(8)	ADDRESS	4	MTEADDR	Address of the entry point
12	(C)	BITSTRING	1	MTEFLAG1	Type of entry pt, multiple flags may be set, or none
		1.. ....		MTEF1CAD	"B'10000000" MTEADLOF is CADDR offset
		.1.. ....		MTEF1COF	"B'01000000" MTEADLOF is an OCOOFFST offset, and that field contains a CADDR offset
		..1. ....		MTEF1PAD	"B'00100000" MTEADLOF is PADDR offset
		...1 ....		MTEF1POF	"B'00010000" MTEADLOF is an OCOOFFST offset, and that field contains a PADDR offset
		.... .1..		MTEF1CCT	"B'00000100" MTEADLOF is CCT table pair offset
		.... .1.		MTEF1MCT	"B'00000010" MTEADLOF is MCT table pair offset
		.... ...1		MTEF1UCT	"B'00000001" MTEADLOF is UCT table pair offset
13	(D)	CHARACTER	1	MTEENVIR	Assembly environment (see the MITENVIR equates)
14	(E)	BITSTRING	1	MTEFLAG2	More flags
		1.. ....		MTEF2TAB	"B'10000000" MTE represents a table
		.1.. ....		MTEF2DUP	"B'01000000" MTE is a duplicate entry
		..1. ....		MTEF2SSI	"B'00100000" SSI entry point
		...1 ....		MTEF2\$EX	"B'00010000" \$EXIT pt #, not callable

## \$MITETBL Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
15	(F)	BITSTRING	1		Reserved for future use
16	(10)	BITSTRING	2	MTEADLOF	Offset in CADDR, PADDR, or OCOOFFST, if any
18	(12)	BITSTRING	1	MTESSI\$E	SSI # minus 1 if MTEF1SSI, or \$EXIT pt # if MTEF1\$EX
19	(13)	BITSTRING	1	MTETBTYP	Table type if MTEF1TAB is set - the type is also used by the \$GETABLE and \$PUTABLE services
19	(13)	X'0'	0	MTETPCE	"0" Table is \$PCETAB
19	(13)	X'1'	0	MTETDCT	"1" Table is \$DCTTAB
19	(13)	X'2'	0	MTETDTE	"2" Table is \$DTETAB
19	(13)	X'3'	0	MTETTID	"3" Table is \$TIDTAB
19	(13)	X'4'	0	MTETPCR	"4" Table is \$PCTAB
19	(13)	X'5'	0	MTETBERT	"5" Table is \$BERTTAB
19	(13)	X'6'	0	MTETWST	"6" Table is \$WSTAB
19	(13)	X'7'	0	MTETSCAN	"7" Table is \$SCANTAB
19	(13)	X'14'	0	MTELEN	**MTE" LENGTH OF ENTRY

## \$MITETBL Cross Reference

Name	Hex Offset	Hex Value
MTE	0	
MTEADDR	8	
MTEADLOF	10	
MTEENVIR	D	
MTEFLAG1	C	
MTEFLAG2	E	
MTEF1CAD	C	80
MTEF1CCT	C	4
MTEF1COF	C	40
MTEF1MCT	C	2
MTEF1PAD	C	20
MTEF1POF	C	10
MTEF1UCT	C	1
MTEF2\$EX	E	10
MTEF2DUP	E	40
MTEF2SSI	E	20
MTEF2TAB	E	80
MTELEN	13	14
MTENAME	0	
MTESSI\$E	12	
MTETBERT	13	5
MTETBTYP	13	
MTETDCT	13	1
MTETDTE	13	2
MTETPCE	13	0
MTETPCR	13	4
MTETSCAN	13	7
MTETTID	13	3
MTETWST	13	6

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**\$MLMWORK Programming Interface information**

Programming Interface information

**\$MLMWORK**

End of Programming Interface information

**\$MLMWORK Heading Information**

**Common Name:** Line manager PCE work area  
**Macro ID:** \$MLMWORK  
**DSECT Name:** PCE  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** PCE  
 Offset: PCEEYE  
 Length: L'PCEEYE

**Storage Attributes:** Subpool: 25  
 Key: 1  
 Residency: Virtual and real storage are anywhere, above or below 16M, in private storage of the JES2 address space.

**Size:** See MLMLLEN  
**Created by:** \$PCEDYN service during JES2 initialization  
**Pointed to by:** \$MLLMPC field of the \$HCT data area  
**Serialization:** JES2 main task  
**Function:** The fields in this work area are used by the JES2 line manager processor. \$MLMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$MLMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEMLMID in the second byte of field PCEID.

This PCE is not device related. Field PCEDCT is zero.

**\$MLMWORK Map**

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP MULTI-LEAVING LINE MANAGER
312	(138)	DBL WORD	8	MLMCLOCK	LINE MANAGER LAST DISPATCH TIME
320	(140)	BITSTRING	12	MLMTQE	LINE MANAGER TIMER QUE ELEMENT
332	(14C)	ADDRESS	4	MLMDTIME	LINE MANAGER NEXT DISC LOOK TIME
336	(150)	ADDRESS	4	MLMATIME	LINE MANAGER NEXT AUTOLOGON SCAN TIME
340	(154)	ADDRESS	4	MLMQUES (0)	Start of MLM queues
340	(154)	ADDRESS	4	MLMBSCAL	LINE MANAGER ACTIVE BSC LINES PTR
344	(158)	ADDRESS	4	MLMSNALG	LINE MANAGER ACTIVE LOGON DCT PTR
348	(15C)	ADDRESS	4	MLMSNAAL	LINE MANAGER ACTIVE LINE DCT PTR
352	(160)	ADDRESS	4	MLMSNAIL	LINE MANAGER IDLE SNA LINES PTR
356	(164)	ADDRESS	4	MLMTCPAL	LINE MANAGER ACTIVE TCP LINES PTR
360	(168)	ADDRESS	4	MLMTCPIL	LINE MANAGER IDLE TCP LINES PTR
364	(16C)	ADDRESS	4	MLMTCPSV	LINE MANAGER ACTIVE SERVER DCT
368	(170)	ADDRESS	4	MLMTCPST	LINE MANAGER STARTING SERVER
372	(174)	ADDRESS	4	MLMLOGQ	LINE MANAGER LOGON DCT QUEUE
376	(178)	ADDRESS	4	MLMICEQ	LINE MANAGER SCHED ICE QUEUE
380	(17C)	ADDRESS	4	MLMRPLQ	Line mgr SNA/RPL buffer q
384	(180)	ADDRESS	4	MLMBSCQ	Line mgr BSC buffer queue
388	(184)	ADDRESS	4	MLMWORKQ	LINE MANAGER ACTIVE WORK QUEUE
392	(188)	ADDRESS	4	MLMASWLQ	Line mgr active SWEL queue

Comment

Posted SWEL queues. These queues must be kept together.

End of Comment

396	(18C)	ADDRESS	4	MLMPSWLQ (0)	Line mgr Posted SWEL Queues
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Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
396	(18C)	ADDRESS	4	MLMPSWLB	Line mgr BSC Posted SWEL Q
400	(190)	ADDRESS	4	MLMPSWLS	Line mgr SNA Posted SWEL Q

Comment

MLMSCNI1, MLMSCNI2, and MLMEVNTI represent actions to be performed on the NEXT scan of the line manager and must be kept together.

End of Comment

404	(194)	BITSTRING	1	MLMSCNI1	LINE MANAGER DCT SCAN INDICATOR
		1... ....		MLMSBUNT	"B'10000000" SCAN INACTIVE BSC LINE DCT
		.1.. ....		MLMSBACT	"B'01000000" SCAN ACTIVE BSC LINE DCTS
		..1. ....		MLMSSIDL	"B'00100000" SCAN IDLE SNA LINE DCTS
		...1 ....		MLMSSLOG	"B'00010000" SCAN ACTIVE SNA LOGON DCTS
		.... 1...		MLMSSLNE	"B'00001000" SCAN ACTIVE SNA LINE DCTS
		...1 1...		MLMSSALL	"B'00011000" SCAN ACTIVE SNA LOGON/LINE
		.... .1..		MLMSRAT	"B'00000100" SCAN RAT
		.... .1.		MLMSSUNT	"B'00000010" SCAN INACTIVE SNA LINE/LOGON DCTS
		.... ...1		MLMSSVFY	"B'00000001" DO QUEUE VALIDATION
405	(195)	BITSTRING	1	MLMSCNI2	LINE MANAGER DCT SCAN INDICATOR
		1... ....		MLMSTUNT	"B'10000000" SCAN INACTIVE TCP LINE DCTS
		.1.. ....		MLMSTIDL	"B'01000000" SCAN IDLE TCP LINE DCTS
		..1. ....		MLMSTACT	"B'00100000" SCAN ACTIVE TCP LINE DCTS
		...1 ....		MLMSTSRV	"B'00010000" SCAN ACTIVE TCP SERVER DCTS
406	(196)	BITSTRING	1	MLMEVNTI	LINE MANAGER GEN EVENT INDICATOR
		1... ....		MLMEPJOB	"B'10000000" EVENT \$JOT POST OCCURED
		.1.. ....		MLMETIME	"B'01000000" EVENT TIMER INTERRUPT OCCURED
		..1. ....		MLMEDISC	"B'00100000" EVENT DISCON INTERVAL OCCURED
		...1 ....		MLMEALM	"B'00010000" A REMOTE IS IN AUTOLOGON MODE
		.... 1...		MLMEMXSS	"B'00001000" MAXSESS HAS BEEN EXCEEDED
		.... .1..		MLMECKPT	"B'00000100" CHECKPOINT POST OCCURED

Comment

MLMSCNR1, MLMSCNR2, and MLMEVNTR represent actions to be performed on the CURRENT scan of the line manager and must be kept together. The flag definitions are the same as for MLMSCNI1, MLMSCNI2, and MLMEVNTI.

End of Comment

407	(197)	BITSTRING	1	MLMSCNR1	LINE MANAGER REQ SCAN INDICATOR
408	(198)	BITSTRING	1	MLMSCNR2	LINE MANAGER REQ SCAN INDICATOR
409	(199)	BITSTRING	1	MLMEVNTR	LINE MANAGER REQ EVENT INDICATOR
412	(19C)	ADDRESS	4	MLMSCANA	LINE MANAGER SCAN TABLE ADDRESS
416	(1A0)	ADDRESS	4	MLMICEQ2	LINE MANAGER RE-SCHED ICE Q
420	(1A4)	ADDRESS	2	MLMSEQWK	BSC CPU SEQUENCE CHECK WORK AREA
422	(1A6)	ADDRESS	2	MLMFCSWL	FUNCTION CNTL SEQUENCE WORK AREA
424	(1A8)	ADDRESS	1	MLMCMDTP	BSC RJE CCW COMMAND TYPE
425	(1A9)	ADDRESS	1	MLMFLAG1	LINE MANAGER FLAGS
		1... ....		MLM1LOGI	"B'10000000" RPL DIAGNOSTIC LOGGING INDICATOR
		.1.. ....		MLM1WRK1	"B'01000000" MULTI-PURPOSE WORK FLAG
		..1. ....		MLM1TIST	"B'00100000" ONE SECOND INTERVAL TIMER SET
		...1 ....		MLM1TIRQ	"B'00010000" ONE SECOND TIMER REQUESTED
		.... 1...		MLM1PWIG	"B'00001000" New password ignored msg
		.... .1..		MLM1LOJS	"B'00000100" Logon decision by JES2
		.... .1.		MLM1PNPM	"B'00000010" MLLM should post NPM
		.... ...1		MLM1DERR	"B'00000001" MLLM has checked for double-queued buffer
426	(1AA)	SIGNED	2	MLMICESQ	Current ICE trace seq numb

## \$MLMWORK Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
428	(1AC)	SIGNED	4	MLMWCNT1	MLM scan rtn work counter 1
432	(1B0)	SIGNED	4	MLMWCNT2	MLM scan rtn work counter 2
436	(1B4)	SIGNED	4	MLMXPARM (0)	EXIT POINT PARAMETER LIST
436	(1B4)	SIGNED	4	MLMXRAT	ADDRESS OF RAT TABLE OR ENTRY
440	(1B8)	SIGNED	4	MLMXLDCT	ADDRESS OF LINE DCT
444	(1BC)	SIGNED	4	MLMXICE	ADDRESS OF ICE FOR SNA
448	(1C0)	SIGNED	4	MLMXCRDA	ADDRESS OF CARD IMAGE
452	(1C4)	SIGNED	4	MLMXCRDL	LENGTH OF CARD IMAGE
456	(1C8)	CHARACTER	80	MLMSONCD	SIGN-ON CARD INPUT AREA
536	(218)	CHARACTER	1	MLMLGWRK	Logon/Signon work space
536	(218)	X'224'	0	MLMLGNAM	"CAPENAM-CAPE+MLMLGWRK" Remote terminal name
536	(218)	X'22C'	0	MLMLGLPW	"CAPELPW-CAPE+MLMLGWRK" Line group password
536	(218)	X'234'	0	MLMLGRPW	"CAPERPW-CAPE+MLMLGWRK" Terminal Remote Pswd
536	(218)	X'23C'	0	MLMLGNPW	"CAPENPW-CAPE+MLMLGWRK" Terminal New Password
536	(218)	X'244'	0	MLMLGRMT	"CAPEUID-CAPE+MLMLGWRK" Short form rmt name
600	(258)	SIGNED	4	(0)	ALIGN TO FULLWORD
600	(258)	CHARACTER	136	MLMSODCT	BASIC DUMMY RMT DCT
736	(2E0)	ADDRESS	4	MLMWRKIQ	Line Mgr SNA/ICE work queue
740	(2E4)	SIGNED	4	MLMQTTIM	Time of buffer q truncation
744	(2E8)	BITSTRING	54	MLMTWORK	Work area for ICE trace
798	(31E)	BITSTRING	1	MLMRFP	Recovery footprint
799	(31F)	BITSTRING	1	MLMRFPX	Prior recovery footprint
800	(320)	BITSTRING	1	MLMRFPCT	Recovery retry count
801	(321)	BITSTRING	1	MLMRFFG1	Flag for MLLM scan rtn with its own recovery
		1... ....		MLMRF1AB	"B'10000000" Recursion flag
801	(321)	X'1EA'	0	MLMLEN	"*-PCEWORK" LENGTH OF PCE WORK SPACE

## \$MLMWORK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
MLMASWLQ	188		MLMRFFG1	321	
MLMATIME	150		MLMRFP	31E	
MLMBSCAL	154		MLMRFPCT	320	
MLMBSCQ	180		MLMRFPX	31F	
MLMCLOCK	138		MLMRF1AB	321	80
MLMCMDTP	1A8		MLMRPLQ	17C	
MLMDTIME	14C		MLMSBACT	194	40
MLMEALM	196	10	MLMSBUNT	194	80
MLMECKPT	196	4	MLMSCANA	19C	
MLMEDISC	196	20	MLMSCNI1	194	
MLMEMXSS	196	8	MLMSCNI2	195	
MLMEPJOB	196	80	MLMSCNR1	197	
MLMETIME	196	40	MLMSCNR2	198	
MLMEVNTI	196		MLMSEQWK	1A4	
MLMEVNTR	199		MLMSNAAL	15C	
MLMFCSWL	1A6		MLMSNAIL	160	
MLMFLAG1	1A9		MLMSNALG	158	
MLMICEQ	178		MLMSODCT	258	
MLMICEQ2	1A0		MLMSONCD	1C8	
MLMICESQ	1AA		MLMSRAT	194	4
MLMLEN	321	1EA	MLMSSALL	194	18
MLMLGLPW	218	22C	MLMSSIDL	194	20
MLMLGNAM	218	224	MLMSSLNE	194	8
MLMLGNPW	218	23C	MLMSSLOG	194	10
MLMLGRMT	218	244	MLMSSUNT	194	2
MLMLGRPW	218	234	MLMSSVFY	194	1
MLMLGWRK	218		MLMSTACT	195	20
MLMLOGQ	174		MLMSTIDL	195	40
MLMPSWLB	18C		MLMSTSRV	195	10
MLMPSWLQ	18C		MLMSTUNT	195	80
MLMPSWLS	190		MLMTCPAL	164	
MLMQTTIM	2E4		MLMTCPIL	168	
MLMQUES	154		MLMTCPST	170	

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
MLMTCPSV	16C	
MLMTQE	140	
MLMTWORK	2E8	
MLMWCNT1	1AC	
MLMWCNT2	1B0	
MLMWORKQ	184	
MLMWRKIQ	2E0	
MLMXCRDA	1C0	
MLMXCRDL	1C4	
MLMXICE	1BC	
MLMXLDCT	1B8	
MLMXPARM	1B4	
MLMXRAT	1B4	
MLM1DERR	1A9	1
MLM1LOGI	1A9	80
MLM1LOJS	1A9	4
MLM1PNPM	1A9	2
MLM1PWIG	1A9	8
MLM1TIRQ	1A9	10
MLM1TIST	1A9	20
MLM1WRK1	1A9	40
PCE	0	



## \$MODMAP Heading Information

**Common Name:** Module map for HASJES20 and HASPINIT  
**Macro ID:** \$MODMAP  
**DSECT Name:** MAP  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: The subpool of the HASJES20 load module  
 Key: 1  
 Residency: Virtual and real storage are below 16M, in the private storage of the JES2 address space.  
**Size:** See the MAPLEN equate.  
**Created by:** The MODMAP is created by assembly of the HASPTABS module in the HASJES20 load module.  
**Pointed to by:** The \$HASPMP field in the \$HCT data area points to the MODMAP.  
**Serialization:** The MODMAP should usually be considered as read-only. Exceptions to this are the times when the HASPINIT load module is loaded and deleted, and when the REP facility establishes a REP BASE.  
**Function:** The MODMAP is used to provide a csect-granular map of the JES2 multi-csect load modules. The multi-csect load modules are HASJES20 and HASPINIT. All other JES2 modules, both for the IBM base JES2 product and for installation exits, are represented by LMT control blocks instead.

The MODMAP also contains entry point addresses for main-task processors and subtasks in the JES2 address space.

## \$MODMAP Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MAP	HASP MODULE DIRECTORY DSECT
0	(0)	X'0'	0	MAPMOD1	*** START OF MODMAP ENTRIES
0	(0)	CHARACTER	8	MAPABS	(not code, for REPs only)
16	(10)	CHARACTER	8	MAPARM	
32	(20)	CHARACTER	8	MAPARMO	
48	(30)	CHARACTER	8	MAPBSC	
64	(40)	CHARACTER	8	MAPCDYN	
80	(50)	CHARACTER	8	MAPCFAL	
96	(60)	CHARACTER	8	MAPCFBF	
112	(70)	CHARACTER	8	MAPCFDE	
128	(80)	CHARACTER	8	MAPCFE	
144	(90)	CHARACTER	8	MAPCFFC	
160	(A0)	CHARACTER	8	MAPCFLE	
176	(B0)	CHARACTER	8	MAPCFMT	
192	(C0)	CHARACTER	8	MAPCFQL	
208	(D0)	CHARACTER	8	MAPCFQU	
224	(E0)	CHARACTER	8	MAPCFRD	
240	(F0)	CHARACTER	8	MAPCFRE	
256	(100)	CHARACTER	8	MAPCFRL	
272	(110)	CHARACTER	8	MAPCFRS	
288	(120)	CHARACTER	8	MAPCFR2	
304	(130)	CHARACTER	8	MAPCFSI	
320	(140)	CHARACTER	8	MAPCFT1	

## \$MODMAP Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
336	(150)	CHARACTER	8	MAPCFUN	
352	(160)	CHARACTER	8	MAPCFWP	
368	(170)	CHARACTER	8	MAPCFWR	
384	(180)	CHARACTER	8	MAPCKCF	
400	(190)	CHARACTER	8	MAPCKDS	
416	(1A0)	CHARACTER	8	MAPCKPT	
432	(1B0)	CHARACTER	8	MAPCKRR	
448	(1C0)	CHARACTER	8	MAPCKVR	
464	(1D0)	CHARACTER	8	MAPCNVS	
480	(1E0)	CHARACTER	8	MAPCNVT	
496	(1F0)	CHARACTER	8	MAPCOMM	
512	(200)	CHARACTER	8	MAPCON	
528	(210)	CHARACTER	8	MAPCSV	
544	(220)	CHARACTER	8	MAPDYN	
560	(230)	CHARACTER	8	MAPEVTL	
576	(240)	CHARACTER	8	MAPEXTA	
592	(250)	CHARACTER	8	MAPFSSP	
608	(260)	CHARACTER	8	MAPHCCT	(not code, for REPs only)
624	(270)	CHARACTER	8	MAPHOPE	
640	(280)	CHARACTER	8	MAPIRA	
640	(280)	X'280'	0	MAPINIT	"MAPIRA,8,C'C"
656	(290)	CHARACTER	8	MAPIRDA	
672	(2A0)	CHARACTER	8	MAPIRMA	
688	(2B0)	CHARACTER	8	MAPIRPL	
704	(2C0)	CHARACTER	8	MAPIRRE	
720	(2D0)	CHARACTER	8	MAPIRSI	
736	(2E0)	CHARACTER	8	MAPJOS	
752	(2F0)	CHARACTER	8	MAPJQS	
768	(300)	CHARACTER	8	MAPMISC	
784	(310)	CHARACTER	8	MAPMSG	
800	(320)	CHARACTER	8	MAPNATS	
816	(330)	CHARACTER	8	MAPNET	
832	(340)	CHARACTER	8	MAPNJT	
848	(350)	CHARACTER	8	MAPNPM	
864	(360)	CHARACTER	8	MAPNRM	
880	(370)	CHARACTER	8	MAPNSR	
896	(380)	CHARACTER	8	MAPNST	
912	(390)	CHARACTER	8	MAPNUC	
928	(3A0)	CHARACTER	8	MAPODSM	
944	(3B0)	CHARACTER	8	MAPPRPU	
960	(3C0)	CHARACTER	8	MAPPSO	
976	(3D0)	CHARACTER	8	MAPRAS	
992	(3E0)	CHARACTER	8	MAPRDR	
1008	(3F0)	CHARACTER	8	MAPRTAM	
1024	(400)	CHARACTER	8	MAPSASR	
1040	(410)	CHARACTER	8	MAPSERV	
1056	(420)	CHARACTER	8	MAPSIR	
1072	(430)	CHARACTER	8	MAPSJFR	
1088	(440)	CHARACTER	8	MAPSNA	
1104	(450)	CHARACTER	8	MAPSPIN	
1120	(460)	CHARACTER	8	MAPSPOL	
1136	(470)	CHARACTER	8	MAPSSRV	
1152	(480)	CHARACTER	8	MAPSTAB	
1168	(490)	CHARACTER	8	MAPSTAC	
1184	(4A0)	CHARACTER	8	MAPSTAM	
1200	(4B0)	CHARACTER	8	MAPSTUB	
1216	(4C0)	CHARACTER	8	MAPSUBS	
1232	(4D0)	CHARACTER	8	MAPSXDV	
1248	(4E0)	CHARACTER	8	MAPSXIT	
1264	(4F0)	CHARACTER	8	MAPSXJB	
1280	(500)	CHARACTER	8	MAPSXNJ	
1296	(510)	CHARACTER	8	MAPSXOT	
1312	(520)	CHARACTER	8	MAPTABS	
1328	(530)	CHARACTER	8	MAPTCP	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1344	(540)	CHARACTER	8	MAPTERM	
1360	(550)	CHARACTER	8	MAPTRAK	
1376	(560)	CHARACTER	8	MAPWARM	
1392	(570)	CHARACTER	8	MAPXCF	
1408	(580)	CHARACTER	8	MAPXEQ	
1408	(580)	X'59'	0	MAP#J2M	"(*-MAPMOD1)/MAPENTL" NUMBER OF JES2 MODULES

Comment

TABLE OF USER EXIT MODULES LINKED WITH HASJES20.  
 THESE ARE DEFINED AS WEAK EXTERNAL SYMBOLS BELOW.  
 THE TABLE INCLUDES THE SPECIAL ENTRY FOR HASPXIT0, WHICH  
 MAY BE LINKEDITED IN THE HASPINIT LOAD MODULE INSTEAD - IF  
 SO, HASPINIT UPDATES THIS MODMAP ENTRY AND THE REP FACILITY  
 WILL FUNCTION FOR THAT MODULE. THE HASPXIT0 STORAGE WILL  
 BE DELETED WITH HASPINIT IF LINKEDITED WITH HASPINIT, AND  
 WILL REMAIN IN STORAGE IF LINKEDITED WITH HASJES20 OR IF  
 LOADED IN ITS OWN LOAD MODULE BY HASPINIT.

End of Comment

1424	(590)	CHARACTER	8	MAPJXMOD	
1440	(5A0)	CHARACTER	8		
1456	(5B0)	CHARACTER	8		
1472	(5C0)	CHARACTER	8		
1488	(5D0)	CHARACTER	8		
1504	(5E0)	CHARACTER	8		
1520	(5F0)	CHARACTER	8		
1536	(600)	CHARACTER	8		
1552	(610)	CHARACTER	8		
1568	(620)	CHARACTER	8		
1584	(630)	CHARACTER	8		
1600	(640)	CHARACTER	8		
1616	(650)	CHARACTER	8		
1632	(660)	CHARACTER	8		
1648	(670)	CHARACTER	8		
1664	(680)	CHARACTER	8		
1680	(690)	CHARACTER	8		
1696	(6A0)	CHARACTER	8		
1712	(6B0)	CHARACTER	8		
1728	(6C0)	CHARACTER	8		
1744	(6D0)	CHARACTER	8		
1760	(6E0)	CHARACTER	8		
1776	(6F0)	CHARACTER	8		
1792	(700)	CHARACTER	8		
1808	(710)	CHARACTER	8		
1824	(720)	CHARACTER	8		
1840	(730)	CHARACTER	8		
1856	(740)	CHARACTER	8		
1872	(750)	CHARACTER	8		
1888	(760)	CHARACTER	8		
1904	(770)	CHARACTER	8		
1920	(780)	CHARACTER	8		
1936	(790)	CHARACTER	8	MAPEXIT0	
1936	(790)	X'210'	0	MAPJXLEN	**-"MAPJXMOD" LENGTH OF LINKED MODULE TABLE
1936	(790)	X'21'	0	MAPJXCNT	"MAPJXLEN/MAPENTL" NUMBER OF INSTALLATION
					ENTRIES
1936	(790)	X'7A'	0	MAPMODS	"(*-MAPMOD1)/MAPENTL" NUMBER OF REP TABLE
					ENTRIES
1952	(7A0)	BITSTRING	8		ZERO ENTRY FOR \$SCANTAB

## \$MODMAP Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MISCELLANEOUS ENTRY POINT ADDRESSES FOR SUBTASKS, IOS ROUTINES, ETC.					
End of Comment					
1968	(7B0)	ADDRESS	4	MAPACCTA	"V(HASPACCT)" ADDR OF HASPACCT SUBTASK
1972	(7B4)	ADDRESS	4	MAPSPLA	"V(HOSPOOL)" ADDR OF SPOOL ALLOCATION SUBTASK
1976	(7B8)	ADDRESS	4	MAPSPMG	"V(HOSPMIGR)" Addr of spool migration subtask rtn
1980	(7BC)	ADDRESS	4	MAPSPAST	"V(HOSPASST)" Addr of spool migration assist rtn
1984	(7C0)	ADDRESS	4	MAPWTOA	"V(\$HASPWTO)" ADDR OF HASP WTO SUBTASK
1988	(7C4)	ADDRESS	4	MAPIMAGA	"V(HASPIMAG)" ADDR OF IMAGE LOADER SUBTASK
1992	(7C8)	ADDRESS	4	MAPVTAMA	"V(HASPV TAM)" ADDR OF HASP VTAM INTERFACE
1996	(7CC)	ADDRESS	4	MAPALOCA	"V(HOSALLOC)" ADDR OF ALLOCATION TASK
2000	(7D0)	ADDRESS	4	MAPCNVA	"V(HOSCNVT)" ADDR OF CONVERT SUBTASK
2004	(7D4)	ADDRESS	4	MAPOFFA	"V(HASPOFF)" ADDR OF OFFLOAD SUBTASK
2008	(7D8)	ADDRESS	4	MAPCKCFA	"V(HASPCKCF)" Addr of CKPT on CF subtsk
2012	(7DC)	ADDRESS	4	MAPCKVRA	"V(HASPCKVR)" ADDR OF CKPT VERSN SUBTSK
2016	(7E0)	ADDRESS	4	MAPSUBSA	"V(HASP SUBS)" ADDR OF GENL SUBTASK
2020	(7E4)	ADDRESS	4	MAPODSMX	"V(ODSMEXC)" ADDR OF SWBMOD PC ROUTINE
2024	(7E8)	ADDRESS	4	MAPODSMR	"V(ODSMEST)" ADDR OF SWBMOD PC ARR
2028	(7EC)	ADDRESS	4	MAPATTNA	"V(HASPATTN)" ADDR OF HASP ATTENTION ROUTINE
2032	(7F0)	ADDRESS	4	MAPPXITA	"V(HASPPXIT)" ADDR OF HASP POST EXIT ROUTINE
2036	(7F4)	ADDRESS	4	MAPIOAPG	"V(\$IOAPPEN)" ADDR OF I/O APPENDAGE TABLE
2040	(7F8)	ADDRESS	4	MAPEMS	"V(HASPEOM)" Addr of EOM subtask

Comment					
TABLE OF HASP PROCESSOR ENTRY POINT ADDRESSES. THESE FIELDS ARE POINTED TO BY \$PCETAB ENTRIES IN HASPTABS.					
End of Comment					
2044	(7FC)	ADDRESS	4	MAPRDRA	"V(HASPRDR)" READERNN PROCESSOR
2048	(800)	ADDRESS	4	MAPASYNA	"V(\$ASYNC)" ASYNCH I/O PROCESSOR
2052	(804)	ADDRESS	4	MAPCNVTA	"V(HASPCNVT)" JCL CONVERSION PROCESSOR
2056	(808)	ADDRESS	4	MAPEXECA	"V(HASPEXEC)" EXECUTION PROCESSOR
2060	(80C)	ADDRESS	4	MAPSTACA	"V(HASPSTAC)" STATUS/CANCEL PROCESSOR
2064	(810)	ADDRESS	4	MAPP SOA	"V(HASPPSO)" PSO PROCESSOR
2068	(814)	ADDRESS	4	MAPHOPEA	"V(HASPHOPE)" OUTPUT PROCESSOR
2072	(818)	ADDRESS	4	MAPP RPUA	"V(HASPPPI1)" PRINT/PUNCH PROCESSOR
2076	(81C)	ADDRESS	4	MAPP PURGA	"V(HASPVPRG)" PURGE PROCESSOR
2080	(820)	ADDRESS	4	MAPCOMMA	"V(HASPCOMM)" COMMAND PROCESSOR
2084	(824)	ADDRESS	4	MAPMLLMA	"V(HASPMLLM)" LINE MANAGER PROCESSOR
2088	(828)	ADDRESS	4	MAPTIMEA	"V(\$TIMER)" STIMER PROCESSOR
2092	(82C)	ADDRESS	4	MAPCKPTA	"V(HASPCKPT)" CHECKPOINT PROCESSOR
2096	(830)	ADDRESS	4	MAPSPINA	"V(HASPSPIN)" SPIN PROCESSOR
2100	(834)	ADDRESS	4	MAPP RTYA	"V(HASPGPRC)" PRIORITY AGING PROCESSOR
2104	(838)	ADDRESS	4	MAPP RPIOA	"V(HASPGOPR)" OUTPUT PRIO AGING PROCESSOR
2108	(83C)	ADDRESS	4	MAPWARMA	"V(HASPWARM)" WARM START PROCESSOR
2112	(840)	ADDRESS	4	MAPNJTA	"V(HASPNJT)" JOB TRANSMITTER PROCESSOR
2116	(844)	ADDRESS	4	MAPNJRA	"V(HASPRDR)" JOB RECEIVER PROCESSOR
2120	(848)	ADDRESS	4	MAPNSTA	"V(HASPNST)" SYSOUT TRANSMITTR PROCESSOR
2124	(84C)	ADDRESS	4	MAPNSRA	"V(HASPNSR)" SYSOUT RECEIVER PROCESSOR
2128	(850)	ADDRESS	4	MAPNPMA	"V(HASPNPMP)" NETWORK PATH MGR PROCESSOR
2132	(854)	ADDRESS	4	MAPNRMA	"V(HASPNRM)" Network Resource Monitor
2136	(858)	ADDRESS	4	MAPMCONA	"V(HASPMCON)" REMOTE CONSOLE PROCESSOR
2140	(85C)	ADDRESS	4	MAPXTIMA	"V(HASPTIME)" TIME EXCESSION PROCESSOR
2144	(860)	ADDRESS	4	MAPEVTLA	"V(HASPEVTL)" EVENT TRACE LOG PROCESSOR
2148	(864)	ADDRESS	4	MAPXFRMA	"V(HASPXFRM)" XFR I/O MANAGER PROCESSOR
2152	(868)	ADDRESS	4	MAPSPOLA	"V(HASPSPOL)" SPOOL MANAGER PROCESSOR
2156	(86C)	ADDRESS	4	MAPNRRRA	"V(HASPRDR)" ROUTE RECEIVER PROCESSOR
2160	(870)	ADDRESS	4	MAPNRTA	"V(HASPNJT)" ROUTE TRANSMITTER PROCESSOR
2164	(874)	ADDRESS	4	MAPRESMA	"V(HASPRESM)" RESOURCE MANAGER PROCESSOR



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
2168	(878)	ADDRESS	4	MAPSFSRA	"V(HA\$PSJFR)" SCHEDULER SERVICES PROC SR
2172	(87C)	ADDRESS	4	MAPFSSPA	"V(HA\$PFSSP)" FSS SERVICE PROCESSOR
2176	(880)	ADDRESS	4	MAPFCL	"V(FCLEANUP)" FSS CLEANUP ON EOM
2180	(884)	ADDRESS	4	MAPJCMD	"V(COMJCMD)" Job command processor
2184	(888)	ADDRESS	4	MAPXCFA	"V(HA\$PXCFA)" XCF COUPLING PROCESSOR
2188	(88C)	ADDRESS	4	MAPXCMA	"V(XCMMAIN)" XCF Command Processor
2192	(890)	ADDRESS	4	MAPARMSA	"V(HA\$PARM)" ARM SUPPORT PROCESSOR
2196	(894)	ADDRESS	4	MAPSNF	"V(HA\$PSNF)" SPOOL Management Processor
2200	(898)	ADDRESS	4	MAPSPI	"V(HA\$PSASR)" Sysout API Processor
2204	(89C)	ADDRESS	4	MAPDILSA	"V(HA\$PDILB)" BERT lock POST Processor
2208	(8A0)	ADDRESS	4	MAPENFA	"V(HA\$PENF)" ENF LISTEN Processor
2212	(8A4)	ADDRESS	4	MAPMISCA	"V(HA\$PMISC)" Miscellaneous processor
2216	(8A8)	ADDRESS	4	MAPALIA	"V(HA\$PALI)" Acquire Lock & Initiate Cleanup Executor
2220	(8AC)	ADDRESS	4	MAPEOM	"V(HA\$PEOM)" EOM processor
2224	(8B0)	ADDRESS	4	MAPJQR	"V(HA\$PJQR)" JQE request processor
2228	(8B4)	ADDRESS	4	MAPIRC	"V(HA\$PIRC)" INTRDR cleanup processor
2232	(8B8)	ADDRESS	4	MAPDAWN	"V(HA\$PDAWN)" DAWN processor
2236	(8BC)	ADDRESS	4	MAPCDCA	"V(HA\$PCDC)" Cross-sys Device Communication
2240	(8C0)	ADDRESS	4	MAPTIPS	"V(HA\$PTIPS)" TIPS processor
2240	(8C0)	X'8C4'	0	MAPLEN	**MAP* MODMAP LENGTH

\$MODMAP Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
MAP	0		MAPCKVR	1C0	C8C1E2D7
MAP#J2M	580	59	MAPCKVRA	7DC	
MAPABS	0	C8C1E25B	MAPCNVA	7D0	
MAPACCTA	7B0		MAPCNVS	1D0	C8C1E2D7
MAPALIA	8A8		MAPCNVT	1E0	C8C1E2D7
MAPALOCA	7CC		MAPCNVTA	804	
MAPARM	10	C8C1E2D7	MAPCOMM	1F0	C8C1E2D7
MAPARMO	20	C8C1E2D7	MAPCOMMA	820	
MAPARMSA	890		MAPCON	200	C8C1E2D7
MAPASYNA	800		MAPCSV	210	C8C1E2D7
MAPATTNA	7EC		MAPDAWN	8B8	
MAPBSC	30	C8C1E2D7	MAPDILSA	89C	
MAPCDCA	8BC		MAPDYN	220	C8C1E2D7
MAPCDYN	40	C8C1E2D7	MAPEMS	7F8	
MAPCFAL	50	C8C1E2D7	MAPENFA	8A0	
MAPCFBF	60	C8C1E2D7	MAPEOM	8AC	
MAPCFDE	70	C8C1E2D7	MAPEVTL	230	C8C1E2D7
MAPCFE	80	C8C1E2D7	MAPEVTLA	860	
MAPCFFC	90	C8C1E2D7	MAPEXECA	808	
MAPCFLE	A0	C8C1E2D7	MAPEXIT0	790	C8C1E2D7
MAPCFMT	B0	C8C1E2D7	MAPEXTA	240	C8C1E2D7
MAPCFQL	C0	C8C1E2D7	MAPFCL	880	
MAPCFQU	D0	C8C1E2D7	MAPFSSP	250	C8C1E2D7
MAPCFRD	E0	C8C1E2D7	MAPFSSPA	87C	
MAPCFRE	F0	C8C1E2D7	MAPHCCT	260	C8C1E25B
MAPCFRL	100	C8C1E2D7	MAPHOPE	270	C8C1E2D7
MAPCFRS	110	C8C1E2D7	MAPHOPEA	814	
MAPCFR2	120	C8C1E2D7	MAPIMAGA	7C4	
MAPCFSI	130	C8C1E2D7	MAPINIT	280	280
MAPCFST1	140	C8C1E2D7	MAPIOAPG	7F4	
MAPCFUN	150	C8C1E2D7	MAPIRA	280	C8C1E2D7
MAPCFWP	160	C8C1E2D7	MAPIRC	8B4	
MAPCFWR	170	C8C1E2D7	MAPIRDA	290	C8C1E2D7
MAPCKCF	180	C8C1E2D7	MAPIRMA	2A0	C8C1E2D7
MAPCKCFA	7D8		MAPIRPL	2B0	C8C1E2D7
MAPCKDS	190	C8C1E2D7	MAPIRRE	2C0	C8C1E2D7
MAPCKPT	1A0	C8C1E2D7	MAPIRSI	2D0	C8C1E2D7
MAPCKPTA	82C		MAPJCMD	884	
MAPCKRR	1B0	C8C1E2D7	MAPJOS	2E0	C8C1E2D7

## \$MODMAP Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
MAPJQR	8B0		MAPSTAM	4A0	C8C1E2D7
MAPJQS	2F0	C8C1E2D7	MAPSTUB	4B0	C8C1E2D7
MAPJXCNT	790	21	MAPSUBS	4C0	C8C1E2D7
MAPJXLEN	790	210	MAPSUBSA	7E0	
MAPJXMOD	590	C8C1E2D7	MAPSXDV	4D0	C8C1E2D7
MAPLEN	8C0	8C4	MAPSXIT	4E0	C8C1E2D7
MAPMCONA	858		MAPSXJB	4F0	C8C1E2D7
MAPMISC	300	C8C1E2D7	MAPSXNJ	500	C8C1E2D7
MAPMISCA	8A4		MAPSXOT	510	C8C1E2D7
MAPMLLMA	824		MAPTABS	520	C8C1E2D7
MAPMODS	790	7A	MAPTCP	530	C8C1E2D7
MAPMOD1	0	0	MAPTERM	540	C8C1E2D7
MAPMSG	310	C8C1E2D7	MAPTIMEA	828	
MAPNATS	320	C8C1E2D7	MAPTIPS	8C0	
MAPNET	330	C8C1E2D7	MAPTRAK	550	C8C1E2D7
MAPNJRA	844		MAPVTAMA	7C8	
MAPNJT	340	C8C1E2D7	MAPWARM	560	C8C1E2D7
MAPNJTA	840		MAPWARMA	83C	
MAPNPM	350	C8C1E2D7	MAPWTOA	7C0	
MAPNPMA	850		MAPXCF	570	C8C1E2D7
MAPNRM	360	C8C1E2D7	MAPXCFA	888	
MAPNRMA	854		MAPXCMA	88C	
MAPNRRRA	86C		MAPXEQ	580	C8C1E2D7
MAPNRTA	870		MAPXFRMA	864	
MAPNSR	370	C8C1E2D7	MAPXTIMA	85C	
MAPNSRA	84C				
MAPNST	380	C8C1E2D7			
MAPNSTA	848				
MAPNUC	390	C8C1E2D7			
MAPODSM	3A0	C8C1E2D7			
MAPODSMR	7E8				
MAPODSMX	7E4				
MAPOFFA	7D4				
MAPPRIOA	838				
MAPPRPU	3B0	C8C1E2D7			
MAPPRPUA	818				
MAPPRTYA	834				
MAPPSO	3C0	C8C1E2D7			
MAPPSOA	810				
MAPPURGA	81C				
MAPPXITA	7F0				
MAPRAS	3D0	C8C1E2D7			
MAPRDR	3E0	C8C1E2D7			
MAPRDRA	7FC				
MAPRESMA	874				
MAPRTAM	3F0	C8C1E2D7			
MAPSASR	400	C8C1E2D7			
MAPSERV	410	C8C1E2D7			
MAPSFSRA	878				
MAPSIR	420	C8C1E2D7			
MAPSJFR	430	C8C1E2D7			
MAPSNA	440	C8C1E2D7			
MAPSNF	894				
MAPSPAST	7BC				
MAPSPI	898				
MAPSPIN	450	C8C1E2D7			
MAPSPINA	830				
MAPSPLA	7B4				
MAPSPMG	7B8				
MAPSPOL	460	C8C1E2D7			
MAPSPOLA	868				
MAPSSRV	470	C8C1E2D7			
MAPSTAB	480	C8C1E2D7			
MAPSTAC	490	C8C1E2D7			
MAPSTACA	80C				

## \$MONCB Heading Information

**Common Name:** Monitor address space control block  
**Macro ID:** \$MONCB  
**DSECT Name:** MONCB  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** MONB  
 Offset: MNBID  
 Length: L'MNBID

**Storage Attributes:** Subpool: 241  
 Key: 1  
 Residency: Virtual is in 31 bit storage and real can in in 64 bit storage. The \$MONCB resides in common storage.

**Size:** See MNBLEN  
**Created by:** HASCSRJM  
**Pointed to by:** CCTMONCB field of the HCCT data area  
 JMTMONCB field of the HJCT data area

**Serialization:** Only updated by HASCSRJM while running under the JES2 main task.

**Function:** This DSECT maps the CSA data associated with the JES2 monitor address address space. It is used during JES2 initialization and termination processing to create and later delete the monitor address space.

## \$MONCB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MONCB	, Define DSECT
0	(0)	CHARACTER	4	MNBID	Eyecatcher
4	(4)	ADDRESS	1	MNBVER	Version
4	(4)	X'1'	0	MNBVERN	"1" Current version
5	(5)	BITSTRING	2		Reserved for future use
7	(7)	CHARACTER	1	MNB COMCH	CONCHAR for termination messages
8	(8)	CHARACTER	8	MNBNAME	Address space name
16	(10)	CHARACTER	8	MNBPROG	PROG= to run the address space
24	(18)	BITSTRING	8	MNBPRTKN	Token for CSVDYLP A DELETE request
32	(20)	BITSTRING	24	MNBODA	ASCRE output area (IHAASEO)
56	(38)	SIGNED	4	MNBECB	Main task wait ECB
60	(3C)	SIGNED	4	MNBWECB	Monitor work ECB
60	(3C)	X'4'	0	MNBWTERM	"4" Monitor TERM post code
60	(3C)	X'8'	0	MNBWJDWN	"8" JES2 address space went down
60	(3C)	X'C'	0	MNBWJUP	"12" JES2 address space came up

Comment

MACDATE 03/11/11

End of Comment

64	(40)	ADDRESS	4	MNBPOST	. 1ST WORD - ECB ADDRESS
68	(44)	ADDRESS	4		. 2ND WORD - ASCB ADDRESS
72	(48)	ADDRESS	4		. 3RD WORD - ERRET ADDRESS
76	(4C)	SIGNED	4	MNBJES2A	Alet for JES2 address space
80	(50)	ADDRESS	4	MNBMLMAD	Address of monitor load module
84	(54)	SIGNED	4	MNBMLMLN	Length of monitor load module
88	(58)	ADDRESS	4	MNBMONEP	Entry addr for the monitor code
92	(5C)	ADDRESS	4	MNBHJCT	Address of HJCT in monitor A.S.
96	(60)	ADDRESS	4	MNBCMBQ	Queue of commands from SSI

## \$MONCB Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
100	(64)	SIGNED	4	MNBCECB	Command ECB address
104	(68)	ADDRESS	4	MNBIMITS	MIT information for monitor
112	(70)	DBL WORD	8	(0)	
112	(70)	X'70'	0	MNBLEN	**"-MONCB" Length of MONCB

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MNMT	, Monitor MIT DSECT
0	(0)	CHARACTER	8	MNMTNAME	Module name
8	(8)	ADDRESS	4	MNMTADDR	Module address
12	(C)	ADDRESS	4	MNMTSIZE	Module length
16	(10)	CHARACTER	8	MNMTDATE	Date of assembly
24	(18)	CHARACTER	5	MNMTTIME	Time of assembly
29	(1D)	BITSTRING	3		Reserved
32	(20)	CHARACTER	8	MNMTAPAR	APAR number from module
40	(28)	CHARACTER	8	MNMTPTF	PTF number from module
40	(28)	X'30'	0	MNMTLEN	**"-MNMT" Length of area
40	(28)	X'A'	0	MNMTCNT	"10" Number of MNMTs to get

## \$MONCB Cross Reference

Name	Hex Offset	Hex Value
MNBCECB	64	
MNBCMBQ	60	
MNBCOMCH	7	
MNBECB	38	
MNBHJCT	5C	
MNBID	0	D4D6D5C2
MNBIES2A	4C	
MNBLEN	70	70
MNBIMITS	68	
MNBMLMAD	50	
MNBMLMLN	54	
MNBMONEP	58	
MNBNAME	8	D1C5E2F2
MNBODA	20	
MNBPOST	40	
MNBPROG	10	C8C1E291
MNBPRTKN	18	
MNBVER	4	
MNBVERN	4	1
MNBWECB	3C	
MNBWJDWN	3C	8
MNBWJUP	3C	C
MNBWTERM	3C	4
MNMT	0	
MNMTADDR	8	
MNMTAPAR	20	
MNMTCNT	28	A
MNMTDATE	10	
MNMTLEN	28	30
MNMTNAME	0	
MNMTPTF	28	
MNMTSIZE	C	
MNMTTIME	18	
MONCB	0	

## \$MSCWORK Heading Information

**Common Name:** JES2 Miscellaneous PCE Work Area  
**Macro ID:** \$MSCWORK  
**DSECT Name:** PCE (\$MSCWORK is part of the PCE DSECT)  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'PCE '  
 Offset: PCEEYE-PCE  
 Length: 4

**Storage Attributes:** Subpool: See \$PCE  
 Key: See \$PCE  
 Residency: See \$PCE

**Size:** See symbol MSCPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.

**Created by:** See \$PCE  
**Pointed to by:** The \$MISCPCE field of the \$HCT data area  
 See \$PCE for other pointer fields that apply to all PCE types.

**Serialization:** Normal PCE dispatch serialization

**Function:** The fields in this work area are used by the JES2 miscellaneous Processor. \$MSCWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$MSCWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEMSCID in the second byte of field PCEID.

This PCE is not device related. Field PCEDCT is zero.

## \$MSCWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
312	(138)	BITSTRING	12	MSCTQE	Timer queue element
324	(144)	BITSTRING	1	MSCFLAG	Misc PCE work flags
		1... ....		MSCWANTQ	"B'10000000" PCE needs access to the CKPT
325	(145)	BITSTRING	3		Reserved for future use
328	(148)	DBL WORD	8	MSCPADTM	Time stamp for PAD processing
336	(150)	DBL WORD	8	MSCMONTM	Time stamp monitor restart
344	(158)	DBL WORD	8	MSCCPLTM	Time stamp \$CPOOL contract
352	(160)	DBL WORD	8	(0)	Alignment
352	(160)	X'28'	0	MSCPCEWL	**"-PCEWORK" Length of misc PCE work area

## \$MSCWORK Cross Reference

### \$MSCWORK Cross Reference

Name	Hex Offset	Hex Value
MSCCPLTM	158	
MSCFLAG	144	
MSCMONTM	150	
MSCPADTM	148	
MSCPCEWL	160	28
MSCTQE	138	
MSCWANTQ	144	80
PCE	0	

## \$MSD Heading Information

**Common Name:** Monitor Sampling data  
**Macro ID:** \$MSD  
**DSECT Name:** MSD  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** MSD  
 Offset: MSDID-MSD  
 Length: L'MSDID  
**Storage Attributes:** Subpool: 0  
 Key: 1  
 Residency: Virtual is in 31 bit storage, real can be in 64 bit storage.  
**Size:** See MSDLEN  
**Created by:** HASJSPLR  
**Pointed to by:** JMTMSD field of the HJCT data area  
**Serialization:** None  
**Function:** The MSD maps the sampling data collected by the JES2 monitor subtask.

## \$MSD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MSD	, Monitor Sampling Data DSECT
0	(0)	CHARACTER	4	MSDID	Eyecatcher
4	(4)	ADDRESS	1	MSDVRSN	Version of data area
4	(4)	X'1'	0	MSDVERSN	"1" Current version number
5	(5)	BITSTRING	3		Reserved
Comment					
Limit monitoring data					
End of Comment					
8	(8)		16	MSDLTIME	Time of next sample (STCKE)
24	(18)	DBL WORD	8	MSDLINT	Interval to sample (STCK)
32	(20)	ADDRESS	4	MSDLMDA	Address of most recent LMD
36	(24)	SIGNED	4	MSDLMDCT	Count of LMDs
Comment					
Main task sampling data					
End of Comment					
40	(28)		16	MSDCTIME	Time of last sample (STCKE)
56	(38)	DBL WORD	8	MSDCINT	Interval to sample (STCKE)
56	(38)	X'14'	0	MSDCSPSC	"20" 20 samples per second
56	(38)	X'C350'	0	MSDCSPMC	"1000000/MSDCSPSC" Micro seconds per sample
Comment					
----- "Sampling time" is the time relative to the sampling process. This is maintained using 2 fields. MSDCSCNT is incremented every sample. When MSDCSCNT reaches the number of samples per second, MSDCSTIM is incremented. -----					
End of Comment					

## \$MSD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
64	(40)	SIGNED	4	MSDCSTIM	"Sampling" time - seconds
68	(44)	SIGNED	4	MSDCSCNT	"Sampling" time - samples
72	(48)	ADDRESS	4	MSDCBUFS	Address of CPU sample buffer start
76	(4C)	ADDRESS	4	MSDCBUFE	Address of CPU sample buffer end(+1)
80	(50)	ADDRESS	4	MSDCBUFC	Current (last used) CPU sample rec
84	(54)	ADDRESS	4	MSDCBUFA	Alternate sampling buffer

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MSDCSD	, Limit monitoring data
0	(0)	BITSTRING	16	MSDCSD_TIME	Time sample taken
16	(10)	SIGNED	4	MSDCSD_ADDR	PSW addr (Main task PRB)
20	(14)	SIGNED	4	MSDCSD_CRB_ADR	PSW addr (Current RB)
24	(18)	CHARACTER	8	MSDCSD_MOD	Module name and offset
32	(20)	SIGNED	4	MSDCSD_OFFSET	(calculated at report time)
36	(24)	ADDRESS	4	MSDCSD_PCE	Current PCE address
40	(28)	CHARACTER	8	MSDCSD_JOB	JOBID or JQE index
48	(30)	BITSTRING	1	MSDCSD_EXIT	Current exit number
49	(31)	BITSTRING	1	MSDCSD_TYPE	Sample type
49	(31)	X'1'	0	MSDCSD_TY_WAIT	"1" At main task WAIT
49	(31)	X'2'	0	MSDCSD_TY_WTOT	"2" Other MVS WAIT
49	(31)	X'3'	0	MSDCSD_TY_WLOK	"3" Waiting for local lock
49	(31)	X'4'	0	MSDCSD_TY_WNDS	"4" Not dispatchable
49	(31)	X'5'	0	MSDCSD_TY_WPGE	"5" Paging wait
49	(31)	X'6'	0	MSDCSD_TY_DMVS	"6" MVS dispatch
50	(32)	BITSTRING	2	MSDCSD_SVC	JES2 PRB interrupt code
52	(34)	ADDRESS	4	MSDCSD_TRAN	RBRTRAN of current RB
56	(38)	DBL WORD	8	(0)	Align
56	(38)	X'38'	0	MSDCSD_LEN	"*-MSDCSD" Length of entry
56	(38)	BITSTRING	0	MSDCSD_COUNT	"X'5000" Number of CPU samples to collect

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MSD	, Return to MSD

Comment

-----  
 Loop detection fields. The longer we are in a  
 potential loop, the higher MSDCLCNT will get.  
 -----

End of Comment

88	(58)	DBL WORD	8	MSDCLTOT	Average sum
96	(60)	SIGNED	4	MSDCLCNT	Address count
100	(64)	ADDRESS	4	MSDCLAVG	Average CPU address
104	(68)		16	MSDCLTIM	Loop start time (STCKE)
104	(68)	X'58'	0	MSDCLOPD	"MSDCLTOT,*-MSDCLTOT" Aggregate loop det fields



**Offsets**

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
-----					
Pointer to copy of JES2 error counts. Copied from JES2 each time a new LMD is obtained.					
-----					
End of Comment					
120	(78)	ADDRESS	4	MSDECOPA	Address of error counts
124	(7C)	BITSTRING	4		Reserved

**Offsets**

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MSDERELE	, Mapping of an error element
0	(0)	SIGNED	4	MSDERCNT	Count of errors
0	(0)	X'4'	0	MSDER_LN	"*-MSDERELE" Length of entry

**Offsets**

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MSD	, Return to MSD

Comment

-----  
 Wait timing fields. The longer we are at a wait the higher MSDWSMPL will get. The type of wait is in MSDETYPE.  
 -----

End of Comment

128	(80)		16	MSDWSTCK	Time event started (STCKE)
144	(90)	ADDRESS	4	MSDWADDR	Address of wait (from RB)
148	(94)	SIGNED	4	MSDWSMPL	Samples at current wait
148	(94)	X'80'	0	MSDWDETD	"MSDWSTCK,*-MSDWSTCK" Aggregate wait det fields
152	(98)		16	MSDLPCED	Last PCE dispatch time
168	(A8)	BITSTRING	8	MSDLPNAM	Last PCE dispatch name
176	(B0)	BITSTRING	1	MSDLPCID	Last PCE dispatch ID

Comment

-----  
 Most recent sample type. See MSDCSD\_TYPE for values  
 -----

End of Comment

177	(B1)	BITSTRING	1	MSDETYPE	Sample type
178	(B2)	BITSTRING	6		Reserved

Comment

-----  
 CPU starvation fields. If the main task is not being dispatched, these fields will indicate it.  
 -----

End of Comment

184	(B8)	DBL WORD	8	MSDCSTTM	Last updated TCBTTIME
192	(C0)	BITSTRING	16	MSDCSCLK	STCK time when MSDCSTTM set
208	(D0)	DBL WORD	8	(0)	

## \$MSD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
208	(D0)	X'D0'	0	MSDLEN	**"-MSD" Length of MSD

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	LMD	, Limit control block
0	(0)	CHARACTER	4	LMDID	Eyecatcher
4	(4)	ADDRESS	4	LMDNEXT	Address of next LMD
8	(8)	BITSTRING	16	LMDSTCK	Time LMD was created
24	(18)	SIGNED	4	LMDCNT	Count of samples included
28	(1C)	SIGNED	4		Reserved
32	(20)	DBL WORD	8	LMD_1ST (0)	Start of limit data
32	(20)	BITSTRING	48	LMD_BERT	Limit data for BERT
80	(50)	BITSTRING	48	LMD_BSCB	Limit data for BSCB
128	(80)	BITSTRING	48	LMD_BUFEX	Limit data for BUFEX
176	(B0)	BITSTRING	48	LMD_CKVR	Limit data for CKVR
224	(E0)	BITSTRING	48	LMD_CMBS	Limit data for CMBS
272	(110)	BITSTRING	48	LMD_CMDS	Limit data for CMDS
320	(140)	BITSTRING	48	LMD_ICES	Limit data for ICES
368	(170)	BITSTRING	48	LMD_JNUM	Limit data for JNUM
416	(1A0)	BITSTRING	48	LMD_JOES	Limit data for JOES
464	(1D0)	BITSTRING	48	LMD_JQES	Limit data for JQES
512	(200)	BITSTRING	48	LMD_LBUF	Limit data for LBUF
560	(230)	BITSTRING	48	LMD_NHBS	Limit data for NHBS
608	(260)	BITSTRING	48	LMD_SMFB	Limit data for SMFB
656	(290)	BITSTRING	48	LMD_TBUF	Limit data for TBUF
704	(2C0)	BITSTRING	48	LMD_TGS	Limit data for TGS
752	(2F0)	BITSTRING	48	LMD_TTAB	Limit data for TTAB
800	(320)	BITSTRING	1	LMD_VTMB	Limit data for VTMB
800	(320)	X'11'	0	LMD_NUM	"(*-LMD_1ST)/LMDELE_LEN" Number of elements

Comment

-----  
 CPU sampling information  
 -----

End of Comment

848	(350)	SIGNED	4	LMDCSAMP	Count of CPU samples
852	(354)	SIGNED	4	LMDCS_ACT	Active sample count
856	(358)	SIGNED	4	LMDCS_DMVS	Waiting to be dispatched
860	(35C)	SIGNED	4	LMDCS_IDLE	Idle sample count
864	(360)	SIGNED	4	LMDCS_WAIT	Wait sample count
868	(364)	SIGNED	4	LMDCS_LLOK	Local lock sample count
872	(368)	SIGNED	4	LMDCS_NDSP	Non-dispatchable count
876	(36C)	SIGNED	4	LMDCS_PAGE	Page wait sample count

Comment

-----  
 Storage monitoring information  
 -----

End of Comment

880	(370)	SIGNED	4	LMDSAMP	Count of storage samples
884	(374)	SIGNED	4	LMDSRGN	<16M region size
888	(378)	SIGNED	4	LMDSERGN	>16M region size
892	(37C)	BITSTRING	40	LMDS_URGN	<16M user region info
932	(3A4)	BITSTRING	40	LMDS_SRGN	<16M system region info
972	(3CC)	BITSTRING	40	LMDS_EURGN	>16M user region info
1012	(3F4)	BITSTRING	1	LMDS_ESRGN	>16M system region info
1012	(3F4)	X'4'	0	LMDSNUM	"(*-LMDS_URGN)/LMDSSE_LEN" Number of entries

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
-----					
Error count information					
-----					
End of Comment					
1052	(41C)	SIGNED	4	LMDES_ENT	Number of entries
1056	(420)	SIGNED	4	LMDES_FST (0)	Start of error data
1056	(420)	X'420'	0	LMD_SIZE	**-"LMD" Size of fixed portion LMD

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	LMDESELE	, Error information element
0	(0)	CHARACTER	8	LMDESELE_NAME	Error name
8	(8)	SIGNED	4	LMDESELE_COUNT	Current error count
12	(C)	ADDRESS	1	LMDESELE_CATGR	Error category
13	(D)	BITSTRING	3		Reserved for future use
16	(10)	SIGNED	4	(0)	Align
16	(10)	X'10'	0	LMDESELE_LEN	**-"LMDESELE" Length of one entry

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	LMDELE	, Limit monitoring data
0	(0)	CHARACTER	8	LMDELE_NAME	Resource name
8	(8)	SIGNED	4	LMDELE_LIMIT	Current upper limit
12	(C)	SIGNED	4	LMDELE_INUSE	Current number in use
16	(10)	SIGNED	4	LMDELE_LOW	Low usage value
20	(14)	SIGNED	4	LMDELE_HIGH	High usage value
24	(18)	SIGNED	2	LMDELE_WARN	WARN= value for resource (zero if none)
26	(1A)	BITSTRING	1	LMDELE_FLG1	Flag bytes
		1... ....		LMDELE_F1OVER	"B'10000000" Usage over warn level
27	(1B)	SIGNED	1		Reserved
28	(1C)	SIGNED	4	LMDELE_OVER	Count of samples over warn level (HASP050 needed)
32	(20)	SIGNED	4	LMDELE_AVERAGE	Average in use value
40	(28)	DBL WORD	8	LMDELE_TOTAL	Total count (for average)
48	(30)	DBL WORD	8	(0)	Align
48	(30)	X'30'	0	LMDELE_LEN	**-"LMDELE" Length of monitor data

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	LMSSE	, Limit monitoring data
0	(0)	CHARACTER	12	LMSSE_NAME	Area name
12	(C)	SIGNED	4	LMSSE_REGION	Region size
16	(10)	SIGNED	4	LMSSE_USE	Current area usage
20	(14)	SIGNED	4	LMSSE_LOW	Low usage value
24	(18)	SIGNED	4	LMSSE_HIGH	High usage value
28	(1C)	SIGNED	4	LMSSE_AVERAGE	Average in use value
32	(20)	DBL WORD	8	LMSSE_TOTAL	Total count (for average)
40	(28)	DBL WORD	8	(0)	Align
40	(28)	X'28'	0	LMSSE_LEN	**-"LMSSE" Length of monitor data

## \$MSD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MWT	, MVS wait records
0	(0)	BITSTRING	16	MWTSTCK	Time of most recent sample
16	(10)	ADDRESS	4	MWTADDR	Address of wait (from RB)
20	(14)	SIGNED	4	MWTWCNT	Count of waits detected
24	(18)	CHARACTER	8	MWTNAME	Module name from wait
32	(20)	SIGNED	4	MWTOFFS	Offset of wait in module
36	(24)	SIGNED	4	MWTSCNT	Count of matching samples

Comment

-----  
 MWTEXTIT is exit number in control at the time of the wait if MWTFXITC is set. If multiple exits, then MWTEXTIT is zero. MWTPCEID is PCE ID that was in control. MWTPCEID is zero if multiple.  
 -----

End of Comment

40	(28)	BITSTRING	1	MWTEXTIT	Exit for wait (if MWTFXITC on)
41	(29)	BITSTRING	1	MWTPCEID	PCE ID for wait
42	(2A)	BITSTRING	1	MWTFLAGS	General flag byte
		1... ....		MWTFXITC	"B'10000000" Wait while exit in control
		.1. ....		MWTFJESC	"B'01000000" Wait while JES2 in control
		..1. ....		MWTFINIT	"B'00100000" Wait during initialization
		...1 ....		MWTFTERM	"B'00010000" Wait during ABEND/TERM
43	(2B)	BITSTRING	1		Reserved
44	(2C)	CHARACTER	8	MWTPCENM	Name of PCE (or MULTIPLE)
52	(34)	SIGNED	4	(3)	Reserved
52	(34)	X'40'	0	MWTLLEN	"*-MWT" Length of wait mapping
52	(34)	BITSTRING	0	MWTSIZE	"X'3000" Size of wait mapping area

### Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MWTHDR	, MVS wait record header
0	(0)	CHARACTER	4	MWTHID	Eyecatcher
4	(4)	ADDRESS	4	MWTHCUR	Current MWT
8	(8)	BITSTRING	16	MWTHLTIM	Candidate reuse time
24	(18)	ADDRESS	4	MWTHLADR	and address
28	(1C)	SIGNED	4	(3)	Reserved
28	(1C)	X'28'	0	MWTHLEN	"*-MWTHDR" Header length

### Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PRBM	, Probe message work area
0	(0)	CHARACTER	4	PRBMID	Eyecatcher
4	(4)	ADDRESS	4	PRBMNEXT	Next PRBM for this type
8	(8)	BITSTRING	16	PRBMSTRT	Time condition started
24	(18)	BITSTRING	16	PRBMSTCK	Last time message issued
40	(28)	SIGNED	4	PRBMSPLC	Sampler "time" of track
44	(2C)	SIGNED	4	PRBMDATA	Probe related data
48	(30)	BITSTRING	1	PRBMFLAG	Flags used by Probes
		1... ....		PRBMFVAL	"B'10000000" PRBM has been validated
		.1. ....		PRBMUDUR	"B'01000000" Update duration in line 2
		..1. ....		PRBMUSTA	"B'00100000" Update PCE/EXIT/JOB
		...1 ....		PRBMUCMD	"B'00010000" Update current command
		.... 1..		PRBMNAGR	"B'00001000" Normal interval for alert
		.... .1..		PRBMNAGO	"B'00000100" Slow interval for alerts
		.... ..1.		PRBMFPCE	"B'00000010" Fixed PCE address
52	(34)	SIGNED	4	PRBMDOM	DOM id for message (0 if pending)
56	(38)	ADDRESS	2	PRBMTXL1	Line 1 message length
58	(3A)	CHARACTER	71	PRBMTXT1	and message text

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
58	(3A)	X'3F'	0	PRBMMID	"PRBMTXT1+5,4,C'C" Message id from text
130	(82)	ADDRESS	2	PRBMTXL2	Line 2 message length
132	(84)	CHARACTER	71	PRBMTXT2	and message text
204	(CC)	ADDRESS	2	PRBMTXL3	Line 3 message length
206	(CE)	CHARACTER	71	PRBMTXT3	and message text
278	(116)	ADDRESS	2	PRBMTXL4	Line 4 message length
280	(118)	CHARACTER	71	PRBMTXT4	and message text
352	(160)	DBL WORD	8	(0)	Alignment
352	(160)	X'160'	0	PRBMLEN	"*-PRBM" Length of message area

**\$MSD Cross Reference**

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
LMD	0		LMDESELE_COUNT		
LMD_BERT	20			8	
LMD_BSCB	50		LMDESELE_LEN	10	10
LMD_BUFEX	80		LMDESELE_NAME		
LMD_CKVR	B0			0	
LMD_CMBS	E0		LMDID	0	D3D4C440
LMD_CMDS	110		LMDNEXT	4	
LMD_ICES	140		LMDSERGN	378	
LMD_JNUM	170		LMDSRGN	374	
LMD_JOES	1A0		LMDSS_ESRGN	3F4	
LMD_JQES	1D0		LMDSS_EURGN	3CC	
LMD_LBUF	200		LMDSS_SRGN	3A4	
LMD_NHBS	230		LMDSS_URGN	37C	
LMD_NUM	320	11	LMDSSAMP	370	
LMD_SIZE	420	420	LMDSSSE	0	
LMD_SMFB	260		LMDSSE_AVERAGE		
LMD_TBUF	290			1C	
LMD_TGS	2C0		LMDSSE_HIGH	18	
LMD_TTAB	2F0		LMDSSE_LEN	28	28
LMD_VTMB	320		LMDSSE_LOW	14	
LMD_1ST	20		LMDSSE_NAME	0	
LMDCNT	18		LMDSSE_REGION		
LMDCS_ACT	354			C	
LMDCS_DMVS	358		LMDSSE_TOTAL	20	
LMDCS_IDLE	35C		LMDSSE_USE	10	
LMDCS_LLOK	364		LMDSSENUM	3F4	4
LMDCS_NDSP	368		LMDSSTCK	8	
LMDCS_PAGE	36C		MSD	0	
LMDCS_WAIT	360		MSD	0	
LMDCSAMP	350		MSD	0	
LMDELE	0		MSDCBUFA	54	
LMDELE_AVERAGE			MSDCBUFC	50	
	20		MSDCBUFE	4C	
LMDELE_FLG1	1A		MSDCBUFS	48	
LMDELE_F1OVER			MSDCINT	38	
	1A	80	MSDCLAVG	64	
LMDELE_HIGH	14		MSDCLCNT	60	
LMDELE_INUSE	C		MSDCLOPD	68	58
LMDELE_LEN	30	30	MSDCLTIM	68	
LMDELE_LIMIT	8		MSDCLTOT	58	
LMDELE_LOW	10		MSDCSCLK	C0	
LMDELE_NAME	0		MSDCSCNT	44	
LMDELE_OVER	1C		MSDCSD	0	
LMDELE_TOTAL	28		MSDCSD_ADDR	10	
LMDELE_WARN	18		MSDCSD_COUNT	38	5000
LMDES_ENT	41C		MSDCSD_CRB_ADR		
LMDES_FST	420			14	
LMDESELE	0		MSDCSD_EXIT	30	
LMDESELE_CATGR			MSDCSD_JOB	28	
	C		MSDCSD_LEN	38	38

## \$MSD Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
MSDCSD_MOD	18		MWTSIZE	34	3000
MSDCSD_OFFSET			MWTSTCK	0	
	20		MWTWCNT	14	
MSDCSD_PCE	24		PRBM	0	
MSDCSD_SVC	32		PRBMDATA	2C	
MSDCSD_TIME	0		PRBMDOM	34	
MSDCSD_TRAN	34		PRBMFLAG	30	
MSDCSD_TY_DMVS			PRBMFPCE	30	2
	31	6	PRBMFVAL	30	80
MSDCSD_TY_WAIT			PRBMID	0	
	31	1	PRBMLEN	160	160
MSDCSD_TY_WLOK			PRBMMID	3A	3F
	31	3	PRBMNAGO	30	4
MSDCSD_TY_WNDS			PRBMNAGR	30	8
	31	4	PRBMNEXT	4	
MSDCSD_TY_WPGE			PRBMSPLC	28	
	31	5	PRBMSTCK	18	
MSDCSD_TY_WTOT			PRBMSTRT	8	
	31	2	PRBMTXL1	38	
MSDCSD_TYPE	31		PRBMTXL2	82	
MSDCSPMC	38	C350	PRBMTXL3	CC	
MSDCSPSC	38	14	PRBMTXL4	116	
MSDCSTIM	40		PRBMTXT1	3A	
MSDCSTTM	B8		PRBMTXT2	84	
MSDCTIME	28		PRBMTXT3	CE	
MSDECOPA	78		PRBMTXT4	118	
MSDER_LN	0	4	PRBMUCMD	30	10
MSDERCNT	0		PRBMUDUR	30	40
MSDERELE	0		PRBMUSTA	30	20
MSDETYPE	B1				
MSDID	0	D4E2C440			
MSDLEN	D0	D0			
MSDLINT	18				
MSDLMDA	20				
MSDLMDCT	24				
MSDLPCED	98				
MSDLPCID	B0				
MSDLPNAM	A8				
MSDLTIME	8				
MSDVERSN	4	1			
MSDVRSN	4				
MSDWADDR	90				
MSDWDETD	94	80			
MSDWSMPL	94				
MSDWSTCK	80				
MWT	0				
MWTADDR	10				
MWTEXTIT	28				
MWTFINIT	2A	20			
MWTFJESC	2A	40			
MWTFLAGS	2A				
MWTFTERM	2A	10			
MWTFXITC	2A	80			
MWTHCUR	4				
MWTHDR	0				
MWTHID	0	D4E6E340			
MWTHLADR	18				
MWTHLEN	1C	28			
MWTHLTIM	8				
MWTLN	34	40			
MWTNAME	18				
MWTOFFS	20				
MWTPCEID	29				
MWTPCENM	2C				
MWTSCNT	24				

## \$MTQH Heading Information

**Common Name:** Main Task Queue Header  
**Macro ID:** \$MTQH  
**DSECT Name:** MTQH  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** MTQH  
 Offset: MTQHID-MTQH  
 Length: L'MTQHID  
**Storage Attributes:** Subpool: 241 (CSA, not fetch protected)  
 Key: 1  
 Residency: anywhere  
**Size:** See MTQHSIZE  
**Created by:** Users of \$RQUE services  
**Pointed to by:** CCTPJCLQ field of the \$HCCT data area  
 CCTSAPIQ field of the \$HCCT data area  
 CCTPSOQ field of the \$HCCT data area  
**Serialization:** Serialization is controlled through the \$RQUE service. Refer to the line comments for details about specific fields.  
**Function:** Represents a queue of requests for a main task service. Used in conjunction with the \$RQUE services.

### \$MTQH Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MTQH	,
Comment					
<p>The following fields are set by the creator of the MTQH. They cannot be altered after the MTQH is created.</p>					
End of Comment					
0	(0)	CHARACTER	4	MTQHID	Data area identifier
4	(4)	SIGNED	2	MTQHLEN	Length of MTQH
6	(6)	BITSTRING	1	MTQHVER	Version number
6	(6)	X'1'	0	MTQHCVER	"1" Current version number
7	(7)	BITSTRING	1	MTQHRSC	JES2 resource to post to have a request processed (\$DRxxxx value)
Comment					
<p>The following fields are internal to the \$RQUE services.</p>					
End of Comment					
8	(8)	BITSTRING	8	MTQHPEND (0)	Pending work queues
8	(8)	ADDRESS	4	MTQHLLIFO	Address of first LIFO MTRB SERIALIZATION: compare and swap

## \$MTQH Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
12	(C)	ADDRESS	4	MTQHFIFO	Address of first FIFO MTRB SERIALIZATION: none, changed by main task only
16	(10)	ADDRESS	4	MTQHACT	Address of first active MTRB SERIALIZATION: none, changed by main task only
16	(10)	X'14'	0	MTQHSIZE	"*-MTQH" Length of MTQH

## \$MTQH Cross Reference

Name	Hex Offset	Hex Value
MTQH	0	
MTQHACT	10	
MTQHCVVER	6	1
MTQHFIFO	C	
MTQHID	0	D4E3D8C8
MTQHLEN	4	
MTQHLIFO	8	
MTQHPEND	8	
MTQHRSC	7	
MTQHSIZE	10	14
MTQHVER	6	



## \$MTRB Heading Information

**Common Name:** Main Task Request Block  
**Macro ID:** \$MTRB  
**DSECT Name:** MTRB  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** MTRB  
 Offset: MTRBID-MTRB  
 Length: L'MTRBID

**Storage Attributes:** Subpool: 231 (subpool used by \$GETCEL)  
 Key: 1  
 Residency: anywhere

**Size:** See MTRBSIZE  
**Created by:** Users of \$RQUE services  
**Pointed to by:** the MTRBNEXT field of the MTRB data area  
 the MTQHLIFO, MTQHFIFO, and MTQHACT fields of the MTQH data area  
 the SAPMTRB field of the \$SAPID data area  
 the PSOMTRB field of the \$PSO data area

**Serialization:** Serialization is controlled through the \$RQUE service. SSI and main task callers have the following access to an MTRB:  
 SSI caller: The caller has exclusive control of the MTRB before and after the call to the EXE function. If the caller is abended while within the EXE function, the caller's recovery routine is obligated to call the CMP function to wait for the request to complete before using or freeing the MTRB.  
 Main task caller: The caller has exclusive control of the MTRB that is returned by the GET function. The caller gives up control of the MTRB when invoking the RET function.

**Function:** Represents a request for a main task service. Used in conjunction with the \$RQUE services.

## \$MTRB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MTRB	,
Comment					
-----					
The following fields can be used by callers of the \$RQUE services.					
-----					
End of Comment					
0	(0)	SIGNED	4	MTRBCCE	Address of cell control element if storage for MTRB was obtained using \$GETCEL service, else 0
4	(4)	CHARACTER	4	MTRBID	Data area identifier
8	(8)	SIGNED	2	MTRBLEN	Length of MTRB
10	(A)	BITSTRING	1	MTRBVER	Version number

## \$MTRB Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
10	(A)	X'2'	0	MTRBCVER	"2" Current version number
11	(B)	BITSTRING	1	MTRBRSV1	Reserved for future use
12	(C)	ADDRESS	4	MTRBPARM	Address of request-specific control block
16	(10)	CHARACTER	4	MTRBPID	Identifier of request-specific control block
20	(14)	SIGNED	4	MTRBRC	Return code
24	(18)	CHARACTER	4	MTRBRSV2	Reserved for future use

Comment

-----  
 The following fields are internal to the  
 \$RQUE services.  
 -----

End of Comment

28	(1C)	ADDRESS	4	MTRBQUE	Address of queue header (helps locating queue in a dump)
32	(20)	ADDRESS	4	MTRBNEXT	Address of next MTRB on queue
36	(24)	SIGNED	4	MTRBECB	ECB for \$XMPOST
40	(28)	BITSTRING	1	MTRBFLG1	Flags SERIALIZATION: None.
40	(28)	X'1'	0	MTRB1WFC	"1" SSI must wait for completion
41	(29)	BITSTRING	3	MTRBRSV3	Reserved for future use
44	(2C)	BITSTRING	8	MTRBASCT	Address space token
44	(2C)	X'34'	0	MTRBSIZE	"*-MTRB" Length of MTRB

## \$MTRB Cross Reference

Name	Hex Offset	Hex Value
MTRB	0	
MTRBASCT	2C	
MTRBCCE	0	
MTRBCVER	A	2
MTRBECB	24	
MTRBFLG1	28	
MTRBID	4	D4E3D9C2
MTRBLEN	8	
MTRBNEXT	20	
MTRBPARM	C	
MTRBPID	10	
MTRBQUE	1C	
MTRBRC	14	
MTRBRSV1	B	
MTRBRSV2	18	
MTRBRSV3	29	
MTRBSIZE	2C	34
MTRBVER	A	
MTRB1WFC	28	1

## \$MWE Heading Information

**Common Name:** HASP Monitor Work Element  
**Macro ID:** \$MWE  
**DSECT Name:** MWE  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'MWE '  
 Offset: MWEID-MWE  
 Length: 4

**Storage Attributes:** Subpool: 129  
 Key: 1  
 Residency: Virtual is in 31 bit storage and real can be in 64 bit storage. The \$MWEs reside in the JES2 monitor address space.

**Size:** Each MWE is 16K bytes long.

**Created by:** Monitor initialization processing.

**Pointed to by:**

- The TCBBDT field of the MVS TCB control block for the associated monitor address space subtask.
- The MWENEXT pointer in the MWE data area
- The JMTMWE pointer in the HJCT data area
- General register 13 when executing code in the 'MONITOR' execution environment.

**Serialization:** None required

**Function:** The MWE contains data specific to a JES2 monitor subtask. It is also used to communicate data between the monitor main task and the subtasks.

## \$MWE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	MWE	, Monitor Work Element DSECT
0	(0)	CHARACTER	4	MWEID (0)	MWE control block identifier
0	(0)	BITSTRING	1	(0)	Available save area
168	(A8)	ADDRESS	4	MWENEXT	Address of next MWE on chain
172	(AC)	CHARACTER	8	MWENAME	Name of the monitor task
180	(B4)	CHARACTER	8	MWEEPNM	Entry point name
188	(BC)	ADDRESS	4	MWECODE	Address of the support code

Comment

Status information for this elements

End of Comment

192	(C0)	CHARACTER	12	MWESTAT	Current status of task
204	(CC)	CHARACTER	24	MWEALERT	Any error alerts for this task
228	(E4)	BITSTRING	1	MWECFLAG	Common status flags
		1... ....		MWECFJ2D	"B'10000000" Task knows JES2 is down
229	(E5)	BITSTRING	3		Reserved

## \$MWE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
-----					
MWETECB is the ECB passed to ATTACHX that is posted when the task terminates					
MWEECB is the ECB the task waits on when it is not processing work					
-----					
End of Comment					
232	(E8)	SIGNED	4	MWETECB	Termination ECB address
236	(EC)	SIGNED	4	MWEWECB	Communication ECB address
240	(F0)	ADDRESS	4	MWETCB	TCB address
244	(F4)	ADDRESS	4	MWEHJCT	HCJT address
248	(F8)	DBL WORD	8	MWEDWORK	Work area (used by subroutines)
256	(100)	DBL WORD	8	MWEDWRK2	Work area (used by subroutines)
264	(108)	BITSTRING	16	MWEWRK16	Work area (used by subroutines)
280	(118)	BITSTRING	16	MWEQWORD	Quad word work area
296	(128)	CHARACTER	128	MWEWTOW	WTO work area (used by subroutines)
424	(1A8)	DBL WORD	8	MWEMFLS (0)	MF=L work areas
Comment					
MACDATE 05/30/98					
End of Comment					
424	(1A8)	SIGNED	4	(0)	
424	(1A8)	BITSTRING	28		
424	(1A8)	SIGNED	4	(0)	
424	(1A8)	ADDRESS	1		FLAGS FOR ESTAEX
425	(1A9)	ADDRESS	1		SECOND FLAG BYTE
426	(1AA)	ADDRESS	1		THIRD FLAG BYTE
427	(1AB)	ADDRESS	1		VERSION NUMBER
428	(1AC)	ADDRESS	4		TOKEN VALUE AREA
432	(1B0)	ADDRESS	4		PARM. LIST ADDR. NOT SPECIFIED
436	(1B4)	ADDRESS	4		ALET FOR PARM LIST
440	(1B8)	ADDRESS	4		FOUR BYTE EXIT ADDR
Comment					
MACDATE 02/15/04					
End of Comment					
424	(1A8)	SIGNED	4	(0)	
424	(1A8)	BITSTRING	28		
452	(1C4)	SIGNED	4	(20)	Reserved
536	(218)	DBL WORD	8	MWEDATA (0)	Local data area origin
536	(218)	X'4000'	0	MWESIZE	"16384" Length of an MWE

**\$MWE Cross Reference**

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
MWE	0	
MWEALERT	CC	
MWECFJ2D	E4	80
MWECFLAG	E4	
MWECODE	BC	
MWEDATA	218	
MWEDWORK	F8	
MWEDWRK2	100	
MWEEPNM	B4	
MWEHJCT	F4	
MWEID	0	
MWEMFLS	1A8	
MWENAME	AC	
MWENEXT	A8	
MWEQWORD	118	
MWESIZE	218	4000
MWESTAT	C0	
MWETCB	F0	
MWETECCB	E8	
MWEWECB	EC	
MWEWRK16	108	
MWEWTOW	128	



---

## \$NAT Programming Interface information

Programming Interface information

### \$NAT

The following field is **NOT** programming interface information:

- NATNTQ

End of Programming Interface information

## \$NAT Heading Information

**Common Name:** Nodes Attached Table Element  
**Macro ID:** \$NAT  
**DSECT Name:** NAT  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: n/a  
 Key: 1  
**Size:** Residency: In the jesxNAT data space in cpool SAPID  
 See NATNATL for NAT  
 NATNTQL for NTQ  
 NATNATPL for NATP  
**Created by:** \$NATADD (NATs)  
 HASPCOMM (NTQs)  
 HASPNPM (NATPs)  
**Pointed to by:** MDCTNATP field of the DCT data area  
 MDCTNPCH field of the DCT data area  
 NATNEXT field of the NAT data area  
 NATPREV field of the NAT data area  
 NATPCHAN field of the NAT data area  
 NATPNEXT field of the NAT data area  
 NATPDNXT field of the NAT data area  
 NATSCHAN field of the NAT data area  
 NATNATP field of the NAT data area  
 NATNTQ field of the NAT data area  
 NITNAT field of the NIT data area  
 NTKNAT field of the NTK data area  
 PCTNATAT field of the PCT data area  
 PCTNATAH field of the PCT data area  
 PCTNATUT field of the PCT data area  
 PCTNATUH field of the PCT data area  
 PCTNATHT field of the PCT data area  
 PCTNATHH field of the PCT data area  
 PCTNATNH field of the PCT data area  
 PCTNATNH field of the PCT data area  
**Serialization:** NTQs and NATPs are serialized by normal JES2 PCE serialization. When a NAT that was created by \$NATADD is updated, then PCT1NTUP must be set.  
**Function:** The NAT describes the connections that currently exist or have once existed between nodes in a network. It also maps the NTQ and the NATP which are special purpose NATs.

## \$NAT Map

### Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NAT	
0	(0)	X'1'	0	NATVERN	"1" Version number of the NAT
0	(0)	BITSTRING	8	NATID (0)	UNIQUE NAT IDENTIFICATION
0	(0)	ADDRESS	3	NATPRI (0)	PRIMARY NODE ID
0	(0)	SIGNED	2	NATPRIN	PRIMARY NODE NUMBER
2	(2)	BITSTRING	1	NATPRIQ	PRIMARY NODE QUALIFIER
3	(3)	BITSTRING	1		RESERVED FOR FUTURE USE



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	ADDRESS	3	NATSEC (0)	SECONDARY NODE ID
4	(4)	SIGNED	2	NATSECN	SECONDARY NODE NUMBER
6	(6)	BITSTRING	1	NATSECQ	SECONDARY NODE QUALIFIER
7	(7)	BITSTRING	1		RESERVED FOR FUTURE USE
8	(8)	BITSTRING	1	NATNTYPE	TYPE OF NAT
		1... ....		NATNTNAT	"B'10000000" REAL NAT ELEMENT
		.1.. ....		NATNTNTQ	"B'01000000" TEMPORARY NAT (NTQ)
		..1. ....		NATNTNPT	"B'00100000" Temporary MAS connection NATP (used during signon validation)
		...1 ....		NATNTNTP	"B'00010000" Permanent MAS connection NATP(used after signon)
9	(9)	BITSTRING	1	NATTYPE	Type of NAT element
		1... ....		NATTSTAT	"B'10000000" NAT is a static connect
		.1.. ....		NATTPM	"B'01000000" NAT is specifically defined as a PATHMGR=YES connect
		..1. ....		NATTPMNO	"B'00100000" NAT is specifically defined as a PATHMGR=NO connect
		...1 ....		NATTPMDE	"B'00010000" NTQ is specifically defined as a PATHMGR=RESET connect
		.... 1..		NATTPRIV	"B'00001000" NAT is a private connect
		.... .1..		NATTUNRE	"B'00000100" NAT is a unreachable
		.... ..1.		NATTADJ	"B'00000010" NAT is adjacent to this node and member
10	(A)	ADDRESS	2	NATREST	RESISTANCE OF CONNECTION
12	(C)	ADDRESS	4	NATEVNT	EVENT SEQUENCE
16	(10)	SIGNED	4		Reserved for future use
20	(14)	SIGNED	4	NATECOM (0)	End of common section

Comment

Node Attached Table unique Fields

End of Comment

20	(14)	BITSTRING	1	NATSTATE	Current state of active NAT
		1... ....		NATSUMAX	"B'10000000" NAT is unreachable due to \$MAXREST
		.1.. ....		NATSINUS	"B'01000000" NAT is currently in use in some path
		..1. ....		NATSURCH	"B'00100000" Static NAT with both nodes not connected
		...1 ....		NATSPEND	"B'00010000" Adjacent static NAT has no active line
		.... 1..		NATSXTRA	"B'00001000" NAT is not currently used in any path
21	(15)	BITSTRING	1	NATNSTAT	New state of the NAT (set by full path processing)
22	(16)	BITSTRING	2		Reserved for future use
24	(18)	ADDRESS	4	NATNEXT	Addr of next NAT on cur que
28	(1C)	ADDRESS	4	NATPREV	Addr of prev NAT on cur que
32	(20)	ADDRESS	4	NATPCHAN	Prim chain of NATs from NIT
36	(24)	ADDRESS	4	NATSCHAN	Sec chain of NATs from NIT
40	(28)	ADDRESS	4	NATPNIT	Addr of NIT for primary
44	(2C)	ADDRESS	4	NATSNIT	Addr of NIT for secondary
48	(30)	ADDRESS	4	NATANATP	Chain field for temp active queue (Used by NPMFPATH)
52	(34)	ADDRESS	4	NATNMPTR	Pointer to notify bit map

# \$NAT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>The field NATALINE contains a DCT address that is considered to own this NAT. If neither NATPRI nor NATSEC is the local node, then NATALINE is DCT over which this status was first received. If either NATPRI or NATSEC is the local node, then NATALINE contains the LINE DCT address that has the least resistance to the other node on this member. It is not necessarily the primary trunk. NATNATP is a chain of NATPs (at most one per MAS member) which represent the best line from each member of a MAS. NATALINE will be zero if there is no line to the other node on this member.</p> <p>-----</p> <p>The fields defined by NATAUXCP must be copied between real NATs and AUX NATs whenever a AUX NAT is created.</p> <p>-----</p>					
End of Comment					
56	(38)	SIGNED	4	NATAUXCS (0)	Start of fields copied to/from AUX NATs
56	(38)	ADDRESS	4	NATALINE	Address of owning DCT or zero.
60	(3C)	SIGNED	2	NATALNUM	Line number associated with NATALINE
62	(3E)	BITSTRING	2		Reserved
64	(40)	ADDRESS	4	NATNATP	Chain of NATPs representing connections from other MAS members
68	(44)	BITSTRING	1	NATMEMBP	For adjacent NATs, member with primary line
68	(44)	X'38'	0	NATAUXCP	"NATAUXCS,*-NATAUXCS" End of fields to copy
69	(45)	BITSTRING	1	NATCSTAT	Current status of NAT
		1... ....		NATCACT	"B'10000000" NAT on active queue
		.1.. ....		NATCUNC	"B'01000000" NAT unconnected
		..1. ....		NATCHLD	"B'00100000" NAT on held queue
70	(46)	BITSTRING	1	NATNRANK	Order on NIT to NAT queue
70	(46)	X'0'	0	NATNRNUL	"0" NAT has yet to be ranked
70	(46)	X'4'	0	NATNRNMS	"4" ACTIVE, non-MAS connect
70	(46)	X'8'	0	NATNRMAS	"8" ACTIVE, MAS connection
70	(46)	X'C'	0	NATNRSTA	"12" Static/Private connect
70	(46)	X'10'	0	NATNRHLD	"16" HELD connection
70	(46)	X'14'	0	NATNRINA	"20" INACTIVE connection
71	(47)	BITSTRING	1	NATVIFYQ	Flags used by NPMVIFY to verify the NAT is on all queues
		1... ....		NATVFSTA	"B'10000000" NAT is on a status queue
		.1.. ....		NATVFPRI	"B'01000000" NAT is on the queue from the primary node's NIT
		..1. ....		NATVFSEC	"B'00100000" NAT is on the queue from the secondary node's NIT
72	(48)	ADDRESS	4	NATNTIME	Time record was recieved or status last modified
76	(4C)	ADDRESS	4	NATAUX	Address of auxiliary NAT (PM defined NAT chained off identical static NAT)
80	(50)	ADDRESS	4	NATRTKN	TOKEN used during NAT verification
80	(50)	X'54'	0	NATNATL	"*-NAT" Length of NAT DSECT
Comment					
<p>Prototype NAT used for FULLPATH determination The following fields are only used during full path processing.</p>					
End of Comment					
20	(14)	BITSTRING	1	NATNPMF	Flag byte work area
21	(15)	BITSTRING	1		Reserved for future use
22	(16)	SIGNED	2	NATNPLEN	Path length work area
22	(16)	X'18'	0	NATFPTL	"*-NAT" Length of full path NAT

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Nodes attached table queue element for use during initialization for the CONNECT statement. Also used for the \$ADD, \$DEL, \$D, and \$T connect commands.					
End of Comment					
20	(14)	ADDRESS	4	NATNTQ	NTQ Chain field
24	(18)	CHARACTER	8	NATNTQNA	Primary node name (EBCDIC)
32	(20)	CHARACTER	8	NATNTQNB	2ndary node name (EBCDIC)
40	(28)	CHARACTER	8	NATNTQCN	Console id of console issuing command
48	(30)	BITSTRING	1	NATNTQF1	NTQ type field
		1... ..		NATNTQ1A	"B'10000000" Add CONNECT
		.1.. ..		NATNTQ1T	"B'01000000" Change (\$) CONNECT
		..1. ....		NATNTQ1R	"B'00100000" Delete CONNECT
		...1 ....		NATNTQ1P	"B'00010000" PATHMGR= value was explicitly specified
49	(31)	BITSTRING	1	NATNTQF2	General NTQ flags
		1... ..		NATNTQ2P	"B'10000000" Processed NTQ
		... ..1		NATNTQ2C	"B'00000001" NPMSIM Flag
50	(32)	BITSTRING	2		Reserved for future use
50	(32)	X'34'	0	NATNTQL	**-"NAT" Length of NTQ control block
Comment					

Nodes attached table element for NJE connections out of other MAS members (NATP).					
End of Comment					
20	(14)	ADDRESS	4	NATPNEXT	Next chained NATP (NAT chn)
24	(18)	ADDRESS	4	NATPDNXT	Next chained NATP (DCT chn)
28	(1C)	ADDRESS	4	NATPNAT	NAT associated with NATP
32	(20)	ADDRESS	4	NATPDCT	DCT associated with NATP
36	(24)	ADDRESS	3	NATPAFTK	Owning memb affinity token
39	(27)	BITSTRING	1	NATPMEMB	Owning member's ID
40	(28)	BITSTRING	1	NATPFLG1	NATP flag byte
		1... ..		NATP1WAT	"B'10000000" Don't send it yet
		.1.. ..		NATP1CMP	"B'01000000" Signon done (got M recrd)
		..1. ....		NATP1PRS	"B'00100000" Persistent connection
41	(29)	BITSTRING	3		Reserved
44	(2C)	CHARACTER	8	NATPNNAM	Node name from I record
52	(34)	SIGNED	4	(0)	Ensure fullword boundry
52	(34)	X'34'	0	NATNATPL	**-"NAT" Length of NATP control

**\$NAT Cross Reference**

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
NAT	0		NATNATL	50	54
NATALINE	38		NATNATP	40	
NATALNUM	3C		NATNATPL	34	34
NATANATP	30		NATNEXT	18	
NATAUX	4C		NATNMPTR	34	
NATAUXCP	44	38	NATNPLEN	16	
NATAUXCS	38		NATNPMF	14	
NATCACT	45	80	NATNRANK	46	
NATCHLD	45	20	NATNRHLD	46	10
NATCSTAT	45		NATNRINA	46	14
NATCUNC	45	40	NATNRMAS	46	8
NATECOM	14		NATNRNMS	46	4
NATEVNT	C		NATNRNUL	46	0
NATFPTL	16	18	NATNRSTA	46	C
NATID	0		NATNSTAT	15	
NATMEMBP	44		NATNTIME	48	

## \$NAT Cross Reference

Name	Hex Offset	Hex Value
NATNTNAT	8	80
NATNTNPT	8	20
NATNTNTP	8	10
NATNTNTQ	8	40
NATNTQ	14	
NATNTQCN	28	
NATNTQF1	30	
NATNTQF2	31	
NATNTQL	32	34
NATNTQNA	18	
NATNTQNB	20	
NATNTQ1A	30	80
NATNTQ1P	30	10
NATNTQ1R	30	20
NATNTQ1T	30	40
NATNTQ2C	31	1
NATNTQ2P	31	80
NATNTYPE	8	
NATPAFTK	24	
NATPCHAN	20	
NATPDCT	20	
NATPDNXT	18	
NATPFLG1	28	
NATPMEMB	27	
NATPNAT	1C	
NATPNEXT	14	
NATPNIT	28	
NATPNNAM	2C	
NATPREV	1C	
NATPRI	0	
NATPRIN	0	0
NATPRIQ	2	0
NATP1CMP	28	40
NATP1PRS	28	20
NATP1WAT	28	80
NATREST	A	0
NATRTKN	50	
NATSCHAN	24	
NATSEC	4	
NATSECN	4	0
NATSECQ	6	0
NATSINUS	14	40
NATSNIT	2C	
NATSPEND	14	10
NATSTATE	14	
NATSUMAX	14	80
NATSURCH	14	20
NATSXTRA	14	8
NATTADJ	9	2
NATTPM	9	40
NATTPMDE	9	10
NATTPMNO	9	20
NATTPRIV	9	8
NATTSTAT	9	80
NATTUNRE	9	4
NATTYPE	9	
NATVERN	0	1
NATVFPRI	47	40
NATVFSEC	47	20
NATVFSTA	47	80
NATVfyQ	47	

## \$NCPE Heading Information

**Common Name:** NJE Server Subtask Table  
**Macro ID:** \$NCPE  
**DSECT Name:** NCPE  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'NCPE'  
 Offset: -8 (in the JES2 CSA storage prefix)  
 Length: 4  
**Storage Attributes:** Subpool: 230  
 Key: 1  
 Residency: Common storage, Virtual storage below 2GB, real storage anywhere  
**Size:** See NCPLEN  
**Created by:** HASCNJAS during NETSRV address space initialization  
**Pointed to by:** NSCNCPE field of the \$NSCT data area  
 PCLNCPE field of the \$PCL data area  
**Serialization:**  
**Function:** Used to cross-memory post the request manager subtask in an NJE server address space

## \$NCPE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NCPE	NCPE DSECT mapping
Comment					
-----					
\$XMPOST parameter list for server request subtask					
-----					
End of Comment					
0	(0)	SIGNED	4	NCPEXMPE (0)	XMPOST parameter list
0	(0)	ADDRESS	4	NCPERRET	WORD 1 = ERRET address (CCTBR14)
4	(4)	ADDRESS	4	NCPECBAD	WORD 2 = ECB address (NCPEECB)
8	(8)	ADDRESS	4	NCPEASCB	WORD 3 = ASCB address
12	(C)	SIGNED	4	NCPEECB	Request manager ECB
12	(C)	X'10'	0	NCPELEN	"*-NCPE" Length of NCPE

## \$NCPE Map

---

**\$NHD Programming Interface information**

Programming Interface information

**\$NHD**

End of Programming Interface information

## \$NHD Heading Information

**Common Name:** Network Job Header, Dataset Header, and Job Trailer DSECTS.  
**Macro ID:** \$NHD  
**DSECT Name:** NJH NJH2 NJHE NJHT NJHU NJHO NJHA NJHOX NJT NJTS NJTU NJTO NDH  
 NDHA NDHS NDHC NDHT NDHU NDHO NDHOX  
**Owning Component:** JES2 (SCB1H)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: 10  
 Key: 1  
 Residency: JES2 spool resident control block. Virtual and real storage may be anywhere when resident in memory.  
**Size:** Variable, with a maximum size of NJHMAXLN for job headers, NDHMAXLN for dataset headers, or NJTMAXLN for job trailers. These control blocks will always reside in a 32K block of storage.  
**Created by:** Network job receiver for jobs received from network;  
 Offload job receiver for reloaded jobs;  
 Route receiver for network jobs rerouted locally;  
 Network, offload, or route job/SYSOUT transmitters for locally submitted jobs (at transmission time).  
 In-storage versions of the control block are created by \$NHDREAD or \$NHDRCV.  
**Pointed to by:** JCTNJHTR field of the \$JCT data area (spool pointer)  
 JCTNJTTR field of the \$JCT data area (spool pointer)  
 PDBNDHTR field of the \$JCT data area (spool pointer)  
 Storage pointers in various PCE work areas and \$NHDxxx service parameter lists.  
**Serialization:** Serialized under the JES2 TCB  
**Function:** This DSECT represents the JES2 mappings of Job and Data set Headers/Trailers described in "Network Job Entry Formats and Protocols" (SC23-0070). These control blocks are part of the networking protocol used to communicate between nodes in a network.

## \$NHD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJH	NETWORK JOB HEADER RECORD
Comment					
BLOCK CONTROL INFORMATION					
End of Comment					
0	(0)	ADDRESS	2	NJHLEN	LENGTH OF ENTIRE BLOCK
2	(2)	BITSTRING	1	NJHFLAGS	FLAGS
3	(3)	BITSTRING	0	NJHSEQ	TRANSMISSION SEQUENCE INDICATOR
3	(3)	X'4'	0	NJHLBCI	"*-NJH" LENGTH OF BLOCK CONTROL INFORMATION
Comment					
GENERAL SECTION					
End of Comment					



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	SIGNED	4	NJHG (0)	START OF GENERAL SECTION
4	(4)	ADDRESS	2	NJHGLN	LENGTH OF GENERAL SECTION
6	(6)	BITSTRING	2	NJHGFLGS (0)	SECTION TYPE FLAGS
6	(6)	ADDRESS	1	NJHGTYPE	ID FOR GENERAL SECTION
7	(7)	ADDRESS	1	NJHGMOD	MODIFIER
		.... ....		NJHG\$MOD	"B'00000000" VALUE OF MODIFIER
8	(8)	ADDRESS	2	NJHGJID	JOB IDENTIFIER
10	(A)	CHARACTER	1	NJHGJCLS	JOB CLASS
11	(B)	CHARACTER	1	NJHGMCLS	MESSAGE CLASS
12	(C)	BITSTRING	1	NJHGFLG1	FLAGS
		1... ....		NJHGF1PR	"B'10000000" DO NOT RECOMPUTE PRIORITY
		.1.. ....		NJHGF1JN	"B'01000000" Extended job number exists
		.... 1...		NJHGF1CF	"B'00001000" Store-and-forward msg flag
		.... .1..		NJHGF1CA	"B'00000100" Destination node msg flag
		.... ..1.		NJHGF1PE	"B'00000010" NJHGPASS is encrypted
		.... ...1		NJHGF1NE	"B'00000001" NJHGNPAS is encrypted
13	(D)	ADDRESS	1	NJHGPRIO	SELECTION PRIORITY
14	(E)	ADDRESS	1	NJHGORGQ	ORIGIN NODE SYSTEM QUALIFIER
15	(F)	ADDRESS	1	NJHGJCPY	JOB COPY COUNT
16	(10)	ADDRESS	1	NJHGLNCT	JOB LINE COUNT
17	(11)	BITSTRING	1		RESERVED
18	(12)	SIGNED	2	NJHGHOPS	NJE HOP COUNT
20	(14)	CHARACTER	8	NJHGACCT	NETWORKING ACCOUNT NUMBER
28	(1C)	CHARACTER	8	NJHGJNAM	JOB NAME
36	(24)	CHARACTER	8	NJHGUSID	USERID (TSO, VM) to NOTIFY
44	(2C)	CHARACTER	8	NJHGPASS	PASSWORD
52	(34)	CHARACTER	8	NJHGNPAS	NEW PASSWORD
60	(3C)	SIGNED	8	NJHGETS	ENTRY TIME/DATE STAMP
68	(44)	CHARACTER	8	NJHGORGN	ORIGIN NODE NAME
76	(4C)	CHARACTER	8	NJHGORGR	ORIGIN REMOTE NAME
84	(54)	CHARACTER	8	NJHGXEQN	EXECUTION NODE NAME
92	(5C)	CHARACTER	8	NJHGXEQU	EXECUTION USER ID(VM/370)
100	(64)	CHARACTER	8	NJHGPRTN	DEFAULT PRINT NODE NAME
108	(6C)	CHARACTER	8	NJHGPRTR	DEFAULT PRINT REMOTE NAME
116	(74)	CHARACTER	8	NJHGPUNN	DEFAULT PUNCH NODE NAME
124	(7C)	CHARACTER	8	NJHGPUNR	DEFAULT PUNCH REMOTE NAME
132	(84)	CHARACTER	8	NJHGFORM	JOB FORMS
140	(8C)	SIGNED	4	NJHGICRD	INPUT CARD COUNT
144	(90)	SIGNED	4	NJHGETIM	ESTIMATED EXECUTION TIME
148	(94)	SIGNED	4	NJHGELIN	ESTIMATED OUTPUT LINES
152	(98)	SIGNED	4	NJHGECRD	ESTIMATED OUTPUT CARDS
156	(9C)	CHARACTER	20	NJHGPRGN	PROGRAMMER'S NAME
176	(B0)	CHARACTER	8	NJHGROOM	PROGRAMMER'S ROOM NUMBER
184	(B8)	CHARACTER	8	NJHGDEPT	PROGRAMMER'S DEPARTMENT
192	(C0)	CHARACTER	8	NJHGBLDG	PROGRAMMER'S BUILDING NUMBER
200	(C8)	SIGNED	4	NJHGNREC	RECORD COUNT ON OUTPUT XMISSION
204	(CC)	SIGNED	4	NJHGJNO	Extended job number
208	(D0)	CHARACTER	8	NJHGNTYN	Node to send NOTIFY message
216	(D8)	SIGNED	4	NJHGEND (0)	END OF GENERAL SECTION
216	(D8)	X'24'	0	NJHGORGU	"NJHGUSID" ORGIN USER ID
216	(D8)	X'D4'	0	NJHGLLEN	"*-NJHG" LENGTH OF GENERAL SECTION

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJH2	START OF JES2 SECTION
0	(0)	ADDRESS	2	NJH2LEN	LENGTH OF JES2 SECTION
2	(2)	BITSTRING	2	NJH2FLGS (0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NJH2TYPE	ID FOR JES2 SECTION
3	(3)	ADDRESS	1	NJH2MOD	MODIFIER
		.... ....		NJH2\$MOD	"B'00000000" VALUE OF MODIFIER

# \$NHD Map

## Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
The following modifier is reserved and may not be used in conjunction with NTYPE2 in the job header as it is used internally in JES2 SP4.3.0.					
End of Comment					
		.... ...1		NJH2\$RSV	"B'00000001" **RESERVED Modifier** Was NJHA\$J2M previously
4	(4)	BITSTRING	1	NJH2FLG1	FLAGS
5	(5)	BITSTRING	3		RESERVED
8	(8)	CHARACTER	4	NJH2ACCT	ORIGINATOR'S JES2 ACCOUNT NUMBER
12	(C)	CHARACTER	8	NJH2USID	JMR installation data field
20	(14)	CHARACTER	8	NJH2USR (0)	JCL USER ID (BEFORE SAF CALL) VERIFIED USER ID (AFTER)
28	(1C)	CHARACTER	8	NJH2GRP (0)	JCL GROUP ID (BEFORE SAF CALL) VERIFIED GROUP ID (AFTER)
36	(24)	CHARACTER	8	NJH2SUSR (0)	SUBMITTER'S USER ID
44	(2C)	CHARACTER	8	NJH2SGRP (0)	SUBMITTER'S GROUP ID
44	(2C)	X'34'	0	NJH2ACML	**NJH2" MINIMUM LENGTH FOR FIELDS REQUIRED FOR AUTH CHECKS IN JES2
52	(34)	SIGNED	4	NJH2END (0)	END OF JES2 SECTION
52	(34)	X'34'	0	NJH2LLEN	**NJH2" LENGTH OF JES2 SECTION

## Comment

### NJH2FLG1 BIT DEFINITIONS

End of Comment					
		.... ..11		NJH2FJOB	"B'00000011" JOB IS A BATCH JOB WHEN ZERO
		.... ...1		NJH2FSTC	"B'00000001" JOB IS A STARTED TASK
		.... ..1.		NJH2FTSU	"B'00000010" JOB IS TIME-SHARING USER
		.... .1..		NJH2USE	"B'00000100" JCTUSEID PRESENT IN HEADER
		.... 1...		NJH2TPO	"B'00001000" Output originated from a transaction program

## Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJHE	START OF JOB SCHED SECTION
0	(0)	ADDRESS	2	NJHELEN	LEN OF JOB SCHEDULING SECTION
2	(2)	BITSTRING	2	NJHEFLGS (0)	JOB SCHEDULING FLAGS
2	(2)	ADDRESS	1	NJHETYPE	ID FOR JOB SCHEDULING SECTION
3	(3)	ADDRESS	1	NJHEMOD	MODIFIER FOR JOB SCHEDULING
		.... ....		NJHE\$JS	"B'00000000" VALUE OF MODIFIER
4	(4)	BITSTRING	4	NJHEPAGE	ESTIMATED BEGIN PAGE COUNT
8	(8)	BITSTRING	4	NJHEBYTE	ESTIMATED BYTE COUNT
12	(C)	SIGNED	4	NJHEEND (0)	END OF JOB SCHEDULING SECTION
12	(C)	X'C'	0	NJHELLEN	**NJHE" LEN OF JOB SCHEDULING SECTION

## Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJHT	Start of Security Section
0	(0)	ADDRESS	2	NJHTLEN	Length of Security Section
2	(2)	BITSTRING	2	NJHTFLGS (0)	Section type flags
2	(2)	ADDRESS	1	NJHTTYPE	ID for Security Section
3	(3)	ADDRESS	1	NJHTMOD	Modifier
		.... ....		NJHT\$MOD	"B'00000000" Value of Modifier
4	(4)	ADDRESS	2	NJHTLENP	Length of prefix sectn
6	(6)	BITSTRING	1	NJHTFLG0	Security section flags
		1... ....		NJHTF0JB	"B'10000000" Token represents job
7	(7)	ADDRESS	1		Reserved

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
8	(8)	CHARACTER	80	NJHTOKN	Mapped SAF token
88	(58)	SIGNED	4	NJHTEND (0)	End of Security Section
88	(58)	X'58'	0	NJHTLEN	** -NJHT" Length of Security Section

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJHA	START of Accounting Section
0	(0)	SIGNED	2	NJHALEN	Length of Acctg Section
2	(2)	BITSTRING	2	NJHAFLGS (0)	Section type flags
2	(2)	ADDRESS	1	NJHATYPE	ID for Accounting Section
3	(3)	ADDRESS	1	NJHAMOD	Modifier
		.... ....		NJHA\$MOD	"B'00000000" Value of Modifier
4	(4)	BITSTRING	1	NJHAFLG1	Flags
		1... ....		NJHAF1OV	"B'10000000" Accounting string can be overlaid by other than originating node
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	ADDRESS	2	NJHAOFFS	Offset to beginning of accounting information
6	(6)	X'8'	0	NJHAFLFN	** -NJHA" Length of fixed portion

Comment

Accounting strings from the JOB statement

The string is in the form:

AL1(number-of-substrings)

AL1(length-1st-string),C'1st-string'

AL1(length-2nd-string),C'2nd-string'

etc.

Note: The maximum length supported by JES2/JES3

is 143 bytes.

End of Comment

8	(8)	SIGNED	2	NJHAJLEN	Length of job accounting string (does not include the length of this half word)
10	(A)	SIGNED	1	NJHAJNR	Number of sub-strings
11	(B)	SIGNED	1	NJHAJAC1 (0)	First sub-string

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJHU	START OF USER SECTION
0	(0)	ADDRESS	2	NJHULEN	LENGTH OF USER SECTION
2	(2)	BITSTRING	2	NJHUFLGS (0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NJHUTYPE	ID FOR USER SECTION -- BITS 0-1 MUST BE B'11' BITS 2-7 CAN BE ANYTHING
3	(3)	ADDRESS	1	NJHUMOD	MODIFIER --
		.... ....		NJHU\$MOD	"B'00000000" MOD VALUE CAN BE ANYTHING
4	(4)	CHARACTER	4	NJHUCODE	SHARE/GUIDE INSTALLATION CODE PLACE USER INFORMATION FIELDS BETWEEN 'NJHUCODE' & 'NJHUEND'
8	(8)	SIGNED	4	NJHUEND (0)	END OF USER SECTION
8	(8)	X'8'	0	NJHULLEN	** -NJHU" LENGTH OF USER SECTION

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJHOX	Start of JES2 SYSAFF sect.
0	(0)	ADDRESS	2	NJHOXLN	Length of JES2 SYSAFF sect.
2	(2)	BITSTRING	2	NJHOXFGS (0)	Section type flags
2	(2)	ADDRESS	1	NJHOXTYP	ID for JES2 section
3	(3)	ADDRESS	1	NJHOXMOD	MODIFIER for SYSAFF sect.
		11.. ....		NJHO\$AFF	"B'11000000" VALUE OF MODIFIER
4	(4)	BITSTRING	1	NJHOXFG1	FLAGS

## \$NHD Map

### Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		1... ..		NJHOX1IM	"B'10000000" Job is independent mode
		.1.. ....		NJHOX1NY	"B'01000000" SYSAFF=ANYdependent mode
5	(5)	BITSTRING	1		RESERVED
6	(6)	ADDRESS	2	NJHOXOFF	Offset to extended affinity

Comment

-----  
 Extended system affinity... pointed to by  
 NJHOXOFF.  
 The bits in NJHOXSAF reflect affinity for the  
 system numbers from left to right: 12345678....  
 -----

End of Comment

8	(8)	ADDRESS	2	NJHOXSAL	Length of extended sys aff
10	(A)	BITSTRING	1	NJHOXSAF	Extended system affinity
10	(A)	X'E'	0	NJHOXLLN	"*-NJHOX" Length of affinity sect.

### Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJHO	START OF JES2 OFFLOAD SECT
0	(0)	ADDRESS	2	NJHOLEN	LENGTH OF JES2 OFFLOAD SECTION
2	(2)	BITSTRING	2	NJHOFLGS (0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NJHOTYPE	ID FOR JES2 SECTION
3	(3)	ADDRESS	1	NJHOMOD	MODIFIER
		1... ..		NJHO\$MOD	"B'10000000" VALUE OF MODIFIER
4	(4)	BITSTRING	1	NJHOFLG1	FLAGS
5	(5)	BITSTRING	1	NJHOFLG2	MORE FLAGS
6	(6)	BITSTRING	1	NJHOPRIO	CURRENT EXECUTING PRIORITY
7	(7)	BITSTRING	1	NJHOCLAS	CURRENT EXECUTING CLASS
8	(8)	SIGNED	4	NJHOTIME	OFFLOAD VERIFICATION TIME
12	(C)	SIGNED	4	NJHODATE	OFFLOAD VERIFICATION DATE
16	(10)	CHARACTER	8	NJHOPRTU	PRINT SPECIAL LOCAL ROUTING
24	(18)	CHARACTER	8	NJHOPUNU	PUNCH SPECIAL LOCAL ROUTING
32	(20)	SIGNED	2	NJHOOJNO	OFFLOADED JOB NUMBER

Comment

-----  
 The bits in NJHOSAF reflect affinity for the  
 system numbers from right to left, with the topmost  
 bit indicating independent mode: 17654321  
 -----

End of Comment

34	(22)	BITSTRING	1	NJHOSAF	System affinity; used by systems SP430 and below
35	(23)	BITSTRING	1		Reserved
36	(24)	CHARACTER	8	NJHOPRTN	Job print command authority node name, will be blanks for special local
44	(2C)	BITSTRING	2	NJHOPRRM	Job print command authority remote number
46	(2E)	CHARACTER	8	NJHOPUNN	Job punch command authority node name, will be blanks for special local
54	(36)	BITSTRING	2	NJHOPURM	Job punch command authority remote number
56	(38)	SIGNED	4	NJHOOJBN	Offloaded job number
60	(3C)	CHARACTER	8	NJHOSRVC	\$T'ed Service Class
68	(44)	CHARACTER	16	NJHOSCHE	\$T'ed SCHENV
84	(54)	SIGNED	4	NJHOCRTM	JQE creation time
88	(58)	CHARACTER	8	HJHOSLGS	For SYSLOG job, MVS system name that created log
96	(60)	CHARACTER	4	NJHORDSD	Input processor JES name
100	(64)	CHARACTER	4	NJHOCVSD	Conversion processor JES nm
104	(68)	CHARACTER	4	NJHOEXSD	Execution processor JES nm

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
108	(6C)	CHARACTER	4	HJHOOTSD	Output processor JES name
112	(70)	SIGNED	4	NJHOEND (0)	END OF JES2 OFFLOAD SECTION
112	(70)	X'70'	0	NJHOLLEN	"*-NJHO" LENGTH OF JES2 OFFLOAD SECTION
112	(70)	X'188'	0	NJHLLN	"NJHLBCI+NJHGLLEN+NJH2LLEN+NJHELLEN+NJHOLLEN" LENGTH OF DEFAULT JOB HEADER RECORD

Comment

ADD NJHULLEN TO THE ABOVE EQUATION TO INCLUDE USER SECTION  
NJHOFLG1 BIT DEFINITIONS

End of Comment

1... ..	NJHOF1HD	"B'10000000" JOB HELD PRIOR TO TRANSMIT
.1.. ..	NJHOF1HO	"B'01000000" ALL JOBS HELD BY OPERATOR PRIOR TO TRANSMIT
..1. ....	NJHOF1MC	"B'00100000" JOB CLASS MODIFIED
...1 ....	NJHOF1MS	"B'00010000" JOB AFFINITY MODIFIED
.... 1...	NJHOF1MH	"B'00001000" JOB HOLD STATUS MODIFIED
.... .1..	NJHOF1CV	"B'00000100" JOB HOLD FOR CONVERSION BEFORE SPOOL OFFLOAD

Comment

NJHOFLG2 BIT DEFINITIONS

End of Comment

1... ..	NJHOF2PR	"B'10000000" 'PROTECTED' attribute
.1.. ..	NJHOF2SD	"B'01000000" Service class \$T'ed
..1. ....	NJHOF2ED	"B'00100000" SCHENV \$T'ed

Comment

SECTION TYPE FLAGS

End of Comment

.... ..	NTYPGEN	"B'00000000" GENERAL SECTION	
1... ..	NTYPSUB	"B'10000000" SUBSYSTEM SECTION	
1... 1..1	NTYPGDS	"B'10001001" DATA STREAM/ACCOUNTING SECTION	
1... 1..1	NTYPGJS	"B'10001010" JOB SCHEDULING SECTION	
1... 11..	NTYPSAF	"B'10001100" Security Token Section	
1... 11.1	NTYPACCT	"B'10001101" Job Accounting Section	
1... ...1	NTYPASP	"B'10000001" ASP SUBSYSTEM SECTION	
1... ..1	NTYPHASP	"B'10000010" HASP SUBSYSTEM SECTION	
1... ..11	NTYPJES1	"B'10000011" JES/RES SUBSYSTEM SECTION	
1... .1..	NTYPJES2	"B'10000100" JES2 SUBSYSTEM SECTION	
1... .1.1	NTYPJES3	"B'10000101" JES3 SUBSYSTEM SECTION	
1... .11.	NTYPPOWR	"B'10000110" POWER/V5 SUBSYSTEM SECTION	
1... .111	NTYPVNET	"B'10000111" VM/370 SUBSYSTEM SECTION	
11.. ....	NTYPUSER	"B'11000000" USER SECTION	
112 (70)	X'7B8B'	0 NJHMAXLN	"(253-4)*127+4" Maximum size of job header: 127 records allowed by sequencing field * maximum size of each record (253) less the size of the sequencing fields (4) + general header prefix.

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJT	

# \$NHD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
BLOCK CONTROL INFORMATION					
End of Comment					
0	(0)	ADDRESS	2	NJTLEN	LENGTH OF ENTIRE BLOCK
2	(2)	BITSTRING	1	NJTFLAGS	FLAGS
3	(3)	BITSTRING	0	NJTSEQ	TRANSMISSION SEQUENCE INDICATOR
3	(3)	X'4'	0	NJTLBCI	** -NJT" LENGTH OF BLOCK CONTROL INFORMATION
Comment					
GENERAL SECTION					
End of Comment					
4	(4)	SIGNED	4	NJTG (0)	START OF GENERAL SECTION
4	(4)	ADDRESS	2	NJTLEN	LENGTH OF GENERAL SECTION
6	(6)	BITSTRING	2	NJTGFLGS (0)	SECTION TYPE FLAGS
6	(6)	ADDRESS	1	NJTGTYPE	ID FOR GENERAL SECTION
7	(7)	ADDRESS	1	NJTGMOD	MODIFIER
		.... ....		NJTG\$MOD	"B'00000000" VALUE OF MODIFIER
8	(8)	BITSTRING	1	NJTGFLG1	FLAGS
9	(9)	CHARACTER	1	NJTGXCLS	ACTUAL EXECUTION CLASS
10	(A)	BITSTRING	2		RESERVED
12	(C)	SIGNED	8	NJTGSTRT	EXECUTION START TIME/DATE
20	(14)	SIGNED	8	NJTGSTOP	EXECUTION STOP TIME/DATE
28	(1C)	SIGNED	4	NJTGACPU	ACTUAL CPU TIME
32	(20)	SIGNED	4	NJTGALIN	ACTUAL OUTPUT LINES
36	(24)	SIGNED	4	NJTGACRD	ACTUAL OUTPUT CARDS
40	(28)	SIGNED	4	NJTGEXCP	EXCP COUNT
44	(2C)	ADDRESS	1	NJTGIXPR	INITIAL XEQ SELECTION PRIORITY
45	(2D)	ADDRESS	1	NJTGAXPR	ACTUAL XEQ SELECTION PRIORITY
46	(2E)	ADDRESS	1	NJTGIOPR	INITIAL OUTPUT SELECTION PRIORITY
47	(2F)	ADDRESS	1	NJTGAOPR	ACTUAL OUTPUT SELECTION PRIORITY
48	(30)	BITSTRING	4	NJTGCC (0)	Job completion codes
48	(30)	BITSTRING	1	NJTGCOMP	Job completion indicator
		1... ....		NJTGCAB	"X'80" ABEND CODE
		.1... ....		NJTGCCC	"X'40" Completion code
48	(30)	X'0'	0	NJTGCUNK	"0" No completion info
48	(30)	X'1'	0	NJTGCNRM	"1" Job ended normally
48	(30)	X'2'	0	NJTGCECC	"2" Job ended by cc
48	(30)	X'3'	0	NJTGCJCL	"3" Job had a JCL error
48	(30)	X'4'	0	NJTGCCAN	"4" Job was canceled
48	(30)	X'5'	0	NJTGCABN	"5" Job ABENDEd
48	(30)	X'6'	0	NJTGCCAB	"6" Converter ABENDEd
48	(30)	X'7'	0	NJTGCSEC	"7" Security error
48	(30)	X'8'	0	NJTGCCEOM	"8" Job ABENDEd in end of memory processing
49	(31)	BITSTRING	3	NJTGCODE	Completion code (if applicable), or ABEND codes (system code in first 12 bits, user code in last 12 bits).
52	(34)	SIGNED	4	NJTGEND (0)	END OF GENERAL SECTION
52	(34)	X'30'	0	NJTGLLEN	** -NJTG" LENGTH OF GENERAL SECTION

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJTS	START OF ACCOUNTING SECTION
0	(0)	ADDRESS	2	NJTSLEN	LENGTH OF ACCOUNTING SECTION
2	(2)	BITSTRING	2	NJTSFLGS (0)	ACCOUNTING SECTION FLAGS
2	(2)	ADDRESS	1	NJTSTYPE	ID FOR GENERAL SECTION
3	(3)	ADDRESS	1	NJTSMOD	MODIFIER
		.... ....		NJT\$ACCT	"B'00000000" VALUE OF MODIFIER
4	(4)	BITSTRING	4	NJTSAPAG	NUMBER OF 'BEGIN PAGE' FIELDS

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
8	(8)	BITSTRING	4	NJTSABYT	NUMBER OF DATA BYTES
12	(C)	SIGNED	4	NJTSEND (0)	END OF ACCOUNTING SECTION
12	(C)	X'C'	0	NJTSLEN	"*-NJTS" LENGTH OF ACCOUNTING SECTION

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJTU	START OF USER SECTION
0	(0)	ADDRESS	2	NJTULEN	LENGTH OF USER SECTION
2	(2)	BITSTRING	2	NJTUFLGS (0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NJTUTYPE	ID FOR USER SECTION -- BITS 0-1 MUST BE B'11' BITS 2-7 CAN BE ANYTHING
3	(3)	ADDRESS	1	NJTUMOD	MODIFIER --
		.... ....		NJTU\$MOD	"B'00000000" MOD VALUE CAN BE ANYTHING
4	(4)	CHARACTER	4	NJTUCODE	SHARE/GUIDE INSTALLATION CODE PLACE USER INFORMATION FIELDS BETWEEN 'NJTUCODE' & 'NJTUEND'
8	(8)	SIGNED	4	NJTUEND (0)	END OF USER SECTION
8	(8)	X'8'	0	NJTULLEN	"*-NJTU" LENGTH OF USER SECTION

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NJTO	START OF JES2 OFFLOAD SECT
0	(0)	ADDRESS	2	NJTOLEN	LENGTH OF JES2 OFFLOAD SECTION
2	(2)	BITSTRING	2	NJTOFLGS (0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NJTOTYPE	ID FOR JES2 SECTION
3	(3)	ADDRESS	1	NJTMOD	MODIFIER
		1... ....		NJTO\$MOD	"B'10000000" VALUE OF MODIFIER
4	(4)	SIGNED	4	NJTOTIME	OFFLOAD VERIFICATION TIME
8	(8)	SIGNED	4	NJTODATE	OFFLOAD VERIFICATION DATE
12	(C)	SIGNED	4	NJTOEND (0)	END OF JES2 OFFLOAD SECTION
12	(C)	X'C'	0	NJTOLLEN	"*-NJTO" LENGTH OF JES2 OFFLOAD SECTION
12	(C)	X'4C'	0	NJTLLN	"NJTLBCI+NJTGLLEN+NJTSLEN+NJTOLLEN" LENGTH OF DEFAULT JOB TRAILER RECORD

Comment

ADD NJTULLEN TO THE ABOVE EQUATION TO INCLUDE USER SECTION

End of Comment

12	(C)	X'7B8B'	0	NJTMAXLN	"(253-4)*127+4" Maximum size of job trailer: 127 records allowed by sequencing field * maximum size of each record (253) less the size of the sequencing fields (4) + general header prefix.
----	-----	---------	---	----------	--

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NDH	NETWORK DATA SET HEADER RECORD

Comment

BLOCK CONTROL INFORMATION

End of Comment

0	(0)	ADDRESS	2	NDHLEN	LENGTH OF ENTIRE BLOCK
2	(2)	BITSTRING	1	NDHFLAGS	FLAGS
3	(3)	BITSTRING	0	NDHSEQ	TRANSMISSION SEQUENCE INDICATOR
3	(3)	X'4'	0	NDHLBCI	"*-NDH" LENGTH OF BLOCK CONTROL INFORMATION

# \$NHD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
GENERAL SECTION					
End of Comment					
4	(4)	SIGNED	4	NDHG (0)	START OF GENERAL SECTION
4	(4)	ADDRESS	2	NDHGLEN	LENGTH OF GENERAL SECTION
6	(6)	BITSTRING	2	NDHGFLGS (0)	SECTION TYPE FLAGS
6	(6)	ADDRESS	1	NDHGTYPE	ID FOR GENERAL SECTION
7	(7)	ADDRESS	1	NDHGMOD	MODIFIER
		.... ....		NDHG\$MOD	"B'00000000" VALUE OF MODIFIER
8	(8)	CHARACTER	8	NDHGNODE	DESTINATION NODE NAME
16	(10)	CHARACTER	8	NDHGRMT	DESTINATION REMOTE NAME
24	(18)	CHARACTER	8	NDHGPROC	PROC INVOCATION NAME
32	(20)	CHARACTER	8	NDHGSTEP	STEP NAME
40	(28)	CHARACTER	8	NDHGDD	DD NAME
48	(30)	SIGNED	2	NDHGDSNO	DATA SET NUMBER
50	(32)	ADDRESS	1	NDHGSEC	SECURITY LEVEL
51	(33)	CHARACTER	1	NDHGCLAS	OUTPUT CLASS
52	(34)	SIGNED	4	NDHGNREC	RECORD COUNT
56	(38)	BITSTRING	1	NDHGFLG1	FLAGS
57	(39)	BITSTRING	1	NDHGRCFM	RECFM
58	(3A)	SIGNED	2	NDHGLREC	MAX LOGICAL RECORD LENGTH
60	(3C)	ADDRESS	1	NDHGDSCT	DATA SET COPY COUNT
61	(3D)	ADDRESS	1	NDHGFCBI	3211 FCB INDEX
62	(3E)	BITSTRING	1	NDHGLNCT	DATA SET LINCT (PAGE SIZE)
63	(3F)	BITSTRING	1		RESERVED FOR FUTURE USE
64	(40)	CHARACTER	8	NDHGFORM	FORMS ID
72	(48)	CHARACTER	8	NDHGFCB	FCB ID
80	(50)	CHARACTER	8	NDHGUCS	UCS ID
88	(58)	CHARACTER	8	NDHGXWTR	EXTERNAL WRITER ID
96	(60)	CHARACTER	8	NDHGNAME	Sysout DS name (DSNAME=)
104	(68)	BITSTRING	1	NDHGFLG2	SECOND FLAG BYTE
105	(69)	BITSTRING	1	NDHGUCSO	UCS OPTION BYTE
106	(6A)	BITSTRING	2		RESERVED FOR FUTURE USE
108	(6C)	CHARACTER	8	NDHGPMDE	PROCESS MODE
116	(74)	SIGNED	4	NDHGSEGN	Segment ID
120	(78)	SIGNED	4	NDHGEND (0)	END OF GENERAL SECTION
120	(78)	X'74'	0	NDHGLLEN	"*-NDHG" LENGTH OF GENERAL SECTION
120	(78)	X'78'	0	NDHLLN	"*-NDH" LENGTH OF ENTIRE BLOCK

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NDHA	START OF 3800 CHAR SECTION
0	(0)	ADDRESS	2	NDHALEN	LENGTH OF 3800 CHAR SECTION
2	(2)	BITSTRING	2	NDHAFLGS (0)	FLAGS AND MODIFIER
2	(2)	ADDRESS	1	NDHATYPE	ID FOR GENERAL SECTION
3	(3)	ADDRESS	1	NDHAMOD	MODIFIER
		1... ....		NDHA\$MOD	"B'10000000" VALUE OF MODIFIER (3800 CHAR)
4	(4)	BITSTRING	1	NDHAFLG1	FLAGS
5	(5)	ADDRESS	1	NDHAFLCT	FLASH COUNT
6	(6)	BITSTRING	1	NDHATREF	TABLE REFERENCE CHARACTER
7	(7)	BITSTRING	1		RESERVED
8	(8)	CHARACTER	8	NDHATAB1	TRANSLATE TABLE 1
16	(10)	CHARACTER	8	NDHATAB2	TRANSLATE TABLE 2
24	(18)	CHARACTER	8	NDHATAB3	TRANSLATE TABLE 3
32	(20)	CHARACTER	8	NDHATAB4	TRANSLATE TABLE 4
40	(28)	CHARACTER	8	NDHAFLSH	FLASH CARTRIDGE ID
48	(30)	CHARACTER	8	NDHAMODF	COPY MODIFICATION ID
56	(38)	BITSTRING	8	NDHACPYG	COPY GROUPS
64	(40)	SIGNED	4	NDHAEND (0)	END OF 3800 CHAR SECTION



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
64	(40)	X'40'	0	NDHALLEN	**-NDHA" LENGTH OF 3800 CHAR SECTION

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NDHS	START OF DATASTREAM SECT
0	(0)	ADDRESS	2	NDHSLEN	LEN OF DATA STREAM SECTION
2	(2)	BITSTRING	2	NDHSFLGS (0)	FLAGS AND MODIFIERS
2	(2)	ADDRESS	1	NDHSTYPE	ID FOR GENERAL SECTION
3	(3)	ADDRESS	1	NDHSMOD	MODIFIER
		.... ....		NDHS\$OUT	"B'00000000" VALUE OF MODIFIER (OUTPUT)
4	(4)	ADDRESS	2	NDHSFLEN	SUBSECTION FIXED LENGTH
6	(6)	BITSTRING	1	NDHSFLG1	DATA STREAM FLAG
		1... ....		NDHS1CPD	"B'10000000" DATA SET HAS CPDS CHARA.
7	(7)	BITSTRING	1		RESERVED
8	(8)	BITSTRING	8	NDHSJDVT	JDVT NAME
16	(10)	BITSTRING	4	NDHSNSTR	PAGE DATA PAGE COUNT
20	(14)	BITSTRING	8	NDHSGPID	OUTPUT NAME FOR DATA SET
20	(14)	X'1C'	0	NDHSLEN2	**-NDHS" LENGTH OF DATA STREAM SECTION
28	(1C)	SIGNED	2	NDHSSDAT (0)	START OF VARIABLE DATA FOR SWBS

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NDHC	START OF CHAR CHANGE SECT
0	(0)	ADDRESS	2	NDHCLEN	LENGTH OF CHAR CHANGE GENERAL SECT
2	(2)	BITSTRING	2	NDHCFLGS (0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NDHCATYPE	ID FOR GENERAL SECTION
3	(3)	ADDRESS	1	NDHCMOD	MODIFIER
		.1.. ....		NDHC\$MOD	"B'01000000" VALUE OF MODIFIER (CHAR CHANGE)
4	(4)	BITSTRING	1	NDHCFLG1	FLAGS
5	(5)	BITSTRING	1	NDHCRCFM	RECFM
6	(6)	ADDRESS	2	NDHCLREC	MAXIMUM LRECL
8	(8)	SIGNED	4	NDHCEND (0)	END OF CHAR CHANGE GENERAL SECTION
8	(8)	X'8'	0	NDHCLEN	**-NDHC" LENGTH OF CHAR CHANGE GENERAL SECT

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NDHT	Start of Security Section
0	(0)	ADDRESS	2	NDHTLEN	Length of Security Section
2	(2)	BITSTRING	2	NDHTFLGS (0)	Section type flags
2	(2)	ADDRESS	1	NDHTTYPE	ID for Security Section
3	(3)	ADDRESS	1	NDHTMOD	Modifier
		.... ....		NDHT\$MOD	"B'00000000" Value of Modifier
4	(4)	ADDRESS	2	NDHTLENP	Length of prefix sectn
6	(6)	ADDRESS	2		Reserved
8	(8)	CHARACTER	80	NDHTTOKN	Mapped SAF token
88	(58)	SIGNED	4	NDHTEND (0)	End of Security Section
88	(58)	X'58'	0	NDHTLLEN	**-NDHT" Length of Security Section

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NDHU	START OF USER SECTION
0	(0)	ADDRESS	2	NDHULEN	LENGTH OF USER SECTION
2	(2)	BITSTRING	2	NDHUFLGS (0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NDHUTYPE	ID FOR USER SECTION -- BITS 0-1 MUST BE B'11' BITS 2-7 CAN BE ANYTHING
3	(3)	ADDRESS	1	NDHUMOD	MODIFIER --
		.... ....		NDHU\$MOD	"B'00000000" MOD VALUE CAN BE ANYTHING

# \$NHD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	CHARACTER	4	NDHUCODE	SHARE/GUIDE INSTALLATION CODE PLACE USER INFORMATION FIELDS BETWEEN 'NDHUCODE' & 'NDHUEND'
8	(8)	SIGNED	4	NDHUEND (0)	END OF USER SECTION
8	(8)	X'8'	0	NDHULLEN	**-'NDHU' LENGTH OF USER SECTION

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NDHO	START OF SPOOL OFFLOAD SECT
0	(0)	ADDRESS	2	NDHOLEN	LENGTH OF SPOF SECTION
2	(2)	BITSTRING	2	NDHOFLGS (0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NDHOTYPE	ID FOR JES2 SECTION
3	(3)	ADDRESS	1	NDHOMOD	MODIFIER
		1... ....		NDHO\$MOD	"B'10000000" VALUE OF MODIFIER
4	(4)	CHARACTER	8	NDHOUSER	OWNING USERID
12	(C)	SIGNED	4	NDHOTIME	JOE CREATION TIME
16	(10)	SIGNED	4	NDHODSNO	FULLWORD DATA SET NUMBER
20	(14)	SIGNED	2	NDHOPRIO	PRIORITY OF DATA SET
22	(16)	BITSTRING	1	NDHOFLG1	Flags
		1... ....		NDHOF1SF	"B'10000000" DS had store-and-forward token at time of offload
		.1.. ....		NDHOF1NF	"B'01000000" DS had local token at time of offload
23	(17)	BITSTRING	1		RESERVED FOR FUTURE USE
24	(18)	SIGNED	4	NDHOEND (0)	END OF JES2 SPOF SECTION
24	(18)	X'18'	0	NDHOLLEN	**-'NDHO' LENGTH OF SPOF SECTION

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NDHOX	Start of TP offload section
0	(0)	ADDRESS	2	NDHOXLEN	Length of TP section
2	(2)	BITSTRING	2	NDHOXFGX (0)	Section type flags
2	(2)	ADDRESS	1	NDHOXTYP	Id for JES2 section
3	(3)	ADDRESS	1	NDHOXMOD	Modifier
		11.. ....		NDHOXMTP	"B'11000000" Value of modifier
4	(4)	BITSTRING	1	NDHOXFG1	DSCT flag byte 1
		1... ....		NDHOX1UN	"B'10000000" Userid is undefined
5	(5)	BITSTRING	3		Reserved for future use
8	(8)	CHARACTER	8	NDHOXJBN	Job name
16	(10)	CHARACTER	8	NDHOXWKD	Work unit identifier
24	(18)	BITSTRING	8	NDHOXEST	Entry start clock time
32	(20)	BITSTRING	8	NDHOXST	Execution start clock time
40	(28)	SIGNED	4	NDHOXETS	Entry time in 1/100's sec
44	(2C)	SIGNED	4	NDHOXEDT	Entry date 00yydddf
48	(30)	CHARACTER	8	NDHOXUID	User identification field
56	(38)	CHARACTER	8	NDHOXTUD	Transaction Program Userid
64	(40)	CHARACTER	4	NDHOXACT	Account number
68	(44)	SIGNED	4	NDHOXEND (0)	END OF JES2 TP SPOF SECTION
68	(44)	X'44'	0	NDHOXLLN	**-'NDHOX' LENGTH OF TP SPOF SECTION

Comment

GENERAL SECTION, NDHGFLG1

End of Comment

1... ....	NDHGF1SP	"B'10000000" SPIN DATA SET
.1.. ....	NDHGF1HD	"B'01000000" HOLD DATA SET AT DESTINATION
..1. ....	NDHGF1LG	"B'00100000" JOB LOG INDICATOR
...1 ....	NDHGF1OV	"B'00010000" PAGE OVERFLOW INDICATOR
.... 1..	NDHGF1IN	"B'00001000" PUNCH INTERPRET INDICATOR
.... .1..	NDHGF1LC	"B'00000100" NDHLINCT SET INDICATOR
.... ..1.	NDHGF1ST	"B'00000010" JOB STATISTICS IN JOB LOG

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
GENERAL SECTION,NDHGFLG2					
End of Comment					
		1... ....		NDHGF2PR	"B'10000000" DATASET IS BEING PRINTED
		.1... ....		NDHGF2PU	"B'01000000" DATASET IS BEING PUNCHED
		..1. ....		NDHGF2RM	"B'00100000" FIELD NDHGRMT CONTAINS TRUE REMOTE (NOT USERID)
		...1 ....		NDHGF2HB	"B'00010000" HOLD DATASET BEFORE PRINT OR PUNCH OPERATION
		.... 1...		NDHGF2HA	"B'00001000" HOLD DATASET AFTER PRINT OR PUNCH OPERATION
Comment					
<pre> -----+-----+-----+-----+-----+-----   NDHGFLG1   NDHGFLG2   NDHGFLG2   NOTE #1 - OUTDISP   NDHGF1HD   NDHGF2HB   NDHGF2HA   These bit -----+-----+-----+-----+-----+-----   combinations only WRITE   0   0   0   0   occur when SYSOUT -----+-----+-----+-----+-----+-----   created by a KEEP   #1 0   0   1   1   version 4 system -----+-----+-----+-----+-----+-----   is released by a WRITE   #1 0   1   0   0   down level (pre -----+-----+-----+-----+-----+-----   SP410) system. KEEP   #1 0   1   1   1   -----+-----+-----+-----+-----+-----   HOLD   #2 1   0   0   0   -----+-----+-----+-----+-----+-----   NOTE #2 - KEEP   1   0   1   1   This combination will -----+-----+-----+-----+-----+-----   be considered as HOLD   1   1   0   0   OUTDISP = HOLD when -----+-----+-----+-----+-----+-----   received from a down LEAVE   1   1   1   1   level node. -----+-----+-----+-----+-----+----- </pre>					
End of Comment					
		1... ....		NDHGUCSD	"B'10000000" BLOCK DATA CHECK OPTION
		.1... ....		NDHGUCSF	"B'01000000" FOLD OPTION
Comment					
3800 CHARACTERISTICS GENERAL SECTION, NDHAF1G1					
End of Comment					
		1... ....		NDHAF1J	"B'10000000" 'OPTCD=J' SPECIFIED
		.1... ....		NDHAF1BR	"B'01000000" 'BURST=YES' SPECIFIED
		..1. ....		NDHAF1BN	"B'00100000" 'BURST=NO' SPECIFIED
		..11. ....		NDHAF1BD	"B'01100000" TEST 'BURST DEFAULT' BYTE REAL DEFAULT IS '.00.....'
68	(44)	X'7B8B'	0	NDHMAXLN	"(253-4)*127+4" Maximum size of dataset header: 127 records allowed by sequencing field * maximum size of each record (253) less the size of the sequencing fields (4) + general header prefix.

## \$NHD Cross Reference

### \$NHD Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
HJHOOTS	6C	40404040	NDHGLLEN	78	74
HJHOSLGS	58	40404040	NDHGLNCT	3E	
NDH	0		NDHGLREC	3A	0
NDHA	0		NDHGMOD	7	
NDHA\$MOD	3	80	NDHGNAME	60	40404040
NDHACPYG	38	0	NDHGNODE	8	40404040
NDHAEND	40		NDHGNREC	34	0
NDHAFLCT	5		NDHGPMDE	6C	40404040
NDHAFLGS	2		NDHGPROC	18	40404040
NDHAFLG1	4	0	NDHGRCFM	39	0
NDHAFLSH	28	40404040	NDHGRMT	10	40404040
NDHAF1BD	44	60	NDHGSEC	32	
NDHAF1BN	44	20	NDHGSEGN	74	0
NDHAF1BR	44	40	NDHGSTEP	20	40404040
NDHAF1J	44	80	NDHGTYPE	6	
NDHALEN	0	40	NDHGUCS	50	40404040
NDHALLEN	40	40	NDHGUCSD	44	80
NDHAMOD	3		NDHGUCSF	44	40
NDHAMODF	30	40404040	NDHGUCSO	69	0
NDHATAB1	8	40404040	NDHGXTWTR	58	40404040
NDHATAB2	10	40404040	NDHLBCI	3	4
NDHATAB3	18	40404040	NDHLEN	0	
NDHATAB4	20	40404040	NDHLEN	78	78
NDHATREF	6	0	NDHMAXLN	44	7B8B
NDHATYPE	2		NDHO	0	
NDHC	0		NDHO\$MOD	3	80
NDHC\$MOD	3	40	NDHO\$MTP	3	C0
NDHCEND	8		NDHODSNO	10	0
NDHCFLGS	2		NDHOEND	18	
NDHCFLG1	4	0	NDHOFLGS	2	
NDHCLEN	0		NDHOFLG1	16	
NDHCLEN	8	8	NDHOF1NF	16	40
NDHCLREC	6		NDHOF1SF	16	80
NDHCMOD	3		NDHOLEN	0	
NDHCRCFM	5	0	NDHOLLEN	18	18
NDHCTYPE	2		NDHOMOD	3	
NDHFLAGS	2	0	NDHOPRIO	14	0
NDHG	4		NDHOTIME	C	0
NDHG\$MOD	7	0	NDHOTYPE	2	
NDHGCLAS	33	C1	NDHOUSER	4	40404040
NDHGDD	28	40404040	NDHOX	0	
NDHGDSCT	3C		NDHOXACT	40	
NDHGDSNO	30	0	NDHOXEDT	2C	
NDHGEND	78		NDHOXEND	44	
NDHGFCB	48	40404040	NDHOXEST	18	
NDHGFCBI	3D		NDHOXETS	28	
NDHGFLGS	6		NDHOXFGX	2	
NDHGFLG1	38	0	NDHOXFG1	4	
NDHGFLG2	68	0	NDHOXJBN	8	
NDHGFORM	40	40404040	NDHOXLEN	0	
NDHGF1HD	44	40	NDHOXLLN	44	44
NDHGF1IN	44	8	NDHOXMOD	3	
NDHGF1LC	44	4	NDHOXTUD	38	
NDHGF1LG	44	20	NDHOXTYP	2	
NDHGF1OV	44	10	NDHOXUID	30	
NDHGF1SP	44	80	NDHOXWKD	10	
NDHGF1ST	44	2	NDHOXXST	20	
NDHGF2HA	44	8	NDHOX1UN	4	80
NDHGF2HB	44	10	NDHS	0	
NDHGF2PR	44	80	NDHS\$OUT	3	0
NDHGF2PU	44	40	NDHSEQ	3	0
NDHGF2RM	44	20	NDHSFLEN	4	1C
NDHGLN	4		NDHSFLGS	2	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
NDHSFLG1	6	0	NJHGFLG1	C	0
NDHSGPID	14	0	NJHGFORM	84	40404040
NDHSJDVT	8	0	NJHGF1CA	C	4
NDHSLEN	0		NJHGF1CF	C	8
NDHSLEN2	14	1C	NJHGF1JN	C	40
NDHSMOD	3		NJHGF1NE	C	1
NDHSNSTR	10	0	NJHGF1PE	C	2
NDHSSDAT	1C		NJHGF1PR	C	80
NDHSTYPE	2		NJHGHOPS	12	0
NDHS1CPD	6	80	NJHGICRD	8C	0
NDHT	0		NJHJGJCLS	A	C1
NDHT\$MOD	3	0	NJHJGJCPY	F	
NDHTEND	58		NJHJGJID	8	0
NDHTFLGS	2		NJHJGNAM	1C	40404040
NDHTLEN	0		NJHJGJNO	CC	0
NDHTLENP	4		NJHJGLEN	4	
NDHTLLEN	58	58	NJHJLLEN	D8	D4
NDHTMOD	3		NJHJLNCT	10	
NDHTTOKN	8	40404040	NJHJMCLS	B	C1
NDHTTYPE	2		NJHJMOD	7	
NDHU	0		NJHJNPAS	34	
NDHU\$MOD	3	0	NJHJNREC	C8	0
NDHUCODE	4	40404040	NJHJNTYN	D0	40404040
NDHUEND	8		NJHJGORG	44	40404040
NDHUFLGS	2		NJHJGORGQ	E	
NDHULEN	0		NJHJGORG	4C	40404040
NDHULLEN	8	8	NJHJGORGU	D8	24
NDHUMOD	3		NJHJGPASS	2C	
NDHUTYPE	2		NJHJGPRGN	9C	40404040
NJH	0		NJHJGPRI	D	
NJHA	0		NJHJGPRTN	64	40404040
NJHA\$MOD	3	0	NJHJGPRT	6C	40404040
NJHAFLEN	6	8	NJHJGPUNN	74	40404040
NJHAF1G	2		NJHJGPUNR	7C	40404040
NJHAF1G1	4		NJHJGROOM	B0	40404040
NJHAF1OV	4	80	NJHJGTYPE	6	
NJHAJAC1	B		NJHJGUSID	24	40404040
NJHAJLEN	8		NJHJGXEQN	54	40404040
NJHAJNR	A		NJHJGXEQ	5C	40404040
NJHALEN	0		NJHLBCI	3	4
NJHAMOD	3		NJHLEN	0	
NJHAOFFS	6		NJHLLEN	70	188
NJHATYPE	2		NJHMAXLN	70	7B8B
NJHE	0		NJHO	0	
NJHE\$JS	3	0	NJHO\$AFF	3	C0
NJHEBYTE	8	0	NJHO\$MOD	3	80
NJHEEND	C		NJHOCLAS	7	0
NJHEFLGS	2		NJHOCRTM	54	0
NJHELEN	0		NJHOCVSD	64	40404040
NJHELLEN	C	C	NJHODATE	C	0
NJHEMOD	3		NJHOEND	70	
NJHEPAGE	4	0	NJHOEXSD	68	40404040
NJHETYPE	2		NJHOF1G	2	
NJHFLGS	2	0	NJHOF1G1	4	0
NJHG	4		NJHOF1G2	5	0
NJHG\$MOD	7	0	NJHOF1CV	70	4
NJHGACCT	14	40404040	NJHOF1HD	70	80
NJHGBLDG	C0	40404040	NJHOF1HO	70	40
NJHGDEPT	B8	40404040	NJHOF1MC	70	20
NJHGECRD	98	0	NJHOF1MH	70	8
NJHGELIN	94	0	NJHOF1MS	70	10
NJHGEND	D8		NJHOF2ED	70	20
NJHGGETIM	90	0	NJHOF2PR	70	80
NJHGGETS	3C	0	NJHOF2SD	70	40
NJHGFLGS	6		NJHOLEN	0	

## \$NHD Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
NJHOLLEN	70	70	NJH2MOD	3	
NJHOMOD	3		NJH2SGRP	2C	0
NJHOOJBN	38		NJH2SUSR	24	0
NJHOOJNO	20	0	NJH2TPO	34	8
NJHOPRIO	6	0	NJH2TYPE	2	
NJHOPRRM	2C	0	NJH2USE	34	4
NJHOPRTN	24	40404040	NJH2USID	C	40404040
NJHOPRTU	10	40404040	NJH2USR	14	0
NJHOPUNN	2E	40404040	NJT	0	
NJHOPUNU	18	40404040	NJT\$ACCT	3	0
NJHOPURM	36	0	NJTFLAGS	2	0
NJHORDSD	60	40404040	NJTG	4	
NJHOSAF	22	0	NJTG\$MOD	7	0
NJHOSCHE	44		NJTGACPU	1C	0
NJHOSRVC	3C		NJTGACRD	24	0
NJHOTIME	8	0	NJTGALIN	20	0
NJHOTYPE	2		NJTGAOPR	2F	
NJHOX	0		NJTGAXPR	2D	
NJHOXFGS	2		NJTGCAB	30	80
NJHOXFG1	4	0	NJTGCABN	30	5
NJHOXLLN	A	E	NJTGCC	30	
NJHOXLN	0		NJTGCCAB	30	6
NJHOXMOD	3		NJTGCCAN	30	4
NJHOXOFF	6		NJTGCCC	30	40
NJHOXSAF	A	0	NJTGCCCC	30	2
NJHOXSAL	8		NJTGCCCEM	30	8
NJHOXTYP	2		NJTGCJCL	30	3
NJHOX1IM	4	80	NJTGCNRM	30	1
NJHOX1NY	4	40	NJTGCODE	31	
NJHSEQ	3	0	NJTGCOMP	30	
NJHT	0		NJTGCSEC	30	7
NJHT\$MOD	3	0	NJTGCUNK	30	0
NJHTEND	58		NJTGEN	34	
NJHTFLGS	2		NJTGEXCP	28	0
NJHTFLG0	6	0	NJTGFLGS	6	
NJHTF0JB	6	80	NJTGFLG1	8	0
NJHTLEN	0		NJTGIOPR	2E	
NJHTLENP	4		NJTGIXPR	2C	
NJHTLLEN	58	58	NJTGLEN	4	
NJHTMOD	3		NJTGLLEN	34	30
NJHTTOKN	8	40404040	NJTGMOD	7	
NJHTTYPE	2		NJTGSTOP	14	0
NJHU	0		NJTGSTRT	C	0
NJHU\$MOD	3	0	NJTGTYPE	6	
NJHUCODE	4	40404040	NJTGXCLS	9	C1
NJHUEND	8		NJTLBCI	3	4
NJHUFLGS	2		NJTLEN	0	
NJHULEN	0		NJTLLEN	C	4C
NJHULLEN	8	8	NJTMAXLN	C	7B8B
NJHUMOD	3		NJTO	0	
NJHUTYPE	2		NJTO\$MOD	3	80
NJH2	0		NJTODATE	8	0
NJH2\$MOD	3	0	NJTOEND	C	
NJH2\$RSV	3	1	NJTFLGS	2	
NJH2ACCT	8	40404040	NJTLEN	0	
NJH2ACML	2C	34	NJTOLLEN	C	C
NJH2END	34		NJTOMOD	3	
NJH2FJOB	34	3	NJTOTIME	4	0
NJH2FLGS	2		NJTOTYPE	2	
NJH2FLG1	4	0	NJTS	0	
NJH2FSTC	34	1	NJTSABYT	8	0
NJH2FTSU	34	2	NJTSAPAG	4	0
NJH2GRP	1C	0	NJTSEND	C	
NJH2LEN	0		NJTSEQ	3	0
NJH2LLEN	34	34	NJTSFLGS	2	

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
NJTSLEN	0	
NJTSLEN	C	C
NJTSMOD	3	
NJTSTYPE	2	
NJTU	0	
NJTU\$MOD	3	0
NJTUCODE	4	40404040
NJTUEND	8	
NJTUFLGS	2	
NJTULEN	0	
NJTULLEN	8	8
NJTUMOD	3	
NJTUTYPE	2	
NTYPACCT	70	8D
NTYPASP	70	81
NTYPGDS	70	89
NTYPGEN	70	0
NTYPGJS	70	8A
NTYPHASP	70	82
NTYPJES1	70	83
NTYPJES2	70	84
NTYPJES3	70	85
NTYPPOWR	70	86
NTYPSAF	70	8C
NTYPSUB	70	80
NTYPUSE	70	C0
NTYPVNET	70	87

## \$NHD Cross Reference



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## \$NIT Programming Interface information

Programming Interface information

### \$NIT

The following fields are **NOT** programming interface information:

- NITNSACT
- NITPASS
- NITSPASS

End of Programming Interface information

## \$NIT Heading Information

**Common Name:** Node Information Table  
**Macro ID:** \$NIT  
**DSECT Name:** NIT NITPSECT NITC NITC0  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** The pool of NITs is preceded by an eyecatcher **\*\*\*\$NIT POOL\*\*** in the header for the pool.  
 Offset: HDPID-HDP  
 Length: 13

**Storage Attributes:** Subpool: 0  
 Key: 1  
 Residency: Virtual and real storage anywhere in the private storage of the JES2 address space.

**Size:** NITMINL during JES2 initialization  
 NITMINL plus NITPL\*\$NUMPATH (later)  
 NITCSIZ for checkpointed NITs (NITCs)

**Created by:** JES2 initialization  
**Pointed to by:** \$NITABLE field of the \$HCT data area  
 \$NITCPTR field of the \$HCT data area  
 \$OWNNIT field of the \$HCT data area  
 NSANIT field of the \$NSACT data area  
 NITNXTSB field of the \$NIT data area  
 NITPLINE field of the \$NIT data area  
 NITPPNOD field of the \$NIT data area  
 NATPNIT field of the \$NAT data area  
 NATSNIT field of the \$NAT data area

**Serialization:** JES2 main task serialization for most fields.  
 There are some fields that can only be used under the subtask in "full path" processing.  
 \$QSUSE is required to access the NITCs.

**Function:** To define the nodes in the network this JES2 system is a part of, as well as the paths to those nodes. The NIT is a contiguous piece of virtual storage, with one element for each node (\$MAXNODE during initialization, (NJEDEF NODENUM) after initialization). The correct length at any one time is in the \$NITESIZ HCT field.

## \$NIT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NIT	
0	(0)	X'5'	0	NITVERS	"5" Current NIT version
0	(0)	CHARACTER	8	NITNODE	NODE IDENTIFICATION
8	(8)	SIGNED	2	NITNUM	INTERNAL NODE NUMBER (BINARY)
10	(A)	BITSTRING	1	NITPRINC	JOB RECEIVER PRIORITY INCREMENT
11	(B)	BITSTRING	1	NITPRIM	JOB RECEIVER PRIORITY LIMIT
12	(C)	SIGNED	2	NITLOGN	LOGON DCT NUMBER
14	(E)	BITSTRING	1	NITFLAG	FLAGS
		1... ....		NITFLAGE	"B'10000000" SECURE signon required
		.1.. ....		NITFLAGA	"B'01000000" AUTO DIAL BSC LINE
		..1. ....		NITFLAGX	"B'00100000" EXCLUSIVE CONNECTION
		.... 1...		NITFLAGR	"B'00001000" NODE RESTRICTED FROM LOCAL COMMANDS

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... .1..		NITFLAGJ	"B'00000100" NODE RESTRICTED FROM JOB COMMANDS
		.... ..1.		NITFLAGD	"B'00000010" NODE RESTRICTED FROM DEVICE COMMANDS
		.... ...1		NITFLAGS	"B'00000001" NODE RESTRICTED FROM SYSTEM COMMANDS
15	(F)	BITSTRING	1	NITFLG2	Flag byte
		1... ....		NIT2NOPM	"B'10000000" Nonpath manager indicator
		.1.. ....		NIT2PRIV	"B'01000000" Private node indicator
		..1. ....		NIT2TRAC	"B'00100000" \$TRACE this node
		...1 ....		NIT2OWN	"B'00010000" Local node indicator
		.... 1...		NIT2ADJ	"B'00001000" Adjacent node indicator
		.... .1..		NIT2IRST	"B'00000100" Ignore resistance from node if non-PM signon
		.... ..1.		NIT2ENDN	"B'00000010" End node only indicator
		.... ...1		NIT2DIR	"B'00000001" Only allow direct connection to node
16	(10)	BITSTRING	1	NITFLG3	Flag byte 3
		1... ....		NIT3HRDT	"B'10000000" Node has STATUS=NODE RDT
		.1.. ....		NIT3ANJE	"B'01000000" Automatically start NJE
17	(11)	BITSTRING	1	NITSF	SYSTEM CONDITION FLAGS
		1... ....		NITSF PJT	"B'10000000" JOB TRANSMITTERS ARE DRAINED
		.1.. ....		NITSF PJR	"B'01000000" JOB RECEIVERS ARE DRAINED
		..1. ....		NITSF PST	"B'00100000" SYSOUT TRANSMITTERS ARE DRAINED
		...1 ....		NITSF PSR	"B'00010000" SYSOUT RECEIVERS ARE DRAINED
		.... 1...		NITSF HJR	"B'00001000" JOB RECEIVERS ARE TO HOLD JOBS
		.... .1..		NITSF HSR	"B'00000100" SYSOUT RECEIVERS ARE TO HOLD JOBS
		.... ..1.		NITSF PEN	"B'00000010" Use Password encryption
		.... ...1		NITSF REA	"B'00000001" Node is currently reachable
18	(12)	SIGNED	2	NITANINT	Restart interval (minutes)
20	(14)	SIGNED	4	NITANTIM	Disconnect time (STCK)
24	(18)	CHARACTER	8	NITPASS	Password expected from node
32	(20)	CHARACTER	8	NITSPASS	Password sent to node
40	(28)	BITSTRING	1	NITCMPCT	COMPACTION TABLE ID
41	(29)	BITSTRING	1		Reserved
42	(2A)	SIGNED	2	NITREST	DEFAULT APPL RESISTANCE
44	(2C)	SIGNED	4	(0)	
44	(2C)	ADDRESS	4	NITNSACT	Ptr to related NSACT entry
48	(30)	ADDRESS	4	NITNXTSB	Ptr to next NIT in subnet
52	(34)	CHARACTER	8	NITSUBST	Subnet name
60	(3C)	CHARACTER	8	NITLMODE	Default VTAM logmode
68	(44)	SIGNED	2	NITLINE	Dedicated line number
70	(46)	SIGNED	2	NITNSRV	NJE Server number
70	(46)	X'48'	0	NITMINL	"*-NIT" Minimum (INIT) NIT elmt len
72	(48)	ADDRESS	4	NITNAT	Chain of related NATs
76	(4C)	CHARACTER	8	NITSECLB	SECLABEL of node (SDSF use)

Comment

-----  
 The following 3 fields are used by full path.  
 -----

End of Comment

84	(54)	ADDRESS	4	NITNITPN	Next NIT in full path chain
88	(58)	ADDRESS	4	NITNITPP	Prev NIT in full path chain
92	(5C)	ADDRESS	4	NITBNITP	Addr of best unexplored NPMNITP
96	(60)	ADDRESS	4	NITRESV3	Reserved for future use
96	(60)	X'64'	0	NITBLEN	"*-NIT" Length of the base NIT
100	(64)	BITSTRING	1	NITPATH1	First path information

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NITPSECT	INDIVIDUAL PATH FIELDS
0	(0)	ADDRESS	4	NITPLINE	Associated DCT or NIT

## \$NIT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	X'0'	0	NITL	"NITPLINE-NITPSECT,4" Offset for line
4	(4)	ADDRESS	4	NITPREST	PATH RESISTANCE
4	(4)	X'4'	0	NITR	"NITPREST-NITPSECT,4" Offset for resistance
4	(4)	BITSTRING	0	NITPMT	"X'7FFFFFFF" Indicate empty path
8	(8)	ADDRESS	4	NITPPNOD	Addr of prev NIT in path
12	(C)	BITSTRING	1	NITPFLAG	Flag byte
		1... ....		NITPFSTA	"B'10000000" Path is via static connect
		.1.. ....		NITPFNIT	"B'01000000" NITPLINE points to a NIT
		..1. ....		NITPFSUB	"B'00100000" Path is through a subnet
13	(D)	BITSTRING	1	NITPMEMB	Member number if NITPFSTA is set
13	(D)	X'D'	0	NITM	"NITPMEMB-NITPSECT,1" Offset for member
14	(E)	BITSTRING	1	NITPMEMP	Member with primary line
14	(E)	X'E'	0	NITMP	"NITPMEMP-NITPSECT,1" Offset for primary member
15	(F)	BITSTRING	1		Reserved for future use

Comment

Line and node IDs (indexes) shadowed from DCT or  
NIT pointed to by NITPLINE.

End of Comment

16	(10)	SIGNED	2	NITPLNID	DCT or NIT id
18	(12)	SIGNED	2	NITPNID	Intermediate node id (MDCTNODE from DCT)
20	(14)	SIGNED	4	(0)	Ensure fullword alignment
20	(14)	X'14'	0	NITPL	** -NITPSECT"
20	(14)	X'0'	0	NITP	"NITPSECT,NITPL" Path element
20	(14)	X'14'	0	NITPNEXT	***

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NITC	Checkpointed NIT
0	(0)	X'1'	0	NITCVRSN	"1" Current NITC version
0	(0)	CHARACTER	8	NITCNAME	Node name
8	(8)	CHARACTER	8	NITCSUB	SUBNET name
16	(10)	BITSTRING	4	NITCACAF	Mask of systems that have a path to this node
20	(14)	BITSTRING	1	NITCFLG1	Flags
		1... ....		NITCF1NP	"B'10000000" PATHMGR=NO
		.1.. ....		NITCF1EN	"B'01000000" ENDNODE=YES
		..1. ....		NITCF1PV	"B'00100000" PRIVATE=YES
		...1 ....		NITCF1DI	"B'00010000" DIRECT=YES
21	(15)	BITSTRING	3		Reserved
24	(18)	ADDRESS	4	(2)	Reserved
32	(20)	DBL WORD	8	(0)	Doubleword align
32	(20)	X'20'	0	NITCSIZ	** -NITC" Length of a NITC

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NITC0	Checkpointed NIT 0
0	(0)	SIGNED	4	NITC0SEQ	Changes sequence

**\$NIT Cross Reference**

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
NIT	0		NITPSECT	0	
NITANINT	12		NITR	4	4
NITANTIM	14		NITREST	2A	
NITBLEN	60	64	NITRESV3	60	
NITBNITP	5C		NITSECLB	4C	
NITC	0		NITSF	11	
NITCACAF	10		NITSFHJR	11	8
NITCFLG1	14		NITSFHSR	11	4
NITCF1DI	14	10	NITSFPEN	11	2
NITCF1EN	14	40	NITSPJR	11	40
NITCF1NP	14	80	NITSPJT	11	80
NITCF1PV	14	20	NITSPSR	11	10
NITCMPCT	28	0	NITSPST	11	20
NITCNAME	0		NITSFREA	11	1
NITCSIZ	20	20	NITSPASS	20	40404040
NITCSUB	8		NITSUBST	34	
NITCVRSN	0	1	NITVERS	0	5
NITC0	0		NIT2ADJ	F	8
NITC0SEQ	0		NIT2DIR	F	1
NITFLAG	E		NIT2ENDN	F	2
NITFLAGA	E	40	NIT2IRST	F	4
NITFLAGD	E	2	NIT2NOPM	F	80
NITFLAGE	E	80	NIT2OWN	F	10
NITFLAGJ	E	4	NIT2PRIV	F	40
NITFLAGR	E	8	NIT2TRAC	F	20
NITFLAGS	E	1	NIT3ANJE	10	40
NITFLAGX	E	20	NIT3HRDT	10	80
NITFLG2	F				
NITFLG3	10				
NITL	0	0			
NITLINE	44				
NITLMODE	3C				
NITLOGN	C				
NITM	D	D			
NITMINL	46	48			
NITMP	E	E			
NITNAT	48				
NITNITPN	54				
NITNITPP	58				
NITNODE	0	40404040			
NITNSACT	2C				
NITNSRV	46				
NITNUM	8	0			
NITNXTSB	30				
NITP	14	0			
NITPASS	18	40404040			
NITPATH1	64				
NITPFLAG	C	0			
NITPFNIT	C	40			
NITPFSTA	C	80			
NITPFSUB	C	20			
NITPL	14	14			
NITPLINE	0				
NITPLNID	10				
NITPMEMB	D				
NITPMEMP	E				
NITPMT	4	FFFFFF			
NITPNDID	12				
NITPNEXT	14	14			
NITPPNOD	8				
NITPREST	4				
NITPRINC	A	0			
NITPRLIM	B	F			

## \$NIT Cross Reference

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**\$NJTWORK Programming Interface information**

Programming Interface information

**\$NJTWORK**

End of Programming Interface information

## \$NJTWORK Heading Information

**Common Name:** JES2 Job Transmitter PCE Work Area  
**Macro ID:** \$NJTWORK  
**DSECT Name:** PCE (\$NJTWORK is part of the PCE DSECT)  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'PCE '  
 Offset: PCEEYE-PCE  
 Length: 4

**Storage Attributes:** Subpool: See \$PCE  
 Key: See \$PCE  
 Residency: See \$PCE

**Size:** See symbol JTWPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

**Created by:** See \$PCE  
**Pointed to by:** \$NJTPCE field of the \$HCT data area  
 \$OJTPCE field of the \$HCT data area  
 \$NRTPCE field of the \$HCT data area  
 DCTPCE field of the \$DCT data area  
 See \$PCE for other pointer fields that apply to all PCE types.

**Serialization:** Normal PCE dispatch serialization  
**Function:** The fields in this work area are used by a JES2 Job Transmitter Processor and by its support routines and exits. \$NJTWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$NJTWORK are actually part of the PCE DSECT, but only map PCEs with the value PCENJTID or PCENRTID in the second byte of field PCEID.

This PCE is device related. This processor type has a one-to-one relationship to devices. Field PCEDCT points to a Device Control Table (DCT) and field DCTPCE in that DCT points to this PCE.

## \$NJTWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
312	(138)	BITSTRING	8	JTWKEY (0)	JOB AND DATA SET KEYS
312	(138)	BITSTRING	4	JTWJBKEY	JOB IDENTIFIER KEY
316	(13C)	BITSTRING	4	JTWDSKEY	DATA SET KEY
320	(140)	DBL WORD	8	JTWEXTPL	\$EXTP PARAMETER LIST AREA
328	(148)	BITSTRING	1	JTWRSRCB	SRCB SAVED FOR ROUTE RECEIVER
329	(149)	BITSTRING	1	JTWRECTP	Saved spanned record type
330	(14A)	SIGNED	2	JTWHDRLN	SAVE AREA FOR JCT HEADER LENGTH
332	(14C)	SIGNED	4	JTWCOUNT	COUNT OF RECORDS TRANSMITTED
336	(150)	ADDRESS	4	JTWSBUF	SMF BUFFER POINTER
340	(154)	ADDRESS	4	JTWDSBUF	JCL/SYSIN data buffer
344	(158)	DBL WORD	8	JTWCWKAR (0)	Common Work area



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
JTWRECCT and JTWCURRC are for SDSF's use					
End of Comment					
344	(158)	X'1B4'	0	JTWRECCT	"(JTWRCOUN-JTW)+JTWCKAR" Total record count
344	(158)	X'1B8'	0	JTWCURRC	"(JWCUREC-JTW)+JTWCKAR" Current record count
808	(328)	DBL WORD	8		Reserved
816	(330)	ADDRESS	4	JTWPARAM	NODE TABLE ADDRESS
820	(334)	ADDRESS	4		CONTROL BLOCK ADDRESS
824	(338)	ADDRESS	4		CLASS LIST ADDRESS
828	(33C)	ADDRESS	4		ADDRESS OF JQE
832	(340)	ADDRESS	1		CLASS LIST LENGTH
833	(341)	ADDRESS	1		QUEUE TYPE SPECIFIED
834	(342)	ADDRESS	1		WORK SELECTION TYPE FLAG
835	(343)	ADDRESS	1		RESERVED FOR FUTURE USE
835	(343)	X'330'	0	JTWLST	"JTWPARAM,*-JTWPARAM" QGET PARAMETER LIST STORAGE
835	(343)	X'20C'	0	JTWPCEWS	"*-PCEWORK" LENGTH OF PCE WORK AREA

**\$NJTWORK Cross Reference**

Name	Hex Offset	Hex Value
JTWCOUNT	14C	
JTWCURRC	158	1B8
JTWCWKAR	158	
JTWDSBUF	154	
JTWDSKEY	13C	
JTWEXTPL	140	
JTWHDRLN	14A	
JTWJBKEY	138	
JTWKEY	138	
JTWLST	343	330
JTWPARAM	330	
JTWPCEWS	343	20C
JTWRECCT	158	1B4
JTWRECTP	149	
JTWRSRCB	148	
JTWSBUF	150	
PCE	0	



## \$NPIPARM Heading Information

**Common Name:** HASPNSNR Parameter list  
**Macro ID:** \$NPIPARM  
**DSECT Name:** NPISPARM  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** none  
**Storage Attributes:** Subpool: any  
 Key: 1  
 Residency: Private storage, Virtual storage below 2GB, real storage anywhere  
**Size:** See NPIPARML  
**Created by:** Callers of HASPNDCN service  
**Pointed to by:**  
**Serialization:** JES2 Main Task  
**Function:** Parameter list for HASPNDCN service in HASPNPM

## \$NPIPARM Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NPISPARM	
0	(0)	CHARACTER	8	NPIPLPAS	LINE PASSWORD
8	(8)	CHARACTER	8	NPIPNPAS	NODE PASSWORD
16	(10)	ADDRESS	4	NPINITA	Other node's NIT address
16	(10)	X'14'	0	NPIPARML	"*-NPISPARM"

## \$NPIPARM Map

## \$NRMWORK Heading Information

**Common Name:** Network Resource Monitor Work Area  
**Macro ID:** \$NRMWORK  
**DSECT Name:** PCE (\$NRMWORK is part of the PCE DSECT)  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'PCE '  
 Offset: PCEEYE-PCE  
 Length: 4

**Storage Attributes:** Subpool: See \$PCE  
 Key: See \$PCE  
 Residency: See \$PCE

**Size:** See symbol NRMPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

**Created by:** See \$PCE  
**Pointed to by:** The \$NRMPCE field of the \$HCT data area points to Network Resource Monitor PCE. See \$PCE for other pointer fields that apply to all PCE types.

**Serialization:** Normal PCE dispatch serialization  
**Function:** The fields in this work area are used by a JES2 Network Resource Monitor Processor and by its support routines and exits. \$NRMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$NRMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCENRMID in the second byte of field PCEID.

This PCE is not device related. Field PCEDCT is zero.

## \$NRMWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	
312	(138)	DBL WORD	8	NRMCTIME	Current time
320	(140)	DBL WORD	8	NRMWTIME	Next wakeup time
328	(148)	BITSTRING	1	NRMFLAG1	Flags
		1... ....		NRM1CONN	"B'10000000" Attempting auto-connect
		.1.. ....		NRM1PAWS	"B'01000000" Pause to let current request complete
		..1. ....		NRM1DBYP	"B'00100000" Device start scan bypassed
329	(149)	BITSTRING	1	NRMBMDSP	\$BLDMSG DISPER value
330	(14A)	SIGNED	2	NRMANINT	Temporary interval value
332	(14C)	BITSTRING	12	NRMTQE	NRM TQE
344	(158)	DBL WORD	8	NRMDWORK	Work area

Comment

Current control blocks

End of Comment

352	(160)	ADDRESS	4	NRMNIT	Current NIT address
356	(164)	ADDRESS	4	NRMSCK	Current SCK address
360	(168)	ADDRESS	4	NRMAPT	Current APT address
364	(16C)	ADDRESS	4	NRMLNDCT	Current Line DCT address
368	(170)	ADDRESS	4	NRMLGDCT	Current Logon DCT address

## \$NRMWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
372	(174)	ADDRESS	4	NRMNSDCT	Current NETSRV DCT address
372	(174)	X'160'	0	NRMCBS	"NRMNIT,*-NRMNIT" All control blocks
Comment					
SNASNET parms					
End of Comment					
376	(178)	SIGNED	4	NRMSSNET (0)	
376	(178)	SIGNED	4	NRMSSNLN	Line address
380	(17C)	SIGNED	4	NRMSSNM	APPL id address
384	(180)	SIGNED	4	NRMSSNMG	Returned message address
Comment					
TCPSNET parms					
End of Comment					
388	(184)	SIGNED	4	NRMTSNET (0)	
388	(184)	SIGNED	4	NRMTSNLN	Line address
392	(188)	SIGNED	4	NRMTSNM	SOCKET name address
396	(18C)	SIGNED	4	NRMTSNMG	Returned message address
Comment					
HASPNSNR parms					
End of Comment					
400	(190)	BITSTRING	20	NRMNSNRP	HASPNSNR pams
420	(1A4)	SIGNED	4	NRMBLDM (0)	Control block ID
424	(1A8)	BITSTRING	4		Console ID
428	(1AC)	ADDRESS	4		Address of the CART
432	(1B0)	ADDRESS	4		Pointer for JOBID
436	(1B4)	ADDRESS	4		Control block address
440	(1B8)	ADDRESS	4		Display routine address
444	(1BC)	ADDRESS	4	(6)	6 word work area
468	(1D4)	ADDRESS	4		Caller's R11 value
472	(1D8)	BITSTRING	2		ROUT code for Message
474	(1DA)	BITSTRING	2		Not used
476	(1DC)	CHARACTER	4		Message ID
480	(1E0)	CHARACTER	1		Separator character
481	(1E1)	ADDRESS	1		Flag byte 1
482	(1E2)	ADDRESS	1		'DISPER'
483	(1E3)	ADDRESS	1		Flag byte 2
484	(1E4)	ADDRESS	1		Flag byte 3
485	(1E5)	CHARACTER	8		Symbolic name of dest.
493	(1ED)	BITSTRING	15		Not used
508	(1FC)	ADDRESS	4	(0)	Ensure multiple of 4
508	(1FC)	ADDRESS	2	(0)	
508	(1FC)	CHARACTER	132	NRMMSG	Returned message area
640	(280)	DBL WORD	8	(0)	Ensure alignment
640	(280)	X'148'	0	NRMPCEWS	"*-PCEWORK"

**\$NRMWORK Cross Reference**

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
NRMANINT	14A	
NRMAPT	168	
NRMBLDM	1A4	C2D3C440
NRMBMDSP	149	
NRMCBS	174	160
NRMCTIME	138	
NRMDWORK	158	
NRMFLAG1	148	
NRMLGDCT	170	
NRMLNDCT	16C	
NRMMSG	1FC	
NRMNIT	160	
NRMNSDCT	174	
NRMNSNRP	190	
NRMPCEWS	280	148
NRMSCK	164	
NRMSSNET	178	
NRMSSNLN	178	
NRMSSNMG	180	
NRMSSNNM	17C	
NRMTQE	14C	
NRMTSNET	184	
NRMTSNLN	184	
NRMTSNMG	18C	
NRMTSNNM	188	
NRMWTIME	140	
NRM1CONN	148	80
NRM1DBYP	148	20
NRM1PAWS	148	40
PCE	0	

## \$NRMWORK Cross Reference



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**\$NSACT Programming Interface information**

Programming Interface information

**\$NSACT**

End of Programming Interface information

## \$NSACT Heading Information

**Common Name:** Network Subnet AnChor Table entry  
**Macro ID:** \$NSACT  
**DSECT Name:** NSACT  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** NSA  
 Offset: NSAID-NSACT  
 Length: L'NSAID  
**Storage Attributes:** Subpool: 0  
 Key: 1  
 Residency: Virtual storage can be anywhere in 31 bit storage. Real storage can be anywhere in 64 bit storage.  
**Size:** See NSALEN  
**Created by:** NSETSUBS routine in HASPNPM  
**Pointed to by:** PCTNSAAQ fields of the PCT data area  
 NSANEXT fields of the NSACT data area  
**Serialization:** Normal PCE dispatch serialization  
**Function:** The NSACT is a linked list of the subnets currently defined to the system and a pointer to a list of NITs describing the members of that subnet.

## \$NSACT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NSACT	
0	(0)	CHARACTER	4	NSAID	Eyecatcher
4	(4)	ADDRESS	1	NSAVER	NSA version field
4	(4)	X'1'	0	NSAVERN	"1" NSA version number
5	(5)	BITSTRING	3		Reserved for future use
8	(8)	CHARACTER	8	NSANAME	Subnet name
16	(10)	ADDRESS	4	NSANEXT	Next subnet pointer
20	(14)	ADDRESS	4	NSANIT	First NIT related to subnet
20	(14)	X'18'	0	NSALEN	"*-NSACT" Length of an NSACT

## \$NSCT Heading Information

**Common Name:** NJE Server Control Table  
**Macro ID:** \$NSCT  
**DSECT Name:** NSCT  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'NSCT'  
 Offset: NSCID-NSC  
 Length: 4  
**Storage Attributes:** Subpool: n/a  
 Key: 1  
 Residency: In a JES2 NJE Server address space  
**Size:** See NSCTLEN  
**Created by:** HASCNJAS  
**Pointed to by:** NSSNSCT field of the \$NSST data area  
 NSWNSCT field of the \$NSWE data area  
 TCTJSDTA field of the IAZYTCT data area  
**Serialization:**  
**Function:** Anchors the main parameters in a JES2 NJE Server address space

## \$NSCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NSCT	
0	(0)	CHARACTER	4	NSCID	NSCT eyecatcher
4	(4)	ADDRESS	1	NSCVER	NSCT version number
4	(4)	X'1'	0	NSCVERN	"1" NSCT version
5	(5)	BITSTRING	3		Reserved
8	(8)	ADDRESS	4	NSCSPCL	PCL address of server PCL
12	(C)	ADDRESS	4	NSCHCCT	HCCT address
16	(10)	ADDRESS	4	NSCTCT	IAZYTCT address
20	(14)	ADDRESS	4	NSCPALET	ALET for PCL data space
24	(18)	ADDRESS	4	NSCTALET	ALET for TBUF data space
28	(1C)	ADDRESS	4	NSCNALET	ALET for NIT data space
32	(20)	SIGNED	4	NSCTECB	ECB
36	(24)	BITSTRING	3	NSCDEVID	Device id of server
39	(27)	BITSTRING	1		Reserved
40	(28)	BITSTRING	4		Reserved
44	(2C)	ADDRESS	4	NSCNSSTH	Head of NSST chain
48	(30)	ADDRESS	4	NSCNSSTT	Tail of NSST chain
52	(34)	ADDRESS	4	NSCNSWEH	Head of subtask chain
56	(38)	ADDRESS	4	NSCNSWET	Tail of subtask chain
60	(3C)	ADDRESS	4	NSCGPWEH	Head of GP subtask chain
64	(40)	ADDRESS	4	NSCGPWET	Tail of GP subtask chain
68	(44)	ADDRESS	4	NSCGPQEH	Head of GP subtask work q
72	(48)	ADDRESS	4	NSCGPQET	Tail of GP subtask work q
76	(4C)	ADDRESS	4	NSCNCPE	Address of POST element
80	(50)	ADDRESS	2	NSCGPCNT (2)	Initial/current subtask counts for GP subtasks
84	(54)	ADDRESS	2	NSCRQCNT (2)	Initial/current subtask counts for request subtask
88	(58)	ADDRESS	4	NSCBUFQ	Buffers queued for garbage collection
92	(5C)	SIGNED	4	NSCGPECB	GP subtask restart ECB
96	(60)	ADDRESS	4	(6)	Reserved
120	(78)	DBL WORD	8	NSCDWORK	Doubleword work area
128	(80)	SIGNED	4	NSCTSAVE (18)	Save area for init routine and server main task
200	(C8)	BITSTRING	600	NSCTTRCA	TRCA
800	(320)	DBL WORD	8	NSCTWORK (0)	Working storage

# \$NSCT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
-----					
Parameter list for ESTAEX macro					
-----					
End of Comment					
800	(320)	SIGNED	4	(0)	
800	(320)	ADDRESS	1	NSCESTAE	FLAGS FOR ESTAEX
801	(321)	ADDRESS	1		SECOND FLAG BYTE
802	(322)	ADDRESS	1		THIRD FLAG BYTE
803	(323)	ADDRESS	1		VERSION NUMBER
804	(324)	ADDRESS	4		TOKEN VALUE AREA
808	(328)	ADDRESS	4		PARM. LIST ADDR. NOT SPECIFIED
812	(32C)	ADDRESS	4		ALET FOR PARM LIST
816	(330)	ADDRESS	4		EXIT ADDR NOT SPEC'D
816	(330)	X'14'	0	NSCESTLN	"*-NSCESTAE" Length of list form
Comment					
-----					
Parameter list for IDENTIFY macro					
-----					
End of Comment					
800	(320)	SIGNED	4	NSCIDENT (0)	IDENTIFY parm list (see IEAVID00 for details)
800	(320)	ADDRESS	4	NSCID_ADDR	Entry address
804	(324)	CHARACTER	8	NSCID_NAME	Entry name
812	(32C)	BITSTRING	1	NSCID_AMODE	AMODE indicator (X'02' --> 31 bit)
813	(32D)	BITSTRING	3		Reserved
816	(330)	SIGNED	4	NSCID_XTLNG	Length of the extent list
820	(334)	SIGNED	4	NSCID_XTCNT	Number of extents
824	(338)	SIGNED	4	NSCID_XTLN	Length of extent
828	(33C)	ADDRESS	4	NSCID_XTADR	Start of 1st extent
828	(33C)	X'10'	0	NSCID_XTSIZ	"*-NSCID_XTLNG" Length of extent list area
Comment					
-----					
Parameter list for STIMERM macro					
-----					
End of Comment					
800	(320)	ADDRESS	4	NSCDECBL (2)	ECB list
808	(328)	SIGNED	4	NSCDSTID	STIMERM ID=id-area
812	(32C)	SIGNED	4	NSCDTECB	STIMER ECB
Comment					
-----					
MACDATE = 08/19/88					
-----					
End of Comment					
816	(330)	BITSTRING	24	NSCDSTMS	REMOTE STIMERM SET PARM LIST
Comment					
-----					
MACDATE = 08/19/88					
-----					
End of Comment					
840	(348)	BITSTRING	16	NSCDSTMC	REMOTE STIMERM TEST/CANCEL PARM LIST

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
-----					
Parameter list for ENFREQ macro					
-----					
End of Comment					
800	(320)	ADDRESS	4	NSCEECBL (2)	ECB list
808	(328)	SIGNED	4	NSCETOKN	Token for ENFREQ DELETE
812	(32C)	SIGNED	4	NSCENFPT	ENFPTR equated to this
816	(330)	SIGNED	4	NSCENFRQ (0)	START OF ENF PARAMETER LIST
816	(330)	ADDRESS	2		LENGTH OF ENF PARAMETER LIST
818	(332)	ADDRESS	2		REQUESTED ENF ACTION
820	(334)	ADDRESS	4		EVENT CODE
824	(338)	ADDRESS	1		FLAG FIELD
825	(339)	ADDRESS	1		MASK FOR COMPARING QUALIFIERS
826	(33A)	ADDRESS	1		KEY FOR FREEPRM
827	(33B)	ADDRESS	1		SUBPOOL FOR FREEPRM
828	(33C)	ADDRESS	4		QUALIFIER
832	(340)	ADDRESS	4		EXIT ROUTINE ADDRESS
836	(344)	ADDRESS	4		Address of caller's parameters
840	(348)	ADDRESS	4		TOKEN
844	(34C)	ADDRESS	4		Length of caller's parameters
848	(350)	ADDRESS	2		VERSION OF PARM LIST
850	(352)	ADDRESS	2		RESERVED FIELD
852	(354)	ADDRESS	4		RETURN ADDRESS
856	(358)	CHARACTER	8		ESTABLISHER NAME
864	(360)	CHARACTER	8		LISTEN EXIT NAME
872	(368)	ADDRESS	4		LISTENER NUMBER (RETURNED)
876	(36C)	CHARACTER	4		SPECIAL EXIT RETURN CODE
880	(370)	BITSTRING	32		Bit-mapped qualifier
912	(390)	ADDRESS	1		Flag byte
913	(391)	BITSTRING	3		Reserved
916	(394)	ADDRESS	4		Reserved
916	(394)	X'68'	0	NSCENFLN	"*-NSCENFRQ"
Comment					
-----					
WTO parameter list					
-----					
End of Comment					
1056	(420)	SIGNED	4	NSCWTOPL (0)	
1056	(420)	ADDRESS	2		TEXT LENGTH
1058	(422)	BITSTRING	2		MCSFLAGS
1060	(424)	CHARACTER	53		
1185	(4A1)	ADDRESS	1		VERSION LEVEL
1186	(4A2)	BITSTRING	1		MISCELLANEOUS FLAGS
1187	(4A3)	ADDRESS	1		REPLY LENGTH
1188	(4A4)	ADDRESS	1		LENGTH OF WPX
1189	(4A5)	BITSTRING	2		EXTENDED MCS FLAGS
1191	(4A7)	ADDRESS	2		RESERVED
1193	(4A9)	ADDRESS	4		REPLY BUFFER ADDRESS
1197	(4AD)	ADDRESS	4		REPLY ECB ADDRESS
1201	(4B1)	ADDRESS	4		CONNECT ID
1205	(4B5)	BITSTRING	2		DESCRIPTOR CODES
1207	(4B7)	ADDRESS	2		RESERVED
1209	(4B9)	BITSTRING	16		
1225	(4C9)	BITSTRING	2		MESSAGE TYPE
1227	(4CB)	ADDRESS	2		MESSAGE'S PRIORITY
1229	(4CD)	CHARACTER	8		JOB ID
1237	(4D5)	CHARACTER	8		JOB NAME

## \$NSCT Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1245	(4DD)	CHARACTER	8		RETRIEVAL KEY
1253	(4E5)	ADDRESS	4		TOKEN FOR DOM
1257	(4E9)	ADDRESS	4		CONSOLE ID
1261	(4ED)	CHARACTER	8		SYSTEM NAME
1269	(4F5)	CHARACTER	8		CONSOLE NAME
1277	(4FD)	ADDRESS	4		REPLY CONSOLE NAME/ID ADDR
1281	(501)	ADDRESS	4		CART ADDRESS
1285	(505)	ADDRESS	4		WSPARM ADDRESS
1285	(505)	X'509'	0	NSCTLEN	"*-NSCT" Length of NSCT

## \$NSCT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
NSCBUFQ	58		NSCVERN	4	1
NSCDECB	320		NSCWTOPL	420	
NSCDEVID	24				
NSCDSTID	328				
NSCDSTMC	348	0			
NSCDSTMS	330	0			
NSCDTECB	32C				
NSCDWORK	78				
NSCEECSBL	320				
NSCENFLN	394	68			
NSCENFPT	32C				
NSCENFRQ	330				
NSCESTAE	320				
NSCESTLN	330	14			
NSCETOKN	328				
NSCGPCNT	50	0			
NSCGPECB	5C				
NSCGPQEH	44				
NSCGPQET	48				
NSCGPWEH	3C				
NSCGPWET	40				
NSCHCCT	C				
NSCID	0	D5E2C3E3			
NSCID_ADDR	320				
NSCID_AMODE	32C				
NSCID_NAME	324				
NSCID_XTADR	33C				
NSCID_XTCNT	334				
NSCID_XTLEN	338				
NSCID_XTLNG	330				
NSCID_XTSIZ	33C	10			
NSCIDENT	320				
NSCNALET	1C				
NSCNCPE	4C				
NSCNSSTH	2C				
NSCNSSTT	30				
NSCNSWEH	34				
NSCNSWET	38				
NSCPALET	14				
NSCRQCNT	54	0			
NSCSPCL	8				
NSCT	0				
NSCTALET	18				
NSCTCT	10				
NSCTECB	20				
NSCTLEN	505	509			
NSCTSAVE	80				
NSCTTRCA	C8				
NSCTWORK	320				
NSCVER	4				

---

**\$NSRWORK Programming Interface information**

Programming Interface information

**\$NSRWORK**

End of Programming Interface information

## \$NSRWORK Heading Information

**Common Name:** JES2 SYSOUT Receiver PCE Work Area  
**Macro ID:** \$NSRWORK  
**DSECT Name:** PCE (\$NSRWORK is part of the PCE DSECT)  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'PCE '  
 Offset: PCEEYE-PCE  
 Length: 4

**Storage Attributes:** Subpool: See \$PCE  
 Key: See \$PCE  
 Residency: See \$PCE

**Size:** See symbol SRWPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

**Created by:** See \$PCE

**Pointed to by:** The \$NSRPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the first Network SYSOUT Receiver PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type.  
 The \$OSRPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the first Offload SYSOUT Receiver PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type.  
 The DCTPCE field of the \$DCT data area (see "Function" below)

**Serialization:** Normal PCE dispatch serialization

**Function:** The fields in this work area are used by a JES2 Network SYSOUT Receiver or by an Offload SYSOUT Receiver Processor and by its support routines and exits. \$NSRWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$NSRWORK are actually part of the PCE DSECT, but only map PCEs with the value PCENSRID in the second byte of field PCEID.

This PCE is device related. This processor type has a one-to-one relationship to devices. Field PCEDCT points to a Device Control Table (DCT) and field DCTPCE in that DCT points to this PCE.

## \$NSRWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
312	(138)	X'138'	0	SRWINIT	*** START OF DATA TO BE ZEROED AT INITIALIZATION
312	(138)	BITSTRING	1	SRWSRCB	SRCB OF RECIEVED RECORD
313	(139)	SIGNED	1	SRWRETRY	IDENTIFIES RETRY POINT TO SET IF AN ABEND OCCURS
313	(139)	X'0'	0	SRWRSUSP	"0" RETRY TO SUSPEND RECEIVER
313	(139)	X'1'	0	SRWRCANC	"1" RETRY TO CANCEL CURRENT JOB
314	(13A)	SIGNED	1	SRWRETSV	PLACE TO SAVE CURRENT RETRY POINT INDICATOR



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
315	(13B)	BITSTRING	10		RESERVED
328	(148)	ADDRESS	4	SRWIOT1	1ST (ALLOCATION) IOT POINTER
332	(14C)	ADDRESS	4	SRWIOTC	CURRENT IOT POINTER
336	(150)	ADDRESS	4	SRWENIOT	END-OF-CURRENT-IOT POINTER
340	(154)	ADDRESS	4	SRWIOTCN	LAST NORMAL IOT ADDRESS
344	(158)	ADDRESS	4	SRWIOTSH	LAST SPIN IOT ADDRESS
348	(15C)	ADDRESS	4	SRWHMTR	MTRR OF BUFFER 1
352	(160)	ADDRESS	4	SRWHD SAV	SAVE AREA FOR BUFFER DISPL
356	(164)	ADDRESS	4	SRWSCRPT	SCR ENTRY POINTER
360	(168)	ADDRESS	4	SRWSCRST	SCR START ADDRESS
364	(16C)	ADDRESS	4	SRWENBUF	END-OF-BUFFER POINTER
368	(170)	ADDRESS	4	SRWENREC	END-OF-INPUT-RECORD POINTER
372	(174)	ADDRESS	4	SRWNXTRC	POINTER TO NEXT REC IN BUFFER
376	(178)	ADDRESS	4	SRWPREVR	POINTER TO RECORD HEADER OF CURRENT SPANNED RECORD SEGMENT
380	(17C)	ADDRESS	4	SRWGGST	ADDRESS OF GROUPING STRINGS OBJECT
384	(180)	SIGNED	4	(0)	ENSURE FULLWORD ALIGNMENT
384	(180)	CHARACTER	8	SRWRSBTL	SWBTU POINTER LIST ENTRY FOR SWBTUREQ RETRIEVE SERVICE
392	(188)	BITSTRING	8	SRWTABSV	MASTER TAB SAVE AREA
400	(190)	SIGNED	4	SRWTSAVE (6)	TEMPORARY SAVE AREA
424	(1A8)	BITSTRING	1	SRWTXTLN	TEXT LENGTH SAVE AREA
425	(1A9)	BITSTRING	1	SRWMVCLN	EXECUTE-MOVE LENGTH FOR TEXT
426	(1AA)	SIGNED	2	SRWSRTL	CUMULATIVE SEGMENT LENGTH
428	(1AC)	SIGNED	2	SRWSTXTL	TOTAL SPAN TEXT LENGTH
430	(1AE)	BITSTRING	2		Reserved for future use
432	(1B0)	SIGNED	8	SRWRECN	Basic data set record count
440	(1B8)	SIGNED	4	SRWCOUNT	COUNT OF RECORDS RECEIVED
444	(1BC)	ADDRESS	4	SRWSBUF	SMF BUFFER POINTER
448	(1C0)	SIGNED	4	SRWROUTE	Route cd for work selection
452	(1C4)	CHARACTER	8	SRWUSER	User ID for work selection
460	(1CC)	BITSTRING	1		Reserved for future use
460	(1CC)	X'95'	0	SRWINITL	** -SRWINIT" LENGTH FOR INITIAL CLEAR
464	(1D0)	DBL WORD	8	SRWCWKAR (0)	Common work area

Comment

SRWRECCT and SRWCURRC are for SDSF's use

End of Comment

464	(1D0)	X'22C'	0	SRWRECCT	"(SRWRCOUN-SRW)+SRWCWKAR" Total record count
464	(1D0)	X'230'	0	SRWCURRC	"(SRWCUREC-SRW)+SRWCWKAR" Current record count

Comment

INPUT AREA FOR RTAM RECORDS

End of Comment

1016	(3F8)	SIGNED	2		ALIGNMENT + SCAN TERMINATOR
1018	(3FA)	BITSTRING	274	SRWINPUT	Input Data Area

Comment

NORMAL (UNSPANNED) RECORD

-----  
First mapping of SRWINPUT  
-----

End of Comment

1018	(3FA)	BITSTRING	1	SRWLRECL	LOGICAL RECORD LENGTH
1019	(3FB)	BITSTRING	1	SRWCCTL	CARRIAGE CTL (OR TEXT IF NO CC)
1019	(3FB)	X'3FC'	0	SRWTEXT	**" TEXT
1019	(3FB)	X'2'	0	SRWLEN1	** -SRWINPUT"

## \$NSRWORK Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
-----					
Second mapping of SRWINPUT Spanned record (first part)					
-----					
End of Comment					
1018	(3FA)	BITSTRING	1	SRWSEGL	TEXT LENGTH, THIS SEGMENT
1019	(3FB)	SIGNED	2	SRWSRECL	LRECL FOR ENTIRE SPANNED RECORD
1021	(3FD)	BITSTRING	1	SRWSCCTL	CARRIAGE CTL (OR TEXT IF NO CC)
1021	(3FD)	X'3FE'	0	SRWSTXT1	*** START OF TEXT
1021	(3FD)	X'4'	0	SRWLEN2	**_SRWINPUT"
Comment					
-----					
Third mapping of SRWINPUT Spanned record (Second & subsequent parts)					
-----					
End of Comment					
1018	(3FA)	BITSTRING	1		TEXT LENGTH, THIS SEGMENT
1018	(3FA)	X'3FB'	0	SRWSTXT2	*** START OF TEXT
1018	(3FA)	X'1'	0	SRWLEN3	**_SRWINPUT"
Comment					
-----					
End of SRWINPUT mappings.					
-----					
End of Comment					
1020	(3FC)	ADDRESS	2	(0)	Ensure that SRWINPUT
1020	(3FC)	ADDRESS	2	(0)	is larger than each
1020	(3FC)	ADDRESS	2	(0)	of the individual
1292	(50C)	SIGNED	4	SRWRECNT	Sysout record count
1296	(510)	SIGNED	4	SRWPGCT	Sysout page count
1300	(514)	SIGNED	4	SRWBYTCT	Sysout byte count
1300	(514)	X'3E0'	0	SRWPCEWS	**_PCEWORK" LENGTH OF PCE WORK AREA

## \$NSRWORK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
PCE	0		SRWIOT1	148	
SRWBYTCT	514	0	SRWLEN1	3FB	2
SRWCCTL	3FB		SRWLEN2	3FD	4
SRWCOUNT	1B8		SRWLEN3	3FA	1
SRWCURRC	1D0	230	SRWLRECL	3FA	
SRWCWKAR	1D0		SRWMVCLN	1A9	
SRWENBUF	16C		SRWNXTRC	174	
SRWENIOT	150		SRWPCEWS	514	3E0
SRWENREC	170		SRWPGCT	510	0
SRWGGST	17C		SRWPREVR	178	
SRWHDSAV	160		SRWRCANC	139	1
SRWHMTTR	15C		SRWRECCT	1D0	22C
SRWINIT	138	138	SRWRECN	1B0	
SRWINITL	1CC	95	SRWRECNT	50C	0
SRWINPUT	3FA		SRWRETRY	139	
SRWIOTC	14C		SRWRETSV	13A	
SRWIOTCN	154		SRWROUTE	1C0	
SRWIOTSH	158		SRWRSBTL	180	

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>
SRWRSUSP	139	0
SRWSBUF	1BC	
SRWSCCTL	3FD	
SRWSCRPT	164	
SRWSCRST	168	
SRWSEGL	3FA	
SRWSRCB	138	
SRWSRECL	3FB	
SRWSRTL	1AA	
SRWSTXTL	1AC	
SRWSTXT1	3FD	3FE
SRWSTXT2	3FA	3FB
SRWTABSV	188	
SRWTEXT	3FB	3FC
SRWTSAVE	190	
SRWTXTLN	1A8	
SRWUSER	1C4	



## \$NSST Heading Information

**Common Name:** NJE Server Subtask Table  
**Macro ID:** \$NSST  
**DSECT Name:** NSST  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'NSST'  
 Offset: NSSID-NSS  
 Length: 4

**Storage Attributes:** Subpool: 0  
 Key: 1  
 Residency: In a JES2 NJE Server address sSpace

**Size:** See NSSTLEN  
**Created by:** HASCNJEX (Subtask initialization routine from IAZNJTCP)  
**Pointed to by:** NSCNSSTH field of the \$NSCT data area  
 NSCNSSTT field of the \$NSCT data area  
 NSSNEXT field of the \$NSST data area  
 NSSPREV field of the \$NSST data area  
 TBFLNSST field of the \$TBUF data area  
 TSCTJSDT field of the IAZYTSCT data area

**Serialization:**  
**Function:** Contains the relevant data for a single NJE connection in the NETSRV data space.

## \$NSST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NSST	
0	(0)	CHARACTER	4	NSSID	NSST eyecatcher
4	(4)	ADDRESS	1	NSSVER	NSST version number
4	(4)	X'1'	0	NSSVERN	"1" NSST version
5	(5)	BITSTRING	3		Reserved
8	(8)	ADDRESS	4	NSSLPCL	PCL address of line PCL
12	(C)	ADDRESS	4	NSSTTSCT	IAZYTSTCT address
16	(10)	ADDRESS	4	NSSNSCT	NSCT address
20	(14)	ADDRESS	4	NSSNEXT	Next NSS chain pointer
24	(18)	ADDRESS	4	NSSPREV	Prev NSS chain pointer
28	(1C)	BITSTRING	3	NSSDEVID	Device id of line
31	(1F)	BITSTRING	1	NSSFLAG1	Flags
		1... ....		NSS1DEL	"B'10000000" NSST should be freed
		.1.. ....		NSS1WJ2	"B'01000000" Subdevices waiting for JES2 to come back
		..1. ....		NSS1NRTY	"B'00100000" Non-retryable error
32	(20)	ADDRESS	4	NSSLTQH	Line request TBUF q head
36	(24)	ADDRESS	4	NSSLTQT	Line request TBUF q tail
40	(28)	SIGNED	4	NSSLTECB	ECB for line request response
44	(2C)	BITSTRING	16	NSSTTOK	Subtask TCB token
60	(3C)	SIGNED	4	NSSTSAVE (18)	Save area for init routine and server main task
Comment					
Pointers to work areas, by stream					
End of Comment					
132	(84)	ADDRESS	4	NSSTJRWA (7)	Pointers to up to 7 JRWs
160	(A0)	ADDRESS	4	NSSTJTWA (7)	Pointers to up to 7 JTWs
188	(BC)	ADDRESS	4	NSSTSRWA (7)	Pointers to up to 7 SRWs
216	(D8)	ADDRESS	4	NSSTSTWA (7)	Pointers to up to 7 STWs

# \$NSST Map

## Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
244	(F4)	ADDRESS	4	NSSTDVWA	Pointer to all work areas
248	(F8)	SIGNED	4	NSSTDVWL	Length of all work areas
252	(FC)	ADDRESS	4	NSSTACWA	Addr of current NJEWORK
256	(100)	SIGNED	2	NSSTTRSQ	\$NJETRC sequence
258	(102)	SIGNED	2		Reserved
260	(104)	ADDRESS	4	NSSTAREA	Address of rolling trace area for (non-subdevice related)
264	(108)	SIGNED	4	NSSTLOCK	NSST Lock word
268	(10C)	BITSTRING	604	NSSTTRCA	TRCA
872	(368)	DBL WORD	8	NSSTWORK (0)	Working storage

Comment

-----  
Parameter list for ESTAEX macro  
-----

End of Comment

872	(368)	SIGNED	4	(0)	
872	(368)	ADDRESS	1	NSSESTAE	FLAGS FOR ESTAEX
873	(369)	ADDRESS	1		SECOND FLAG BYTE
874	(36A)	ADDRESS	1		THIRD FLAG BYTE
875	(36B)	ADDRESS	1		VERSION NUMBER
876	(36C)	ADDRESS	4		TOKEN VALUE AREA
880	(370)	ADDRESS	4		PARAM. LIST ADDR. NOT SPECIFIED
884	(374)	ADDRESS	4		ALET FOR PARAM LIST
888	(378)	ADDRESS	4		EXIT ADDR NOT SPECIFIED
888	(378)	X'14'	0	NSSESTLN	"*-NSSESTAE" Length of list form

Comment

-----  
Parameter list for STIMERM macro  
-----

End of Comment

872	(368)	ADDRESS	4	NSSDECBL (2)	ECB list
880	(370)	SIGNED	4	NSSDSTID	STIMERM ID=id-area
884	(374)	SIGNED	4	NSSDTECB	STIMER ECB

Comment

MACDATE = 08/19/88

End of Comment

888	(378)	BITSTRING	24	NSSDSTMS	REMOTE STIMERM SET PARAM LIST
-----	-------	-----------	----	----------	-------------------------------

Comment

MACDATE = 08/19/88

End of Comment

912	(390)	BITSTRING	16	NSSDSTMC	REMOTE STIMERM TEST/CANCEL PARAM LIST
-----	-------	-----------	----	----------	---------------------------------------

Comment

-----  
Parameter list for TCBTOKEN macro  
-----

End of Comment

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MACDATE = 04/03/89					
End of Comment					
872	(368)	SIGNED	4	NSSTCBTK (0)	
872	(368)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
872	(368)	BITSTRING	8		
880	(370)	SIGNED	4		
884	(374)	ADDRESS	4		
888	(378)	ADDRESS	4		ASCB ADDRESS (INPUT)
892	(37C)	SIGNED	4	(0)	FLAGS (INPUT)
892	(37C)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
893	(37D)	SIGNED	3		RESERVED
1128	(468)	X'468'	0	NSSTLEN	**"-NSST" Length of NSST

**\$NSST Cross Reference**

Name	Hex Offset	Hex Value
NSSDECBL	368	
NSSDEVID	1C	
NSSDSTID	370	
NSSDSTMC	390	0
NSSDSTMS	378	0
NSSDTECB	374	
NSSESTAE	368	
NSSESTLN	378	14
NSSFLAG1	1F	
NSSID	0	D5E2E2E3
NSSLPCL	8	
NSSLTECB	28	
NSSLTQH	20	
NSSLTQT	24	
NSSNEXT	14	
NSSNSCT	10	
NSSPREV	18	
NSST	0	
NSSTACWA	FC	
NSSTAREA	104	
NSSTCBTK	368	
NSSTDVWA	F4	
NSSTDVWL	F8	
NSSTJRWA	84	
NSSTJTWA	A0	
NSSTLEN	468	468
NSSTLOCK	108	
NSSTSAVE	3C	
NSSTSCT	C	
NSSTSRWA	BC	
NSSTSTWA	D8	
NSSTTRCA	10C	
NSSTTRSQ	100	
NSSTTOK	2C	
NSSTWORK	368	
NSSVER	4	
NSSVERN	4	1
NSS1DEL	1F	80
NSS1NRTY	1F	20
NSS1WJ2	1F	40





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**\$NSTWORK Programming Interface information**

Programming Interface information

**\$NSTWORK**

End of Programming Interface information

## \$NSTWORK Heading Information

**Common Name:** JES2 Sysout Transmitter PCE Work Area  
**Macro ID:** \$NSTWORK  
**DSECT Name:** PCE (\$NSTWORK is part of the PCE DSECT)  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'PCE '  
 Offset: PCEEYE-PCE  
 Length: 4

**Storage Attributes:** Subpool: See \$PCE  
 Key: See \$PCE  
 Residency: See \$PCE

**Size:** See symbol STWPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.

**Created by:** See \$PCE  
**Pointed to by:** The \$NSTPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the first network sysout transmitter PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. The \$OSTPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the first offload sysout transmitter PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See \$PCE for other pointer fields that apply to all PCE types.

**Serialization:** Normal PCE dispatch serialization

**Function:** The fields in this work area are used by the JES2 Network Sysout Transmitter and the Offload Sysout Transmitter processor and by its support routines and exits. \$NSTWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$NSTWORK are actually part of the PCE DSECT, but only map PCEs with the value PCENSTID in the second byte of field PCEID.

This PCE is device related. This processor type has a one-to-one relationship to devices. Field PCEDCT points to a Device Control Table (DCT) and field DCTPCE in that DCT points to this PCE.

## \$NSTWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP NETWORK SYSOUT TRANSMITTER
312	(138)	X'138'	0	STWINIT	*** START OF DATA TO BE ZEROED AT INITIALIZATION
312	(138)	SIGNED	2	STWNODE	DESTINATION NODE FOR CURRNT JOB
314	(13A)	BITSTRING	1	STWDCTF	FLAGS TO BE MOVED TO DCT
315	(13B)	BITSTRING	1	STWJQEF	FLAGS TO BE MOVED TO JQE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
316	(13C)	BITSTRING 1... .... .1.. ....	1	STWFLAG2 STW\$HCQ STW\$NODH	SPOOL OFFLOAD FLAG BYTE "B'10000000" DS FOUND ON HARDCPY QUEUE "B'01000000" This dataset header not to be sent (exit from multi-dest mode)
317	(13D)	BITSTRING 1... .... .1.. .... ...1. ....	1	STWFLAG4 STW4JHS  STW4SMRC STW4HJOS	General use flag byte "B'10000000" Network job header needs to be sent for this data set "B'01000000" Abend in \$SWBMERG cleanup call "B'00100000" Hold all the JOEs on the transmitter chain
318	(13E)	BITSTRING	3		Reserved
324	(144)	ADDRESS	4	STWSPINJ	CURRENT SPIN JOE ADDRESS
328	(148)	ADDRESS	4	STWDSBUF	DATA SET BUFFER ADDRESS
332	(14C)	ADDRESS	4	STWENBUF	END-OF-BUFFER ADDR FOR COMPARISON
336	(150)	ADDRESS	4	STWHDBUF	DATA SET HEADER BUFFER ADDRESS
340	(154)	ADDRESS	4	STWHDTR	MTTR OF BLOCK IN STWHDBUF

Comment

Fields STWNSWB through STWIPSWL are used in handling the SWBIT buffer(s) containing any SWBTUs from the DSH data stream section.

End of Comment

344	(158)	SIGNED	2	STWPSWBL	Total size of PDDB SWBTUs
346	(15A)	SIGNED	2	STWJSWBL	Total size of JOE SWBTUs
348	(15C)	SIGNED	2	STWPLSIZ	Size of SWBTU merge or splice pointer list entry
350	(15E)	SIGNED	2	STWMRGLN	Length of merged SWBTU storage area
352	(160)	ADDRESS	4	STWSWBUF	PDDB SWBIT buffer chain
356	(164)	ADDRESS	4	STWJSWBF	JOE SWBIT buffer chain
360	(168)	ADDRESS	4	STWSWMRG	Address of \$SWBMERG parameter list
364	(16C)	ADDRESS	4	STWMRGTU	Address of merged SWBTU storage area
368	(170)	ADDRESS	4	STWSPLIC	Addr of spliced SWBTU
372	(174)	ADDRESS	4	STWIPSWB	Address of merged SWBTU (after IPADDR processing)
376	(178)	SIGNED	2	STWSPLIL	Length of the spliced SWBTU
378	(17A)	SIGNED	2	STWIPLN	Length of the IP SWB area
380	(17C)	SIGNED	2	STWIPSWL	Length of the merged SWBTU (after IPADDR processing)
382	(17E)	SIGNED	2		Reserved
384	(180)	SIGNED	4	STWSCRST	START ADDRESS OF SCR RECORD
388	(184)	SIGNED	4	STWMTTRL	MTTR FOR CURRENT BUFFER
392	(188)	SIGNED	4	STWMTTRC	MTTR OF CURRENT PDDB
396	(18C)	SIGNED	4	STWJQEO	JOB QUEUE ELEMENT OFFSET
400	(190)	BITSTRING	1	STWRECTP	SAVED SPANNED RECORD TYPE
401	(191)	BITSTRING	1	STWPFGL1	PDDBFLG1 OF LAST DS SENT
402	(192)	BITSTRING	2		RESERVED
404	(194)	SIGNED	4	STWNTR	THIS JOBS NEWS TRACK ADDR
408	(198)	SIGNED	2	STWHDRLN	SAVE AREA FOR JCT HEADER LENGTH
410	(19A)	BITSTRING	2		RESERVED
412	(19C)	SIGNED	4	STWCOUNT	COUNT OF LOGICAL TP RECORDS
416	(1A0)	ADDRESS	4	STWSBUF	SMF BUFFER POINTER
424	(1A8)	DBL WORD	8	STWEXTPL	EXTP PARAMETER LIST AREA
432	(1B0)	DBL WORD	8	STWSTIME	SYSOUT TRANSMISSION START TIME
432	(1B0)	X'80'	0	STWINITL	"*-STWINIT" LENGTH TO CLEAR AT INITIALIZATION
440	(1B8)	DBL WORD	8	STWCWKAR (0)	Transmitter common wrk area

Comment

STWRECCT and STWCURRC are for SDSF's use

End of Comment

440	(1B8)	X'214'	0	STWRECCT	"(STWRCOUN-STW)+STWCWKAR" Total record count
440	(1B8)	X'218'	0	STWCURRC	"(STWCUREC-STW)+STWCWKAR" Current record count
960	(3C0)	DBL WORD	8	(0)	

## \$NSTWORK Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
960	(3C0)	X'3C0'	0	STWVAR	*** START OF VARIABLE (OVERLAID) PORTION OF PCE WORK AREA
Comment					
STWRIDW AND STWORK SHOULD NEVER BE SEPARATED BECAUSE THE TWO FIELDS ARE USED IN HASPSNA AS A CONSECUTIVE FIELD					
End of Comment					
960	(3C0)	BITSTRING	8	STWRIDW	EXTP PUT RID AREA
968	(3C8)	CHARACTER	260	STWORK	WORK AREA FOR MESSAGES
968	(3C8)	X'3C8'	0	STWREC	"STWORK" START OF TEXT CONSTRUCTION AREA FOR CONTROL RECORDS
968	(3C8)	X'394'	0	STWPCEWS	**_PCEWORK" LENGTH OF PCE WORK AREA

## \$NSTWORK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
PCE	0		STWSWMRG	168	
STW\$HCQ	13C	80	STWVAR	3C0	3C0
STW\$NODH	13C	40	STWORK	3C8	
STWCOUNT	19C		STW4HJOS	13D	20
STWCURRC	1B8	218	STW4JHS	13D	80
STWCWKAR	1B8		STW4SMRC	13D	40
STWDCTF	13A				
STWDSBUF	148				
STWENBUF	14C				
STWEXTPL	1A8				
STWFLAG2	13C				
STWFLAG4	13D				
STWHDBUF	150				
STWHDRLN	198				
STWHDTTR	154				
STWINIT	138	138			
STWINITL	1B0	80			
STWIPLN	17A				
STWIPSWB	174				
STWIPSWL	17C				
STWJQEF	13B				
STWJQEO	18C				
STWJSWBF	164				
STWJSWBL	15A				
STWMRGLN	15E				
STWMRGTU	16C				
STWMTTRC	188				
STWMTTRL	184				
STWNODE	138				
STWNTTR	194				
STWPCEWS	3C8	394			
STWPFLG1	191				
STWPLSIZ	15C				
STWPSWBL	158				
STWREC	3C8	3C8			
STWRECCT	1B8	214			
STWRECTP	190				
STWRIDW	3C0				
STWSBUF	1A0				
STWSCRST	180				
STWSPINJ	144				
STWSPLIC	170				
STWSPLIL	178				
STWSTIME	1B0				
STWSWBUF	160				

## \$NSWE Heading Information

**Common Name:** NJE Server Subtask Work Element  
**Macro ID:** \$NSWE  
**DSECT Name:** NSWE  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'NSWE'  
 Offset: 0  
 Length: 4  
**Storage Attributes:** Subpool: 0  
 Key: 0  
 Residency: Private storage, Virtual storage below 2GB, real storage anywhere  
**Size:** See NSWLEN  
**Created by:** HASCNJAS  
**Pointed to by:** NSCNSWEH field of the \$NSCT data area  
 NSCNSWET field of the \$NSCT data area  
 NSCGPWEH field of the \$NSCT data area  
 NSCGPWET field of the \$NSCT data area  
 NSWNEXT field of the \$NSWE data area  
 NSWPREV field of the \$NSWE data area  
 NSWGPNXT field of the \$NSWE data area  
 NSWGPPRV field of the \$NSWE data area  
**Serialization:** Used only by the subtask represented by the NSWE.  
**Function:** Represents a JES2-attached subtask in the server address space

## \$NSWE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NSWE	
0	(0)	CHARACTER	4	NSWEYE (0)	
0	(0)	BITSTRING	1	(0)	\$SAVE area (see \$PSV)
168	(A8)	CHARACTER	8	NSWNAME	Subtask name
176	(B0)	SIGNED	1	NSWNUM	Subtask number
177	(B1)	BITSTRING	3		Reserved
180	(B4)	ADDRESS	4	NSWNEXT	Previous element on chain
184	(B8)	ADDRESS	4	NSWPREV	Next element on chain
188	(BC)	ADDRESS	4	NSWETCB	TCB address
192	(C0)	ADDRESS	4	NSWRECA	Address of recovery routine
196	(C4)	CHARACTER	8	NSWEPNAM	Entry point name (ATTACHX)
204	(CC)	SIGNED	4	NSWDTECB	DETACH ECB
208	(D0)	SIGNED	4	NSWQUECB	QUIESCE ECB
212	(D4)	ADDRESS	4	NSWNSCT	NSCT address
216	(D8)	ADDRESS	4	NSWCNTAD	Addr of subtask count fields in NSCT
220	(DC)	ADDRESS	4	NSWNSSLK	NSST address if a NSST lock is held SHARED by task
224	(E0)		16	NSWTTOK	Associated TCB token
240	(F0)	DBL WORD	8	NSWDWORK	DOUBLEWORD WORK AREA
248	(F8)	DBL WORD	8	NSWDWRK2	DOUBLEWORD WORK AREA 2
248	(F8)	X'F0'	0	NSWWRK16	"NSWDWORK,16,C'L' 16-byte work area @Z07LTCP"
256	(100)	SIGNED	4	(0)	
256	(100)	ADDRESS	1	NSWESTAE	FLAGS FOR ESTAEX
257	(101)	ADDRESS	1		SECOND FLAG BYTE
258	(102)	ADDRESS	1		THIRD FLAG BYTE
259	(103)	ADDRESS	1		VERSION NUMBER
260	(104)	ADDRESS	4		TOKEN VALUE AREA
264	(108)	ADDRESS	4		PARAM. LIST ADDR. NOT SPECIFIED
268	(10C)	ADDRESS	4		ALET FOR PARAM LIST

# \$NSWE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
272	(110)	ADDRESS	4		EXIT ADDR NOT SPEC'D
272	(110)	X'14'	0	NSWESTAL	"*-NSWESTAE" Length of ESTAEX list form
276	(114)	SIGNED	2	NSWERRCT	Error count
278	(116)	SIGNED	2	NSWATTCT	Attach count
280	(118)	SIGNED	4	NSWERRTM	Time of last error
Comment					
MACDATE = 04/03/89					
End of Comment					
284	(11C)	SIGNED	4	NSWTCBTK (0)	
284	(11C)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
284	(11C)	BITSTRING	8		
292	(124)	SIGNED	4		
296	(128)	ADDRESS	4		
300	(12C)	ADDRESS	4		ASCB ADDRESS (INPUT)
304	(130)	SIGNED	4	(0)	FLAGS (INPUT)
304	(130)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
305	(131)	SIGNED	3		RESERVED
305	(131)	X'18'	0	NSWTCBTL	"*-NSWTCBTK" Length of TCBTOKEN list frm
312	(138)	DBL WORD	8	NSWTRCA (0)	TRCA
Comment					
Map ATTACHX work area over TRCA SDUMP area					
End of Comment					
Comment					
MACDATE 11/11/91					
End of Comment					
352	(160)	SIGNED	4	NSWATTSL (0)	
352	(160)	ADDRESS	4		DE OR EPLOC ADDRESS
356	(164)	ADDRESS	4		DCB ADDRESS
360	(168)	ADDRESS	4		NEW FORMAT + ECB ADDR
364	(16C)	ADDRESS	4		GSPL OR GSPV
368	(170)	ADDRESS	4		SHSPV OR SHSPL
372	(174)	ADDRESS	4		EXIT ROUTINE ADDRESS
376	(178)	ADDRESS	2		DPMOD VALUE
378	(17A)	ADDRESS	1		LPMOD VALUE
379	(17B)	ADDRESS	1		STATUS BYTE
380	(17C)	ADDRESS	4	(2)	EP NAME SPACE
388	(184)	ADDRESS	4		ADDRESS OF JSCB
392	(188)	ADDRESS	4		(E)STAI PARM LIST
396	(18C)	ADDRESS	4		EXIT ADDRESS
400	(190)	ADDRESS	4		TASKLIB
404	(194)	ADDRESS	1		FLAG BYTE
405	(195)	ADDRESS	1		TASK ID
406	(196)	ADDRESS	2		PARM LIST LENGTH
408	(198)	ADDRESS	4		SUBPOOL LIST ADDRESS/VALUE
412	(19C)	ADDRESS	1		SET FLAGS
413	(19D)	ADDRESS	1		SET UP FORMAT NUMBER
414	(19E)	ADDRESS	1		SET FLAGS
415	(19F)	ADDRESS	1		RESERVED BYTE
416	(1A0)	ADDRESS	4		EPLOC/DE/EP ALET
420	(1A4)	ADDRESS	4		DCB ALET
424	(1A8)	ADDRESS	4		ECB ALET
428	(1AC)	ADDRESS	4		GSPL ALET
432	(1B0)	ADDRESS	4		SHSPL ALET
436	(1B4)	ADDRESS	4		JSCB ALET
440	(1B8)	ADDRESS	4		(E)STAI PARAMETER ALET

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
444	(1BC)	ADDRESS	4		TASKLIB ALET
448	(1C0)	ADDRESS	4		NSHSPL ALET
448	(1C0)	X'64'	0	NSWATTLN	**-NSWATTSL" Length of list form
912	(390)	DBL WORD	8	NSWORG (0)	

Comment

-----  
 Work area for general purpose subtasks  
 -----

End of Comment

912	(390)	ADDRESS	4	NSWGPNXT	Next available GP subtask
916	(394)	ADDRESS	4	NSWGPPRV	Previous subtask
920	(398)	ADDRESS	4	NSWSQD	SQD address
924	(39C)	ADDRESS	4	NSWGPK	Current work queue element
928	(3A0)	SIGNED	4	NSWGPECB	ECB for GP subtask
932	(3A4)	ADDRESS	4	NSWGECBL (2)	ECB list
940	(3AC)	BITSTRING	1	NSWGFLG1	Flags
		1... ....		NSWGF1CR	"B'10000000" Subtask was CALLRTM'ed
		.1... ....		NSWGF1RE	"B'01000000" Subtask in recovery

Comment

-----  
 Work area for request manager subtask  
 -----

End of Comment

912	(390)	ADDRESS	4	NSWTCT	TSCT address
916	(394)	ADDRESS	4	NSWTCT	TCT address
920	(398)	ADDRESS	4	NSWNSST	NSST address
924	(39C)	ADDRESS	4	NSWTBUF	TBUF address
928	(3A0)	SIGNED	4	NSWSTECB	STIMERM ECB
932	(3A4)	SIGNED	4	NSWDSTID	STIMERM ID=id-area
936	(3A8)	ADDRESS	4	NSWRECBL (3)	ECB list
948	(3B4)	SIGNED	4	NSWENQPM (3)	Parameter list for NMS/NRQ queueing service

Comment

MACDATE = 08/19/88

End of Comment

960	(3C0)	BITSTRING	24	NSWSTMST	REMOTE STIMERM SET PARM LIST
960	(3C0)	X'18'	0	NSWSTMSL	**-NSWSTMST" List form length

Comment

MACDATE = 08/19/88

End of Comment

984	(3D8)	BITSTRING	16	NSWSTMCM	REMOTE STIMERM TEST/CANCEL PARM LIST
984	(3D8)	X'10'	0	NSWSTMCL	**-NSWSTMCM" List form length
1000	(3E8)	DBL WORD	8	(0)	
1000	(3E8)	X'3E8'	0	NSWELEN	**-NSWE" Length of NSWE

## \$NSWE Cross Reference

### \$NSWE Cross Reference

Name	Hex Offset	Hex Value
NSWATTCT	116	
NSWATTLN	1C0	64
NSWATTSL	160	
NSWCNTAD	D8	
NSWDSTID	3A4	
NSWDTECB	CC	
NSWDWORK	F0	
NSWDWRK2	F8	
NSWE	0	
NSWELEN	3E8	3E8
NSWENQPM	3B4	
NSWEPNAM	C4	
NSWERRCT	114	
NSWERRTM	118	
NSWESTAE	100	
NSWESTAL	110	14
NSWETCB	BC	
NSWEYE	0	
NSWGECBL	3A4	
NSWGFLG1	3AC	
NSWGF1CR	3AC	80
NSWGF1RE	3AC	40
NSWGPECB	3A0	
NSWGPNXT	390	
NSWGPPRV	394	
NSWGPQ	39C	
NSWNAME	A8	
NSWNEXT	B4	
NSWNSCT	D4	
NSWNSSLK	DC	
NSWNSST	398	
NSWNUM	B0	
NSWORG	390	
NSWPREV	B8	
NSWQUECB	D0	
NSWRECA	C0	
NSWRECBL	3A8	
NSWSQD	398	
NSWSTECB	3A0	
NSWSTMCL	3D8	10
NSWSTM CN	3D8	0
NSWSTMSL	3C0	18
NSWSTMST	3C0	0
NSWTBUF	39C	
NSWTCBTK	11C	
NSWTCBTL	131	18
NSWTCT	394	
NSWTRCA	138	
NSWTSC T	390	
NSWTTOK	E0	
NSWWRK16	F8	F0



## \$NTRDATA Heading Information

**Common Name:** NJE Server Trace data area  
**Macro ID:** \$NTRDATA  
**DSECT Name:** NTR  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** none  
**Storage Attributes:** Subpool: 0  
 Key: 0  
 Residency: Private storage, Virtual storage below 2GB, real storage anywhere  
**Size:** See NTRBLEN  
**Created by:** \$JES2 TRACE facility  
**Pointed to by:** Maps data starting at TTEDATA in a TTE entry  
**Serialization:** \$TRACE  
**Function:** Maps the \$TRACE data (starting at TTEDATA) in a JES2 trace buffer. Used for trace ids 34, 35, 36, 37, and 38.

## \$NTRDATA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NTR	, NJE Trace data
0	(0)	BITSTRING	3	NTRSDVID	Server device id
3	(3)	BITSTRING	3	NTRLDVID	Line device id
6	(6)	BITSTRING	1	NTRFLOW	Flow direction of record
		1... ....		NTRFFJ2M	"B'10000000" From: JES2 main addrspc
		.1.. ....		NTRFFJ2N	"B'01000000" From: JES2 netsrv addrspc
		..1. ....		NTRFFIAZ	"B'00100000" From: Common netsrv code
		...1 ....		NTRFFTCP	"B'00010000" From: TCP/IP
		.... 1...		NTRFTJ2M	"B'00001000" To: JES2 main addrspc
		.... .1..		NTRFTJ2N	"B'00000100" To: JES2 netsrv addrspc
		.... ..1.		NTRFTIAZ	"B'00000010" To: Common netsrv code
		.... ...1		NTRFTTCP	"B'00000001" To: TCP/IP

Comment

-----  
 NTRTYPE contains either one of the types below, or either the RCB or SRCB of the record indicating the type of record. The corresponding hex values for each record recognized are as follows:  
 X'00' - EOT (SRCB of EOT record, from RIDXEOT)  
 X'01' - NRQ (NTRTNRQ, from TBFTNRQ)  
 X'02' - NMS (NTRTNMS, from TBFTNMS)  
 X'03' - LREQ (NRTLREQ, from TBFTLREQ)  
 X'04' - JOB (NTRTJOB, from TBFTJOB)  
 X'05' - CONN (NTRTCONN, from TBFTCONN)  
 X'40' - Transmitter cancel (SRCB of TC, from RIDXTC)  
 X'90' - Request to init (RCB of RI, from RIDALOCs)  
 X'B0' - Receiver cancel (RCB of RC, from RIDPDRC)  
 X'C0' - Job header (SRCB of JH, from SRCBJH)  
 X'C1' - ACK EOT (RCB of ACK EOT from RIDAKEOT, plus one to differentiate from job header)  
 X'D0' - Job trailer (SRCB of JT, from SRCBJT)  
 X'E0' - Dataset header (SRCB of DSH, from SRCBDSH)  
 X'FF' - Data  
 -----

End of Comment

## \$NTRDATA Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
7	(7)	BITSTRING	1	NTRTYPE	Data type
7	(7)	X'FF'	0	NTRTDATA	"FF" Contains data only
7	(7)	X'1'	0	NTRTNRQ	"TBFTNRQ" Contains a NRQ
7	(7)	X'2'	0	NTRTNMS	"TBFTNMS" Contains a NMS
7	(7)	X'3'	0	NRTLREQ	"TBFTLREQ" Contains a LINE request
7	(7)	X'4'	0	NTRTJOB	"TBFTJOB" Contains a JOB request
7	(7)	X'5'	0	NTRTCONN	"TBFTCONN" Contains a CONNECT request
8	(8)	DBL WORD	8	NTRQTIME	Queue time
16	(10)	DBL WORD	8	NTRRTIME	Total request time
24	(18)	ADDRESS	4	NTRDADD	Actual data address
28	(1C)	SIGNED	2	NTRDLEN	Length of variable data
28	(1C)	X'1E'	0	NTRBLEN	"*-NTR"
28	(1C)	X'1E'	0	NTRDATA	**"

## \$NTRDATA Cross Reference

Name	Hex Offset	Hex Value
NTR	0	
NTRBLEN	1C	1E
NTRDADD	18	
NTRDATA	1C	1E
NTRDLEN	1C	
NTRFFIAZ	6	20
NTRFFJ2M	6	80
NTRFFJ2N	6	40
NTRFFTCP	6	10
NTRFLOW	6	
NTRFTIAZ	6	2
NTRFTJ2M	6	8
NTRFTJ2N	6	4
NTRFTTCP	6	1
NTRLDVID	3	
NTRQTIME	8	
NTRRTIME	10	
NTRSDVID	0	
NTRTCONN	7	5
NTRTDATA	7	FF
NTRTJOB	7	4
NRTLREQ	7	3
NTRTNMS	7	2
NTRTNRQ	7	1
NTRTYPE	7	

---

**\$NTW Programming Interface information**

Programming Interface information

\$NTW

End of Programming Interface information

## \$NTW Heading Information

**Common Name:** HASP Network Path Manager Trace Work Area  
**Macro ID:** \$NTW  
**DSECT Name:** NTW  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'NTW '  
 Offset: NTWID-NTW  
 Length: 4

**Storage Attributes:** Subpool: Subpool 0 for the permanent NTW; Subpool 1 for the temporary NTW.  
 Key: 1  
 Residency: Virtual and real storage are anywhere (above or below 16M), in the private storage of the JES2 address space.

**Size:** See NTWLEN  
**Created by:** JES2 Initialization  
 JES2 Line Manager Processor

**Pointed to by:** PCTNTW field of the \$PCT data area (for the permanent work area created during JES2 initialization.)

**Serialization:** No special serialization other than that currently implied by the Network Path Manager.

**Function:** This DSECT maps a work area used to save information to be included in the following trace records:  
 trace id 21, 22, 23 and 24.

There are 2 types of NTWs: permanent and temporary. The permanent one is obtained for the Network Path Manager and is used for most of the traces issued by the Network Path Manager. The temporary NTW is used by the Line Manager when sending an I-record.

The data in the NTW is used as an object of a \$TRACE macro (DATA=, LEN=). The trace formatting routine uses the \$TRACE macro to convert the internal representation to a printable format.

## \$NTW Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NTW	
0	(0)	CHARACTER	4	NTWID	NTW identifier
4	(4)	ADDRESS	1	NTWVERS	NTW version
4	(4)	X'2'	0	NTWVERS	"2" Version number
8	(8)	SIGNED	4	NTWSTART (0)	Start of \$TRACE data
8	(8)	CHARACTER	1	NTWTYPE	Rec type: M, N, I, J, K, L,
9	(9)	BITSTRING	1	NTWFLAG1	
		1... ....		NTW1SEND	"B'10000000" This is a send record
		.1.. ....		NTW1DFUL	"B'01000000" Rec discon. by full path
		..1. ....		NTW1FFUL	"B'00100000" Rec forced full path rout.
		...1 ....		NTW1NCC	"B'00010000" An NCC was passed
		.... 1...		NTW1GAR	"B'00001000" Record is garbage
		.... .1..		NTW1MAS	"B'00000100" MAS validation NCC record
		.... ..1.		NTW1MASP	"B'00000010" MAS validation pending
		.... ...1		NTW1MASD	"B'00000001" MAS validation completed
10	(A)	BITSTRING	1	NTWSTAT	Status for connection
11	(B)	BITSTRING	1	NTWOSTAT	Previous status for conn
12	(C)	BITSTRING	1	NTWRRRC	Reason code for why record Was rejected or sent
13	(D)	ADDRESS	1	NTWMEMB	Node qualifier
14	(E)	ADDRESS	2	NTWNODE	Node from which record rcvd

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
16	(10)	CHARACTER	8	NTWCONS	Where record was from: LINEnnnn, MLINEn, 'FULLPATH', 'LINEDOWN', 'CONSOLE', 'PARMLIB'
24	(18)	SIGNED	4	NTWOCES	Previous CES
24	(18)	X'4'	0	NTWCESL	"4" Length of unconverted CES
24	(18)	X'10'	0	NTWCESL	"16" Length of converted CES
28	(1C)	SIGNED	4	NTWREC (0)	
28	(1C)	BITSTRING	20	NTWNAT	Space for NAT record
28	(1C)	BITSTRING	41	NTWNCCI	Space for NCC I/J record
28	(1C)	BITSTRING	9	NTWNCKK	Space for NCC K/L record
28	(1C)	BITSTRING	27	NTWNCCM	Space for NCC M/N record
28	(1C)	BITSTRING	3	NTWNCCB	Space for NCC B record
69	(45)	X'3D'	0	NTWSIZE	** -NTWSTART" Size of NPM trace record
69	(45)	X'45'	0	NTWLEN	** -NTW" Len of NPM work area

Comment

NTWRRC Reason codes

End of Comment

69	(45)	X'1'	0	NTWRINN	"1" Invalid Node Name
69	(45)	X'2'	0	NTWRMEM	"2" Invalid Member Number
69	(45)	X'3'	0	NTWRNSA	"3" No Storage Available
69	(45)	X'4'	0	NTWRICR	"4" Invalid resistance
69	(45)	X'5'	0	NTWRICS	"5" Invalid CES
69	(45)	X'6'	0	NTWRNDA	"6" No Devices Available
69	(45)	X'7'	0	NTWRTOL	"7" TOD Tolerance exceeded
69	(45)	X'8'	0	NTWRILP	"8" Invalid Line Password
69	(45)	X'9'	0	NTWRINP	"9" Invalid Node Password
69	(45)	X'A'	0	NTWRLNX	"10" Line Not Transparent
69	(45)	X'B'	0	NTWRIGN	"11" Ignored, Line Active
69	(45)	X'C'	0	NTWRGARB	"12" Ignored, Invalid record
69	(45)	X'D'	0	NTWRERR	"13" Ignored, ABEND processing
69	(45)	X'E'	0	NTWRKNOW	"14" Ignored, more recent connect exists
69	(45)	X'F'	0	NTWROWN	"15" Connection involves local node and member
69	(45)	X'10'	0	NTWRIFF	"16" Invalid NJE signon feature flags
69	(45)	X'11'	0	NTWRIPM	"17" Incorrect value for PATHMGR=
69	(45)	X'12'	0	NTWRIPT	"18" Non path manager CES received
69	(45)	X'13'	0	NTWRNOIB	"19" PREVIOUS I OR J RECORD WAS NOT ONLY IN BUFFER
69	(45)	X'14'	0	NTWROLDR	"20" IGNORED, AN OLD SUBTRACT NCC RECORD WAS RECEIVED
69	(45)	X'15'	0	NTWRLNPM	"21" IGNORED, RECORD RECEIVED ON A NON-PM LINE
69	(45)	X'16'	0	NTWRIGNA	"22" Ignored, line no longer active
69	(45)	X'17'	0	NTWRDUPM	"23" Duplicate primary and secondary node/member
69	(45)	X'18'	0	NTWRIMT	"24" Incorrect multi-trunk
69	(45)	X'19'	0	NTWRDCES	"25" Records with duplicate CES values were received
69	(45)	X'1A'	0	NTWRIPW	"26" Incorrect secure signon

## \$NTW Cross Reference

## \$NTW Cross Reference

Name	Hex Offset	Hex Value
NTW	0	
NTWCCESL	18	10
NTWCESL	18	4
NTWCONS	10	
NTWFLAG1	9	
NTWID	0	D5E3E640
NTWLEN	45	45
NTWMEMB	D	
NTWNAT	1C	
NTWNCCB	1C	
NTWNCCI	1C	
NTWNCCK	1C	
NTWNCCM	1C	
NTWNODE	E	
NTWOCES	18	
NTWOSTAT	B	
NTWRDCES	45	19
NTWRDUPM	45	17
NTWREC	1C	
NTWRERR	45	D
NTWRGARB	45	C
NTWRICR	45	4
NTWRICS	45	5
NTWRIFF	45	10
NTWRIGN	45	B
NTWRIGNA	45	16
NTWRILP	45	8
NTWRIMT	45	18
NTWRINN	45	1
NTWRINP	45	9
NTWRIPM	45	11
NTWRIPT	45	12
NTWRIPW	45	1A
NTWRKNOW	45	E
NTWRLNPM	45	15
NTWRLNX	45	A
NTWRMEM	45	2
NTWRNDA	45	6
NTWRNOIB	45	13
NTWRNSA	45	3
NTWROLDLDR	45	14
NTWROWN	45	F
NTWRRC	C	
NTWRTOL	45	7
NTWSIZE	45	3D
NTWSTART	8	
NTWSTAT	A	
NTWTYPE	8	
NTWVERS	4	
NTWVERSN	4	2
NTW1DFUL	9	40
NTW1FFUL	9	20
NTW1GAR	9	8
NTW1MAS	9	4
NTW1MASD	9	1
NTW1MASP	9	2
NTW1NCC	9	10
NTW1SEND	9	80

---

## **\$NVL Programming Interface information**

Programming Interface information

**\$NVL**

End of Programming Interface information

## \$NVL Heading Information

**Common Name:** Volume Allocation Table  
**Macro ID:** \$NVL  
**DSECT Name:** NVL  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: 0  
 Key: 1  
 Residency: Virtual and real storage are in 31 bit storage in the private storage of the JES2 address space.  
**Size:** See NVLTBLN  
**Created by:** HASPIRMA  
**Pointed to by:** CIRVOLTB field of the \$CIRWORK data area  
**Serialization:** None required  
**Function:** Maps the description of SPOOL volumes defined via initialization statements or discovered via a UCB scan.

## \$NVL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NVL	Allocation table entry DSECT
0	(0)	CHARACTER	6	NVLVOLID	Volume serial number
6	(6)	CHARACTER	44	NVLDSN	Data set name
50	(32)	BITSTRING	1	NVLFLAGS	Allocation request flags
51	(33)	BITSTRING	1	NVLTYPE	NVL type flag
		1... ....		NVLINIT	"B'10000000" Init statement created
52	(34)	BITSTRING	128	NVLSYAFN	Spool system affinity name list
180	(B4)	ADDRESS	4	NVLUCBPT	Volume UCB address
184	(B8)	CHARACTER	8	NVLPTOKN	PIN token from \$GETUCBS
192	(C0)	DBL WORD	8	(0)	
192	(C0)	X'C0'	0	NVLTBLN	** -NVL" Length of NVL table

## \$NVL Cross Reference

Name	Hex Offset	Hex Value
NVL	0	
NVLDSN	6	
NVLFLAGS	32	
NVLINIT	33	80
NVLPTOKN	B8	
NVLSYAFN	34	
NVLTBLN	C0	C0
NVLTYPE	33	
NVLUCBPT	B4	
NVLVOLID	0	



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**\$OCR Programming Interface information**

Programming Interface information

**\$OCR**

End of Programming Interface information

## \$OCR Heading Information

**Common Name:** OUTPUT Control Record DSECT  
**Macro ID:** \$OCR  
**DSECT Name:** OCR  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: See \$OCT  
 Key: See \$OCT  
 Residency: See \$OCT  
**Size:** See OCRLENG  
**Created by:** Initially created by HASPRCCS routine in HASCSRIP when a job encounters a /\*OUTPUT card.  
**Pointed to by:** OCRs reside in the OCT starting at label OCTOCR. The offset beyond the last OCR in the OCT is in OCTOFOCR.  
**Serialization:** While a job is in execution, the OCR resides in the user address space, so that no other JES2 PCE will update the OCR. At other times, the JES2 dispatcher is used.  
**Function:** The \$OCR contains the information supplied on a /\*OUTPUT JES2 JCL statement. The OCRs are contained in the OCT.

## \$OCR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	OCR	OUTPUT CONTROL RECORD DSECT
0	(0)	CHARACTER	4	OCRCODE	FORMS CODE
4	(4)	CHARACTER	5	(0)	KEEP MOD AND MODC TOGETHER
4	(4)	CHARACTER	4	OCRMODF	N/I PRINTER COPY-MOD IMAGE
8	(8)	BITSTRING	1	OCRMODFT	N/I PRINTER MODIFY TAB REF CHAR
9	(9)	BITSTRING	1	OCRFLAGS	OUTPUT FLAGS
10	(A)	BITSTRING	1	OCRINDEX	PRINT INDEX
11	(B)	BITSTRING	1	OCRCOPY	COPY COUNT (MUST PRECEDE COPYG)
12	(C)	CHARACTER	8	OCRCOPYG	N/I PRINTER COPY GROUPS
20	(14)	CHARACTER	4	OCRFORMS	FORMS SPECIFICATION
24	(18)	CHARACTER	4	OCRFCB	FCB SPECIFICATION
28	(1C)	CHARACTER	4	OCRUCS	UCS SPECIFICATION
32	(20)	SIGNED	4	OCRRECNT	RECORD COUNT LIMIT
36	(24)	CHARACTER	4	OCRCHAR1	N/I PRINTER TRANS-TABLE 1
40	(28)	CHARACTER	4	OCRCHAR2	N/I PRINTER TRANS-TABLE 2
44	(2C)	CHARACTER	4	OCRCHAR3	N/I PRINTER TRANS-TABLE 3
48	(30)	CHARACTER	4	OCRCHAR4	N/I PRINTER TRANS-TABLE 4
52	(34)	SIGNED	4	OCRDEST1	DESTINATION 1
56	(38)	CHARACTER	8	OCRUSER1	DESTINATION 1 USERID/RMTID
56	(38)	X'C'	0	OCRUSDST	**OCRDEST1" LENGTH OF 1 OCR USERID/DEST UNIT
64	(40)	SIGNED	4	OCRDEST2	DESTINATION 2
68	(44)	CHARACTER	8	OCRUSER2	DESTINATION 2 USERID/RMTID
76	(4C)	SIGNED	4	OCRDEST3	DESTINATION 3
80	(50)	CHARACTER	8	OCRUSER3	DESTINATION 3 USERID/RMTID
88	(58)	SIGNED	4	OCRDEST4	DESTINATION 4
92	(5C)	CHARACTER	8	OCRUSER4	DESTINATION 4 USERID/RMTID
92	(5C)	X'30'	0	OCRUDND	**OCRDEST1" END OF DEST/USER ID SECTION
100	(64)	CHARACTER	5	(0)	KEEP FLASH, FLASH CNT TOGETHER
100	(64)	CHARACTER	4	OCRFLASH	N/I PRINTER FLASH
104	(68)	BITSTRING	1	OCRFLSHC	N/I PRINTER # FLASH COPIES
105	(69)	BITSTRING	1	OCRCPPTN	COMPACTION TABLE NUMBER
106	(6A)	SIGNED	2	OCRCKPTP	NO. OF LOGICAL PAGES/CKPT
108	(6C)	SIGNED	2	OCRCKPTL	NO. OF LINES/LOGICAL PAGE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
110	(6E)	BITSTRING	1	OCRLINCT	LINECT
111	(6F)	BITSTRING	12		RESERVED
124	(7C)	SIGNED	4	OCREND (0)	END OF OUTPUT CONTROL RECORD
124	(7C)	X'7C'	0	OCRLENG	"*-OCR"

Comment

---

End of Comment

OCRFLAGS

1... ..	OCRBRSTN	"B'10000000" N/I PRINTER BURST=NO FLAG
.1... ..	OCRBRSTY	"B'01000000" N/I PRINTER BURST=YES FLAG
..1. ....	OCRLNCTF	"B'00100000" LINECT SPECIFIED
...1 ....	OCRFLAG3	"B'00010000" RESERVED
.... 1...	OCRFLAG4	"B'00001000" RESERVED
.... .1..	OCRFLAG5	"B'00000100" RESERVED
.... ..1.	OCRFLAG6	"B'00000010" RESERVED
.... ...1	OCRFLAG7	"B'00000001" RESERVED

**\$OCR Cross Reference**

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
OCR	0		OCRUSER4	5C	
OCRBRSTN	7C	80			
OCRBRSTY	7C	40			
OCRCHAR1	24				
OCRCHAR2	28				
OCRCHAR3	2C				
OCRCHAR4	30				
OCRCKPTL	6C				
OCRCKPTP	6A				
OCRCODE	0				
OCRCOPY	B				
OCRCOPYG	C				
OCRCPNTN	69				
OCRDEST1	34				
OCRDEST2	40				
OCRDEST3	4C				
OCRDEST4	58				
OCREND	7C				
OCRFCB	18				
OCRFLAGS	9				
OCRFLAG3	7C	10			
OCRFLAG4	7C	8			
OCRFLAG5	7C	4			
OCRFLAG6	7C	2			
OCRFLAG7	7C	1			
OCRFLASH	64				
OCRFLSHC	68				
OCRFORMS	14				
OCRINDEX	A				
OCRLENG	7C	7C			
OCRLINCT	6E				
OCRLNCTF	7C	20			
OCRMODF	4				
OCRMODFT	8				
OCRRECNT	20				
OCRUCS	1C				
OCRUDND	5C	30			
OCRUSDST	38	C			
OCRUSER1	38				
OCRUSER2	44				
OCRUSER3	50				



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**\$OCT Programming Interface information**

Programming Interface information

**\$OCT**

End of Programming Interface information

## \$OCT Heading Information

**Common Name:** Output Control Table  
**Macro ID:** \$OCT  
**DSECT Name:** OCT  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** OCT  
 Offset: OCTID-OCT  
 Length: L'OCTID

**Storage Attributes:** Subpool: 7 for Main Task, 230 for User Environment  
 Key: 1  
 Residency: The \$OCT is a JES2 spool resident control block. Virtual and real storage can be anywhere.

**Size:** See OCTLENG for the length of the control block.  
 The OCT is contained in a buffer of size \$BUFSIZE which is a field in \$HCT.

**Created by:** Initially created by HASPRDR when a job encounters a /\*OUTPUT card.

**Pointed to by:** OCTOCT field of the \$OCT data area  
 SJBOCT field of the \$SJB data area  
 OCTOCTTR field of the \$OCT data area (addr on spool)  
 JCTOCTTR field of the \$JCT data area (addr on spool)  
 Various fields in the processor work areas

**Serialization:** While a job is in execution, the OCT resides in the user address space, so that no other JES2 PCE will update the OCT. At other times, the JES2 dispatcher is used.

**Function:** The OCT is used to hold data from the /\*OUTPUT control card until a PDDB is created into which the data is then moved.

## \$OCT Map

Offsets		Type/Value	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	0	OCT	HASP OUTPUT CONTROL TABLE DSECT
Comment					
-----					
The following fields are defined over the buffer prefix in order to ensure that they are never written to SPOOL.					
-----					
End of Comment					
0	(0)	X'40'	0	OCTOCT	"BUFMEMW1-BFPDSECT+OCT" Storage address of next OCT
Comment					
-----					
End of buffer prefix fields					
-----					
End of Comment					
0	(0)	BITSTRING	1	(0)	BUFFER CONTROL INFORMATION
0	(0)	X'68'	0	OCTSTART	*** START OF DATA WRITTEN TO SPOOL

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
-----					
<p>The following sub-section, generated by the SPID macro, must reside immediately after the I/O control data in every spool buffer.</p> <p>The following fields are defined:</p> <p>Eyecatcher - 4 bytes</p> <p>Job name - 8 bytes</p> <p>Job number - 4 bytes</p> <p>Job key - 4 bytes</p> <p>Dataset key - 4 bytes (or reserved if not applicable)</p>					
-----					
End of Comment					
104	(68)	CHARACTER	4	OCTID	Eyecatcher
108	(6C)	CHARACTER	8	OCTJNAME	Job name
116	(74)	SIGNED	4	OCTJBNUM	Job number
120	(78)	SIGNED	4	OCTJBKEY	Job key
124	(7C)	BITSTRING	4		Reserved
124	(7C)	X'18'	0	OCTSPLNG	**"OCTID"
128	(80)	ADDRESS	2	OCTLENG	LENGTH OF OCT INCLUDING PREFIX
130	(82)	SIGNED	1	OCTVERS	OCT version:
130	(82)	X'0'	0	OCTVER0	"0" Pre-z/OS 1.12 (MTTRs)
130	(82)	X'C'	0	OCTVER12	"12" z/OS 1.12+ (MQTRs)
131	(83)	BITSTRING	1		RESERVED FOR FUTURE USE
Comment					
-----					
OCTVER0 (Pre-z/OS 1.12) OCT format:					
-----					
End of Comment					
132	(84)	BITSTRING	4	OCTTRACK_Z11	Track address (MTTR) of this OCT
136	(88)	BITSTRING	4	OCTOCTTR_Z11	Track address (MTTR) of next OCT
140	(8C)	SIGNED	4	OCTOCROF_Z11	Offset beyond last OCR in OCT
144	(90)	BITSTRING	4	OCTRSV1_Z11	Reserved for future use
Comment					
-----					
OCTVER12 (z/OS 1.12+) OCT format:					
-----					
End of Comment					
132	(84)	BITSTRING	6	OCTCURTK	Track address (MQTR) of this OCT
138	(8A)	BITSTRING	6	OCTNXTTK	Track address (MQTR) of next OCT
144	(90)	SIGNED	4	OCTOFOCR	Offset beyond last OCR in OCT
Comment					
-----					
START OF OUTPUT CONTROL RECORDS (\$OCRs)					
-----					
End of Comment					
148	(94)	BITSTRING	1	OCTOCR	START OF OUTPUT CONTROL RECORDS

## \$OCT Cross Reference

### \$OCT Cross Reference

Name	Hex Offset	Hex Value
OCT	0	
OCTCURTK	84	
OCTID	68	
OCTJBKEY	78	
OCTJBNUM	74	
OCTJNAME	6C	
OCTLENG	80	
OCTNXTTK	8A	
OCTOCR	94	
OCTOCROF_Z11	8C	
OCTOCT	0	40
OCTOCTTR_Z11	88	
OCTOFOCR	90	
OCTRSV1_Z11	90	
OCTSPNG	7C	18
OCTSTART	0	68
OCTTRACK_Z11	84	
OCTVERS	82	
OCTVER0	82	0
OCTVER12	82	C



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**\$ODPARM Programming Interface information**

Programming Interface information

**\$ODPARM**

End of Programming Interface information

## \$ODPARM Heading Information

**Common Name:** Output Descriptor Parameter Block  
**Macro ID:** \$ODPARM  
**DSECT Name:** ODPARM  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'ODP '  
 Offset: ODPID-ODP  
 Length: 4

**Storage Attributes:** Subpool: 1  
 Key: 1  
 Residency: Virtual and real storage are anywhere (above or below 16M) in the private storage of the JES2 address space.

**Size:** See ODPSIZE

**Created by:** SJF Services processor for each request that is passed to the Output Descriptor Modify Subtask processor.

**Pointed to by:** SFRODP field of the \$SFRB data area

**Serialization:** None required; HASPSJFR subtask assigns one ODPARM per subtask to process a request.

**Function:** This macro provides the mapping of the parameters needed by the Output Descriptor routine called by the generalized subtask in support of SWB Modify processing.

## \$ODPARM Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ODPARM	
0	(0)	X'0'	0	ODPBGN	***
0	(0)	CHARACTER	4	ODPID	Acronym set to 'ODP '
4	(4)	BITSTRING	1	ODPVER	Version number of ODPARM
4	(4)	X'1'	0	ODPV#	"1" Current version number of ODPARM
5	(5)	BITSTRING	1	ODPRSV1	Reserved
6	(6)	SIGNED	2	ODPRSV2	Reserved
8	(8)	ADDRESS	4	ODPWAVE	Address of WAVE
12	(C)	ADDRESS	4	ODPJJOEA	Address of JOE

Comment

Output descriptor subtask work area begins here  
 Footprints for SWB Modify Subtask

End of Comment

16	(10)	BITSTRING	1	ODPFOOT	Footprint area - current
17	(11)	BITSTRING	1	ODPFOOTP	Footprint area - previous
17	(11)	X'1'	0	ODPFSTR	"1" Footprint - Convert Dest
17	(11)	X'2'	0	ODPFCNV	"2" Footprint - Convert Dest
17	(11)	X'3'	0	ODPFSAF	"3" Footprint - SAF calls
17	(11)	X'4'	0	ODPFMGI	"4" Footprint - Merge init.
17	(11)	X'5'	0	ODPFDSP	"5" Footprint - Despool SWBITs
17	(11)	X'6'	0	ODPFMGS	"6" Footprint - \$Merge setup
17	(11)	X'7'	0	ODPFSJM	"7" Footprint - SJF/\$MERG
17	(11)	X'8'	0	ODPFSJS	"8" Footprint - SJF Split
17	(11)	X'9'	0	ODPFTUS	"9" Footprint - Move TUs
17	(11)	X'A'	0	ODPFWRI	"10" Footprint - Write init.
17	(11)	X'B'	0	ODPFIOT	"11" Footprint - IOT access
17	(11)	X'C'	0	ODPFMTR	"12" Footprint - Alloc MTTR

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
17	(11)	X'D'	0	ODPFSP	"13" Footprint - Write SWBIT
17	(11)	X'E'	0	ODPFCLP	"14" Footprint - Merge cleanup
17	(11)	X'F'	0	ODPPREC	"15" Footprint - In recovery

Comment

Error Reason Codes from SWB Modify Subtask

End of Comment

17	(11)	X'4'	0	ODPRSAF	"4" SAF call failure (\$SEAS)
17	(11)	X'8'	0	ODPRIOE	"8" I/O error on Spool
17	(11)	X'C'	0	ODPRSERV	"12" JES2 service rtn error
17	(11)	X'10'	0	ODPRDEST	"16" Dest processing error
17	(11)	X'14'	0	ODPRMERG	"20" Error during Merge service
17	(11)	X'18'	0	ODPRSPLT	"24" Error during Split service
17	(11)	X'1C'	0	ODPRABN	"28" Subtask abended
17	(11)	X'20'	0	ODPRIOT	"32" IOT is not valid
17	(11)	X'24'	0	ODPRBADP	"36" Bad parm. or control block
17	(11)	X'8'	0	ODPERR8	"8" Subtask return code
18	(12)	BITSTRING	1	ODPFLG1	Flag
		.... ..1		ODPNOBAS	"B'00000001" No base SWBITs in JOE
		.... ..1.		ODPERBAS	"B'00000010" Base Erase Tus exist
		.... ..1..		ODPNOOVR	"B'00000100" No override SWBTU present
		.... ..1...		ODPNOMRG	"B'00001000" No \$SWBMERG required
		...1 ....		ODPABND	"B'00010000" Recovery routine entered
		..1. ....		ODPRCUR	"B'00100000" Abend recursion flag
19	(13)	BITSTRING	1	ODPFLG2	Processing status flag (used by both JES2&subtsk)

Comment

-----  
 The following two bits are mutually exclusive.  
 If neither is on, the current destination is kept  
 as is.  
 -----

End of Comment

		1... ....		ODP2NOIP	"B'10000000" Dest is NOT in IP format
		.1.. ....		ODP2IPAD	"B'01000000" Dest is in IP format
		..1. ....		ODP2ERAS	"B'00100000" Dest is to be erased
20	(14)	SIGNED	2	ODPDATLN	Size of SWBIT Data area
22	(16)	SIGNED	2	ODPRSVW1	Reserved for subtask use
24	(18)	DBL WORD	8	(0)	Alignment
24	(18)	CHARACTER	20	ODPDSAFW	20 byte DEST/SAF work area
44	(2C)	SIGNED	4	ODPWKR1	Work area for subtask
48	(30)	SIGNED	4	ODPWKR2	Work area for subtask
52	(34)	ADDRESS	4	ODPSERV	MERGE/SPLIT parm area
56	(38)	ADDRESS	4	ODPSERVL	MERGE/SPLIT parm length
60	(3C)	ADDRESS	4	ODPMTUAD	\$MERGE SWBTU output addr
64	(40)	ADDRESS	4	ODPFINB	First input SWBIT buffer
68	(44)	ADDRESS	4	ODPFIRB	First output SWBIT buffer
72	(48)	ADDRESS	4	ODPCURB	Current SWBIT buffer addr
76	(4C)	ADDRESS	4	ODPPREB	Previous SWBIT buffer addr
80	(50)	ADDRESS	4	ODPERAD	Cumulative erase TU addr
84	(54)	ADDRESS	4	ODPTUAD	address of merged SWBTU
88	(58)	SIGNED	2	ODPERCLN	Cumulative erase TU length
90	(5A)	SIGNED	2	ODPTUCLN	Cumulative SWBTU length
92	(5C)	SIGNED	2	ODPTUNUM	Number of base SWBTUs
94	(5E)	SIGNED	2	ODPRSVH1	Reserved for devel.
96	(60)	ADDRESS	4	ODPSJIO	Address of SJIOB
100	(64)	ADDRESS	4	ODPIOTB	Addr IOT buffers
104	(68)	SIGNED	4	ODPSJRC	SJF Service return code
108	(6C)	SIGNED	4	ODPSJRS	SJF Service reason code
112	(70)	ADDRESS	4	ODPPCE	Address of PCE

## \$ODPARM Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
116	(74)	SIGNED	4	ODPRSVS1	Reserved for service
120	(78)	DBL WORD	8	(0)	Alignment
120	(78)	ADDRESS	4	ODPJOOA	Address of UPDATE MODE JOA.
124	(7C)	CHARACTER	76	ODPCHJOE	Char-JOE area
200	(C8)	CHARACTER	8	ODPJUSER	Input - JOEUSER from characteristic JOE Output - Userid included in modify SWBTU or '<IP>' if new dest is in IP-format.
208	(D0)	BITSTRING	4	ODPROUT	Route code from DEST mod TU
212	(D4)	CHARACTER	84	ODPTKWRK	Security token work area
296	(128)	DBL WORD	8	(0)	Alignment
296	(128)	CHARACTER	96	ODPJQE	Work-JQE area
392	(188)	CHARACTER	56	ODPJSPLS	JESSPOOL logstring
448	(1C0)	DBL WORD	8	(0)	End on a Dblword boundary
448	(1C0)	X'1C0'	0	ODPSIZE	**"-ODPBGN" Size of parameter area

## \$ODPARM Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
ODPABND	12	10	ODPRBADP	11	24
ODPARM	0		ODPRCUR	12	20
ODPBGN	0	0	ODPRDEST	11	10
ODPCHJOE	7C		ODPRIOE	11	8
ODPCURB	48		ODPRIOT	11	20
ODPDATLN	14		ODPRMERG	11	14
ODPDSAFW	18		ODPROUT	D0	
ODPERAD	50		ODPRSAF	11	4
ODPERBAS	12	2	ODPRSERV	11	C
ODPERCLN	58		ODPRSPLT	11	18
ODPERR8	11	8	ODPRSVH1	5E	
ODPFCLP	11	E	ODPRSVS1	74	
ODPFCNV	11	2	ODPRSVW1	16	
ODPFDSP	11	5	ODPRSV1	5	
ODPFINB	40		ODPRSV2	6	
ODPFIOT	11	B	ODPSERVL	38	
ODPFIRB	44		ODPSERVV	34	
ODPFLG1	12		ODPSIZE	1C0	1C0
ODPFLG2	13		ODPSJIO	60	
ODPFMGI	11	4	ODPSJRC	68	
ODPFMGS	11	6	ODPSJRS	6C	
ODPFMTR	11	C	ODPTKWRK	D4	
ODPFOOT	10		ODPTUAD	54	
ODPFOOTP	11		ODPTUCLN	5A	
ODPFSAF	11	3	ODPTUNUM	5C	
ODPFSJM	11	7	ODPV#	4	1
ODPFSJS	11	8	ODPVER	4	
ODPFSPL	11	D	ODPWAVE	8	
ODPFSTR	11	1	ODPWVK1	2C	
ODPFTUS	11	9	ODPWVK2	30	
ODPFWRI	11	A	ODP2ERAS	13	20
ODPID	0		ODP2IPAD	13	40
ODPIOTB	64		ODP2NOIP	13	80
ODPJOOA	78				
ODPJJOEA	C				
ODPJQE	128				
ODPJSPLS	188				
ODPJUSER	C8				
ODPMTUAD	3C				
ODPNOBAS	12	1			
ODPNOMRG	12	8			
ODPNOOVR	12	4			
ODPPCE	70				
ODPPREB	4C				
ODPPREC	11	F			
ODPRABN	11	1C			

## \$OPAWORK Heading Information

**Common Name:** JES2 Output Priority Aging PCE Work Area  
**Macro ID:** \$OPAWORK  
**DSECT Name:** PCE (\$OPAWORK is part of the PCE DSECT)  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'PCE '  
 Offset: PCEEYE-PCE  
 Length: 4  
**Storage Attributes:** Subpool: See \$PCE  
 Key: See \$PCE  
 Residency: See \$PCE  
**Size:** See symbol OPAPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.  
**Created by:** See \$PCE  
**Pointed to by:** The \$PRYOPCE field of the \$HCT data area  
 See \$PCE for other pointer fields that apply to all PCE types.  
**Serialization:** Normal PCE dispatch serialization  
**Function:** The fields in this area are used by a JES2 Output Priority Aging Processor and by its support routines and exits. \$OPAWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$OPAWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEOPAID in the second byte of field PCEID.

This PCE is not device related. Field PCEDCT is zero.

### \$OPAWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
312	(138)	BITSTRING	12	OPATQE	HASP Timer Queue Element
324	(144)	SIGNED	4		Reserved for future use
328	(148)	DBL WORD	8	(0)	Force double-word alignment
328	(148)	X'10'	0	OPAPCEWS	"*-PCEWORK" Length of work area

## \$OPAWORK Map

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**\$OUTWORK Programming Interface information**

Programming Interface information

**\$OUTWORK**

End of Programming Interface information

## \$OUTWORK Heading Information

**Common Name:** JES2 Output PCE Work Area  
**Macro ID:** \$OUTWORK  
**DSECT Name:** PCE (\$OUTWORK is part of the PCE DSECT)  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'PCE '  
 Offset: PCEEYE-PCE  
 Length: 4

**Storage Attributes:** Subpool: See \$PCE  
 Key: See \$PCE  
 Residency: See \$PCE

**Size:** See symbol OUTWKSIZ for the length of this work area. The overall length of the PCE is stored in field PCELENG.

**Created by:** See \$PCE  
**Pointed to by:** The \$OUTPCE field of the \$HCT data area points into the \$PCEORG/\$PCELAST chain to the first Output PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See \$PCE for other pointer fields that apply to all PCE types.

**Serialization:** Normal PCE dispatch serialization  
**Function:** The fields in this work area are used by a JES2 Output Processor and by its support routines and exits. \$OUTWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in \$OUTWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEOUTID in the second byte of field PCEID.

This PCE is not device related. Field PCEDCT is zero.

## \$OUTWORK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
312	(138)	SIGNED	4	OUTIOTBF	ADDRESS OF IOT BUFFER CHAIN
316	(13C)	SIGNED	4	OUTJCTBF	ADDRESS OF JCT BUFFER
320	(140)	SIGNED	4	OUTPDDB	RESTART PDDB POINTER
324	(144)	SIGNED	4	OUTIMEON (2)	OUTPUT PROCESSOR TIME/DATE
332	(14C)	ADDRESS	4	OUTJOAA	Addr of buffer containing PROTOTYPE JOA
336	(150)	SIGNED	4	OUTJOAL	Length of buffer containing PROTOTYPE JOA
340	(154)	SIGNED	4	OUTDBEND	1ST FREE PDDB SLOT IN IOT
344	(158)	SIGNED	4	OUTIOT	RESTART IOT ADDRESS
348	(15C)	SIGNED	4	OUTJBKEY	JOB KEY FROM JCTJBKEY
352	(160)	BITSTRING	1	OUTJCOPY	JOB LEVEL COPY COUNT FROM JCT
353	(161)	BITSTRING	2		RESERVED
355	(163)	BITSTRING	1	OUTFLAGS	OUTPUT PROCESSOR FLAGS
356	(164)	SIGNED	4	OUTGGTOK	GENERIC GROUPING TOKEN
360	(168)	SIGNED	4	OUTEXPRM (0)	EXIT 16 PARAMETER LIST
360	(168)	SIGNED	4	OUTMADD	EXIT MESSAGE ADDRESS
364	(16C)	SIGNED	4	OUTMPRM	EXIT PARM LIST ADDRESS
368	(170)	SIGNED	4	OUTMJCT	ADDRESS OF JCT
372	(174)	ADDRESS	4	OUTDSSCB	ADDR OF DSSCB WORK AREA



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
376	(178)	CHARACTER	32	OUTGRPPM	OUTPUT GROUPING PARM LIST
408	(198)	ADDRESS	4	OUTQPARM	NODE TABLE ADDRESS
412	(19C)	ADDRESS	4		CONTROL BLOCK ADDRESS
416	(1A0)	ADDRESS	4		CLASS LIST ADDRESS
420	(1A4)	ADDRESS	4		ADDRESS OF JQE
424	(1A8)	ADDRESS	1		CLASS LIST LENGTH
425	(1A9)	ADDRESS	1		QUEUE TYPE SPECIFIED
426	(1AA)	ADDRESS	1		WORK SELECTION TYPE FLAG
427	(1AB)	ADDRESS	1		RESERVED FOR FUTURE USE
427	(1AB)	X'198'	0	OUTPLST	"OUTQPARM,*-OUTQPARM" QGET PARAMETER LIST STORAGE
428	(1AC)	CHARACTER	36	OUTNOTPL	Parm list storage for \$HNOTIFY call from DSAL
464	(1D0)	DBL WORD	8	(0)	
464	(1D0)	BITSTRING	80	OUTCTKNO	Old CTOKEN work area
544	(220)	DBL WORD	8	(0)	
544	(220)	BITSTRING	56	OUTX40PL	Exit 40 XPL parmlist
600	(258)	DBL WORD	8	(0)	
600	(258)	X'120'	0	OUTWKSIZ	"*-PCEWORK" LENGTH OF HOPE PCE WORK AREA

Comment

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OUTFLAGS

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End of Comment

	1... ....	OUTSTATS	"B'10000000" JOB Statistics created
	.... 1...	OUTJOBBER	"B'00001000" Job finished abnormally

**\$OUTWORK Cross Reference**

Name	Hex Offset	Hex Value
OUTCTKNO	1D0	
OUTDBEND	154	
OUTDSSCB	174	
OUTEXPRM	168	
OUTFLAGS	163	
OUTGGTOK	164	
OUTGRPPM	178	
OUTIMEON	144	
OUTIOT	158	
OUTIOTBF	138	
OUTJBKEY	15C	
OUTJCOPY	160	
OUTJCTBF	13C	
OUTJOAA	14C	
OUTJOAL	150	
OUTJOBBER	258	8
OUTMADD	168	
OUTMJCT	170	
OUTMPRM	16C	
OUTNOTPL	1AC	
OUTPddb	140	
OUTPLST	1AB	198
OUTQPARM	198	
OUTSTATS	258	80
OUTWKSIZ	258	120
OUTX40PL	220	
PCE	0	

## \$OUTWORK Cross Reference

## \$PAD Heading Information

**Common Name:** PROCLIB Allocation Descriptor  
**Macro ID:** \$PAD  
**DSECT Name:** PAD  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** PAD  
 Offset: PADID  
 Length: L'PADID  
**Storage Attributes:** Subpool: 0  
 Key: 1  
 Residency: Real and virtual storage can be anywhere (above or below 16M).  
**Size:** See PADLEN  
**Created by:** HASPSXIT for the PROCLIB command and init statement  
**Pointed to by:** \$PAD field of the HCT data area  
 PADPAD field of the PAD data area  
 PADALT field of the PAD data area  
 PADDAD field of the PAD data area  
**Serialization:** None required  
**Function:** The PAD represent a dynamically allocated PROCLIB DD statement.

## \$PAD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PAD	, PROCLIB allocation DSECT
0	(0)	CHARACTER	4	PADID	Eyecatcher
4	(4)	SIGNED	4	PADSIZE	PAD length
8	(8)	CHARACTER	8	PADNAME	Logical DD name
16	(10)	CHARACTER	8	PADALCDD	Allocated DD name
24	(18)	DBL WORD	8	PADCRTIM	PAD creation time
32	(20)	DBL WORD	8	PADDLTIM	Time of last PAD deletion attempt
40	(28)	BITSTRING	1	PADFLAG1	General flag byte
		1... ....		PAD1DEL	"B'10000000" PAD deleted
		.1.. ....		PAD1UNC	"B'01000000" Unconditional allocation
		..1. ....		PAD1COND	"B'00100000" Conditional allocation
		...1 ....		PAD1UNAP	"B'00010000" Unallocation in progress
41	(29)	BITSTRING	3		Reserved
44	(2C)	ADDRESS	4	PADPAD	PAD chain pointer
48	(30)	ADDRESS	4	PADALT	Alternate PAD chain
52	(34)	ADDRESS	4	PADDAD	Owning (main) pad
56	(38)	SIGNED	4	PADUSE	PAD use count
60	(3C)	SIGNED	4	PADDSNLW	Low data set subscript (always 1)
64	(40)	SIGNED	4	PADDSNCT	Data set count
68	(44)	BITSTRING	4		Reserved
72	(48)	DBL WORD	8	PADDSET (0)	Data set specifications
72	(48)	BITSTRING	15304	(255)	Max data set specifications
15376	(3C10)	DBL WORD	8	(0)	Ensure alignment
15376	(3C10)	X'3C10'	0	PADLEN	"*-PAD" Maximum PAD length

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PADE	, PAD data set entry
0	(0)	CHARACTER	44	PADEDSN	Data set name
44	(2C)	CHARACTER	8	PADEUNIT	Data set unit
52	(34)	CHARACTER	6	PADEVOL	Data set VOLSER

## \$PAD Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
58	(3A)	BITSTRING 1... ..	1	PADEFLG1 PADE1ALF	Flag byte "B'10000000" Data set not allocated (failed)
59	(3B)	BITSTRING	1		Reserved
60	(3C)	SIGNED	4	(0)	Align
60	(3C)	X'3C'	0	PADELEN	"*-PADE" Length of data set entry

## \$PAD Cross Reference

Name	Hex Offset	Hex Value
PAD	0	
PADALCDD	10	
PADALT	30	
PADCRTIM	18	
PADDAD	34	
PADDLTIM	20	
PADDSET	48	
PADDSNCT	40	
PADDSNLW	3C	
PADE	0	
PAEDSN	0	
PADEFLG1	3A	
PAELEN	3C	3C
PADEUNIT	2C	
PADEVOL	34	
PADE1ALF	3A	80
PADFLAG1	28	
PADID	0	D7C1C440
PADLEN	3C10	3C10
PADNAME	8	
PADPAD	2C	
PADSIZE	4	
PADUSE	38	
PAD1COND	28	20
PAD1DEL	28	80
PAD1UNAP	28	10
PAD1UNC	28	40

## \$PADDR Heading Information

**Common Name:** Private Storage Routine Address Table/DSECT  
**Macro ID:** \$PADDR  
**DSECT Name:** PADDR  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** 'PADR'  
 Offset: PADDRID-PADDR  
 Length: 4

**Storage Attributes:** Subpool: The subpool of the HASJES20 load module  
 Key: 1  
 Residency: Virtual and real storage are below 16M, in the private storage of the JES2 address space.

**Size:** See PADDRLEN

**Created by:** The \$PADDR is created by assembly of the HASPNUC module in the HASJES20 load module.

**Pointed to by:** \$PADDR field of the \$HCT data area

**Serialization:** Read only, except for JES2 initialization processing for PC routines

**Function:** The PADDR contains the addresses of all JES2 private storage service routines to which access is required from multiple assembly modules or installation exits.

This table may be used by \$CALL to locate routines residing in private storage in the JES2 address space. \$CALL uses this table to find either the address or PC number for the called routine.

This macro has a DSECT= parameter. If DSECT=YES is used, the DSECT is generated, otherwise the table is expanded.

## \$PADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PADDR	JES2 private storage routine address table DSECT
0	(0)	CHARACTER	4	PADDRID	PADDR TABLE EYECATCHER
4	(4)	ADDRESS	1	PADDRV	VERSION NUMBER
4	(4)	X'6'	0	PADDRVN	"6" VERSION NUMBER
5	(5)	BITSTRING	3		RESERVED FOR FUTURE USE
Comment					
Module HASCOFST entries, listed alphabetically (for the copy of HASCOFST that is within HASJES20)					
End of Comment					
8	(8)	ADDRESS	4	PADDR@OCOOFST	"V(OCOOFST)" Offset table for O C O code (data only, not \$CALLable) O C O code cannot use this PADDR field, as the PADDR is not frozen.
Comment					
Entry addresses for \$EXTP services (R14 is used for service options,)					
End of Comment					

## \$PADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
12	(C)	ADDRESS	4	P@HASPBCSA	"V(HASPBCSA)" Entry to BSC \$EXTP routines
16	(10)	ADDRESS	4	P@HASPROUT	"V(HASPROUT)" Entry to NJE job route srv.
20	(14)	ADDRESS	4	P@HASPSNAA	"V(HASPSNAA)" Entry to SNA \$EXTP routines
24	(18)	ADDRESS	4	P@HASPTCPA	"V(HASPTCPA)" Entry to TCP \$EXTP routines
28	(1C)	ADDRESS	4	P@HASPXFRA	"V(HASPXFRA)" Entry to XFR \$EXTP routines

Comment

Entry addresses for Line manager scan routines

End of Comment

32	(20)	ADDRESS	4	P@HASPBPPO	"V(HASPBPPO)" BSC Buffer channel end
36	(24)	ADDRESS	4	P@HASPBACT	"V(HASPBACT)" BSC Active line scan
40	(28)	ADDRESS	4	P@HASPBUANT	"V(HASPBUANT)" BSC Inactive line scan
44	(2C)	ADDRESS	4	P@HASPBSLN	"V(HASPBSLN)" BSC Secondary started line scan for SWEL processing
48	(30)	ADDRESS	4	P@HASPSPRO	"V(HASPSPRO)" SNA RPL Completion
52	(34)	ADDRESS	4	P@HASPSLOG	"V(HASPSLOG)" SNA Active logon scan
56	(38)	ADDRESS	4	P@HASPSLNE	"V(HASPSLNE)" SNA Active line scan
60	(3C)	ADDRESS	4	P@HASPSIDL	"V(HASPSIDL)" SNA Idle line scan
64	(40)	ADDRESS	4	P@HASPSUNT	"V(HASPSUNT)" SNA Inactive line scan
68	(44)	ADDRESS	4	P@HASPSACB	"V(HASPSACB)" SNA ACB completion scan
72	(48)	ADDRESS	4	P@HASPSICE	"V(HASPSICE)" SNA ICE scan
76	(4C)	ADDRESS	4	P@HASPSRAT	"V(HASPSRAT)" SNA RAT Autologon scan
80	(50)	ADDRESS	4	P@HASPSSAL	"V(HASPSSAL)" Sna Secondary started line scan for SWEL processing
84	(54)	ADDRESS	4	P@HASPTPRO	"V(HASPTPRO)" TCP/IP buffers queued to main task
88	(58)	ADDRESS	4	P@HASPTACT	"V(HASPTACT)" TCP/IP Active line scan
92	(5C)	ADDRESS	4	P@HASPTIDL	"V(HASPTIDL)" TCP/IP Idle line scan
96	(60)	ADDRESS	4	P@HASPTUNT	"V(HASPTUNT)" TCP/IP Inactive unit scan
100	(64)	ADDRESS	4	P@HASPTASV	"V(HASPTASV)" TCP/IP Active server scan
104	(68)	ADDRESS	4	P@HASPTSSV	"V(HASPTSSV)" TCP/IP Starting server scan
108	(6C)	ADDRESS	4		Reserved
112	(70)	ADDRESS	4		Reserved
116	(74)	ADDRESS	4		Reserved
120	(78)	ADDRESS	4		Reserved
124	(7C)	ADDRESS	4	P@MLMVFY	"V(MLMVFY)" MLLM Verification code

Comment

Module HASPARMO routines listed alphabetically

End of Comment

128	(80)	ADDRESS	4	P@ARODREG	"V(ARODREG)" Deregister job
132	(84)	ADDRESS	4	P@AROQRYA	"V(AROQRYA)" Query registration

Comment

Module HASPBSC routines listed alphabetically

End of Comment

136	(88)	ADDRESS	4	P@MPURIO	"V(MPURIO)" PURGE I/O on line
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Comment

Module HASPCDYN routines listed alphabetically

End of Comment

140	(8C)	ADDRESS	4	P@\$CDCTDYN	"V(\$CDCTDYN)" Common DCT CREATE/SYNCH
144	(90)	ADDRESS	4	P@\$CNITNOT	"V(\$CNITNOT)" Common NIT broadcast

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Module HASPCFAL routines listed alphabetically					
End of Comment					
148	(94)	ADDRESS	4	P@CFALOC	"V(CFALOC)" CF Allocate a structure
Comment					
Module HASPCFBF routines listed alphabetically					
End of Comment					
152	(98)	ADDRESS	4	P@CFBLDLST	"V(CFBLDLST)" CF Build list for writing
Comment					
Module HASPCFDE routines listed alphabetically					
End of Comment					
156	(9C)	ADDRESS	4	P@CFDELETE	"V(CFDELETE)" CF Delete all elements
Comment					
Module HASPCFE routines listed alphabetically					
End of Comment					
160	(A0)	ADDRESS	4	P@CFCOMP	"V(CFCOMP)" CF Complete Exit
164	(A4)	ADDRESS	4	P@CFEVENT	"V(CFEVENT)" CF Event Exit
168	(A8)	ADDRESS	4	P@CFNOTIFY	"V(CFNOTIFY)" CF Notify Exit
Comment					
Module HASPCFFC routines listed alphabetically					
End of Comment					
172	(AC)	ADDRESS	4	P@CFFCOMP	"V(CFFCOMP)" CF Force completion
Comment					
Module HASPCFLE routines listed alphabetically					
End of Comment					
176	(B0)	ADDRESS	4	P@CFRDLEC	"V(CFRDLEC)" CF Read the LECs
Comment					
Module HASPCFMT routines listed alphabetically					
End of Comment					
180	(B4)	ADDRESS	4	P@CFFORMAT	"V(CFFORMAT)" CF Format
Comment					
Module HASPCFQL routines listed alphabetically					
End of Comment					
184	(B8)	ADDRESS	4	P@CFQLOCK	"V(CFQLOCK)" CF Query Lock holder
Comment					
Module HASPCFQU routines listed alphabetically					
End of Comment					

## \$PADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
188	(BC)	ADDRESS	4	P@CFQUERY	"V(CFQUERY)" CF Query connections to str
Comment					
Module HASPCFRD routines listed alphabetically					
End of Comment					
192	(C0)	ADDRESS	4	P@CFRDATA	"V(CFRDATA)" CF Read data
196	(C4)	ADDRESS	4	P@CFRDONE	"V(CFRDONE)" Read one track 1 record
Comment					
Module HASPCFRE routines listed alphabetically					
End of Comment					
200	(C8)	ADDRESS	4	P@CFREL	"V(CFREL)" CF Release structure lock
204	(CC)	ADDRESS	4	P@\$CFTRACE	"V(\$CFTRACE)" CF Trace routine
Comment					
Module HASPCFRL routines listed alphabetically					
End of Comment					
208	(D0)	ADDRESS	4	P@CFRDLIST	"V(CFRDLIST)" CF Read a list of elements
Comment					
Module HASPCFRS routines listed alphabetically					
End of Comment					
212	(D4)	ADDRESS	4	P@CFRESV	"V(CFRESV)" CF Obtain structure lock
Comment					
Module HASPCFR2 routines listed alphabetically					
End of Comment					
216	(D8)	ADDRESS	4	P@CFREAD2	"V(CFREAD2)" CF Read2
220	(DC)	ADDRESS	4	P@CFPURGE	"V(CFPURGE)" CF Purge processing
Comment					
Module HASPCFSI routines listed alphabetically					
End of Comment					
224	(E0)	ADDRESS	4	P@CFSTRTIO	"V(CFSTRTIO)" CF Start I/O
Comment					
Module HASPCFT1 routines listed alphabetically					
End of Comment					
228	(E4)	ADDRESS	4	P@CFTRK1IO	"V(CFTRK1IO)" CF Track1 I/O
Comment					
Module HASPCFUN routines listed alphabetically					
End of Comment					
232	(E8)	ADDRESS	4	P@CFUNAL	"V(CFUNAL)" CF Unallocate a structure



Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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Comment

Module HASPCFWP routines listed alphabetically

End of Comment

236	(EC)	ADDRESS	4	P@CFWRINPL	"V(CFWRINPL)" CF Write in place
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Comment

Module HASPCFWR routines listed alphabetically

End of Comment

240	(F0)	ADDRESS	4	P@CFWRITE	"V(CFWRITE)" CF Write
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Comment

MODULE HASPCKDS ROUTINES LISTED ALPHABETICALLY

End of Comment

244	(F4)	ADDRESS	4	P@CKBINIT	"V(CKBINIT)" VERIFY SIZE CB'S AND INIT CKB
248	(F8)	ADDRESS	4	P@CKPALCLN	"V(CKPALCLN)" CHECKPOINT ALLOCATION CLEANUP
252	(FC)	ADDRESS	4	P@CKPTALOC	"V(CKPTALOC)" CHECKPOINT DYNAMIC ALLOCATE RTN
256	(100)	ADDRESS	4	P@CKPTUNAL	"V(CKPTUNAL)" CHECKPOINT DATASET UNALLOCATE
260	(104)	ADDRESS	4	P@CKPTVSIZ	"V(CKPTVSIZ)" Verify new ckpt size
264	(108)	ADDRESS	4	P@CKPTXPND	"V(CKPTXPND)" Expand size of the CKPT
268	(10C)	ADDRESS	4	P@KDIALOG	"V(KDIALOG)" CKPT RECOVERY DIALOG SERVICE
272	(110)	ADDRESS	4	P@KRELEASE	"V(KRELEASE)" DEQ (RELEASE) A CKPT DS
276	(114)	ADDRESS	4	P@KRESERVE	"V(KRESERVE)" RESERVE A CKPT DATA SET
280	(118)	ADDRESS	4		Reserved

Comment

MODULE HASPCKPT ROUTINES LISTED ALPHABETICALLY

End of Comment

284	(11C)	ADDRESS	4	P@\$BERTFIX	"V(\$BERTFIX)" BERT error detect/correct
288	(120)	ADDRESS	4	P@\$CKPTQUE	"V(\$CKPTQUE)" Queue work to CKPT
292	(124)	ADDRESS	4	P@\$DOGBERT	"V(\$DOGBERT)" BERT processing routine
296	(128)	ADDRESS	4	P@BERTFMT	"V(BERTFMT)" Format the BERT CTENT
300	(12C)	ADDRESS	4	P@BERTMAP	"V(BERTMAP)" Process/Build BERT map
304	(130)	ADDRESS	4	P@KBUPDJQE	"V(KBUPDJQE)" Update JQE fields for BLOB
308	(134)	ADDRESS	4	P@KBUPDSUB	"V(KBUPDSUB)" Update JQETGNBR JQE routine
312	(138)	ADDRESS	4	P@KCPYMSTR	"V(KCPYMSTR)" Copy base info to MASTER or MASTERI
316	(13C)	ADDRESS	4	P@KFORMAT	"V(KFORMAT)" REFORMAT A CHECKPOINT DATASET
320	(140)	ADDRESS	4	P@KGETCHLG	"V(KGETCHLG)" Adjust change log size
324	(144)	ADDRESS	4	P@KIOERROR	"V(KIOERROR)" ISSUE A CKPT I/O ERROR MSG
328	(148)	ADDRESS	4	P@KPRIMW	"V(KPRIMW)" Perform a primary write
332	(14C)	ADDRESS	4	P@KPROTECT	"V(KPROTECT)" Page (un)protect the CKPT
336	(150)	ADDRESS	4	P@KREAD2	"V(KREAD2)" PERFORM READ2 OF CKPT DATA SET
340	(154)	ADDRESS	4	P@KSETMSTR	"V(KSETMSTR)" Set master record pointers
344	(158)	ADDRESS	4	P@KTRK1IO	"V(KTRK1IO)" PERFORM I/O TO TRK1 OF CKPT DS
348	(15C)	ADDRESS	4	P@QWLMSVDF	"V(QWLMSVDF)" Get WLM service definition

Comment

Module HASPCKRR routines listed alphabetically

End of Comment

352	(160)	ADDRESS	4	P@CKRRDONE	"V(CKRRDONE)" Complete MAS CKPT reconfig
356	(164)	ADDRESS	4	P@CKRRINIT	"V(CKRRINIT)" Initialize and create \$CKM
360	(168)	ADDRESS	4	P@CKRRMASK	"V(CKRRMASK)" Build affinity mask to dump
364	(16C)	ADDRESS	4	P@CKRRSTRT	"V(CKRRSTRT)" Start-up MAS CKPT reconfig
368	(170)	ADDRESS	4	P@CKRRSYNC	"V(CKRRSYNC)" Synchronize MAS reconfig

## \$PADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
372	(174)	ADDRESS	4		Reserved for HASPCKRR use
376	(178)	ADDRESS	4		Reserved for HASPCKRR use
380	(17C)	ADDRESS	4		Reserved for HASPCKRR use
384	(180)	ADDRESS	4		Reserved for HASPCKRR use
Comment					
MODULE HASPCKVR ROUTINES LISTED ALPHABETICALLY					
End of Comment					
388	(184)	ADDRESS	4	P@SHRLIVE	"V(SHRLIVE)" SHARE THE NEW LIVE CHECKPOINT
392	(188)	ADDRESS	4	P@UNSHRLIV	"V(UNSHRLIV)" UNSHARE THE LIVE CHECKPOINT
396	(18C)	ADDRESS	4		Reserved
Comment					
Module HASPCNVS routines listed alphabetically					
End of Comment					
400	(190)	ADDRESS	4	P@PROCALCS	"V(PROCALCS)" Subtask PROCLIB allocation
404	(194)	ADDRESS	4	P@XINTKEY	"V(XINTKEY)" Locate internal text string
408	(198)	ADDRESS	4	P@XJDTKEY	"V(XJDTKEY)" Locate internal text string (JDT keyword)
Comment					
Module HASPCNVT routines listed alphabetically					
End of Comment					
412	(19C)	ADDRESS	4	P@PROCALOC	"V(PROCALOC)" Allocate PROCLIB data sets
Comment					
MODULE HASPCOMM ROUTINES LISTED ALPHABETICALLY					
End of Comment					
416	(1A0)	ADDRESS	4	P@\$JCAN	"V(\$JCAN)" Job cancel routine
420	(1A4)	ADDRESS	4	P@CFPARSE	"V(CFPARSE)" Move and parse command
424	(1A8)	ADDRESS	4	P@COFCVE	"V(COFCVE)" ADDR CONVERT TO EBCDIC HALFWORD ROUTINE
428	(1AC)	ADDRESS	4	P@COFEDTR	"V(COFEDTR)" ADDR CONVERT TO EBCDIC FULLWORD ROUTINE
432	(1B0)	ADDRESS	4	P@COFJMSG	"V(COFJMSG)" ADDR JOB INFORMATION MESSAGE ROUTINE
436	(1B4)	ADDRESS	4	P@COFRTC	"V(COFRTC)" ADDR CONVERT TO EBCDIC ROUTE CODE ROUTINE
440	(1B8)	ADDRESS	4	P@COMBEWTO	"V(COMBEWTO)" Branch Entry WTO targeted to executing job
444	(1BC)	ADDRESS	4	P@COMFRELK	"V(COMFRELK)" Free command lock
448	(1C0)	ADDRESS	4	P@CSCANDSP	"V(CSCANDSP)" HASPCOMM \$SCAN DISPLAY ROUTINE, USABLE BY \$SCANS FROM EXIT 5
452	(1C4)	ADDRESS	4	P@CSMICMD	"V(CSMICMD)" HASPCOMM Single member image routine
456	(1C8)	ADDRESS	4	P@CWTO	"V(CWTO)" ADDR WRITE TO OPERATOR RTN
460	(1CC)	ADDRESS	4	P@CWTOT	"V(CWTOT)" ADDR WRITE TO OPERATOR ROUTINE (TRUNC)
464	(1D0)	ADDRESS	4	P@DILJCAN	"V(DILJCAN)" DILBERT'ed call to \$JCAN
468	(1D4)	ADDRESS	4	P@H607RSN	"V(H607RSN)" HASP607 reasons subroutine
Comment					
Module HASPCON routines listed alphabetically					
End of Comment					
472	(1D8)	ADDRESS	4	P@\$DOM	"V(\$DOM)" HASP DOM routine
476	(1DC)	ADDRESS	4	P@\$FRECMB	"V(\$FRECMB)" Free CMB routine
480	(1E0)	ADDRESS	4	P@\$GETCMBR	"V(\$GETCMBR)" Get CMB routine

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
484	(1E4)	ADDRESS	4	P@\$WTO	"V(\$WTO)" \$WTO routine
488	(1E8)	ADDRESS	4	P@\$WTOC	"V(\$WTOC)" \$WTO with CMB routine
492	(1EC)	ADDRESS	4	P@HASPWQUE	"V(HASPWQUE)" Addr of CMB queuing routine for callers that cannot \$WAIT
496	(1F0)	ADDRESS	4	P@HASPWQUW	"V(HASPWQUW)" Addr of CMB queuing routine for callers that can tolerate a \$WAIT

Comment

Module HASPCSV routines, listed alphabetically

End of Comment

500	(1F4)	ADDRESS	4	P@\$MODCHK	"V(\$MODCHK)" Check/resolve-from modules
504	(1F8)	ADDRESS	4	P@\$MODELET	"V(\$MODELET)" Delete a load module
508	(1FC)	ADDRESS	4	P@\$MODLOAD	"V(\$MODLOAD)" Load a load module
512	(200)	ADDRESS	4	P@CSV\$DEL	"V(CSV\$DEL)" Invoke \$\$\$DEL routine
516	(204)	ADDRESS	4	P@CSV\$LOAD	"V(CSV\$LOAD)" Invoke \$\$\$LOAD routine
520	(208)	ADDRESS	4	P@LOCENTRY	"V(LOCENTRY)" Entry point locate routine
524	(20C)	ADDRESS	4	P@LOCLMOD	"V(LOCLMOD)" Locate load module by addr
528	(210)	ADDRESS	4	P@LOCMODMP	"V(LOCMODMP)" Locate MODMAP entry by addr

Comment

MODULE HASPDYN ROUTINES LISTED ALPHABETICALLY -  
BASIC CONTROL BLOCK ADDITION/DELETION SERVICES

End of Comment

532	(214)	ADDRESS	4	P@\$DCBDYN	"V(\$DCBDYN)" DYNAMIC DCB ATTACH/DETACH SERVICE ROUTINE ADDRESS
536	(218)	ADDRESS	4	P@\$DCTDYN	"V(\$DCTDYN)" DYNAMIC DCT ATTACH/DETACH SERVICE ROUTINE ADDRESS
540	(21C)	ADDRESS	4	P@\$DESTDYN	"V(\$DESTDYN)" DEST (RDT) DYNAMIC BUILD RTN
544	(220)	ADDRESS	4	P@\$DTEDYNA	"V(\$DTEDYNA)" \$DTEDYN ATTACH ROUTINE ADDRESS
548	(224)	ADDRESS	4	P@\$DTEDYND	"V(\$DTEDYND)" \$DTEDYN DETACH ROUTINE ADDRESS
552	(228)	ADDRESS	4	P@\$PCEDYDC	"V(\$PCEDYDC)" DYNAMIC PCE ATTACH/DETACH SERVICE FOR A DCT CHAIN
556	(22C)	ADDRESS	4	P@\$PCEDYN	"V(\$PCEDYN)" DYNAMIC PCE ATTACH/DETACH SERVICE ROUTINE ADDRESS
560	(230)	ADDRESS	4	P@PRTDFLT	"V(PRTDFLT)" Printer DCT default routine

Comment

MODULE HASPEVTL ROUTINES LISTED ALPHABETICALLY

End of Comment

564	(234)	ADDRESS	4	P@\$ROLL	"V(\$ROLL)" Entry to create trace entry
568	(238)	ADDRESS	4	P@TRCDUMP	"V(TRCDUMP)" Entry to TRCDUMP routine
572	(23C)	ADDRESS	4	P@TRCPUT	"V(TRCPUT)" Entry to TRCPUT routine
576	(240)	ADDRESS	4	P@TRGETTB	"V(TRGETTB)" OBTAIN MORE ECSA TRACE TABLES

Comment

MODULE HASPEXT ROUTINES LISTED ALPHABETICALLY

End of Comment

580	(244)	ADDRESS	4	P@HASPEXDS	"V(HASPEXDS)" Extend dataset
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Comment

MODULE HASPFSSP ROUTINES LISTED ALPHABETICALLY

End of Comment

584	(248)	ADDRESS	4	P@DYNFSS	"V(DYNFSS)" DYNAMIC FSSCB FIND/ATTACH INTERNAL SERVICE ROUTINE (HASPFSPP)
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## \$PADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Entries to HASP Output Process Executive (HASPPOPE)					
End of Comment					
588	(24C)	ADDRESS	4	P@OPGROUP	"V(OPGROUP)" Grouping routine
592	(250)	ADDRESS	4	P@OPMAILMG	"V(OPMAILMG)" Notify Routine
Comment					
ENTRIES TO HASP JOB OUTPUT SERVICES (HASPJOS)					
End of Comment					
596	(254)	ADDRESS	4	P@\$\$ADD	"V(\$\$ADD)" Entry to JOE add routine
600	(258)	ADDRESS	4	P@\$#ALCHK	"V(\$#ALCHK)" Entry to CHK SPOOL Alloc.
604	(25C)	ADDRESS	4	P@\$#BLD	"V(\$#BLD)" Entry to JOE build routine
608	(260)	ADDRESS	4	P@\$#BUSY	"V(\$#BUSY)" Entry to busy bit set rtn
612	(264)	ADDRESS	4	P@\$#CAN	"V(\$#CAN)" Entry to JOE cancel routine
616	(268)	ADDRESS	4	P@\$#CHK	"V(\$#CHK)" Entry to CHK I/O routine
620	(26C)	ADDRESS	4	P@\$#DISPRO	"V(\$#DISPRO)" Entry to update disposition
624	(270)	ADDRESS	4	P@\$#FORMAT	"V(\$#FORMAT)" Entry to format JOT
628	(274)	ADDRESS	4	P@\$#GET	"V(\$#GET)" Entry to JOE get routine
632	(278)	ADDRESS	4	P@\$#GTNEWS	"V(\$#GTNEWS)" Entry to GET JESNEWS CB
636	(27C)	ADDRESS	4	P@\$#JOTBLD	"V(\$#JOTBLD)" Entry to format the JOT
640	(280)	ADDRESS	4	P@\$#JOTCHK	"V(\$#JOTCHK)" Entry to verify/correct JOT
644	(284)	ADDRESS	4	P@\$#JWEL	"V(\$#JWEL)" Entry to JWEL services
648	(288)	ADDRESS	4	P@\$#MOD	"V(\$#MOD)" Entry to JOE modify routine
652	(28C)	ADDRESS	4	P@\$#NEWS	"V(\$#NEWS)" Entry to create JESNEWS DS
656	(290)	ADDRESS	4	P@\$#POST	"V(\$#POST)" Entry to specific post rtn
660	(294)	ADDRESS	4	P@\$#PUT	"V(\$#PUT)" Entry to JOE put routine
664	(298)	ADDRESS	4	P@\$#RBDCHK	"V(\$#RBDCHK)" Entry to JQE rebuild/free check routine
668	(29C)	ADDRESS	4	P@\$#REM	"V(\$#REM)" Entry to JOE remove routine
672	(2A0)	ADDRESS	4	P@\$#REP	"V(\$#REP)" Entry to JOE replace rtn
676	(2A4)	ADDRESS	4	P@\$#RLNEWS	"V(\$#RLNEWS)" Entry to return JESNEWS CB
680	(2A8)	ADDRESS	4	P@\$#TJEV	"V(\$#TJEV)" SAPI thread hold
684	(2AC)	ADDRESS	4	P@\$#ZAPJOE	"V(\$#ZAPJOE)" Entry to ZAPJOB JOE rtn
688	(2B0)	ADDRESS	4	P@\$#DOGJOE	"V(\$#DOGJOE)" Entry to DOGJOE service
692	(2B4)	ADDRESS	4	P@GTSCREEN	"V(GTSCREEN)" Entry to JOE screen subrtne
696	(2B8)	ADDRESS	4	P@GTSPPOOL	"V(GTSPPOOL)" Entry to chk spools avail
700	(2BC)	ADDRESS	4	P@JOECLUP	"V(JOECLUP)" JOE cleanup
704	(2C0)	ADDRESS	4	P@JOESYNC	"V(JOESYNC)" JOE & JWEL time syncronize
708	(2C4)	ADDRESS	4	P@JOTFRECL	"V(JOTFRECL)" Clean up free JOEs
712	(2C8)	ADDRESS	4	P@JOTVERIF	"V(JOTVERIF)" Entry to JOT verify rtns
716	(2CC)	ADDRESS	4	P@MNENF58	"V(MNENF58)" Entry to Main tsk ENF58 rtn
720	(2D0)	ADDRESS	4	P@SAPIPOST	"V(SAPIPOST)" Entry to SAPIPOST
Comment					
Entries to HASP Job Queue Services (HASPJQS)					
End of Comment					
724	(2D4)	ADDRESS	4	P@\$CLASSIF	"V(\$CLASSIF)" Entry to WLM Classification
728	(2D8)	ADDRESS	4	P@\$DILBERT	"V(\$DILBERT)" Entry to \$DILBERT service
732	(2DC)	ADDRESS	4	P@\$DOGJOB	"V(\$DOGJOB)" Entry to DJB processing
736	(2E0)	ADDRESS	4	P@\$DOGJQE	"V(\$DOGJQE)" Entry to artificial JQE srv
740	(2E4)	ADDRESS	4	P@\$FREJLOK	"V(\$FREJLOK)" Free job lock
744	(2E8)	ADDRESS	4	P@\$GETJLOK	"V(\$GETJLOK)" Get job lock
748	(2EC)	ADDRESS	4	P@\$JQEMERG	"V(\$JQEMERG)" Merge JQA into JQE/JQX
752	(2F0)	ADDRESS	4	P@\$QADD	"V(\$QADD)" Entry to JQE add routine
756	(2F4)	ADDRESS	4	P@\$QBUSY	"V(\$QBUSY)" Entry to busy bit set rtn
760	(2F8)	ADDRESS	4	P@\$QEXTVER	"V(\$QEXTVER)" Entry to verify JQE ext.
764	(2FC)	ADDRESS	4	P@\$QEXTFMT	"V(\$QEXTFMT)" Entry to format JQE ext.
768	(300)	ADDRESS	4	P@\$QFORMAT	"V(\$QFORMAT)" Entry to format JQEs

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
772	(304)	ADDRESS	4	P@\$QGET	"V(\$QGET)" Entry to JQE get routine
776	(308)	ADDRESS	4	P@\$QJIX	"V(\$QJIX)" Entry to JQE JIX routine
780	(30C)	ADDRESS	4	P@\$QLOC	"V(\$QLOC)" Entry to JQE locate routine
784	(310)	ADDRESS	4	P@\$QLOCNXT	"V(\$QLOCNXT)" Locate next JQE in JIX
788	(314)	ADDRESS	4	P@\$QMOD	"V(\$QMOD)" Entry to JQE modify routine
792	(318)	ADDRESS	4	P@\$QPUT	"V(\$QPUT)" Entry to JQE put routine
796	(31C)	ADDRESS	4	P@\$QRBDCHK	"V(\$QRBDCHK)" Entry to JQE rebuild/free check routine
800	(320)	ADDRESS	4	P@\$QREBLD	"V(\$QREBLD)" Entry to job queue rebuild routine
804	(324)	ADDRESS	4	P@\$QREM	"V(\$QREM)" Entry to JQE remove routine
808	(328)	ADDRESS	4	P@\$QVERIF	"V(\$QVERIF)" Entry to job queue verify routine
812	(32C)	ADDRESS	4	P@\$RBLDLOG	"V(\$RBLDLOG)" Entry to rebuild SYSLOG JQE chain routine
816	(330)	ADDRESS	4	P@\$SCHEMSK	"V(\$SCHEMSK)" Entry to SCHENV processing
820	(334)	ADDRESS	4	P@CATDUP	"V(CATDUP)" CAT & DUPJOB reconciliation
824	(338)	ADDRESS	4	P@CATHMAX	"V(CATHMAX)" Entry to CATHMAX processing
828	(33C)	ADDRESS	4	P@CKVREFRS	"V(CKVREFRS)" Refresh checkpoint version
832	(340)	ADDRESS	4	P@DUPJOB	"V(DUPJOB)" Entry to Dup job processing
836	(344)	ADDRESS	4	P@JNRNGCNT	"V(JNRNGCNT)" Job number range counting
840	(348)	ADDRESS	4	P@JOBQSAMP	"V(JOBQSAMP)" Job queue sampling for WLM
844	(34C)	ADDRESS	4	P@JQECAT	"V(JQECAT)" JQE/CAT time reconciliation
848	(350)	ADDRESS	4	P@MNENF70	"V(MNENF70)" Issue job-level ENF
852	(354)	ADDRESS	4	P@QBERTHRE	"V(QBERTHRE)" Determine BERT availability
856	(358)	ADDRESS	4	P@QDECHAIN	"V(QDECHAIN)" Entry to JQE dechain rtne
860	(35C)	ADDRESS	4	P@QJQEVER	"V(QJQEVER)" Entry to JQE address verify routine
864	(360)	ADDRESS	4	P@WLMDEQ	"V(WLMDEQ)" Entry to Dequeue JQE from WLM queue
868	(364)	ADDRESS	4	P@WLMENQ	"V(WLMENQ)" Entry to Enqueue JQE onto WLM queue
872	(368)	ADDRESS	4	P@ZAPJOB	"V(ZAPJOB)" ZAP Job service

Comment

MODULE HASPMISC ROUTINES LISTED ALPHABETICALLY

End of Comment

876	(36C)	ADDRESS	4	P@\$CLASSI4	"V(\$CLASSI4)" Entry to \$CLASSI4 routine
880	(370)	ADDRESS	4	P@ENFPOLCY	"V(ENFPOLCY)" Entry to ENF Policy Activation Support

Comment

MODULE HASPNATS ROUTINES LISTED ALPHABETICALLY

End of Comment

884	(374)	ADDRESS	4	P#\$NATADD	Nodes Attached Table ADD
888	(378)	ADDRESS	4	P@\$NATADD	"V(\$NATADD)" service routine (HASP NATS)
892	(37C)	ADDRESS	4	P@NADRECV	"V(NADRECV)" \$NATADD recovery routine
896	(380)	ADDRESS	4	P#\$NATGET	Nodes Attached Table GET
900	(384)	ADDRESS	4	P@\$NATGET	"V(\$NATGET)" service routine (HASP NATS)
904	(388)	ADDRESS	4	P@NGTREC V	"V(NGTREC V)" \$NATGET recovery routine
908	(38C)	ADDRESS	4	P#\$NATMOD	Nodes Attached Table MODIfy
912	(390)	ADDRESS	4	P@\$NATMOD	"V(\$NATMOD)" service routine (HASP NATS)
916	(394)	ADDRESS	4	P@NMDRECV	"V(NMDRECV)" \$NATMOD recovery routine
920	(398)	ADDRESS	4	P#\$NATNOT	Nodes Attached Table NOTIfy
924	(39C)	ADDRESS	4	P@\$NATNOT	"V(\$NATNOT)" service routine (HASP NATS)
928	(3A0)	ADDRESS	4	P@NNTREC V	"V(NNTREC V)" \$NATNOT recovery routine
932	(3A4)	ADDRESS	4	P#\$NATREM	Nodes Attached Table REMove
936	(3A8)	ADDRESS	4	P@\$NATREM	"V(\$NATREM)" service routine (HASP NATS)
940	(3AC)	ADDRESS	4	P@NRMREC V	"V(NRMREC V)" \$NATREM recovery routine
944	(3B0)	ADDRESS	4	P@\$NATREQ	"V(\$NATREQ)" Requeue NAT to appropriate queue
948	(3B4)	ADDRESS	4	P@NPMVFY	"V(NPMVFY)" Network path manager control block verification service
952	(3B8)	ADDRESS	4	P@NPVDCTV	"V(NPVDCTV)" Verify DCT storage is OK
956	(3BC)	ADDRESS	4		RESERVED FOR FUTURE USE

## \$PADDR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MODULE HASPNET ROUTINES LISTED ALPHABETICALLY					
End of Comment					
960	(3C0)	ADDRESS	4	P@\$FRENHB	"V(\$FRENHB)" Free a header cell
964	(3C4)	ADDRESS	4	P@\$GETNHB	"V(\$GETNHB)" Get a header cell
968	(3C8)	ADDRESS	4	P@\$NITSYNC	"V(\$NITSYNC)" NIT/CKPT serialization
972	(3CC)	ADDRESS	4	P@NJDCINT	"V(NJDCINT)" LINE DCT INITIALIZATION
976	(3D0)	ADDRESS	4	P@NJECHCK	"V(NJECHCK)" Check I/O completion
980	(3D4)	ADDRESS	4	P@NJEHRCV	"V(NJEHRCV)" Receive NJE header
984	(3D8)	ADDRESS	4	P@NJEHDRD	"V(NJEHDRD)" Read NJE header from spool
988	(3DC)	ADDRESS	4	P@NJEHWR	"V(NJEHWR)" Write NJE header to spool
992	(3E0)	ADDRESS	4	P@NJEHDMT	"V(NJEHDMT)" Transmit NJE header
996	(3E4)	ADDRESS	4	P@NJEPUT	"V(NJEPUT)" Write NJE record
1000	(3E8)	ADDRESS	4	P@NJERDCT	"V(NJERDCT)" Clean up receiver jobs
1004	(3EC)	ADDRESS	4	P@NJHBUILD	"V(NJHBUILD)" Build job header
1008	(3F0)	ADDRESS	4	P@NJTBUILD	"V(NJTBUILD)" Build job trailer
1012	(3F4)	ADDRESS	4	P@NSETESS	"V(NSETESS)" Set ESS section of SMF 24/57 record
1016	(3F8)	ADDRESS	4	P@NSJFSPSP	"V(NSJFSPSP)" SWBTU split/splice services
1020	(3FC)	ADDRESS	4	P@NSMFBSIZ	"V(NSMFBSIZ)" Calculate SMF buffer size
Comment					
MODULE HASPNPM ROUTINES LISTED ALPHABETICALLY					
End of Comment					
1024	(400)	ADDRESS	4	P@HASPNSNR	"V(HASPNSNR)" Initiate NJE signon
1028	(404)	ADDRESS	4	P@NCOMMREQ	"V(NCOMMREQ)" Set up NAT from NTQs
1032	(408)	ADDRESS	4	P@NMAPINIT	"V(NMAPINIT)" Initialize Notify Maps
1036	(40C)	ADDRESS	4	P@NPMHOT	"V(NPMHOT)" NPM hot start recharging
1040	(410)	ADDRESS	4	P@NPMQSUSE	"V(NPMQSUSE)" NPM request \$QSUSE
1044	(414)	ADDRESS	4	P@NSETSUBS	"V(NSETSUBS)" Set SUBNET chaining fields in the NIT
1048	(418)	ADDRESS	4		Reserved for future use
1052	(41C)	ADDRESS	4		Reserved for future use
1056	(420)	ADDRESS	4		Reserved for future use
Comment					
MODULE HASPNRM ROUTINES LISTED ALPHABETICALLY					
End of Comment					
1060	(424)	ADDRESS	4	P@NRMAJUST	"V(NRMAJUST)" Reset NRM STIMER
Comment					
MODULE HASPNUC ROUTINES LISTED ALPHABETICALLY					
End of Comment					
1064	(428)	ADDRESS	4	P@\$BFRBLD	"V(\$BFRBLD)" Buffer build routine
1068	(42C)	ADDRESS	4	P@\$CBIOM	"V(\$CBIOM)" I/O FOR JES2 CONTROL BLOCKS
1072	(430)	ADDRESS	4	P@\$CHECK	"V(\$CHECK)" CHECK COMPLETION OF A CKPT WRT
1076	(434)	ADDRESS	4	P@\$CKPT	"V(\$CKPT)" SCHED CKPT FOR AN ALTERED ELMT
1080	(438)	ADDRESS	4	P@\$DSCLOSE	"V(\$DSCLOSE)" Entry to \$DSCLOSE routine
1084	(43C)	ADDRESS	4	P@\$DSOPEN	"V(\$DSOPEN)" Entry to \$DSOPEN routine
1088	(440)	ADDRESS	4	P@\$DSPUT	"V(\$DSPUT)" Entry to \$DSPUT routine
1092	(444)	ADDRESS	4	P@\$DYN	"V(\$DYN)" Dynamic allocate/unallocate
1096	(448)	ADDRESS	4	P@\$DYNLERR	"V(\$DYNLERR)" DYNALOC error routine
1100	(44C)	ADDRESS	4	P@\$EXCP	"V(\$EXCP)" EXCP routine
1104	(450)	ADDRESS	4	P@\$EXTP	"V(\$EXTP)" RTAM service routines
1108	(454)	ADDRESS	4	P@\$FREEBFR	"V(\$FREEBFR)" Free a buffer
1112	(458)	ADDRESS	4	P@\$FRELOK	"V(\$FRELOK)" Free CMS lock
1116	(45C)	ADDRESS	4	P@\$FRESMF	"V(\$FRESMF)" Free an SMF buffer

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1120	(460)	ADDRESS	4	P@\$FREUCBS	"V(\$FREUCBS)" Free storage for UPL
1124	(464)	ADDRESS	4	P@\$FREUNIT	"V(\$FREUNIT)" HASP unit 'FREE' routine
1128	(468)	ADDRESS	4	P@\$GETBUFR	"V(\$GETBUFR)" Get a buffer
1132	(46C)	ADDRESS	4	P@\$GETLOK	"V(\$GETLOK)" Get CMS lock
1136	(470)	ADDRESS	4	P@\$GETSAVE	"V(\$GETSAVE)" Get a \$SAVE area
1140	(474)	ADDRESS	4	P@\$GETSMF	"V(\$GETSMF)" Get SMF buffer
1144	(478)	ADDRESS	4	P@\$GETUCBS	"V(\$GETUCBS)" Obtain UCB address
1148	(47C)	ADDRESS	4	P@\$GETUNIT	"V(\$GETUNIT)" HASP unit 'GET' routine
1152	(480)	ADDRESS	4	P@\$GETWORK	"V(\$GETWORK)" Get a work area
1156	(484)	ADDRESS	4	P@\$GFMAIN	"V(\$GFMAIN)" ENTRY TO GET/FREE STG RTN
1160	(488)	ADDRESS	4	P@\$IOTCNT	"V(\$IOTCNT)" Entry to daughter count
1164	(48C)	ADDRESS	4	P@\$JESEFF	"V(\$JESEFF)" JES2 Exit effector
1168	(490)	ADDRESS	4	P@\$PAWS	"V(\$PAWS)" PAWS (pause) a PCE
1172	(494)	ADDRESS	4	P@\$PGSRVC	"V(\$PGSRVC)" PAGE SERVICE ROUTINE
1176	(498)	ADDRESS	4	P@\$POST	"V(\$POST)" POST SPECIFIC EVENT ROUTINE
1180	(49C)	ADDRESS	4	P@\$POSTSUB	"V(\$POSTSUB)" Subtask post service
1184	(4A0)	ADDRESS	4	P@\$QSUSE	"V(\$QSUSE)" Entry to \$QSUSE support
1188	(4A4)	ADDRESS	4	P@\$QUESMF	"V(\$QUESMF)" Queue SMF buffer
1192	(4A8)	ADDRESS	4	P@\$RETSAVE	"V(\$RETSAVE)" Save area free routine
1196	(4AC)	ADDRESS	4	P@\$RETURN	"V(\$RETURN)" Return a \$SAVE area
1200	(4B0)	ADDRESS	4	P@\$RETWORK	"V(\$RETWORK)" Return a work area
1204	(4B4)	ADDRESS	4	P@\$SEAS	"V(\$SEAS)" ENTRY TO SECURITY AUTH RTN
1208	(4B8)	ADDRESS	4	P@\$SEASMSG	"V(\$SEASMSG)" ISSUE THE 077 MESSAGE
1212	(4BC)	ADDRESS	4	P@\$STCK	"V(\$STCK)" HASP store clock routine
1216	(4C0)	ADDRESS	4	P@\$STCKFMT	"V(\$STCKFMT)" HASP store clock conversion
1220	(4C4)	ADDRESS	4	P@\$STIMER	"V(\$STIMER)" HASP set timer routine
1224	(4C8)	ADDRESS	4	P@\$SUBIT	"V(\$SUBIT)" SUBTASK WORK QUEUING RTN
1228	(4CC)	ADDRESS	4	P@\$TTIMER	"V(\$TTIMER)" HASP test timer routine
1232	(4D0)	ADDRESS	4	P@\$WAIT	"V(\$WAIT)" WAIT FOR AN EVENT ROUTINE
1236	(4D4)	ADDRESS	4	P@\$XECBKIL	"V(\$XECBKIL)" XECB DE-CHAINING ROUTINE
1240	(4D8)	ADDRESS	4	P@\$GETEVNTR	"V(\$GETEVNTR)" Get an event record CB
1244	(4DC)	ADDRESS	4	P@\$GETJOBKY	"V(\$GETJOBKY)" Obtain a jobkey
1248	(4E0)	ADDRESS	4	P@\$MOD875	"V(\$MOD875)" ISSUE \$HASP875 MESSAGE
1252	(4E4)	ADDRESS	4	P@\$SUBDEST	"V(\$SUBDEST)" SUBTASK A \$DESTCHK CALL

Comment

ENTRIES TO HASP SWB MODIFY SUBTASK (HASPODSM)

End of Comment

1256	(4E8)	ADDRESS	4	P#\$WBMSUB	SWB MODIFY SUBTASK PC NUM
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Comment

Entries to HASP Process Sysout (HASPPSO)

End of Comment

1260	(4EC)	ADDRESS	4	P@\$TREGROUP	"V(\$TREGROUP)" Regroup PDDB
1264	(4F0)	ADDRESS	4	P@\$PSOFRELK	"V(\$PSOFRELK)" Free job lock and JOE busy

Comment

MODULE HASPRAS ROUTINES LISTED ALPHABETICALLY

End of Comment

1268	(4F4)	ADDRESS	4	P@\$DISTERR	"V(\$DISTERR)" Disastrous error routine
1272	(4F8)	ADDRESS	4	P@\$ESTACAN	"V(\$ESTACAN)" ENTRY TO \$ESTAE CANCEL RTN
1276	(4FC)	ADDRESS	4	P@\$ESTAER	"V(\$ESTAER)" ENTRY TO \$ESTAE ESTAB. RTN
1280	(500)	ADDRESS	4	P@\$ESTAREP	"V(\$ESTAREP)" ENTRY TO \$ESTAE REPLACE RTN
1284	(504)	ADDRESS	4	P@\$IOERROR	"V(\$IOERROR)" I/O error logging routine
1288	(508)	ADDRESS	4	P@\$SSDUMP	"V(\$SSDUMP)" SVC dump routine

## \$PADDR Map

Offsets						
Dec	Hex	Type/Value	Len	Name (Dim)	Description	
Comment						
Module HASPRDR routines listed alphabetically						
End of Comment						
1292	(50C)	ADDRESS	4	P@RDRPDCUP	"V(RDRPDCUP)" NJE/RJE reader cleanup rtn	
1296	(510)	ADDRESS	4	P@RINTJOB	"V(RINTJOB)" Create Internal Job service	
Comment						
MODULE HASPRTAM ROUTINES LISTED ALPHABETICALLY						
End of Comment						
1300	(514)	ADDRESS	4	P@\$REQBUF	"V(HASPRBUF)" Entry to requeue buffers and request ckpt	
1304	(518)	ADDRESS	4	P@\$REQBFN	"V(HASPRBFN)" Entry to requeue bfrs without requesting ckpt	
1308	(51C)	ADDRESS	4	P@LNEAVRJE	"V(LNEAVRJE)" Check if Line avail for RJE	
1312	(520)	ADDRESS	4	P@MLMRCPL	"V(MLMRCPL)" Rebuild PCL chains	
1316	(524)	ADDRESS	4	P@MSAFCHK	"V(MSAFCHK)" SAF CALL FOR LM AND RCP	
1320	(528)	ADDRESS	4	P@RMTDVINT	"V(RMTDVINT)" Initialize Rmt Device DCT	
1324	(52C)	ADDRESS	4	P@RMTDVSET	"V(RMTDVSET)" Setup Rmt Device DCT	
1328	(530)	ADDRESS	4	P@RMTLNECK	"V(RMTLNECK)" Check Rmt Line setting	
1332	(534)	ADDRESS	4	P@RMTSETUP	"V(RMTSETUP)" Setup RMT Parameters	
Comment						
Module HASPSASR Routines listed alphabetically						
End of Comment						
1336	(538)	ADDRESS	4	P@SAIHOT	"V(SAIHOT)" SAPI Hot Start Processing	
1340	(53C)	ADDRESS	4	P@SAIRECC	"V(SAIRECC)" Update record/page counts	
Comment						
MODULE HASPSERV ROUTINES LISTED ALPHABETICALLY						
End of Comment						
1344	(540)	ADDRESS	4	P@ADDCTQ	"V(ADDCTQ)" Addr Add DCT to Q routine	
1348	(544)	ADDRESS	4	P@CALCBRTN	"V(CALCBRTN)" ADDR CALC BERTNUM value	
1352	(548)	ADDRESS	4	P@CFJOED	"V(CFJOED)" ADDR JOE DISPLAY ROUTINE	
1356	(54C)	ADDRESS	4	P@IVATE	"V(IVATE)" Addr of \$ACTIVATE routine	
1360	(550)	ADDRESS	4	P@RBLDCTQ	"V(RBLDCTQ)" Addr Rebuild DCT Q rtn	
1364	(554)	ADDRESS	4	P@REMDCTQ	"V(REMDCTQ)" Addr Remove DCT from Q rtn	
1368	(558)	ADDRESS	4	P@ROTDCTQ	"V(ROTDCTQ)" Addr Rotate DCT on Q rtn	
1372	(55C)	ADDRESS	4	P@SRVCFSEL	"V(SRVCFSEL)" Addr of \$CFSEL service rtn	
1376	(560)	ADDRESS	4	P@SRVDCTD	"V(SRVDCTD)" ADDR DEVICE CONTROL TABLE DISPLAY ROUTINE	
1380	(564)	ADDRESS	4	P@SRVFNDCR	"V(SRVFNDCR)" ADDR OF FIND CRI ROUTINE	
1384	(568)	ADDRESS	4	P@SRVMOD	"V(SRVMOD)" ADDR MODIFY JOB/SYSOUT CHARS ROUTINE	
1388	(56C)	ADDRESS	4	P@SRVM630	"V(SRVM630)" Addr of routine to format \$HASP630 message	
1392	(570)	ADDRESS	4	P@SRVOLOC	"V(SRVOLOC)" ADDR LOCATE DAS DATA SET DSECT ROUTINE	
1396	(574)	ADDRESS	4	P@SRVPREFX	"V(SRVPREFX)" ADDR DEFINE PREFIX TO MCS ROUTINE	
1400	(578)	ADDRESS	4		Reserved for future use	
1404	(57C)	ADDRESS	4	P@SRVRDIR	"V(SRVRDIR)" ADDR OF ROUTINE TO REDIRECT COMMAND RESPONSES	
1408	(580)	ADDRESS	4	P@SRVROUT	"V(SRVROUT)" ADDR CONVERT TO BINARY ROUTE CODE ROUTINE	
1412	(584)	ADDRESS	4	P@SRVSASCN	"V(SRVSASCN)" ADDR SYS AFFINITY SCAN RTN	
1416	(588)	ADDRESS	4	P@SRVSETUP	"V(SRVSETUP)" ADDR WORK SELECT SET UP RTN	
1420	(58C)	ADDRESS	4	P@SRVWSCAN	"V(SRVWSCAN)" ADDR WORK SELECT SCAN RTN	
1424	(590)	ADDRESS	4	P@SUBRRT	"V(SUBRRT)" SUBTASK \$RROUTE ROUTINE	
1428	(594)	ADDRESS	4	P@VETIVATE	"V(VETIVATE)" Check \$ACTIVATE viability routine	



Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
1432	(598)	ADDRESS	4	P@WS2	"V(WS2)" Work selection control block errors
1436	(59C)	ADDRESS	4		RESERVED FOR FUTURE USE
1440	(5A0)	ADDRESS	4		RESERVED FOR FUTURE USE

Comment

MODULE HASPSIR ROUTINES LISTED ALPHABETICALLY

End of Comment

1444	(5A4)	ADDRESS	4	P@\$IOTERR	"V(\$IOTERR)" Spin IOT error recovery routine
1448	(5A8)	ADDRESS	4	P@ISSWTO	"V(ISSWTO)" \$HASP394 Output Lost message routine

Comment

MODULE HASPSNA ROUTINES LISTED ALPHABETICALLY

End of Comment

1452	(5AC)	ADDRESS	4	P@APPLDYN	"V(APPLDYN)" DYNAMIC APT LOOKUP/ATTACH SERVICE ROUTINE (HASPSNA)
1456	(5B0)	ADDRESS	4	P@SNASNET	"V(SNASNET)" START NETWORKING (\$SN) COMMAND EXIT FOR SNA (HASPSNA)

Comment

MODULE HASPSPIN ROUTINES LISTED ALPHABETICALLY

End of Comment

1460	(5B4)	ADDRESS	4	P@SPCIOT	"V(SPCIOT)" Spin IOT in CSA (LIFO/FIFO) check routine
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Comment

MODULE HASPSPOL ROUTINES LISTED ALPHABETICALLY

End of Comment

1464	(5B8)	ADDRESS	4	P@\$DASFMT	"V(\$DASFMT)" FORMAT new DASes
1468	(5BC)	ADDRESS	4	P@\$DOGMIG	"V(\$DOGMIG)" Entry to MIG processing
1472	(5C0)	ADDRESS	4	P@DADADDWQ	"V(DADADDWQ)" Add DAS to DAS work queue
1476	(5C4)	ADDRESS	4	P@DADAVAIL	"V(DADAVAIL)" DAS TG COUNT ROUTINE
1480	(5C8)	ADDRESS	4	P@DADCKALL	"V(DADCKALL)" Check command status rtn
1484	(5CC)	ADDRESS	4	P@DADCKTGM	"V(DADCKTGM)" TGM CKPT ROUTINE
1488	(5D0)	ADDRESS	4	P@DADCOUNT	"V(DADCOUNT)" FREE TG COUNTING ROUTINE
1492	(5D4)	ADDRESS	4	P@DADDEB	"V(DADDEB)" DAS DEB EXT. INIT ROUTINE
1496	(5D8)	ADDRESS	4	P@DADEXIST	"V(DADEXIST)" Determine if DAS exists
1500	(5DC)	ADDRESS	4	P@DADREMVE	"V(DADREMVE)" REMOVE DAS FROM QUEUES RTN
1504	(5E0)	ADDRESS	4	P@DADREMWWQ	"V(DADREMWWQ)" REMOVE DAS FROM WORK Q RTN
1508	(5E4)	ADDRESS	4	P@DADSTUNT	"V(DADSTUNT)" Deal with stunted volumes
1512	(5E8)	ADDRESS	4	P@DADSPLST	"V(DADSPLST)" RESET SPL CONTROL BLOCK RTN
1516	(5EC)	ADDRESS	4	P@DADTGM	"V(DADTGM)" DAS TGM UPDATE ROUTINE
1520	(5F0)	ADDRESS	4	P@DADTGMSP	"V(DADTGMSP)" Get TGM Space, Last DAS Rtn
1524	(5F4)	ADDRESS	4	P@DADXTENT	"V(DADXTENT)" DAS EXTENT INIT ROUTINE
1528	(5F8)	ADDRESS	4	P@MIGRRECV	"V(MIGRRECV)" Migration recovery/restart
1532	(5FC)	ADDRESS	4	P@RCDSYNC	"V(RCDSYNC)" Initialize RECYDAS
1536	(600)	ADDRESS	4	P@SIGIO	"V(SIGIO)" Signature I/O Routine
1540	(604)	ADDRESS	4	P@SNFQUE	"V(SNFQUE)" Sniffer BLOB Queueing Rtn
1544	(608)	ADDRESS	4	P@SNFQBLD	"V(SNFQBLD)" Build SNFQUE rtn
1548	(60C)	ADDRESS	4	P@SNFQPST	"V(SNFQPST)" Queue SNFQUE rtn

Comment

MODULE HASPSSRV ROUTINES LISTED ALPHABETICALLY

End of Comment

1552	(610)	ADDRESS	4	P@\$RROUTE	"V(\$RROUTE)" RROUTE CMD AUTH ROUTINE
1556	(614)	ADDRESS	4	P@EXTDCTSL	"V(EXTDCTSL)" Extract DCT SECLABEL

## \$PADDR Map

### Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
1560	(618)	ADDRESS	4	P@NEWSCRE	"V(NEWSCRE)" JESNEWS Dataset creation
1564	(61C)	ADDRESS	4	P@PSAFSCAN	"V(PSAFSCAN)" PDDB SCAN AND SAF CALL RTN
Comment					
Module HASPSTUB routines listed alphabetically					
End of Comment					
1568	(620)	ADDRESS	4	P@CFPOST	"V(CFPOST)" \$\$POST checkpoint
Comment					
Module HASPSXIT routines listed alphabetically					
End of Comment					
1572	(624)	ADDRESS	4	P@LPRMLIBP	"V(LPRMLIBP)" LOGICAL PARMLIB PROCESSING
1576	(628)	ADDRESS	4	P@QQSESTAT	"V(QQSESTAT)" QSE state
Comment					
Module HASPTABS routines listed alphabetically					
End of Comment					
1580	(62C)	ADDRESS	4	P@\$GETABLE	"V(\$GETABLE)" HASPTABS - \$GETABLE service
1584	(630)	ADDRESS	4	P@\$PUTABLE	"V(\$PUTABLE)" HASPTABS - \$PUTABLE service
1588	(634)	ADDRESS	4	P@\$RETABLE	"V(\$RETABLE)" HASPTABS - \$RETABLE service
Comment					
Module HASPTCP routines listed alphabetically					
End of Comment					
1592	(638)	ADDRESS	4	P@CNVIPAD	"V(CNVIPAD)" IP ADDRESS CONVERASION
1596	(63C)	ADDRESS	4	P@SOCKDYN	"V(SOCKDYN)" DYNAMIC SCK LOOKUP/ATTACH
1600	(640)	ADDRESS	4	P@TCPSNET	"V(TCPSNET)" START TCP/IP NJE
Comment					
Module HASPTERM routines listed alphabetically					
End of Comment					
1604	(644)	ADDRESS	4	P@\$ABEND	"V(\$ABEND)" JES2 Main task recovery rtn
1608	(648)	ADDRESS	4	P@\$HEXIT	"V(\$HEXIT)" Normal JES2 termination
1612	(64C)	ADDRESS	4	P@\$PCABEND	"V(\$PCABEND)" JES2 PC recovery routine
1616	(650)	ADDRESS	4	P@ABNDRATE	"V(ABNDRATE)" Determine ABEND rate
1620	(654)	ADDRESS	4	P@HEXTINIT	"V(HEXTINIT)" Termination for HASPINIT
1624	(658)	ADDRESS	4	P@WTORTIMR	"V(WTORTIMR)" Waits for a WTOR with a timer
Comment					
Module HASPTRAK routines listed alphabetically					
End of Comment					
1628	(65C)	ADDRESS	4	P@\$BLDTGB	"V(\$BLDTGB)" Queue TGBs
1632	(660)	ADDRESS	4	P@\$PURGER	"V(\$PURGER)" Release IOT tracks
1636	(664)	ADDRESS	4	P@\$TGMIG	"V(\$TGMIG)" Transpose Source->target TGM bits.
1640	(668)	ADDRESS	4	P@\$TGMSET	"V(\$TGMSET)" Set trackgroup map
1644	(66C)	ADDRESS	4	P@\$TRACK	"V(\$TRACK)" Get SPOOL space
1648	(670)	ADDRESS	4	P@COMLOPER	"V(COMLOPER)" L= PROCESSING
1652	(674)	ADDRESS	4	P@PURMASC	"V(PURMASC)" Purge single TGAE

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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Comment

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 Module HASPWARM routines listed alphabetically  
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End of Comment

1656	(678)	ADDRESS	4	P@NQPSOQ	"V(NQPSOQ)" Purge Status/Cancel and PSO queues routine
1660	(67C)	ADDRESS	4	P@NQRELSE	"V(NQRELSE)" Release duplicate jobs

Comment

Module HASPXCF routines listed alphabetically

End of Comment

1664	(680)	ADDRESS	4	P@MSTNTFY	"V(MSTNTFY)" Member state change notify
1668	(684)	ADDRESS	4	P@\$MSTNTFY	"V(\$MSTNTFY)" Same for JES2 environment
1672	(688)	ADDRESS	4	P@\$TQLEVEL	"V(\$TQLEVEL)" Test MAS levels (main task)
1676	(68C)	ADDRESS	4	P@\$TQLVLS	"V(\$TQLVLS)" Test MAS levels (subtask)
1680	(690)	ADDRESS	4	P@XCFBCAST	"V(XCFBCAST)" Broadcast an XCF message
1684	(694)	ADDRESS	4	P@XCFDHOMO	"V(XCFDHOMO)" Determine Homogeneity
1688	(698)	ADDRESS	4	P@XCFJOIN	"V(XCFJOIN)" Member joins XCF group
1692	(69C)	ADDRESS	4	P@XCFLEAVE	"V(XCFLEAVE)" Member leaves XCF group
1696	(6A0)	ADDRESS	4	P@XCFMAPEV	"V(XCFMAPEV)" Map XCF events to QSE
1700	(6A4)	ADDRESS	4	P@XCFMSTAT	"V(XCFMSTAT)" Query all members status
1704	(6A8)	ADDRESS	4	P@XCFQSTAT	"V(XCFQSTAT)" Query a members status
1708	(6AC)	ADDRESS	4	P@XCFUSTAT	"V(XCFUSTAT)" Update the user status
1712	(6B0)	ADDRESS	4	P@XCFXMAQU	"V(XCFXMAQU)" Update a members XMAQ

Comment

Module HASPXEQ routines listed alphabetically

End of Comment

1716	(6B4)	ADDRESS	4	P@\$ASDXCLR	"V(\$ASDXCLR)" ASDS entry clear
1720	(6B8)	ADDRESS	4	P@\$ASDXUPD	"V(\$ASDXUPD)" ASDS entry update
1724	(6BC)	ADDRESS	4	P@\$CATINIT	"V(\$CATINIT)" Set CATs in BERTs
1728	(6C0)	ADDRESS	4	P@\$CATJCNT	"V(\$CATJCNT)" Reset xeq count in CAT
1732	(6C4)	ADDRESS	4	P@\$CRWSCQ	"V(\$CRWSCQ)" Create WSC
1736	(6C8)	ADDRESS	4	P@\$CREGWLM	"V(\$CREGWLM)" Register WLM class
1740	(6CC)	ADDRESS	4	P@\$DMNDJOB	"V(\$DMNDJOB)" Demand job start/test
1744	(6D0)	ADDRESS	4	P@\$DOGCAT	"V(\$DOGCAT)" Deliver or Get CAT
1748	(6D4)	ADDRESS	4	P@\$DOGWSCQ	"V(\$DOGWSCQ)" Deliver or Get WSC
1752	(6D8)	ADDRESS	4	P@\$PLEXREG	"V(\$PLEXREG)" JESplex queue registration
1756	(6DC)	ADDRESS	4	P@XPURJWEL	"V(XPURJWEL)" Purge JWELs for AS

Comment

COMPATIBILITY  
 Remove after all z8

End of Comment

1760	(6E0)	ADDRESS	4	P@DUPTRANS	"V(DUPTRANS)" Transition for duplicate jobs pre-z8 to all z8
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Comment

End Compat code

End of Comment

1764	(6E4)	ADDRESS	4	P@HASP051	"V(HASP051)" BERT Shortage message
1768	(6E8)	ADDRESS	4	P@MODESWIT	"V(MODESWIT)" Mode switch for class queue
1772	(6EC)	ADDRESS	4	P@TIMECLOC	"V(TIMECLOC)" Manage JQE timers
1776	(6F0)	ADDRESS	4	P@WLMGOALS	"V(WLMGOALS)" Compute WLM goals

## \$PADDR Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1780	(6F4)	ADDRESS	4	P@XDUPTTEST	"V(XDUPTTEST)" Check for duplicates
1784	(6F8)	ADDRESS	4	P@XINSTART	"V(XINSTART)" Start an initiator
1788	(6FC)	ADDRESS	4	P@XPOSTXEQ	"V(XPOSTXEQ)" EXEC PCE POST routine
1792	(700)	ADDRESS	4		RESERVED FOR FUTURE USE
1796	(704)	ADDRESS	4		RESERVED FOR FUTURE USE
1800	(708)	ADDRESS	4		RESERVED FOR FUTURE USE
1804	(70C)	ADDRESS	4		RESERVED FOR FUTURE USE
1804	(70C)	X'710'	0	PADDRLEN	"*-PADDR" Length of the PADDR table

## \$PADDR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
P#\$NATADD	374		P@\$DESTDYN	21C	
P#\$NATGET	380		P@\$DILBERT	2D8	
P#\$NATMOD	38C		P@\$DISTERR	4F4	
P#\$NATNOT	398		P@\$DMNDJOB	6CC	
P#\$NATREM	3A4		P@\$DOGBERT	124	
P#\$SWBMSUB	4E8		P@\$DOGCAT	6D0	
P@\$#ADD	254		P@\$DOGDJB	2DC	
P@\$#ALCHK	258		P@\$DOGJOE	2B0	
P@\$#BLD	25C		P@\$DOGJQE	2E0	
P@\$#BUSY	260		P@\$DOGMIG	5BC	
P@\$#CAN	264		P@\$DOGWSCQ	6D4	
P@\$#CHK	268		P@\$DOM	1D8	
P@\$#DISPRO	26C		P@\$DSCLOSE	438	
P@\$#FORMAT	270		P@\$DSOPEN	43C	
P@\$#GET	274		P@\$DSPUT	440	
P@\$#GTNEWS	278		P@\$DTEDYNA	220	
P@\$#JOTBLD	27C		P@\$DTEDYND	224	
P@\$#JOTCHK	280		P@\$DYN	444	
P@\$#JWEL	284		P@\$DYNLERR	448	
P@\$#MOD	288		P@\$ESTACAN	4F8	
P@\$#NEWS	28C		P@\$ESTAER	4FC	
P@\$#POST	290		P@\$ESTAREP	500	
P@\$#PUT	294		P@\$EXCP	44C	
P@\$#RBDCHK	298		P@\$EXTP	450	
P@\$#REM	29C		P@\$FRECMB	1DC	
P@\$#REP	2A0		P@\$FREEBFR	454	
P@\$#RLNEWS	2A4		P@\$FREJLOK	2E4	
P@\$#TJEV	2A8		P@\$FRELOK	458	
P@\$#ZAPJOE	2AC		P@\$FRENHB	3C0	
P@\$ABEND	644		P@\$FRESMF	45C	
P@\$ASDXCLR	6B4		P@\$FREUCBS	460	
P@\$ASDXUPD	6B8		P@\$FREUNIT	464	
P@\$BERTFIX	11C		P@\$GETABLE	62C	
P@\$BFRBLD	428		P@\$GETBUFR	468	
P@\$BLDTGB	65C		P@\$GETCMBR	1E0	
P@\$CATINIT	6BC		P@\$GETJLOK	2E8	
P@\$CATJCNT	6C0		P@\$GETLOK	46C	
P@\$CBIOM	42C		P@\$GETNHB	3C4	
P@\$CDCTDYN	8C		P@\$GETSAVE	470	
P@\$CFTRACE	CC		P@\$GETSMF	474	
P@\$CHECK	430		P@\$GETUCBS	478	
P@\$CKPT	434		P@\$GETUNIT	47C	
P@\$CKPTQUE	120		P@\$GETWORK	480	
P@\$CLASSIF	2D4		P@\$GFMAIN	484	
P@\$CLASSI4	36C		P@\$HEXIT	648	
P@\$CNITNOT	90		P@\$IOERROR	504	
P@\$CREGWLM	6C8		P@\$IOTCNT	488	
P@\$CRWSCQ	6C4		P@\$IOTERR	5A4	
P@\$DASFMT	5B8		P@\$JCAN	1A0	
P@\$DCBDYN	214		P@\$JESEFF	48C	
P@\$DCTDYN	218		P@\$JQEMERG	2EC	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
P@\$MODCHK	1F4		P@ABNDRATE	650	
P@\$MODELET	1F8		P@ADDCTQ	540	
P@\$MODLOAD	1FC		P@APLDYN	5AC	
P@\$MSTNTFY	684		P@ARODREG	80	
P@\$NATADD	378		P@AROQRYA	84	
P@\$NATGET	384		P@BERTFMT	128	
P@\$NATMOD	390		P@BERTMAP	12C	
P@\$NATNOT	39C		P@CALCBRTN	544	
P@\$NATREM	3A8		P@CATDUP	334	
P@\$NATREQ	3B0		P@CATHMAX	338	
P@\$NITSYNC	3C8		P@CFALOC	94	
P@\$PAWS	490		P@CFBLDLST	98	
P@\$PCABEND	64C		P@CFCOMP	A0	
P@\$PCEDYDC	228		P@CFDELETE	9C	
P@\$PCEDYN	22C		P@CFEVEN	A4	
P@\$PGSRVC	494		P@CFFCOMP	AC	
P@\$PLEXREG	6D8		P@CFFORMAT	B4	
P@\$POST	498		P@CFJOED	548	
P@\$POSTSUB	49C		P@CFNOTIFY	A8	
P@\$PURGER	660		P@CFPARSE	1A4	
P@\$PUTABLE	630		P@CFPOST	620	
P@\$QADD	2F0		P@CFPURGE	DC	
P@\$QBUSY	2F4		P@CFQLOCK	B8	
P@\$QEXTFMT	2FC		P@CFQUERY	BC	
P@\$QEXTVER	2F8		P@CFRDATA	C0	
P@\$QFORMAT	300		P@CFRDLEC	B0	
P@\$QGET	304		P@CFRDLIST	D0	
P@\$QJIX	308		P@CFRDONE	C4	
P@\$QLOC	30C		P@CFREAD2	D8	
P@\$QLOCNXT	310		P@CFREL	C8	
P@\$QMOD	314		P@CFRESV	D4	
P@\$QPUT	318		P@CFSTRTIO	E0	
P@\$QRBDCHK	31C		P@CFTRK1IO	E4	
P@\$QREBLD	320		P@CFUNAL	E8	
P@\$QREM	324		P@CFWRINPL	EC	
P@\$QSUSE	4A0		P@CFWRITE	F0	
P@\$QUESMF	4A4		P@CKBINIT	F4	
P@\$QVERIF	328		P@CKPALCLN	F8	
P@\$RBLDLOG	32C		P@CKPTALOC	FC	
P@\$REQBUF	514		P@CKPTUNAL	100	
P@\$REQBUFN	518		P@CKPTVSIZ	104	
P@\$RROUTE	610		P@CKPTXPND	108	
P@\$RETABLE	634		P@CKRRDONE	160	
P@\$RETSAVE	4A8		P@CKRRINIT	164	
P@\$RETURN	4AC		P@CKRRMASK	168	
P@\$RETNWORK	4B0		P@CKRRSTRT	16C	
P@\$ROLL	234		P@CKRRSYNC	170	
P@\$SCHEMSK	330		P@CKVREFRS	33C	
P@\$SDUMP	508		P@CNVIPAD	638	
P@\$SEAS	4B4		P@COFCVE	1A8	
P@\$SEASMSG	4B8		P@COFEDTR	1AC	
P@\$STCK	4BC		P@COFJMSG	1B0	
P@\$STCKFMT	4C0		P@COFRTC	1B4	
P@\$STIMER	4C4		P@COMBEWTO	1B8	
P@\$SUBIT	4C8		P@COMFRELK	1BC	
P@\$TGMMIG	664		P@COMLOPER	670	
P@\$TGMSET	668		P@CSCANDSP	1C0	
P@\$TQLEVEL	688		P@CSMICMD	1C4	
P@\$TQLVLS	68C		P@CSV\$DEL	200	
P@\$TRACK	66C		P@CSV\$LOAD	204	
P@\$TTIMER	4CC		P@CWTO	1C8	
P@\$WAIT	4D0		P@CWTOT	1CC	
P@\$WTO	1E4		P@DADADDWQ	5C0	
P@\$WTOC	1E8		P@DADAVAIL	5C4	
P@\$XECBKIL	4D4		P@DADCKALL	5C8	

## \$PADDR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
P@DADCKTGM	5CC		P@KFORMAT	13C	
P@DADCOUNT	5D0		P@KGETCHLG	140	
P@DADDEB	5D4		P@KIOERROR	144	
P@DADEXIST	5D8		P@KPRIMW	148	
P@DADREMVE	5DC		P@KPROTECT	14C	
P@DADREMWF	5E0		P@KREAD2	150	
P@DADSPLST	5E8		P@KRELEASE	110	
P@DADSTUNT	5E4		P@KRESERVE	114	
P@DADTGM	5EC		P@KSETMSTR	154	
P@DADTGMSP	5F0		P@KTRK1IO	158	
P@DADXTENT	5F4		P@LNEAVRJE	51C	
P@DILJCAN	1D0		P@LOCENTRY	208	
P@DUPJOB	340		P@LOCLMOD	20C	
P@DUPTRANS	6E0		P@LOCMODMP	210	
P@DYNFSS	248		P@LPRMLIBP	624	
P@ENFPOLCY	370		P@MIGRRECV	5F8	
P@EXTDCTSL	614		P@MLMRCPL	520	
P@GETEVNTR	4D8		P@MLMVFY	7C	
P@GETJOBKY	4DC		P@MNENF58	2CC	
P@GTSCREEN	2B4		P@MNENF70	350	
P@GTSPOOL	2B8		P@MODESWIT	6E8	
P@HASPBACT	24		P@MOD875	4E0	
P@HASPBPPO	20		P@MPURIO	88	
P@HASPBCA	C		P@MSAFCHK	524	
P@HASPBSLN	2C		P@MSTNTFY	680	
P@HASPBUPT	28		P@NADRECV	37C	
P@HASPEXDS	244		P@NCOMMREQ	404	
P@HASPNSNR	400		P@NEWSCRE	618	
P@HASPROUT	10		P@NGTREC	388	
P@HASPSACB	44		P@NJDCINT	3CC	
P@HASPSICE	48		P@NJECHK	3D0	
P@HASPSIDL	3C		P@NJEHRCV	3D4	
P@HASPSLNE	38		P@NJEHDRD	3D8	
P@HASPSLOG	34		P@NJEHDWR	3DC	
P@HASPSNAA	14		P@NJEHDXMT	3E0	
P@HASPSPRO	30		P@NJEPUT	3E4	
P@HASPSRAT	4C		P@NJERDACT	3E8	
P@HASPSAL	50		P@NJHBUILD	3EC	
P@HASPSUNT	40		P@NJTBUILD	3F0	
P@HASPTACT	58		P@NMAPINIT	408	
P@HASPTASV	64		P@NMDRECV	394	
P@HASPTCPA	18		P@NNTREC	3A0	
P@HASPTIDL	5C		P@NPMHOT	40C	
P@HASPTPRO	54		P@NPMQSUSE	410	
P@HASPTSSV	68		P@NPMVFY	3B4	
P@HASPTUNT	60		P@NPVDCTV	3B8	
P@HASPWQUE	1EC		P@NQPSOQ	678	
P@HASPWQUW	1F0		P@NQRELSE	67C	
P@HASPXFRA	1C		P@NRMAJUST	424	
P@HASP051	6E4		P@NRMRECV	3AC	
P@HEXTINIT	654		P@NSETESS	3F4	
P@H607RSN	1D4		P@NSETSUBS	414	
P@ISSWTO	5A8		P@NSJFSPSP	3F8	
P@IVATE	54C		P@NSMFBSIZ	3FC	
P@JNRNGCNT	344		P@OPGROUP	24C	
P@JOBQSAMP	348		P@OPMAILMG	250	
P@JOECLUP	2BC		P@PROCALCS	190	
P@JOESYNC	2C0		P@PROCALOC	19C	
P@JOTFRECL	2C4		P@PRTDFLT	230	
P@JOTVERIF	2C8		P@PSAFSCAN	61C	
P@JQECAT	34C		P@PSOFRELK	4F0	
P@KBUPDJQE	130		P@PURMASC	674	
P@KBUPDSUB	134		P@QBERTHRE	354	
P@KCPYMSTR	138		P@QDECHAIN	358	
P@KDIALOG	10C		P@QJQEVER	35C	

## \$PADDR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
P@QQSESTAT	628		P@ZAPJOB	368	
P@QWLMSVDF	15C		PADDR	0	
P@RBLDCTQ	550		PADDR@OCOOFFST		
P@RCDSYNC	5FC			8	
P@RDRPDCUP	50C		PADDRID	0	D7C1C4D9
P@REMDCTQ	554		PADDRLEN	70C	710
P@RINTJOB	510		PADDRV	4	
P@RMTDVINT	528		PADDRVN	4	6
P@RMTDVSET	52C				
P@RMTLNECK	530				
P@RMTSETUP	534				
P@ROTDCTQ	558				
P@SAIHOT	538				
P@SAIRECC	53C				
P@SAIPOST	2D0				
P@SHRLIVE	184				
P@SIGIO	600				
P@SNASNET	5B0				
P@SNFQBLD	608				
P@SNFQPST	60C				
P@SNFQUE	604				
P@SOCKDYN	63C				
P@SPCIOT	5B4				
P@SRVCFSEL	55C				
P@SRVDCTD	560				
P@SRVFNDCCR	564				
P@SRVMOD	568				
P@SRVM630	56C				
P@SRVOLOC	570				
P@SRVPREFX	574				
P@SRVRDIR	57C				
P@SRVROUT	580				
P@SRVSASCN	584				
P@SRVSETUP	588				
P@SRVWSCAN	58C				
P@SUBDEST	4E4				
P@SUBRRT	590				
P@TCPSNET	640				
P@TIMECLOC	6EC				
P@TRCDUMP	238				
P@TRCPUT	23C				
P@TREGROUP	4EC				
P@TRGETTB	240				
P@UNSHRLIV	188				
P@VETIVATE	594				
P@WLMDEQ	360				
P@WLMENQ	364				
P@WLMGOALS	6F0				
P@WS2	598				
P@WTORTIMR	658				
P@XCFCBCAST	690				
P@XCFDHOMO	694				
P@XCFJOIN	698				
P@XCFLEAVE	69C				
P@XCFMAPEV	6A0				
P@XCFMSTAT	6A4				
P@XCFQSTAT	6A8				
P@XCFUSTAT	6AC				
P@XCFXMAQU	6B0				
P@XDUPTEST	6F4				
P@XINSTART	6F8				
P@XINTKEY	194				
P@XJDTKEY	198				
P@XPOSTXEQ	6FC				
P@XPURJWEL	6DC				

## \$PADDR Cross Reference



## \$PARMLST Heading Information

**Common Name:** JES2 inline parameter list DSECT  
**Macro ID:** \$PARMLST  
**DSECT Name:** PARMLIST  
**Owning Component:** JES2 (SC1BH)  
**Eye-Catcher ID:** None  
**Storage Attributes:** Subpool: N/A  
 Key: N/A  
 Residency: This macro is generated as inline code as part of macro expansions using \$CALL INLINE=. It can therefore reside in code anywhere in storage in any address space.  
**Size:** Variable  
**Created by:** Created at assembly time by \$CALL with the INLINE= parameter.  
**Pointed to by:** N/A  
**Serialization:** None required  
**Function:** This DSECT defines inline parameter lists associated with the \$CALL macro via the INLINE= parameter. See \$CALL for more information.

This DSECT is composed of a base section followed by many members which ORG back over this base section. Each \$PARMLST member represents an inline parameter list for a particular service routine. In order to use \$CALL's cross assembly calling ability and have an inline parameter list, the inline parameter list must be defined as a member of this DSECT.

## \$PARMLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PARMLIST	INLINE PARAMETER LIST DSECT
0	(0)	BITSTRING	4	PARMINST	FOR INSTRUCTION AFTER THE BASR
4	(4)	SIGNED	2	PARMSTRT (0)	LABEL ALL \$PARMLST MEMBERS ORG TO
Comment					
MEMBER NAME --> \$\$PO					
ROUTINE(S) ---> \$\$POST in HASCSRIC					
MACRO(S) ----> \$\$POST					
Wake up the JES2 main task					
End of Comment					
4	(4)	BITSTRING	1	\$\$POFLG1	\$\$POST flag byte
		1... ....		\$\$PO1BRA	"B'10000000" LINKAGE=BRANCH POST
		.1... ....		\$\$PO1SYS	"B'01000000" LINKAGE=SYSTEM POST
Comment					
B'00xxxxxx' LINKAGE=SVC POST					
End of Comment					
		..1. ....		\$\$PO1ELM	"B'00100000" ELMT specified
		...1 ....		\$\$PO1RUN	"B'00010000" Run time \$DRxxx value
		.... 1...		\$\$PO1BR3	"B'00001000" LINKAGE=CVT0PT03 POST
5	(5)	ADDRESS	1		Reserved

# \$PARMLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MEMBER NAME --> \$AEOJ ROUTINE(S) ---> ARMEOJ in HASCARSO MACRO(S) -----> none ARM end of job routine. This parameter list is FROZEN.					
End of Comment					
4	(4)	BITSTRING 1... .... .1.. ....	1	\$AEOJFL1 \$AEOJ1JT \$AEOJ1EM	\$AEOJ FLAG BYTE "B'10000000" Job termination call "B'01000000" End of memory call
Comment					
MEMBER NAME --> \$BLDTGB ROUTINE(S) ---> \$BLDTGB in HASPTRAK MACRO(S) -----> \$BLDTGB Build trackgroup block					
End of Comment					
4	(4)	BITSTRING 1... .... .1.. ....	1	\$BTGFLG1 \$BTGBMTR \$BTGBTGM	\$AEOJ FLAG BYTE "B'10000000" ID=MTTR was specified "B'01000000" ID=TGM was specified
Comment					
MEMBER NAME --> \$CBI ROUTINE(S) ---> \$CBIO IN HASC SRDS \$CBIOM in HASPNUC MACRO(S) -----> \$CBIO CONTROL BLOCK I/O ROUTINE.					
End of Comment					
4	(4)	BITSTRING	1	\$CBIFLG1	\$CBIO flag byte
Comment					
EQU B'10000000' Reserved					
End of Comment					
		.1.. ....		\$CB1EXIT	"B'01000000" EXIT 8 SHOULD BE TAKEN
		..1. ....		\$CB1NOVF	"B'00100000" BYPASS CNTRL BLK VERIFY
		...1 ....		\$CB1NSJB	"B'00010000" NO SJB PROVIDED
		.... 1..		\$CB1SJIO	"B'00001000" SJIOB PROVIDED
		.... .1..		\$CB1FREE	"B'00000100" FREE THE BUFFER
		.... ..1.		\$CB1WAIT	"B'00000010" ON - WAIT=YES SPECIFIED, OFF - WAIT=NO SPECIFIED.
5	(5)	.... ...1 BITSTRING	1	\$CB1COND \$CBIFLG2	"B'00000001" Conditional Write \$CBIO flag byte
		1... ....		\$CB2WRIT	"B'10000000" TYPE=WRITE operation
		.1.. ....		\$CB2TWAT	"B'01000000" TYPE=WAIT requested
		..1. ....		\$CB2FSSM	"B'00100000" \$CBIO called from FSSM
		...1 ....		\$CB2SUPM	"B'00010000" Suppress error messages
		.... 1..		\$CB2MQTR	"B'00001000" MQTR passed in register 0
		.... .1..		\$CB2SPLQ	"B'00000100" SPOLPTR is an MQTR
		.... ..1.		\$CB2NORF	"B'00000010" WAIT=(NO,NOREF) SPECIFIED
6	(6)	BITSTRING	1		Reserved
7	(7)	BITSTRING	1	\$CBCKPTB	CKPTBIT VALUE
8	(8)	ADDRESS	2	\$CBSTORP	STORPTR VALUE
10	(A)	ADDRESS	2	\$CBSPOLP	SPOLPTR VALUE
12	(C)	ADDRESS	2	\$CBCKPTF	CKPTFLD VALUE
14	(E)	CHARACTER	4	\$CBVERID	VERIFY ID

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
18	(12)	ADDRESS	4	\$CBVERIX	Verify index (if known)

Comment

MEMBER NAME --> \$VERIFY  
 ROUTINE(S) ---> \$VERIFY in HASCSRDS  
 MACRO(S) -----> \$VERIFY  
 CBIO control block verification service

-----  
 \$VERIFY passes parameters in registers and does not use inline parameter list. However, one of the parameters is a pointer to 4 byte control block ID. It can be a 4 character EBCDIC identifier of a control block (e.g. 'IOT '); or 4 byte binary index in the verification table HASPVTAB (in HASCSRDS). Note that equates in this list should be in the same order as entries in HASPVTAB.  
 -----

End of Comment

18	(12)	X'0'	0	\$VFYCHK	"0" Verify CHK
18	(12)	X'1'	0	\$VFYDSCA	"1" Verify DSCA
18	(12)	X'2'	0	\$VFYDSIX	"2" Verify DSIX
18	(12)	X'3'	0	\$VFYHDB	"3" Verify HDB
18	(12)	X'4'	0	\$VFYIOT	"4" Verify IOT
18	(12)	X'5'	0	\$VFYJCT	"5" Verify JCT
18	(12)	X'6'	0	\$VFYOCT	"6" Verify OCT
18	(12)	X'7'	0	\$VFYSWBI	"7" Verify SWBI
18	(12)	X'8'	0	\$VFYNHSB	"8" Verify NHSB
18	(12)	X'9'	0	\$VFYTLBM	"9" Verify TLBM

Comment

MEMBER NAME --> \$CDCTDYN  
 ROUTINE(S) ---> \$CDCTDYN in HASPDYN  
 MACRO(S) -----> \$CDCTDYN

End of Comment

4	(4)	BITSTRING	1	\$CDCTYPE	Flag byte 1
4	(4)	X'1'	0	\$CDCTDCT	"1" DCT= was specified
4	(4)	X'2'	0	\$CDCTAPT	"2" APT= was specified
4	(4)	X'3'	0	\$CDCTSCK	"3" SCK= was specified
4	(4)	X'4'	0	\$CDCTRAT	"4" RAT= was specified
4	(4)	X'5'	0	\$CDCTCDC	"5" CDCT= was specified
4	(4)	X'6'	0	\$CDCTXRQ	"6" XREQ= was specified
5	(5)	BITSTRING	1	\$CDCFLG1	Flag byte 2
		1... ..		\$CDC1CRE	"B'10000000" CREATE=YES
		.1.. ....		\$CDC1SYN	"B'01000000" SYNCH=YES
		..1. ....		\$CDC1BRO	"B'00100000" BROADCAST=YES
		...1 ....		\$CDC1INV	"B'00010000" MARK=INVALID
		.... 1...		\$CDC1VAL	"B'00001000" MARK=VALID
		.... .1..		\$CDC1BRC	"B'00000100" BROADCAST=COND

Comment

MEMBER NAME --> \$CFX  
 ROUTINE(S) ---> CSMICMD IN HASPCOMM  
 MACRO(S) -----> \$CFXMJC  
 Single Member Image subroutine.

End of Comment

4	(4)	BITSTRING	1	\$CFXFLG1	Response flag
		1... ..		\$CFX1RSP	"B'10000000" Return a command response

## \$PARMLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
5	(5)	BITSTRING	1		Reserved for future use
Comment					
MEMBER NAME --> \$CKPTQUE ROUTINE(S) ---> \$CKPTQUE IN HASPCKPT MACRO(S) ----> \$CKPTQUE Queue work to CKPT PCE					
End of Comment					
4	(4)	ADDRESS	4	\$CKQRTN	Routine address
Comment					
MEMBER NAME --> \$CPL ROUTINE(S) ---> CPGET, CPFREE in HASCPPOOL MACRO(S) ----> \$CPOOL CPOOL TYPE=GET SUBROUTINE.					
End of Comment					
4	(4)	BITSTRING	1	\$CPL1	
		1... ..		\$CPL1CDY	"B'10000000" \$CPOOL COND=YES
		.1... ..		\$CPL1HXN	"B'01000000" \$CPOOL HASXB=NONE
Comment					
MEMBER NAME --> \$CRJOES ROUTINE(S) ---> CRJOES in HASCSISC MACRO(S) ----> \$CRJOES Create JOEs or JOA (optionally acquire and free storage for JOA)					
End of Comment					
4	(4)	BITSTRING	1	\$CRJFLG1	
		..1. ....		\$CRJ1ALC	"B'00100000" ALLOCATE and return JOA
		...1 ....		\$CRJ1FRE	"B'00010000" FREEMAIN JOA
		.... 1...		\$CRJ1CLR	"B'00001000" Clear passed JOA
Comment					
MEMBER NAME --> \$CW ROUTINE(S) ---> CWTO IN HASPCOMM MACRO(S) ----> \$CWTO WRITE - TO - OPERATOR SUBROUTINE.					
End of Comment					
4	(4)	ADDRESS	1	\$CWTOFLG	
		1... ..		\$CWTO MVC	"B'10000000" EXECUTE OF MVC INSTRUCT. NEEDED
		.1... ..		\$CWTO LST	"B'01000000" LAST LINE OF MLWTO
		..1. ....		\$CWTO NWT	"B'00100000" WAIT=NO WAS SPECIFIED
Comment					
MEMBER NAME --> \$DIL ROUTINE(S) ---> \$DILBERT in HASPJQS MACRO(S) ----> \$DILBERT Do It Later when BERT lock is available routine inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$DILTYPE	TYPE specification
4	(4)	X'1'	0	\$DILTJQE	"1" TYPE=JQE specified
4	(4)	X'2'	0	\$DILTJOE	"2" TYPE=JQE specified
5	(5)	BITSTRING	1	\$DILVERS	Version

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
5	(5)	X'1'	0	\$DILCVER	"1" Current version
6	(6)	BITSTRING	1	\$DILFLG1	Flag byte
		1... ....		\$DILF1CL	"B'10000000" CALL=YES specified
		.1.. ....		\$DILF1IM	"B'01000000" Execute immediate instruction rather than calling routine
		..1. ....		\$DILF1WA	"B'00100000" \$WAIT for flush
		.... 1...		\$DILF1FL	"B'00010000" Flush DWAs
		.... 1..		\$DILF1PO	"B'00001000" \$POST Resource
		.... .1..		\$DILF1ND	"B'00000100" Do not queue duplicates
		.... ..1.		\$DILF1QP	"B'00000010" QPOST when resource ret
		.... ...1		\$DILF1#P	"B'00000001" \$#POST when resource ret
7	(7)	BITSTRING	1	\$DILFLG2	Second Flag byte
		1... ....		\$DILF2PA	"B'10000000" Pace requests by rtn addr
		.1.. ....		\$DILF2QS	"B'01000000" Queues need not be owned
		..1. ....		\$DILF2SP	"B'00100000" Get JQA in special mode
		...1 ....		\$DILF2CK	"B'00010000" Check DWAs
		.... .1..		\$DILF2FN	"B'00000100" Don't queue a DWA if flush unsuccessful
		.... ..1.		\$DILF2FP	"B'00000010" Flush only DWAs for this specific PCE
		.... ...1		\$DILF2FT	"B'00000001" Flush only DWAs for this PCE type
8	(8)	BITSTRING	4	\$DILIMME	Immed instruction

Comment

MEMBER NAME --> \$DTR  
 ROUTINE(S) ---> \$DISTERR in HASPRAS  
 MACRO(S) -----> \$DISTERR  
 Disasterous error routine inline parameter list

End of Comment

4	(4)	BITSTRING	1	\$DTRFLG1	General flag 1
		1... ....		\$DTRRJQE	"B'10000000" JQE= specified
		.1.. ....		\$DTRRJCT	"B'01000000" JCT= specified
		..1. ....		\$DTRRND	"B'00100000" DUMP=NO specified
		...1 ....		\$DTRRNAM	"B'00010000" RECVOPTS= specified
		.... 1..		\$DTRRSIG	"B'00001000" SIGRCD= specified
		.... .1..		\$DTRMQTR	"B'00000100" MQTR= specified
5	(5)	BITSTRING	1		Reserved
6	(6)	CHARACTER	8	\$DTRNAME	Name of \$DISTERR
14	(E)	CHARACTER	8	\$DTRSECT	Name of CSECT
22	(16)	CHARACTER	8	\$DTRSEQ	Sequence number of \$DISTERR
30	(1E)	CHARACTER	8	\$DTRRECV	RECVOPTS= value

Comment

MEMBER NAME --> \$DOGJOE  
 ROUTINE(S) ---> \$DOGJOE  
 MACRO(S) -----> \$DOGJOE  
 Deliver or Get JOE routine's inline parameter list

End of Comment

0	(0)	SIGNED	1	\$DOVERS	Version of parameter list
0	(0)	X'1'	0	\$DOCVER	"1" Parameter list version
1	(1)	SIGNED	1	\$DOACT	Action requested
1	(1)	X'0'	0	\$DOAFETN	"0" Fetch next JOE
1	(1)	X'4'	0	\$DOAFET	"4" Fetch JOE
1	(1)	X'8'	0	\$DOARET	"8" RETURN JOE (CKPT and Rel)
1	(1)	X'C'	0	\$DOACKPT	"12" CKPT JOE (CKPT, *no* Rel)
1	(1)	X'10'	0	\$DOAFLD	"16" CKPTFLD
1	(1)	X'14'	0	\$DOAREFR	"20" Refresh JOA
1	(1)	X'18'	0	\$DOAFREE	"24" Free JOA
1	(1)	X'1C'	0	\$DOAQLOK	"28" QUERYLOCK
1	(1)	X'20'	0	\$DOASETA	"32" SETACCESS
2	(2)	BITSTRING	1	\$DOFLAG2	More \$DOGJOE option flags
		1... ....		\$DO2DSRV	"B'10000000" DSERV provided

# \$PARMLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.1.. ....		\$DO2SPCL	"B'01000000" Special call (no BERT lock)
		.1.. ....		\$DO2READ	"B'00100000" READ access requested
		...1 ....		\$DO2NWAT	"B'00010000" WAIT=NO
		.... 1..		\$DO2WDEF	"B'00001000" DEFER option on WAIT=NO
		.... .1..		\$DO2CONF	"B'00000100" Conditional FREE
		.... .1..		\$DO2NROL	"B'00000010" Skip any \$ROLL trace
		.... ...1		\$DO2RCVY	"B'00000001" ACTION=(FREE,RECOVERY)
3	(3)	BITSTRING	1	\$DOFLAG3	More \$DOGJOE option flags
		1... ....		\$DO3RELE	"B'10000000" Release BERT lock
		.1.. ....		\$DO3KEEP	"B'01000000" Keep memory for JOA
		.1.. ....		\$DO3UCON	"B'00100000" Unconditional return for ACTION=RETURN
		...1 ....		\$DO3NUPD	"B'00010000" RETURN,NOUPDATE
		.... 1..		\$DO3QLOB	"B'00001000" QUERYLOCK,OBTAINABLE
		.... .1..		\$DO3MAX	"B'00000010" ACTION=(CKPT,MAXJOA)
		.... ...1		\$DO3POST	"B'00000001" POST=YES for ACTION=CKPT
4	(4)	BITSTRING	1	\$DOFLAG4	More \$DOGJOE option flags
		1... ....		\$DO4PSTA	"B'10000000" Post \$ACTIVATE FETCH call
		.1.. ....		\$DO4#PSY	"B'01000000" #POST=YES
		.1.. ....		\$DO4KPJW	"B'00100000" #POST=(,KEEPJWEL)
		...1 ....		\$DO4MNJT	"B'00010000" #POST=(,JOETIME)
5	(5)	BITSTRING	1	\$DOFLAG5	More \$DOGJOE option flags
6	(6)	SIGNED	2	\$DOACTOR (0)	Action specific fields
6	(6)	SIGNED	2	\$DOCHAIN	Offset of chaining field (present only if \$DOFETN)
6	(6)	SIGNED	2	\$DOCKOFF	Field offset and length
8	(8)	SIGNED	2	\$DOCKLEN	for CKPTFLD request (present only if \$DOAFLD)
8	(8)	X'A'	0	\$DOLEN	**-\$PARMLIST" Length of \$DOGJOE MF=L

Comment

MEMBER NAME --> \$DOGJQE  
 ROUTINE(S) ---> \$DOGJQE  
 MACRO(S) ----> \$DOGJQE  
 Deliver or Get JQE routine's inline parameter list

End of Comment

0	(0)	SIGNED	1	\$DJACT	Action requested
0	(0)	X'0'	0	\$DJAFETN	"0" Fetch next JQE
0	(0)	X'4'	0	\$DJAFET	"4" Fetch JQE
0	(0)	X'8'	0	\$DJALOCK	"8" Manage BERT lock
0	(0)	X'C'	0	\$DJARET	"12" RETURN JQE (CKPT and Rel)
0	(0)	X'10'	0	\$DJACKPT	"16" CKPT JQE (CKPT, *no* Rel)
0	(0)	X'14'	0	\$DJAREFR	"20" Refresh JQA
0	(0)	X'18'	0	\$DJAFREE	"24" Free JQA
0	(0)	X'1C'	0	\$DJASETA	"28" Set access
0	(0)	X'20'	0	\$DJAQLOK	"32" QUERYLOCK
0	(0)	X'24'	0	\$DJAFLD	"36" CKPTFLD
1	(1)	BITSTRING	1	\$DJFLAG2	More \$DOGJQE option flags
		1... ....		\$DJ2DSRV	"B'10000000" DSERV provided
		.1.. ....		\$DJ2SPCL	"B'01000000" Special call (no BERT lock)
		.1.. ....		\$DJ2KEEP	"B'00100000" Keep memory for JQA
		...1 ....		\$DJ2NWAT	"B'00010000" WAIT=NO or QUERYLOCK,OBTAINABLE
		.... 1..		\$DJ2CONF	"B'00001000" Conditional FREE
		.... .1..		\$DJ2POST	"B'00000100" POST=YES for ACTION=CKPT
		.... .1..		\$DJ2UCON	"B'00000010" Unconditional return for ACTION=RETURN
		.... ...1		\$DJ2URFR	"B'00000001" Unconditional refresh
2	(2)	BITSTRING	1	\$DJFLAG3	More \$DOGJQE option flags
		1... ....		\$DJ3READ	"B'10000000" READ access requested
		.1.. ....		\$DJ3RELE	"B'01000000" Release BERT lock
		.1.. ....		\$DJ3WDEF	"B'00100000" Defer RETURN if required
		...1 ....		\$DJ3NUPD	"B'00010000" RETURN,NOUPDATE
		.... 1..		\$DJ3QPSY	"B'00001000" QPOST=YES
		.... .1..		\$DJ3#PSY	"B'00000100" #POST=YES
		.... .1..		\$DJ3MAX	"B'00000010" ACTION=(CKPT,MAXJQA)
		.... ...1		\$DJ3RCVY	"B'00000001" ACTION=(FREE,RECOVERY)

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
3	(3)	SIGNED	1	\$DJVERS	Version of parameter list
3	(3)	X'2'	0	\$DJCVER	"2" Parameter list version
4	(4)	BITSTRING	1	\$DJFLAG4	More \$DOGJQE option flags
5	(5)	BITSTRING	1	\$DJFLAG5	More \$DOGJQE option flags
6	(6)	SIGNED	2	\$DJCHAIN	Offset of chaining field (present only if \$DJFETN)
6	(6)	X'8'	0	\$DJLEN	** -PARMLIST" Length of \$DOGJQE MF=L

Comment

MEMBER NAME --> \$DST  
 ROUTINE(S) ---> USERDEST IN HASCSIRQ  
 MACRO(S) ----> \$DEST  
 DESTINATION CONVERSION ROUTINE'S INLINE PARAMETER LIST.

End of Comment

4	(4)	BITSTRING	1	\$DSTFLG1	\$DEST MACRO OPTION FLAGS
		1... ..		\$DSTCHAR	"B'10000000" CHARACTER INPUT
		.1.. ..		\$DSTRDT	"B'01000000" DESTIDs allowed
		..1. ....		\$DSTGNRC	"B'00100000" Generic userids allowed at local node
		...1 ...		\$DST1EXP	"B'00010000" EXPLICIT=YES was specified
		.... 1..		\$DSTNRP	"B'00001000" RMTPOOL=NO WAS REQUESTED
		.... .1..		\$DSTPRIM	"B'00000100" PRIMARY=YES, RETURN NODENM
		.... ..1.		\$DSTUSER	"B'00000010" USERID SUPPLIED OR DESIRED
		.... ...1		\$DSTNSPR	"B'00000001" DO NOT SUPPRESS NODE FOR LOCAL BINARY TO CHARACTER CONV
5	(5)	BITSTRING	1	\$DSTFLG2	\$DEST macro options flag 2
		1... ..		\$DST2IGN	"B'10000000" NODENAME=IGNORED
		.1.. ..		\$DST2DFM	"B'01000000" DLMFAIL=YES
		..1. ....		\$DST2NUS	"B'00100000" DONTUSE= was specified
		...1 ....		\$DST2IPY	"B'00010000" IPFORM=YES (or LONG) was specified
		.... 1..		\$DST2IGS	"B'00001000" SHOWUSER=IGNORED
		.... ..1.		\$DST2IPD	"B'00000100" IPFORM=SHORT was specified
		.... ...1		\$DST2NVU	"B'00000010" VALUSR=NO was specified

Comment

MEMBER NAME --> \$DSD  
 ROUTINE(S) ---> \$DESTDYN IN HASPDYN  
 MACRO(S) ----> \$DESTDYN  
 DESTINATION DEFINITION ROUTINE'S INLINE PARAMETER LIST.

End of Comment

4	(4)	BITSTRING	1	\$DSDFLG1	\$DESTDYN MACRO OPTION FLAGS (VALUES ARE RDT1NODE/RDT1DEST)
5	(5)	BITSTRING	1	\$DSDFLG2	\$DESTDYN MACRO OPTION FLAG 2
		1... ..		\$DSD2FOR	"B'10000000" Force NODAL destination

Comment

MEMBER NAME --> \$DGB  
 ROUTINE(S) ---> \$DOGBERT in HASPCKPT  
 BERTREAD in HASCSRIC  
 MACRO(S) ----> \$DOGBERT  
 BERT Deliver and Get services inline parm list

End of Comment

4	(4)	SIGNED	1	\$DGBACT	ACTION= being requested
4	(4)	X'1'	0	\$DGBFTCH	"1" FETCH action
4	(4)	X'2'	0	\$DGBNEXT	"2" FETCHNEXT action
4	(4)	X'3'	0	\$DGBCKPT	"3" CKPT action
4	(4)	X'4'	0	\$DGBRETN	"4" RETURN action
4	(4)	X'5'	0	\$DGBFREE	"5" FREE action
4	(4)	X'6'	0	\$DGBSTSP	"6" SETSPECIAL action
5	(5)	BITSTRING	1	\$DGBFLAG	General parameter flags

## \$PARMLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		1... ....		\$DGBWAIT	"B'10000000" \$WAIT is allowed
		.1.. ....		\$DGBQSUS	"B'01000000" Get the queues
		..1. ....		\$DGBUPDT	"B'00100000" Update access needed
		...1 ....		\$DGBNAME	"B'00010000" NAME= was passed
		.... 1..		\$DGBTOKN	"B'00001000" TOKEN= was passed
		.... .1..		\$DGBSPEC	"B'00000100" SPECIAL=YES was specified
		.... .1.		\$DGBNUPD	"B'00000010" No write update requested
		.... ...1		\$DGBNRDD	"B'00000001" No read data requested

Comment

-----  
 The following must match the values in BRRTYPE in  
 the \$BERT control block.  
 -----

End of Comment

6	(6)	SIGNED	1	\$DGBCB	Control block type
6	(6)	X'0'	0	\$DGBINT	"0" Internal control block
6	(6)	X'1'	0	\$DGBJQE	"1" JQE control block ext
6	(6)	X'2'	0	\$DGBCAT	"2" CAT control block
6	(6)	X'3'	0	\$DGBWSCQ	"3" WLM Service Class Queue
		1111 1111		\$DGBDYN	"X'FF" Dynamically defined type
7	(7)	BITSTRING	1	\$DGBFLG2	Second flag byte
		1... ....		\$DGB2CRE	"B'10000000" ACTION=(,CREATE) spec
		.1.. ....		\$DGB2UNK	"B'01000000" CB type unknown
		..1. ....		\$DGB2PAD	"B'00100000" ACTION=(CKPT,PAD)
		...1 ....		\$DGB2PBE	"B'00010000" Flag bytes 1 and 2 in PBEDGBF1 & PBEDGBF2
		.... 1..		\$DGB2NEV	"B'00001000" MOREBERTS=NEVER

Comment

-----  
 The following field is only generated for  
 dynamic BERT types  
 -----

End of Comment

8	(8)	CHARACTER	8	\$DGBTNAM	BERT type in EBCDIC
---	-----	-----------	---	-----------	---------------------

Comment

MEMBER NAME --> \$DGD  
 ROUTINE(S) ---> \$DOGDJB routine in HASPJQS  
 ROUTINE(S) ---> DJBREAD routine in HASCSTRIC  
 MACRO(S) ----> \$DOGDJB  
 Deliver Or Get Duplicate Jobname Block

End of Comment

4	(4)	BITSTRING	1	\$DGDFLG1	\$DOGDJB Macro options
		1... ....		\$DGD1FET	"B'10000000" ACTION=FETCH
		.1.. ....		\$DGD1FTN	"B'01000000" ACTION=FETCHNEXT
		..1. ....		\$DGD1UPD	"B'00100000" ACTION=(...,UPDATE)
		...1 ....		\$DGD1NUP	"B'00010000" ACTION=(...,NOUPDATE)
		.... 1..		\$DGD1FRE	"B'00001000" ACTION=FREE
		.... .1..		\$DGD1BRO	"B'00000100" MOREBERTS=NEVER
		.... .1.		\$DGD1CRE	"B'00000010" ACTION=(FETCH,CREATE)
		.... ...1		\$DGD1RES	"B'00000001" ACTION=RESET
5	(5)	BITSTRING	1	\$DGDFLG2	\$DOGDJB Macro options
		1... ....		\$DGD2ACC	"B'10000000" ACTION=SETACCESS
		.1.. ....		\$DGD2CAC	"B'01000000" CACHE=YES
		..1. ....		\$DGD2WAI	"B'00100000" WAIT=NO



Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>MEMBER NAME --&gt; \$DGV            ROUTINE(S) ---&gt; \$DOGMIG routine in HASPSPOL            MACRO(S) -----&gt; \$DOGMIG            Deliver Or Get temporary migration object in support of spool volume migration.</p>					
End of Comment					
4	(4)	BITSTRING	1	\$DGVFLG1	\$DOGMIG Macro options
		1... ....		\$DGV1FET	"B'10000000" ACTION=(FETCH,UPDATE)
		.1.. ....		\$DGV1CRE	"B'01000000" ACTION=(FETCH,CREATE)
		..1. ....		\$DGV1RED	"B'00100000" ACTION=(FETCH,READ)
		...1 ....		\$DGV1UPD	"B'00010000" ACTION=(RETURN,UPDATE)
		.... 1..		\$DGV1NUP	"B'00001000" ACTION=(RETURN,NOUPDATE)
		.... .1.		\$DGV1FRE	"B'00000100" ACTION=FREE
		.... ..1		\$DGV1CKP	"B'00000010" ACTION=CKPT
		.... ...1		\$DGV1WAI	"B'00000001" WAIT=NO
Comment					
<p>MEMBER NAME --&gt; \$DGT            ROUTINE(S) ---&gt; \$DOGCAT routine in HASPXEQ            MACRO(S) -----&gt; \$DOGCAT            Deliver Or Get Class Attribute Table</p>					
End of Comment					
4	(4)	BITSTRING	1	\$DGTFLG1	\$DOGCAT Macro options
		1... ....		\$DGT1FET	"B'10000000" ACTION=FETCH
		.1.. ....		\$DGT1FTN	"B'01000000" ACTION=FETCHNEXT
		..1. ....		\$DGT1UPD	"B'00100000" ACTION=(...,UPDATE)
		...1 ....		\$DGT1NUP	"B'00010000" UPDATE=IGNORE
		.... 1..		\$DGT1INT	"B'00001000" INIT=YES specified
		.... .1.		\$DGT1AQS	"B'00000100" ALLQUES=YES specified
		.... ..1		\$DGT1AQR	"B'00000010" ALLQUES=(YES,REBLD)
		.... ...1		\$DGT1TYP	"B'00000001" TYPE= was specified
5	(5)	BITSTRING	1	\$DGTFLG2	\$DOGCAT Macro options
		1... ....		\$DGT2BRO	"B'10000000" MOREBERTS=NEVER
		.1.. ....		\$DGT2WAI	"B'01000000" WAIT=NO
Comment					
<p>MEMBER NAME --&gt; \$DGW            ROUTINE(S) ---&gt; \$DOGWSCQ routine in HASPXEQ            MACRO(S) -----&gt; \$DOGWSCQ            Deliver Or Get Service Class Queue</p>					
End of Comment					
4	(4)	BITSTRING	1	\$DGWFLG1	\$DOGWSCQ Macro options
		1... ....		\$DGW1FET	"B'10000000" ACTION=FETCH
		.1.. ....		\$DGW1FTN	"B'01000000" ACTION=FETCHNEXT
		..1. ....		\$DGW1UPD	"B'00100000" ACTION=(...,UPDATE)
		...1 ....		\$DGW1NUP	"B'00010000" ACTION=(...,NOUPDATE)
		.... 1..		\$DGW1FRE	"B'00001000" ACTION=FREE
		.... .1.		\$DGW1CKP	"B'00000100" ACTION=CKPT
		.... ..1		\$DGW1CRE	"B'00000010" ACTION=(FETCH,CREATE)
		.... ...1		\$DGW1BRO	"B'00000001" MOREBERTS=NEVER
5	(5)	BITSTRING	1	\$DGWFLG2	\$DOGWSCQ Macro options
		1... ....		\$DGW2WAI	"B'10000000" WAIT=NO

# \$PARMLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MEMBER NAME --> \$DSN ROUTINE(S) ---> DAATSET SET NAME VERIFICATION IN HASPSRDS MACRO(S) ----> \$DSNVFY DESTINATION DEFINITION ROUTINE'S INLINE PARAMETER LIST.					
End of Comment					
		.... ....		DSNVALL	"B'00000000" COMPLETE DATASET NAME VERIFICATION
		1... ....		DSNRONLY	"B'10000000" RESERVE WORD ONLY VERIFICATION
Comment					
MEMBER NAME --> \$DSR ROUTINE(S) ---> GOFDSERV ROUTINE IN HASCSRIC MACRO(S) ----> \$DSERV OBTAIN OR RELEASE A CHECKPOINT VERSION					
End of Comment					
4	(4)	BITSTRING	1	\$DSRFLG1	Flag byte 1
		1... ....		\$DSR1GET	"B'10000000" GET request
		.1. ....		\$DSR1FRE	"B'01000000" FREE request
		..1. ....		\$DSR1LIV	"B'00100000" Use "live" version
		...1 ....		\$DSR1RFR	"B'00010000" Refresh non checkpoint resident data pointers
Comment					
MEMBER NAME --> \$DV ROUTINE(S) ---> CNVDEVID ROUTINE IN HASCSISC MACRO(S) ----> \$DVIDBLD CONVERT A DEVID TO A DEVICE NAME					
End of Comment					
4	(4)	BITSTRING	1	\$DVFLG1	Flags
		1... ....		\$DV1JQE	"B'10000000" JQE address passed
		.1. ....		\$DV1CHAR	"B'01000000" CONV=CHAR specified
5	(5)	SIGNED	1	\$DVLENG	Length of device name field
Comment					
MEMBER NAME --> \$EST ROUTINE(S) ---> SSISESTA in HASCLINK MACRO(S) ----> \$ESTAE (assembler) \$ESTAEP (PL/X) JES2 Establish ESTAE Inline Parameter List.					
End of Comment					
4	(4)	BITSTRING	1	\$ESTFCN	Requested function
		1... ....		\$ESTCRAT	"B'10000000" Create
		.1. ....		\$ESTDLET	"B'01000000" Delete
5	(5)	BITSTRING	1		Reserved for future IBM use
6	(6)	ADDRESS	4	\$ESTRECX	Recovery exit addr if any
10	(A)	SIGNED	2	\$ESTNBR	Number of retry addresses - currently always 1
12	(C)	ADDRESS	4	\$ESTRTYA	Retry address
Comment					
MEMBER NAME --> EXI ROUTINE(S) ---> \$JESEFF IN HASPNUC, USERSUB IN HASCSIRQ MACRO(S) ----> \$EXIT JES2 EXIT EFFECTOR'S INLINE PARAMETER LIST.					
End of Comment					

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	CHARACTER	8	EXITNAME	LABEL ON \$EXIT OR CSECT NAME IF NO LABEL WAS SPECIFIED
12	(C)	BITSTRING	1	EXITFLGS	EXIT FLAGS

Comment

The bits EXITUSER, EXITSTSK, EXITJES2 and EXITFSS have a one to one correspondence to the following bits in \$TTE : TDXFENVU, TDXFENV5, TDXFENVJ and TDXFENVF. These bits MUST remain in the currently defined order.

End of Comment

		1... ....		EXITTR	"B'10000000" EXIT EFFECTOR SHOULD DO TRACE
		.1.. ....		EXITUSER	"B'01000000" USER ENVIRONMENT
		..1. ....		EXITSTSK	"B'00100000" SUBTASK ENVIRONMENT
		...1 ....		EXITJES2	"B'00010000" JES2 ENVIRONMENT
		.... 1..		EXITFSS	"B'00001000" FSS ENVIRONMENT
		.... .1..		EXITXPL	"B'00000100" \$XPL passed to exit
13	(D)	ADDRESS	1	EXITID	EXIT ID
14	(E)	ADDRESS	1	EXITMRC	MAXIMUM RETURN CODE
15	(F)	ADDRESS	1	EXITRSVD	RESERVED FOR FUTURE USE
15	(F)	X'C'	0	EXITLNG	"(*-PARAMSTR+1)/2*2" LENGTH OF EXIT PARAMETER LIST

Comment

MEMBER NAME --> \$FAC  
 ROUTINE(S) ---> \$FMTSACC in HASMIPSV  
 MACRO(S) ----> \$FMTSACC and \$FMFSFMT  
 \$FMFSFMT and \$FMFSFMT inline parameter list

End of Comment

4	(4)	CHARACTER	8	\$FACSECT	Control section name
12	(C)	CHARACTER	8	\$FACSEQF	Invoking sequence number
12	(C)	X'4'	0	\$FACMOSQ	"\$FACSECT,*-\$FACSECT,C'C" Module/sequence

Comment

MEMBER NAME --> \$FB  
 ROUTINE(S) ---> \$MLTFBUF IN HASLINK  
 MACRO(S) ----> \$FREEBUF TYPE=MULT  
 \$FREEBUF'S INLINE PARAMETER LIST

End of Comment

4	(4)	BITSTRING	1	\$FBFLAG1	\$FREEBUF OPTION FLAG 1
		1... ....		\$FB1PROT	"B'10000000" BUFFER TYPE=PROT
		..1. ....		\$FB1HOLD	"B'00100000" BUFFER TYPE=HOLD
5	(5)	BITSTRING	1		Reserved
6	(6)	SIGNED	2	\$FBSTORP	Buffer chain offset

Comment

Member name --> \$FM  
 Routine(s) ---> \$FBUFRTN in HASLINK  
 Macro(s) ----> \$CALL \$FBUFRTN,INLINE=  
 \$FBUFRTN'S inline parameter list

End of Comment

4	(4)	BITSTRING	1	\$FMFLAG1	\$FBUFRTN option FLAG 1
		1... ....		\$FM1\$ERR	"B'10000000" Issue \$ERROR macro if unfreed buffers remain
		.1.. ....		\$FM1CLOS	"B'01000000" Called out of DS CLOSE

# \$PARMLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MEMBER NAME --> \$FBM					
ROUTINE(S) ---> \$FMTBLDM in HASMIPSV					
MACRO(S) ----> \$FMTBLDM					
\$FMTBLDM inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$FBMFLG1	Flag byte 1
		1... ....		\$FBM1INT	"B'10000000" Initialize message
		.1.. ....		\$FBM1ADD	"B'01000000" Add text to message
		..1. ....		\$FBM1LAS	"B'00100000" Last (issue message)
		...1 ....		\$FBM1MFL	"B'00010000" Text is list form msg
		.... 1..		\$FBM1TTB	"B'00001000" Truncate trailing blanks
		.... .1..		\$FBM1CNV	"B'00000100" Data conversion or a standard text string if \$FBM1MFL is also set
		.... ..1.		\$FBM1ABB	"B'00000010" Add blank before text/dat
		.... ...1		\$FBM1ABA	"B'00000001" Add blank after text/data
5	(5)	BITSTRING	1	\$FBMFLG2	Flag byte 2
		1... ....		\$FBM2RES	"B'10000000" Reset message
		.1.. ....		\$FBM2MTB	"B'01000000" Process \$FMTMTAB
		..1. ....		\$FBM2WID	"B'00100000" Use wide message width
		...1 ....		\$FBM2IVA	"B'00010000" Internal request via atab
		.... 1..		\$FBM2IFI	"B'00001000" Internal field info req
		.... .1..		\$FBM2INA	"B'00000100" Internal data specified
		.... ..1.		\$FBM2ADJ	"B'00000010" ADJUST= specified
		.... ...1		\$FBM2TTZ	"B'00000001" Truncate trailing zeroes
6	(6)	ADDRESS	1	\$FBMCTYP	Conversion or std text type
Comment					
----- Conversion types -----					
End of Comment					
6	(6)	X'1'	0	\$FBMCTAD	"1" ADDRESS
6	(6)	X'2'	0	\$FBMCTAS	"2" ASID
6	(6)	X'3'	0	\$FBMCTAC	"3" ASID_COND
6	(6)	X'4'	0	\$FBMCTDS	"4" DSPNAME
6	(6)	X'5'	0	\$FBMCTDC	"5" DSPNAME_COND
6	(6)	X'6'	0	\$FBMCTEP	"6" CHAR
6	(6)	X'7'	0	\$FBMCTHX	"7" HEX
6	(6)	X'8'	0	\$FBMCTRH	"8" HEXRAW
6	(6)	X'9'	0	\$FBMCTKM	"9" KM
6	(6)	X'A'	0	\$FBMCTOF	"10" OFFSET
6	(6)	X'B'	0	\$FBMCTSI	"11" SIGNINT
6	(6)	X'C'	0	\$FBMCTSR	"12" SIGNINTRAW
6	(6)	X'D'	0	\$FBMCTST	"13" STCK
6	(6)	X'E'	0	\$FBMCTSE	"14" STCKE
6	(6)	X'F'	0	\$FBMCTSM	"15" STCKE_MICRO
6	(6)	X'10'	0	\$FBMCTUI	"16" UNSIGNINT
6	(6)	X'11'	0	\$FBMCTUR	"17" UNSIGNINTRAW
6	(6)	X'12'	0	\$FBMCTA8	"18" ADDRESS64
Comment					
----- Standard text strings -----					
End of Comment					
6	(6)	X'1'	0	\$FBMCTPN	"1" NOTICE msg prefix
6	(6)	X'2'	0	\$FBMCTPW	"2" WARNING msg prefix
6	(6)	X'3'	0	\$FBMCTPE	"3" ERROR msg prefix
7	(7)	BITSTRING	1	\$FBMID	Parameter list ID
		1... ...1		\$FBMIDV	"X'81" Parm list verification val

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
8	(8)	CHARACTER	8	\$FBMSECT	Control section name
16	(10)	CHARACTER	8	\$FBMSEQF	Invoking sequence number
16	(10)	X'14'	0	\$FBMPLEN	"*-PARMSTRT" Length of parms to trace

Comment

MEMBER NAME --> \$FDI  
 ROUTINE(S) ---> \$FMTDIAL in HASMIPSV  
 MACRO(S) ----> \$FMTDIAL  
 \$FMTDIAL inline parameter list

End of Comment

4	(4)	ADDRESS	1	\$FDITYPE	Type indicator byte
4	(4)	X'1'	0	\$FDITCHR	"1" Character data
4	(4)	X'2'	0	\$FDITHEX	"2" Hexadecimal data
4	(4)	X'3'	0	\$FDITUSI	"3" Unsigned integer
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	8	\$FDISECT	Control section name
14	(E)	CHARACTER	8	\$FDISEQF	Invoking sequence number

Comment

MEMBER NAME --> \$FEV  
 ROUTINE(S) ---> \$FMTENV in HASMIPSV  
 MACRO(S) ----> \$FMTENV  
 \$FMTENV inline parameter list

End of Comment

4	(4)	ADDRESS	1	\$FEVPVER	\$FMTENV parm list version (Set in \$FMTENV macro expansion and checked in service routine)
5	(5)	ADDRESS	1	\$FEVREQ	Request type
5	(5)	X'1'	0	\$FEVRCU	"1" CREATE request
5	(5)	X'2'	0	\$FEVRDU	"2" DELETE request
5	(5)	X'3'	0	\$FEVRCC	"3" COND_CREATE request
5	(5)	X'4'	0	\$FEVRDC	"4" COND_DELETE request
6	(6)	BITSTRING	1	\$FEVUSE	USE flags - Caution; bit tests use both TM and CLI
		1... ....		\$FEVUIVE	"B'10000000" Used as IPCS VERBEXIT
		.1.. ....		\$FEVUIFR	"B'01000000" Used as IPCS FORMAT rtn
		..1. ....		\$FEVUJDR	"B'00100000" Used as JES2 DISPLAY_RTN
		...1 ....		\$FEVUNUL	"B'00010000" Null USE
7	(7)	BITSTRING	1	\$FEVFLG1	Flag byte 1
		1... ....		\$FEV1CSA	"B'10000000" Issue cond \$FMTSETA
8	(8)	ADDRESS	2	\$FEVWVER	Current \$IPCSWRK version #
10	(A)	CHARACTER	8	\$FEVSECT	Control section name
18	(12)	CHARACTER	8	\$FEVSEQF	Invoking sequence number
18	(12)	X'A'	0	\$FEVMOSQ	"\$FEVSECT,*-\$FEVSECT,C'C" Module/sequence

Comment

MEMBER NAME --> \$FGA  
 ROUTINE(S) ---> \$FMTGADR in HASMIPSV  
 MACRO(S) ----> \$FMTGADR  
 \$FMTGADR inline parameter list

End of Comment

4	(4)	BITSTRING	1	\$FGAFLG1	Flag byte 1
		1... ....		\$FGA1LUP	"B'10000000" Lookup a cb address
		.1.. ....		\$FGA1GNS	"B'01000000" Setup for a cb set
		..1. ....		\$FGA1GTN	"B'00100000" Get next cb in a set
4	(4)	X'E0'	0	\$FGA1STD	"\$FGA1LUP+\$FGA1GNS+\$FGA1GTN" Standard call if any bit on
		...1 ....		\$FGA1EYE	"B'00010000" Verify eye (cont if err)
		.... 1...		\$FGA1ZPM	"B'00001000" Issue msg if zero pointer
		.... .1..		\$FGA1ACM	"B'00000100" Issue msg if access error

## \$PARMLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	8	\$FGASECT	Control section name
14	(E)	CHARACTER	8	\$FGASEQF	Invoking sequence number
14	(E)	X'12'	0	\$FGAPLEN	** -PARMSTRT" Length of parms to trace
Comment					
MEMBER NAME --> \$FGF ROUTINE(S) ---> \$FMTGFLD in HASMIPSV MACRO(S) -----> \$FMTGFLD \$FMTGFLD inline parameter list					
End of Comment					
4	(4)	CHARACTER	8	\$FGFSECT	Control section name
12	(C)	CHARACTER	8	\$FGFSEQF	Invoking sequence number
Comment					
MEMBER NAME --> \$FID ROUTINE(S) ---> FIFODEQ in HASCSRIC MACRO(S) -----> \$FIFODEQ \$FIFODEQ inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$FIDFLG1	Flag byte 1
		1... ....		\$FID1CNT	"B'10000000" COUNT= specified
		.1.. ....		\$FID1ABN	"B'01000000" ABENDERR=YES
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	ADDRESS	2	\$FIDCOFF	Chain field offset
Comment					
MEMBER NAME --> \$FIE ROUTINE(S) ---> FIFOENQ in HASCSRIC MACRO(S) -----> \$FIFOENQ \$FIFOENQ inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$FIEFLG1	Flag byte 1
		1... ....		\$FIE1CNT	"B'10000000" COUNT= specified
		.1.. ....		\$FIE1ABN	"B'01000000" ABENDERR=YES
		..1. ....		\$FIE1HEA	"B'00100000" Add element to head
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	ADDRESS	2	\$FIECOFF	Chain field offset
Comment					
MEMBER NAME --> \$FIG ROUTINE(S) ---> FIFOGTQ in HASCSRIC MACRO(S) -----> \$FIFOGTQ \$FIFOGTQ inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$FIGFLG1	Flag byte 1
		1... ....		\$FIG1CNT	"B'10000000" COUNT= specified
5	(5)	BITSTRING	1		Reserved for future use

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MEMBER NAME --> \$FLE ROUTINE(S) ---> \$FMTLERR in HASMIPSV MACRO(S) ----> \$FMTLERR \$FMTLERR inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$FLEFLG1	Flag byte 1
		1... ....		\$FLE1RC	"B'10000000" Reason code provided
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	8	\$FLESECT	Control section name
14	(E)	CHARACTER	8	\$FLESEQF	Invoking sequence number
22	(16)	ADDRESS	4	\$FLEAPAR	Addr of APARNUM symbol
Comment					
MEMBER NAME --> \$FMS ROUTINE(S) ---> \$FMTMSG in HASMIPSV MACRO(S) ----> \$FMTMSG \$FMTMSG inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$FMSFLG1	Flag byte 1
		1... ....		\$FMS1WID	"B'10000000" Wide message width
		.1.. ....		\$FMS1BLN	"B'01000000" Display blank line
		..1. ....		\$FMS1CBL	"B'00100000" Conditional blank line
		...1 ....		\$FMS1IND	"B'00010000" Indentation requested
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	8	\$FMSSECT	Control section name
14	(E)	CHARACTER	8	\$FMSSEQF	Invoking sequence number
14	(E)	X'12'	0	\$FMSPLEN	"*-PARAMSTR" Length of parms to trace
Comment					
MEMBER NAME --> \$FPR ROUTINE(S) ---> \$FMTPROC in HASMIPSV MACRO(S) ----> \$FMTPROC \$FMTPROC inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$FPRFLG1	Flag byte 1
		1... ....		\$FPR1MLT	"B'10000000" Process MULTIPLE FMTCTABs
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	8	\$FPRSECT	Control section name
14	(E)	CHARACTER	8	\$FPRSEQF	Invoking sequence number
Comment					
MEMBER NAME --> \$FRE ROUTINE(S) ---> \$FREJLOK in HASPJQS MACRO(S) ----> \$FRELOK \$FRELOK inline parameter list for TYPE=JOB					
End of Comment					
4	(4)	BITSTRING	1	\$FREFLG1	\$FRELOK option flag
		1... ....		\$FRE1NW	"B'10000000" Cannot \$WAIT
		.1.. ....		\$FRE1NTR	"B'01000000" Do not take trace
		..1. ....		\$FRE1JQA	"B'00100000" Free JQA

## \$PARMLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MEMBER NAME --> \$FSA ROUTINE(S) ---> \$FMTSETA in HASMIPSV MACRO(S) ----> \$FMTSETA \$FMTSETA inline parameter list					
End of Comment					
4	(4)	CHARACTER	8	\$FSASECT	Control section name
12	(C)	CHARACTER	8	\$FSASEQF	Invoking sequence number
12	(C)	X'4'	0	\$FSAMOSQ	"\$FSASECT,*-\$FSASECT,C'C" Module/sequence
Comment					
MEMBER NAME --> \$FST ROUTINE(S) ---> \$FMTSTOR in HASMIPSV MACRO(S) ----> \$FMTSTOR \$FMTSTOR inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$FSTFLG1	Flag byte 1
4	(4)	X'1'	0	\$FST1GTU	"1" Get storage unconditional
4	(4)	X'2'	0	\$FST1GTC	"2" Get storage conditional
4	(4)	X'3'	0	\$FST1FRE	"3" Free storage
5	(5)	BITSTRING	1	\$FSTFLG2	Flag byte 2
		1... ....		\$FST2FAD	"B'10000000" ADDR specified on free
		.1.. ....		\$FST2CTS	"B'01000000" *CTAB_WORK
		..1. ....		\$FST2CTM	"B'00100000" *CTAB_WORK_LEVEL
		...1 ....		\$FST2PTS	"B'00010000" *PARENT_CTAB_WORK
		.... 1...		\$FST2PTM	"B'00001000" *PARENT_CTAB_WORK_LEVEL
		.111 1...		\$FST2TAB	"B'01111000" Ctab related request
6	(6)	CHARACTER	8	\$FSTSECT	Control section name
14	(E)	CHARACTER	8	\$FSTSEQF	Invoking sequence number
Comment					
MEMBER NAME --> \$FTB ROUTINE(S) ---> \$FRETBUF IN HASCNJAS MACRO(S) ----> \$FRETBUF \$FRETBUF INLINE PARAMETER LIST					
End of Comment					
4	(4)	BITSTRING	1	\$FTBFLG1	\$FRETBUF option flag
		1... ....		\$FTB1CHN	"B'10000000" CHAIN=YES specified
Comment					
Member name --> \$FTR Routine(s) ---> \$FRETRE in HASCLINK MACRO(s) ----> \$FRETRE \$FRETRE Inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$FTRFLG1	\$FRETRE option flag
		1... ....		\$FTR1IOW	"B'10000000" WAITIO=YES specified



Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MEMBER NAME --> \$FUC ROUTINE(S) ---> \$FREUCBS IN HASPNUC MACRO(S) ----> \$FREUCBS \$FREUCBS' INLINE PARAMETER LIST					
End of Comment					
4	(4)	BITSTRING 1... ..	1	\$FUCFLG1 \$FUC1UNP	\$FREUCBS OPTION FLAG "B'10000000" UNPIN=YES specified
Comment					
MEMBER NAME --> \$GTA ROUTINE(S) ---> \$GETABLE in HASPTABS MACRO(S) ----> \$GETABLE \$GETABLE routine inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$GTATYPE	Table type (See \$MITETBL for valid types)
5	(5)	BITSTRING 1... ..	1	\$GTAFLG1 \$GTAH1ST	Flag byte "B'10000000" Run HASP tables first
Comment					
MEMBER NAME --> \$GTB ROUTINE(S) ---> \$GETBUFR IN HASPNUC MACRO(S) ----> \$GETBUF \$GETBUF'S INLINE PARAMETER LIST					
End of Comment					
4	(4)	BITSTRING	1	\$GTBFLG1	\$GETBUF OPTION FLAG
Comment					
B'10000000' \$GBUFWT used in \$HASPEQU					
End of Comment					
		1... ..		\$GTB1WAT	"B'10000000" Wait requested
		.1. ....		\$GTB1FIX	"B'01000000" Wait requested
		..1. ....		\$GTB1MUL	"B'00100000" Multiple buffers requested
		...1 ....		\$GTB1LOW	"B'00010000" GET STORAGE BELOW 16MB
5	(5)	BITSTRING	1	\$GTBFTYP	Buffer type flag
Comment					
MEMBER NAME --> \$GTTB ROUTINE(S) ---> \$GETTBUF IN HASCNJAS MACRO(S) ----> \$GETTBUF \$GETTBUF INLINE PARAMETER LIST					
End of Comment					
4	(4)	BITSTRING	1	\$GTTBUSE	USE= (See TBFTYPE for values in byte)
Comment					
MEMBER NAME --> GCMB ROUTINE(S) ---> \$GETCMBR MACRO(S) ----> \$GETCMB \$GETCMB's inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$GTCFLG1	\$GETCMB option flag byte

## \$PARMLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		1... ....		\$GTC1WAT	"B'10000000" WAIT=YES requested
		.1... ....		\$GTC1DMC	"B'01000000" DEMANDCMB=YES specified
5	(5)	BITSTRING	1		Reserved for future use
Comment					
MEMBER NAME --> \$GNH ROUTINE(S) ---> \$GETNHB MACRO(S) ----> \$GETNHB \$GETNHB's inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$GNHFLG1	\$GETNHB option flag byte
		1... ....		\$GNH1WAT	"B'10000000" WAIT=YES requested
5	(5)	BITSTRING	1		Reserved for future use
Comment					
MEMBER NAME --> \$GUC ROUTINE(S) ---> \$GETUCBS IN HASPNUC MACRO(S) ----> \$GETUCBS \$GETUCBS' INLINE PARAMETER LIST					
End of Comment					
4	(4)	BITSTRING	1	\$GUCFLG1	\$GETUCBS OPTION FLAG
		1... ....		\$GUC1CNT	"B'10000000" CONT=YES specified
		.1... ....		\$GUC1UNT	"B'01000000" UNIT= specified
Comment					
MEMBER NAME --> \$GC ROUTINE(S) ---> \$GETCEL IN HASLINK MACRO(S) ----> \$GETCEL JES2 CSA CELL POOL GET ROUTINE (\$GETCEL) PARAMETER LIST THIS PARM LIST VARIES IN LENGTH. IF THE SIZE= PARAMETER ON THE \$GETCEL MACRO IS SPECIFIED IN REGISTER NOTATION, THEN REGISTER 2 IS LOADED WITH THE SIZE. OTHERWISE, THE THE SIZE OF THE CSA CELL TO OBTAIN IS PLACED AT THE END OF THE PARAMETER LIST.					
End of Comment					
4	(4)	BITSTRING	1	\$GCFLAG1	FLAG BYTE FOR \$GETCEL
		1... ....		\$GC1LPRM	"B'10000000" LONG FORM OF VARIABLE PARM LIST
5	(5)	BITSTRING	1	\$GCRSVRD	RESERVED FOR FUTURE USE
Comment					
VARIABLE PORTION OF THE \$GETCEL PARAMETER LIST.					
End of Comment					
6	(6)	ADDRESS	2	\$GCSIZE	SIZE OF CSA CELL REQUESTED
Comment					
MEMBER NAME --> \$GF ROUTINE(S) ---> \$GFMAIN IN HASPNUC, \$HGFMAIN IN HASLINK MACRO(S) ----> \$GETMAIN BRANCH ENTRY GETMAIN/FREEMAIN SERVICES INLINE PARM LIST.					
End of Comment					
4	(4)	BITSTRING	1	\$GFFLG3	\$GETMAIN/\$FREEMAIN flag 3
		1... ....		\$GF3LVR0	"B'10000000" Indicate LV passed in R0
		.1... ....		\$GF3BUFR	"B'01000000" Indicate buffer get/free
		..1. ....		\$GF3HTCB	"B'00100000" Indicate TCB=HIGH

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		...1 ....		\$GF3FREE	"B'00010000" Indicate free main/buf
		.... 1...		\$GF3TCBY	"B'00001000" Indicate TCB=YES, TCB in R1
		.... .1..		\$GF3JTCB	"B'00000100" Indicate JOB STEP TCB
		.... .1.		\$GF3TCBK	"B'00000010" Indicate TCBPKF used as key
		.... ...1		\$GF3PSWK	"B'00000001" Indicate PSW used as key
5	(5)	BITSTRING	1	\$GFFLG4	\$GETMAIN/\$FREEMAIN flag 4
		1... ....		\$GF4SPR0	"B'10000000" Subpool passed in R0
		.1.. ....		\$GF4STOR	"B'01000000" KEY=STORAGE for UBUFs only
		.1. ....		\$GF4ZERO	"B'00100000" ZEROSTOR=YES specified
		...1 ....		\$GF4NOLV	"B'00010000" Subpool freemain (no LV=)
		.... 1...		\$GF4BAKR	"B'00001000" REGS=SYSTEM was specified
		.... .1..		\$GF4OAUx	"B'00000100" OWNER=AUX was specified
8	(8)	SIGNED	4	\$GFLENV	\$GETMAIN/\$FREEMAIN length
Comment					
<p>-----</p> <p>\$GFFLG1 through \$GFFLG2 are passed to the service in R15 and not in \$PARMLST. These flags must match the register 3 value passed to branch entry GETMAIN/FREEMAIN</p> <p>-----</p>					
End of Comment					
12	(C)	BITSTRING	1	\$GFFLG1	\$GETMAIN/\$FREEMAIN flag 1
Comment					
<p>EQU B'10000000' Reserved</p> <p>EQU B'01000000' Reserved</p>					
End of Comment					
		..1. ....		\$GF1AR15	"B'00100000" AR 15 is in use
		...1 ....		\$GF1RS64	"B'00010000" Indicate LOC=(,64)
		.... 1...		\$GF1CHK0	"B'00001000" Indicate CHECKZERO=YES
Comment					
<p>EQU B'00000100' Reserved</p>					
End of Comment					
		.... ....		\$GF1OHOM	"B'00000000" Indicate OWNER=HOME
		.... ...1		\$GF1OPRI	"B'00000001" Indicate OWNER=PRIMARY
		.... .1.		\$GF1OSEC	"B'00000010" Indicate OWNER=SECONDARY
		.... ..11		\$GF1OSYS	"B'00000011" Indicate OWNER=SYSTEM
13	(D)	BITSTRING	1	\$GFKEY	KEY STORAGE REQUESTED IN
14	(E)	BITSTRING	1	\$GFSubPL	SUBPOOL STORAGE REQUESTED IN
15	(F)	BITSTRING	1	\$GFFLG2	\$GETMAIN/\$FREEMAIN flag 2
Comment					
<p>EQU B'10000000' Reserved</p>					
End of Comment					
		.1.. ....		\$GF2RS31	"B'01000000" Indicate LOC=(,31)
		.1. ....		\$GF2LC31	"B'00100000" Indicate LOC=31
		...1 ....		\$GF2LC24	"B'00010000" Indicate LOC=24
Comment					
<p>EQU B'00001000' Ind variable request</p>					
End of Comment					
		.... .1..		\$GF2PGB	"B'00000100" INDICATE BNDRY=PAGE

# \$PARMLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... ..1.		\$GF2UNCD	"B'00000010" INDICATE UNCONDITIONAL REQUEST
		.... ...1		\$GF2FMN	"B'00000001" INDICATE FREEMAIN
Comment					
MEMBER NAME --> \$GLW ROUTINE(S) ---> \$GETLOKW MACRO(S) ----> \$GETLOKW \$GETLOKW'S INLINE PARAMETER LIST					
End of Comment					
4	(4)	BITSTRING 1... ....	1	\$GLWFLG1 \$GLW1WT	\$GETLOKW FLAG 1 "B'10000000" WAIT=YES
Comment					
MEMBER NAME --> \$IBL ROUTINE(S) ---> \$IOTBLD IN HASCSRDS MACRO(S) ----> \$IOTBLD \$IOTBLD'S INLINE PARAMETER LIST					
End of Comment					
4	(4)	BITSTRING 1... .... .1.. .... ..1. .... ...1 .... .... 1..	1	\$IBFLAG1 \$IB1DPDB \$IB1DSPN \$IB1D2ND \$IB1DPRI \$IB1DAUG \$IB1DSJI \$IB1DNCH	\$IOTBLD OPTION FLAG 1 "B'10000000" INDICATE TYPE=PDDB "B'01000000" INDICATE TYPE=SPIN "B'00100000" INDICATE TYPE=SECOND "B'00010000" Indicate TYPE=PRIMARY "B'00001000" Indicate SPIN=DAUGHTER "B'00000100" Indicate SJJOB provided "B'00000010" Indicate skip chaining of new IOT of TYPE=PDDB
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
Comment					
MEMBER NAME --> \$ICL ROUTINE(S) ---> \$IOTCNT IN HASPNUC MACRO(S) ----> \$IOTCNT \$IOTCNT'S INLINE PARAMETER LIST					
End of Comment					
4	(4)	BITSTRING 1... .... .1.. .... ..1. .... ...1 ....	1	\$ICFLAG1 \$IC1LKNO \$IC1LOCK \$IC1IOT \$IC1JOE	\$IOTBLD OPTION FLAG 1 "B'10000000" INDICATE LOCK=NO "B'01000000" INDICATE LOCK=YES "B'00100000" IN STORAGE IOT ADDRESS IS SUPPLIED "B'00010000" R0 contains addr of JOE
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
Comment					
MEMBER NAME --> \$JCN ROUTINE(S) ---> \$JCANR IN HASPCOMM MACRO(S) ----> \$JCAN \$JCAN'S INLINE PARAMETER LIST					
End of Comment					
4	(4)	BITSTRING 1... .... .1.. .... ..1. ....	1	\$JCNFLG1 \$JCN1PRO \$JCN1TST \$JCN1TSU	\$JCAN Flag "B'10000000" Output Is Protected "B'01000000" ACTION=TEST "B'00100000" TSU=NO
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>MEMBER NAME --&gt; \$#ADD            ROUTINE(S) ---&gt; \$#ADD in HASPJOS            MACRO(S) ----&gt; \$#ADD            \$#ADD caller requested JOA address be returned            verses a real work JOE address,</p>					
End of Comment					
4	(4)	BITSTRING 1... ....	1	\$ADDFLG \$ADDJOA	"B'10000000" Caller of \$#ADD requested an update mode JOA be returned verses a real work JOE address. This JOA/JOE was added to the JOT.
Comment					
<p>MEMBER NAME --&gt; \$#DISPRO            ROUTINE(S) ---&gt; \$#DISPRO in HASPJOS            MACRO(S) ----&gt; \$#DISPRO            \$#DISPRO routine inline parameter list.</p>					
End of Comment					
4	(4)	BITSTRING 1... ....	1	\$DSPFLG \$DSFJOA	\$#DISPRO parameter flag "B'10000000" If caller supplied JOA then free it. Default is to free.
Comment					
<p>MEMBER NAME --&gt; \$#JWEL            ROUTINE(S) ---&gt; \$#JWEL in HASPJOS            MACRO(S) ----&gt; \$#JWEL            \$#JWEL routine inline parameter list.</p>					
End of Comment					
4	(4)	BITSTRING 1... .... .1. .... ..1. .... ...1 .... .... 1.. .... .1. .... .1. .... .1.	1	\$JWLFLG \$JLONG \$JSERCH \$JPURGE \$JADD \$JFORCE \$JCOND \$JALL \$JANY	\$#JWEL parameter flag "B'10000000" Long form of device number "B'01000000" Search for existing JWEL "B'00100000" Purge all JWELs for JOE "B'00010000" Add a JWEL "B'00001000" Force purge of JWEL chain "B'00000100" ADD or PURGE conditional "B'00000010" Made SEARCH match all JWELs "B'00000001" Made SEARCH find any JWEL
5	(5)	BITSTRING 1... .... .1. .... ..1. .... ...1 ....	1	\$JWLFL2 \$JDETCH \$JATTCH \$JINIT \$JANCHR	Second \$#JWEL parameter flg "B'10000000" Detach JWEL chain "B'01000000" Attach JWEL chain "B'00100000" INIT JWEL anchor "B'00010000" Determine JWEL anchor addr
Comment					
<p>MEMBER NAME --&gt; \$#PUT            ROUTINE(S) ---&gt; \$#PUT in HASPJOS            MACRO(S) ----&gt; \$#PUT            \$#PUT routine inline parameter list.</p>					
End of Comment					
4	(4)	BITSTRING ...1 .... .... 1..	1	\$PUTFLG \$PJWEL \$PFRJOA	\$#PUT parameter flag "B'00010000" Purge SAPI JWELs "B'00001000" If caller supplied JOA then free it. Default is to free.

## \$PARMLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MEMBER NAME --> \$LG ROUTINE(S) ---> \$LOGMSG IN HASPSSRV MACRO(S) -----> \$LOGMSG PLACING JOB RELATED MESSAGES INTO A JOB'S JOBLOG OR SYSMMSG DATA SET. NOTE PARAMETER LIST VARIES IN LENGTH IN ORDER TO PHYSICALLY CONTAIN THE REQUESTOR'S EBCDIC NAME. THE LENGTH OF THE NAME IS IN FIELD \$LG1TXTL.					
End of Comment					
4	(4)	BITSTRING	1	\$LGSUBP	SUBPOOL TO FREEMAIN MSGAREA
5	(5)	BITSTRING	1	\$LGFLAG1	FLAG BYTE
		1... ....		\$LG1MFRE	"B'10000000" MSGFREE=YES WAS SPECIFIED
		.1.. ....		\$LG1WTO	"B'01000000" WTO=YES WAS SPECIFIED
6	(6)	BITSTRING	1	\$LG1TXTL	MACHINE LENGTH (LENGTH-1) OF REQUESTOR NAME
7	(7)	CHARACTER	1	\$LGRQSTR	START OF REQUESTOR NAME
Comment					
MEMBER NAME --> \$LV ROUTINE(S) ---> \$TQLEVEL in HASPXCF MACRO(S) -----> \$LEVEL					
End of Comment					
4	(4)	BITSTRING	1	\$LVFLAG1	Flag byte 1
		1... ....		\$LV1QSE	"B'10000000" QSE fields provided
		.1.. ....		\$LV1WAIT	"B'01000000" Wait for homogeneity
5	(5)	BITSTRING	1	\$LVQFLAG	QSE flag value to test
6	(6)	ADDRESS	2	\$LVQOFF	Offset of QSE flag
Comment					
MEMBER NAME --> \$BTM ROUTINE(S) ---> \$BITMAP routine in HASCSRIC MACRO(S) -----> \$BITMAP \$BITMAP inline parameter list.					
End of Comment					
4	(4)	SIGNED	1	\$BTMACT	ACTION= requested
4	(4)	X'0'	0	\$BTMCRT	"0" ACTION=CREATE
4	(4)	X'4'	0	\$BTMDSTP	"4" ACTION=DESTROY_PRIVATE
4	(4)	X'8'	0	\$BTMSET	"8" ACTION=SET
4	(4)	X'C'	0	\$BTMRST	"12" ACTION=RESET
4	(4)	X'10'	0	\$BTMTEST	"16" ACTION=TEST
4	(4)	X'14'	0	\$BTMSON	"20" ACTION=SCANON
4	(4)	X'18'	0	\$BTMSOFF	"24" ACTION=SCANOFF
4	(4)	X'1C'	0	\$BTMCLR	"28" ACTION=CLEAR
4	(4)	X'20'	0	\$BTMSETR	"32" ACTION=SETRANGE
4	(4)	X'24'	0	\$BTMTSRO	"36" ACTION=TESTRANGE_ON
4	(4)	X'28'	0	\$BTMTSRF	"40" ACTION=TESTRANGE_OFF
4	(4)	X'2C'	0	\$BTMDSTC	"44" ACTION=DESTROY_COMMON
5	(5)	BITSTRING	1	\$BTMFLG	\$BITMAP option flags
		1... ....		\$BTMCRTC	"B'10000000" For ACTION=CREATE: ON = (CREATE,COMMON) OFF = (CREATE,PRIVATE)
		.1.. ....		\$BTMCRON	"B'01000000" For ACTION=CREATE: ON = (CREATE,...,INITON) OFF = (CREATE,...,INITOFF)
		..1. ....		\$BTMNOAT	"B'00100000" ATOMIC=NO was specified.
		...1 ....		\$BTMERCDC	"B'00010000" BOUNDARY_ABEND=CODE/ABEND ON = Return error code for boundary errors OFF = \$ERROR on boundary errors.

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MEMBER NAME --> \$MODCHK ROUTINE(S) ---> \$MODCHK in HASPCSV MACRO(S) ----> \$MODCHK					
End of Comment					
4	(4)	BITSTRING 1... ....	1	\$MCFLAG1	Flag byte 1
		.1... ....		\$MCMMSG	"B'10000000" MESSAGE=YES specified
				\$MCMMSG	"B'01000000" MESSAGE=SUPPRESS specified
5	(5)	BITSTRING	1		Reserved
5	(5)	X'2'	0	\$MCBYTES	"L'\$MCTESTS" Number of bytes for test flags \$MCBYTES*8 must be larger than or equal to \$MCNTEST
6	(6)	BITSTRING	2	\$MCTESTS	Test requested byte
6	(6)	BITSTRING	0	\$MCRMD24	"B'1000000000000000" Module below 16meg line
6	(6)	BITSTRING	0	\$MCCOMMN	"B'0100000000000000" Module in common storage
6	(6)	BITSTRING	0	\$MCMIT	"B'0010000000000000" Module large enough for MIT, MIT id valid, MITETBL in module
6	(6)	BITSTRING	0	\$MCVERS	"B'0001000000000000" HCT version=version in MIT
6	(6)	BITSTRING	0	\$MCNAME	"B'0000100000000000" Module name = name in MIT
6	(6)	BITSTRING	0	\$MCPROPX	"B'0000010000000000" Propagate \$EXIT points to XIT table of defined exits
6	(6)	BITSTRING	0	\$MCRSLVX	"B'0000001000000000" Resolve exit routine addresses to XRT
6	(6)	BITSTRING	0	\$MCTABL	"B'0000000100000000" Process dynamic tables
		1... ....		\$MCADDR	"B'0000000010000000" Resolve routine addresses
		.1... ....		\$MCDYNAM	"B'0000000001000000" Supports dynamic commands
		..1. ....		\$MCDELET	"B'0000000000100000" Can the module be deleted
6	(6)	X'B'	0	\$MCNTEST	"11" Number of tests now defined
Comment					
MEMBER NAME --> \$MSTNTFY ROUTINE(S) ---> \$MSTNTFY in HASPSSRV XCF PCE in HASPXCF MACRO(S) ----> \$MSTNTFY					
End of Comment					
4	(4)	BITSTRING	1	\$MSTTYPE	Flag byte 1
4	(4)	X'1'	0	\$MSTSET	"1" TYPE=SET specified
4	(4)	X'2'	0	\$MSTCLR	"2" TYPE=CLEAR specified
5	(5)	BITSTRING	1	\$MSTFLG1	Flag byte 2
		1... ....		\$MST1ECB	"B'10000000" ECB was supplied
		.1... ....		\$MST1EXT	"B'01000000" EXITPGM was supplied
		..1. ....		\$MST1EXP	"B'00100000" EXITPRM was supplied
Comment					
MEMBER NAME --> \$NATADD ROUTINE(S) ---> \$NATADD in HASPNATS MACRO(S) ----> \$NATADD Nodes Attached Table ADD routine's inline parameter list.					
End of Comment					
4	(4)	BITSTRING	1	\$NADSTAT	NAT queue to \$NATADD element to (see NATCSTAT)
5	(5)	BITSTRING	1	\$NADFLG1	\$NATADD parameter flag
		1... ....		\$NAD1NAT	"B'10000000" Use prototype NAT element
		.1... ....		\$NAD1NCC	"B'01000000" Use prototype NCC record
		..1. ....		\$NAD1STA	"B'00100000" Add static connection
		...1 ....		\$NAD1CES	"B'00010000" Bypass CES TIMETOL check

## \$PARMLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MEMBER NAME --> \$NATGET ROUTINE(S) ---> \$NATGET in HASPNATS MACRO(S) ----> \$NATGET Nodes Attached Table GET routine's inline parameter list.					
End of Comment					
4	(4)	BITSTRING	1	\$NGTSTAT	NAT queue to \$NATGET element from (see NATCSTAT)
5	(5)	BITSTRING	1	\$NGTFLG1	\$NATGET parameter flag
		1... ....		\$NGT1NAT	"B'10000000" Use prototype NAT element
		.1.. ....		\$NGT1NCC	"B'01000000" Use prototype NCC record
		..1. ....		\$NGT1TOK	"B'00100000" Token provided to routine
		...1 ....		\$NGT1FST	"B'00010000" Use Fast Path \$NATGET
Comment					
MEMBER NAME --> \$NATMOD ROUTINE(S) ---> \$NATMOD in HASPNATS MACRO(S) ----> \$NATMOD Nodes Attached Table MODify routine's inline parameter list.					
End of Comment					
4	(4)	BITSTRING	1	\$NMDSTAT	NAT queue to \$NATMOD element to (see NATCSTAT)
5	(5)	BITSTRING	1	\$NMDFLG1	\$NATMOD parameter flag 1
		1... ....		\$NMD1NAT	"B'10000000" Use prototype NAT element
		.1.. ....		\$NMD1NCC	"B'01000000" Use prototype NCC record
		..1. ....		\$NMD1FST	"B'00100000" Use Fast Path \$NATMOD
		...1 ....		\$NMD1STA	"B'00010000" Modify STATIC connection
		.... 1..		\$NMD1CES	"B'00001000" Bypass CES TIMETOL check
Comment					
MEMBER NAME --> \$NATNOT ROUTINE(S) ---> \$NATNOT in HASPNATS MACRO(S) ----> \$NATNOT Nodes Attached Table NOTify routine's inline parameter list.					
End of Comment					
4	(4)	BITSTRING	1	\$NNTFLG1	\$NATNOT parameter flag 1
		1... ....		\$NNT1SET	"B'10000000" TYPE=SET or TESTSET
		.1.. ....		\$NNT1TST	"B'01000000" TYPE=TEST or TESTSET
		..1. ....		\$NNT1NOT	"B'00100000" NOTIFIED=YES
		...1 ....		\$NNT1FST	"B'00010000" PATH=FAST
		.... 1..		\$NNT1MTR	"B'00001000" Update MASTER notify map
		.... .1..		\$NNT1MMA	"B'00000100" SCOPE=MAS was specified
Comment					
MEMBER NAME --> \$NATREM ROUTINE(S) ---> \$NATREM in HASPNATS MACRO(S) ----> \$NATREM Nodes Attached Table REMove routine's inline parameter list.					
End of Comment					
4	(4)	BITSTRING	1	\$NRMFLG1	\$NATREM parameter flag 1
		1... ....		\$NRM1STA	"B'10000000" Remove static NAT
		.1.. ....		\$NRM1ALL	"B'01000000" Remove all NATs



Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>MEMBER NAME --&gt; \$NHR            ROUTINE(S) ---&gt; NJEHDRCV in HASPNET            MACRO(S) ----&gt; \$NHDRCV            Network Header Receive routine's inline parameter list.</p>					
End of Comment					
4	(4)	BITSTRING 1... ....	1	\$NHRFLG1 \$NHR1XIT	\$NHDRCV parameter flag 1 "B'10000000" Invoke exit 47 after recv
5	(5)	BITSTRING	1	\$NHRSRCB	SRCB of received header
Comment					
<p>MEMBER NAME --&gt; \$NHW            ROUTINE(S) ---&gt; NJEHDRWR in HASPNET            MACRO(S) ----&gt; \$NHDWRT            Network Header Write routine's inline parameter list.</p>					
End of Comment					
4	(4)	BITSTRING 1... .... .1.. ....	1	\$NHWFLG1 \$NHW1FRE \$NHW1WAT	\$NHDWRT parameter flag 1 "B'10000000" Free header after write "B'01000000" Wait for write to complete
Comment					
<p>MEMBER NAME --&gt; \$NHX            ROUTINE(S) ---&gt; NJEHDXMT in HASPNET            MACRO(S) ----&gt; \$NHDXMT            Network Header Transmit routine's inline parameter list.</p>					
End of Comment					
4	(4)	BITSTRING 1... .... .1.. ....	1	\$NHXFLG1 \$NHX1FRE \$NHX1XIT	\$NHDXMT parameter flag 1 "B'10000000" Free header after xmit "B'01000000" Invoke exit 46 before xmit
5	(5)	BITSTRING	1	\$NHXSRCB	SRCB of xmitted header
Comment					
<p>MEMBER NAME --&gt; \$NSL            ROUTINE(S) ---&gt; \$NSSTLOK in HASCNJAS            MACRO(S) ----&gt; \$NSSTLOK            Synchronize local and checkpointed NITs.</p>					
End of Comment					
4	(4)	BITSTRING 1... .... .1.. .... ..1. ....	1	\$NSLFLG1 \$NSL1OBT \$NSL1WAT \$NSL1SHR	\$NSSTLOK parameter flag 1 "B'10000000" REQUEST=OBTAIN "B'01000000" WAIT=YES "B'00100000" SHARED=YES
Comment					
<p>MEMBER NAME --&gt; \$NSY            ROUTINE(S) ---&gt; \$NITSYNC in HASPNET            MACRO(S) ----&gt; \$NITSYNC            Synchronize local and checkpointed NITs.</p>					
End of Comment					
4	(4)	BITSTRING 1... .... .1.. .... ..1. .... ...1 ....	1	\$NSYFLG1 \$NSY1REF \$NSY1CMP \$NSY1LOC \$NSY1CKP	\$NITSYNC parameter flag 1 "B'10000000" ACTION=(REFRESH,) "B'01000000" ACTION=(COMPARE,) "B'00100000" ACTION=(,LOCAL) "B'00010000" ACTION=(,CKPT)

## \$PARMLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... 1...		\$NSY1MSG	"B'00001000" MESSAGE=YES
		.... .1..		\$NSY1NIT	"B'00000100" Update single NIT
Comment					
MEMBER NAME --> \$NOT ROUTINE(S) ---> \$NOTIFY in HASCSIRQ MACRO(S) ----> \$NOTIFY Send a NJE notify message					
End of Comment					
4	(4)	BITSTRING	1	\$NOTFLG1	\$NOTIFY parameter flag 1
		1... ....		\$NOT1NJB	"B'10000000" JOB=NO was specified
		.1.. ....		\$NOT1NUM	"B'01000000" NODENUM was specified
		..1. ....		\$NOT1JQE	"B'00100000" JQE was specified
		...1 ....		\$NOT1NUS	"B'00010000" USERID=NONE
		.... 1...		\$NOT1MEM	"B'00001000" MEMBER= was specified
Comment					
MEMBER NAME --> \$PBL ROUTINE(S) ---> \$PDBBLD IN HASCDL MACRO(S) ----> \$PDBBLD BUID AND INITIALIZE A PDBBLD ROUTINE'S INLINE PARAMETER LIST.					
End of Comment					
4	(4)	BITSTRING	1	\$PBFLAG1	\$PDBBLD MACRO OPTION FLAGS FOR USER ENVIRONMENT
		1... ....		\$PB1DPDB	"B'10000000" INDICATE TYPE=PDBBLD
		.1.. ....		\$PB1DSPN	"B'01000000" INDICATE TYPE=SPIN
		..1. ....		\$PB1DAUG	"B'00100000" Indicate SPIN=DAUGHTER
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
Comment					
MEMBER NAME --> \$PRG ROUTINE(S) ---> \$PURGER IN HASPTRAK MACRO(S) ----> \$PURGE PURGER routine inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$PRGFLG1	Flag byte
		1... ....		\$PRG1Vfy	"B'10000000" SAF verification required
		.1.. ....		\$PRG1ENF	"B'01000000" Issue PURGE ENF
Comment					
MEMBER NAME --> \$PSQ ROUTINE(S) ---> XPOSTXEQ in HASPXEQ MACRO(S) ----> \$POSTXEQ XPOSTXEQ routine inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$PSQFLG1	Flag byte
		1... ....		\$PSQ1MAS	"B'10000000" Wake up all members of MAS
		.1.. ....		\$PSQ1JQE	"B'01000000" Caller provided JQE in R1

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>MEMBER NAME --&gt; \$PTA            ROUTINE(S) ---&gt; \$PUTABLE in HASPTABS            MACRO(S) -----&gt; \$PUTABLE            \$PUTABLE routine inline parameter list</p>					
End of Comment					
4	(4)	BITSTRING	1	\$PTAFLG1	Flag byte
		1... ....		\$PTA1MCT	"B'10000000" Offset of \$PAIR is in MCT
		.1... ....		\$PTA1UCT	"B'01000000" Offset of \$PAIR is in UCT
		..1. ....		\$PTA1CCT	"B'00100000" Offset of \$PAIR is in HCCT
Comment					
<p>MEMBER NAME --&gt; \$QB            ROUTINE(S) ---&gt; \$QBUSY in HASPJQS            MACRO(S) -----&gt; \$QBUSY            \$QBUSY routines inline parameter list.</p>					
End of Comment					
4	(4)	BITSTRING	1	\$QBSYFLG	\$QBUSY parameter flag
		1... ....		\$QBACTON	"B'10000000" Set the busy bits for this JQE on
		.1... ....		\$QBACTOF	"B'01000000" Set the busy bits for this JQE off
		..1. ....		\$QBTRACE	"B'00100000" Trace this call
		...1 ....		\$QBREAL	"B'00010000" Real JQE was passed
		.... 1...		\$QBNALCT	"B'00001000" Don't alter xeq class count
		.... .1..		\$QBHV CAT	"B'00000100" CAT passed in by caller
		.... ..1.		\$QBDODEV	"B'00000010" Set JQEDEV ID from PCEDCT
		.... ...1		\$QBDEVID	"B'00000001" Set JQEDEV ID from passed field
Comment					
<p>MEMBER NAME --&gt; \$#B            ROUTINE(S) ---&gt; \$#BUSY in HASPJOS            MACRO(S) -----&gt; \$#BUSY            \$#BUSY routines inline parameter list.</p>					
End of Comment					
4	(4)	BITSTRING	1	\$#BSYFLG	\$#BUSY parameter flag
		1... ....		\$#BACTON	"B'10000000" Set the busy bits for this JOE on
		.1... ....		\$#BACTOF	"B'01000000" Set the busy bits for this JOE off
		..1. ....		\$#BTRACE	"B'00100000" Trace this call
		...1 ....		\$#BREAL	"B'00010000" Real JOE was passed
		.... 1...		\$#BPOST	"B'00001000" \$#POST the JOE
		.... .1..		\$#BDODEV	"B'00000100" Set JOEDEV ID from PCEDCT
		.... ..1.		\$#BDEVID	"B'00000010" Set JOEDEV ID from passed field
		.... ...1		\$#BCKPNO	"B'00000001" No Checkpoint of JOE
5	(5)	BITSTRING	1	\$#BSYFL2	Second inline flag byte
		1... ....		\$#BCKPON	"B'10000000" Checkpoint only JOEBUSY and JOEDEV ID
Comment					
<p>MEMBER NAME --&gt; \$QRBDCHK            ROUTINE(S) ---&gt; \$QRBDCHK in HASPJQS            MACRO(S) -----&gt; \$QRBDCHK            \$QRBDCHK routines inline parameter list.</p>					
End of Comment					
4	(4)	BITSTRING	1	\$QRBDFLG	\$QRBDCHK parameter flag
		1... ....		\$QRQNONE	"B'10000000" This JQE is currently not on a job queue
		.1... ....		\$QRQOTH	"B'01000000" This JQE is currently on another queue
		..1. ....		\$QRQRBLD	"B'00100000" This JQE is currently on the rebuild queue

## \$PARMLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
MEMBER NAME --> \$RBDCHK ROUTINE(S) ---> \$RBDCHK in HASPJOS MACRO(S) ----> \$RBDCHK \$RBDCHK routines inline parameter list.					
End of Comment					
4	(4)	BITSTRING	1	\$RBDFLG	\$RBDCHK parameter flag
		1... ....		\$RQNONE	"B'10000000" This JOE is currently not on an output queue
		.1... ....		\$RQRBLD	"B'01000000" This JOE is currently on the rebuild queue
		..1. ....		\$RQOTH	"B'00100000" This JOE is on one of the normal output queues
Comment					
MEMBER NAME --> QJQEVER ROUTINE(S) ---> QJQEVER in HASPJQS MACRO(S) ----> None QJQEVER routine inline parameter list.					
End of Comment					
4	(4)	BITSTRING	1	\$QJVPFLG	QJQEVER parameter flag
		1... ....		\$QJVALNF	"B'10000000" Validate that this is not a free JQE
		.1... ....		\$QJVRETC	"B'01000000" Validate JQE and return RC(do not abend)
		..1. ....		\$QJVNJQA	"B'00100000" Do not allow if JQA
Comment					
MEMBER NAME --> \$QSUSE ROUTINE(S) ---> \$QSUSE in HASPNUC MACRO(S) ----> \$QSUSE Obtain JES2 queues parameter list Note: Update HASMPERF if this inline parameter list changes.					
End of Comment					
4	(4)	BITSTRING	1	\$QSUFLG1	\$QSUSE parameter flag
		1... ....		\$QSU1LUR	"B'10000000" Passively wait for queues
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	8	\$QSUSECT	Control Section name
14	(E)	CHARACTER	8	\$QSUSEQF	Invoking seq number
14	(E)	X'16'	0	\$QSUPLN	"*-PARMLIST" Length of this parm list
Comment					
MEMBER NAME --> QTYPESET ROUTINE(S) ---> QTYPESET in HASPJQS MACRO(S) ----> None QTYPESET routine inline parameter list.					
End of Comment					
4	(4)	BITSTRING	1	\$QTYPFLG	QTYPESET parameter flag
		1... ....		\$QTYALTE	"B'10000000" Begin processing at the alternate spot (QTSTPRG)
Comment					
MEMBER NAME --> \$REP ROUTINE(S) ---> \$REP in HASPJOS MACRO(S) ----> \$REP \$REP routine inline parameter list.					
End of Comment					

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	BITSTRING	1	\$#REPFLG	\$#REP parameter flag
		1... ....		\$#REPW	"B'10000000" Wait if JOT is full
		.1.. ....		\$#REPC	"B'01000000" Copy JWELs from orig JOE
		.... 1...		\$#REPREM	"B'00001000" REMJOE was specified.

Comment

MEMBER NAME --> \$RET  
 ROUTINE(S) ---> \$CRETRN IN HASCLINK  
           \$RETURN IN HASPNUC  
           FSMRETRN IN HASPFSSM  
 MACRO(S) ----> \$RETURN (assembler)  
           \$RETURNP (PL/X)  
 COMMON RETURN SERVICE ROUTINE'S INLINE PARAMETER LIST.

End of Comment

4	(4)	BITSTRING	1	\$RETFLAG	\$RETURN MACRO OPTION FLAGS FOR USER & SUBTASK ENVIRONMENT
		1... ....		\$RETANY	"B'10000000" (USER,ANY) ENVIRONMENT
		.1.. ....		\$RETPARM	"B'01000000" PARM=YES WAS SPECIFIED
		..1. ....		\$RETTTRCD	"B'00100000" Trace data passed
		.... 1111		\$RETTREG	"B'00001111" Register in save area with return address (if not R14)
5	(5)	BITSTRING	1		Reserved
6	(6)	BITSTRING	1	\$RETTFLG	Trace data flags (see \$SAVTFLG for bits)
7	(7)	BITSTRING	1	\$RETTDAT	TRACE data address register
8	(8)	BITSTRING	1	\$RETTLEN	TRACE data length
9	(9)	BITSTRING	1		Reserved

Comment

MEMBER NAME --> \$ROLL  
 ROUTINE(S) ---> \$ROLL in HASPEVTL  
 MACRO(S) ----> \$ROLL (assembler)  
 \$ROLL inline parameter list

End of Comment

4	(4)	BITSTRING	1	\$ROLLSRV	Trace caller Service ID 1
5	(5)	BITSTRING	1		Reserved
6	(6)	SIGNED	2	\$ROLLOFF	HCT offset of Trace Tbl @
		.... ....		\$ROLJQEI	"X'02000000" CTRACE format ID for JQEs
		.... ....		\$ROLJOEI	"X'03000000" CTRACE format ID for JOEs
		.... ....		\$ROLDSPi	"X'04000000" CTRACE format ID for DISPs

Comment

MEMBER NAME --> \$RQGT  
 ROUTINE(S) ---> \$RQUEGET IN HASCRQUE  
 MACRO(S) ----> \$RQUE  
 \$RQUE 'GET' INLINE PARAMETER LIST.

End of Comment

4	(4)	BITSTRING	1	\$RQGTFL1	Flag byte
		1... ....		\$RQGT1RC	"B'10000000" Recovery request
		.1.. ....		\$RQGT1VE	"B'01000000" Veto routine provided

Comment

MEMBER NAME --> \$RRA  
 ROUTINE(S) ---> \$RROUTE IN HASPSERV  
 MACRO(S) ----> \$RROUTE  
 RROUTE AUTHORIZATION INLINE PARAMETER LIST.

End of Comment

# \$PARMLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	BITSTRING 1... ..	1	\$RRAFLG1 \$RRA1JOB	\$RRA FLAG BYTE "B'10000000" REROUTE JOB REQUEST
Comment					
MEMBER NAME --> \$RTA ROUTINE(S) ---> \$RETABLE in HASPTABS MACRO(S) ----> \$RETABLE \$RETABLE routine inline parameter list					
End of Comment					
4	(4)	BITSTRING 1... .. .1.. .. ..1. .... .... ..1. .... ..1	1	\$RTAFLG1 \$RTA1MCT \$RTA1UCT \$RTA1CCT \$RTA1FRY \$RTA1FRN	Flag byte "B'10000000" Offset of \$PAIR is in MCT "B'01000000" Offset of \$PAIR is in UCT "B'00100000" Offset of \$PAIR is in HCCT "B'00000010" Free DYNT YES specified "B'00000001" Free DYNT NO specified Free DYNT COND both off
Comment					
MEMBER NAME --> \$SAV ROUTINE(S) ---> \$CSAVE IN HASCLINK \$GETSAVE IN HASPNUC FMS\$SAVE IN HASPFSSM MACRO(S) ----> \$SAVE (assembler) \$SAVEP (PL/X) COMMON SAVE SERVICE ROUTINE'S INLINE PARAMETER LIST.					
End of Comment					
4	(4)	BITSTRING 1... .. .1.. .. ..1. .... ...1 .... .... 1... .... ..1. .... ..1	1	\$SAVFLAG \$SAVTRC \$SAVTRE \$SAVNRG \$SAVARS \$SAVANY \$SAVUANY \$SAVTRCD \$SAVNRLS	\$SAVE MACRO OPTION FLAGS FOR THE USER & SUBTASK ENVIRONMENT "B'10000000" TRACE THIS SAVE "B'01000000" TRE WAS PROVIDED "B'00100000" REGS=NO WAS PROVIDED "B'00010000" SYSSTATE=AR at macro time "B'00001000" SYSSTATE=ANY at macro time "B'00000100" \$ENVIRON (USER,ANY) "B'00000010" Trace data passed "B'00000001" Registers in linkage stack (and REGS=NO)
5	(5)	BITSTRING 1... ..	1	\$SAVFLG2	More option flags "B'10000000" SYSSTATE AMODE64=YES at macro time
6	(6)	CHARACTER	8	\$SAVNAME	EBCDIC LABEL
14	(E)	BITSTRING 1... .. .1.. .. ..1. .... ...1 .... .... 1... .... ..1. .... ..1	1	\$SAVTFLG \$SAVTLRR \$SAVTLHR \$SAVTLAR \$SAVTLOF \$SAVTDRR \$SAVTDHR \$SAVTDAR	Trace data flags "B'10000000" \$SAVTLEN low half of reg "B'01000000" \$SAVTLEN high half of reg "B'00100000" \$SAVTLEN access register "B'00010000" \$SAVTLEN is an offset "B'00001000" \$SAVTDAT low half of reg "B'00000100" \$SAVTDAT high half of reg "B'00000010" \$SAVTDAT access register
15	(F)	BITSTRING	1	\$SAVTDAT	TRACE data address register
16	(10)	BITSTRING	1	\$SAVTLEN	TRACE data length
17	(11)	BITSTRING	1	\$SAVAREG	Access regs (of 0,1,15) to save
Comment					
MEMBER NAME --> \$SCD ROUTINE(S) ---> SCANDIAG IN HASCSCAN MACRO(S) ----> \$SCANDIA \$SCAN Diagnostic message routine					
End of Comment					
4	(4)	BITSTRING	1	\$SCDFLG1	\$SCANDIA MACRO OPTION FLAGS

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		1... ....		\$SCD1WAR	"B'10000000" TYPE=WARN message
Comment					
MEMBER NAME --> \$SF ROUTINE(S) ---> \$SJBFIN IN HASCSRJB MACRO(S) ----> \$SJBFIN SUBSYSTEM JOB BLOCK FIND ROUTINE'S INLINE PARAMETER LIST.					
End of Comment					
4	(4)	BITSTRING	1	\$SFFLAG1	\$SJBFIN MACRO OPTION FLAGS
		1... ....		\$SF1LOJ	"B'10000000" FIND THE LIFE OF JOB SJB
		.1. ....		\$SF1SSIB	"B'01000000" FIND THE SSIB SJB
		.1. ....		\$SF1FRST	"B'00100000" FIND THE FIRST SJB FOR THE A.S.
		...1 ....		\$SF1LAST	"B'00010000" FIND THE LAST SJB FOR THE A.S.
		.... 1...		\$SF1ASID	"B'00001000" ASCB ASID PASSED IN R0
Comment					
MEMBER NAME --> \$SJF ROUTINE(S) ---> \$SJBFREE IN HASCSRJB MACRO(S) ----> \$SJBFREE CLEANUP SJB RELATED STORAGE ROUTINE INLINE PARAMETER LIST.					
End of Comment					
4	(4)	BITSTRING	1	\$SJFLAG1	\$SJBFREE MACRO OPTION FLAGS
		1... ....		\$SJFNPVT	"B'10000000" PRIVATE STORAGE NOT AVAILBL
		.1. ....		\$SJFMEM	"B'01000000" Dechain SJB, don't FREEMAIN
Comment					
MEMBER NAME --> \$SIGIO ROUTINE(S) ---> \$SIGIO in HASCSRDS and HASPSPOL MACRO(S) ----> \$SIGIO Signature Record I/O parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$SIGFLG1	\$SIGIO parameter flag
		1... ....		\$SIG1W	"B'10000000" Write Signature record
		.1. ....		\$SIG1R	"B'01000000" Read Signature record
		.1. ....		\$SIG1SKP	"B'00100000" Skip invalid extents
		...1 ....		\$SIG1MQT	"B'00010000" MQT= specified
		.... 1...		\$SIG1VAV	"B'00001000" Verify TG is available
Comment					
MEMBER NAME --> \$SL ROUTINE(S) ---> \$SJBLOCK IN HASCSRJB MACRO(S) ----> \$SJBLOCK SUBSYSTEM JOB BLOCK LOCK ROUTINE'S INLINE PARAMETER LIST.					
End of Comment					
4	(4)	BITSTRING	1	\$SLFLAG1	\$SJBLOCK MACRO OPTION FLAGS
Comment					
EQU B'10000000' RESERVED EQU B'01000000' RESERVED					
End of Comment					
		..1. ....		\$SL1RETN	"B'00100000" RETURN TO CALLER IF SJB LOCK OWNER IS NON-DISPATCHABLE

# \$PARMLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		...1 ....		\$SL1WAIT	"B'00010000" RETURN TO CALLER IF SJB LOCK IS NOT AVAILABLE (RC=16)
Comment					
MEMBER NAME --> \$SPIN ROUTINE(S) ---> HFEEXSPIN in HASCDSOC MACRO(S) ----> \$SPIN Data set dynamic spin routine					
End of Comment					
4	(4)	BITSTRING	1	\$SPNFLG1	Option flags
		1... ....		\$SPN1CY	"B'10000000" Spin companion file too
		.1... ....		\$SPN1NL	"B'01000000" SDB lock not held
Comment					
MEMBER NAME --> \$SU ROUTINE(S) ---> \$SJBUNLK in HASCSRJB MACRO(S) ----> \$SJBLOCK TYPE=FREE SJB Unlock routine's inline parameter list					
End of Comment					
4	(4)	BITSTRING	1	\$SUFLAG1	\$SJBLOCK macro option flags
		1... ....		\$SU1FREE	"B'10000000" FREESJB=YES, free the SJB after unlocking it
Comment					
MEMBER NAME --> \$SYMTT ROUTINE(S) ---> \$SYMTT in HASCSRDS MACRO(S) ----> none SYMREC creation for sniffer					
End of Comment					
4	(4)	BITSTRING	1	\$SYMTTF1	\$SYMTT parameter flag
4	(4)	X'1'	0	\$SYM1SNF	"1" Trackgroup falsely thought to be unavail.
4	(4)	X'2'	0	\$SYM1ALT	"2" Trackgroup falsely thought to be available by \$TRACK
4	(4)	X'3'	0	\$SYM1ALS	"3" Trackgroup falsely thought to be available by \$STRAK
4	(4)	X'4'	0	\$SYM1UNA	"4" Trackgroup being purged not owned by purging job
4	(4)	X'5'	0	\$SYM1BLO	"5" Trackgroup which was in BLOB returned to service
4	(4)	X'6'	0	\$SYM1JQA	"6" JQASUMSK did not reflect sniffed track group
Comment					
MEMBER NAME --> \$TGMSET ROUTINE(S) ---> \$TGMSET in HASPTRAK MACRO(S) ----> \$TGMSET \$TGMSET routine inline parameter list. NOTE: - \$TGFLAG AND \$TGFLAG2 MUST STAY TOGETHER!					
End of Comment					
Comment					
----- Option flags -----					
End of Comment					
4	(4)	BITSTRING	1	\$TGFLAG	\$TGMSET parameter flag
		1... ....		\$TGCNTYS	"B'10000000" COUNT=YES, Upd DAS counts
		..1. ....		\$TGTTEST	"B'00100000" TYPE=TEST, Test bit only
		...1 ....		\$TGTPSET	"B'00010000" TYPE=SET, Set the bit only
4	(4)	X'30'	0	\$TGTTSET	"\$TGTTEST+\$TGTPSET" TYPE=TESTSET, Test and set



Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... 1...		\$TGQSYES	"B'00001000" QSUSE=YES, get the QSUSE
		.... .1..		\$TGSETON	"B'00000100" SET=ON Turn bit on in map
		.... ..1.		\$TGMMQT	"B'00000010" MQT= was specified
Comment					
-----					
Flags for TGMTYPE=					
-----					
End of Comment					
5	(5)	BITSTRING	1	\$TGFLAG2	\$TGMSET parameter flag
		1... ....		\$TG2MAP	"B'10000000" TGMTYPE=TGMAP specified
		.1.. ....		\$TG2BAD	"B'01000000" TGMTYPE=TGBAD specified
		..1. ....		\$TG2BTRK	"B'00100000" TGMTYPE=BADTRTG specified
		...1 ....		\$TG2OTHR	"B'00010000" TGMTYPE=OTHER specified
Comment					
MEMBER NAME --> \$#TJEV					
ROUTINE(S) ---> \$#TJEV in HASPJOS					
MACRO(S) ----> \$#TJEV					
\$#TJEV routine inline parameter list.					
End of Comment					
4	(4)	BITSTRING	1	\$#TJVFLG	\$#TJEV parameter flag
		1... ....		\$#TADD	"B'10000000" Add JOE to exclusion vector
		.1.. ....		\$#TSERCH	"B'01000000" Search for JOE in excl list
		..1. ....		\$#TSERAN	"B'00100000" Search for JOE in all lists
		...1 ....		\$#TPURGE	"B'00010000" Purge JOE from all lists
		.... 1...		\$#TMOVE	"B'00001000" Move excl bit to new JOE
Comment					
MEMBER NAME --> \$TRK					
ROUTINE(S) ---> \$TRACK IN HASPTRAK, \$STRAK IN HASCSRIC					
MACRO(S) ----> \$TRACK					
SPOOL SPACE ALLOCATION ROUTINE'S INLINE PARAMETER LIST.					
End of Comment					
4	(4)	BITSTRING	1	\$TRFLAG1	\$TRACK MACRO OPTION FLAGS
		.... 1...		\$TR1SDB	"B'00001000" SDB provided
		.... .1..		\$TR1SJIO	"B'00000100" SJIOB provided
		.... ..1.		\$TR1WRPM	"B'00000010" WRPRIM=NO, DON'T WRITE PRIMARY IOT
		.... ...1		\$TR1WTNO	"B'00000001" WAIT=NO, DO NOT WAIT FOR BLOBBING
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
Comment					
MEMBER NAME --> TRP					
ROUTINE(S) ---> \$TRACER IN HASCSRIC, HA\$PEVTL IN HASPEVTL					
MACRO(S) ----> \$TRACE					
JES2 EVENT TRACE LOG PROCESSOR INLINE PARAMETER LIST.					
End of Comment					
4	(4)	BITSTRING	1	TRPID	TRACE ID
5	(5)	BITSTRING	1	TRPFLAG1	ENVIRON/TYPE-MOVED TO TTETRPET
		1... ....		TRP1USER	"B'10000000" ENVIRON=USER
		.1.. ....		TRP1STSK	"B'01000000" ENVIRON=SUBTASK
		..1. ....		TRP1JES2	"B'00100000" ENVIRON=JES2
		...1 ....		TRP1FSS	"B'00010000" ENVIRON=FSS

# \$PARMLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>EQU B'00001000' RESERVED FOR FUTURE USE            EQU B'00000100' RESERVED FOR FUTURE USE            EQU B'00000010' RESERVED FOR FUTURE USE</p>					
End of Comment					
6	(6)	.... ..1 CHARACTER	8	TRP1SPIN TRPNAME	"B'00000001" SPIN THE LOG AT CURRENT TABLE TRACE SYMBOL
Comment					
<p>MEMBER NAME --&gt; TSR            ROUTINE(S) ---&gt; \$TOKENSR IN HASCSRIC            MACRO(S) ----&gt; \$TOKENSR            Name/Token Service parameter list</p>					
End of Comment					
4	(4)	BITSTRING 1... .. .1.. .. ..1. .. ...1 .. .... 1..	1	\$TSRFLG1 \$TSR1RET \$TSR1DEL \$TSR1CRE \$TSR1PRS \$TSR1CBA	Flags "B'10000000" RETRIEVE "B'01000000" DELETE "B'00100000" CREATE "B'00010000" PERSIST=YES "B'00001000" CBADDR= was specified
Comment					
<p>MEMBER NAME --&gt; VALSCQJQ            ROUTINE(S) ---&gt; VALSCQJQ IN HASPRTAM            MACRO(S) ----&gt;            Passes inline parameter list for \$SCQJQE validation</p>					
End of Comment					
4	(4)	ADDRESS 1... ..	1	\$VSJFLAG \$RCPINIT	VALSCQJQ parameter flag "B'10000000" Remote console processor initialization
Comment					
<p>MEMBER NAME --&gt; \$WT            ROUTINE(S) ---&gt; \$WAIT IN HASPNUC            MACRO(S) ----&gt; \$WAIT, \$XECBSRV            PCE WAIT MACRO INTERFACE TO THE JES2 DISPATCHER.            Note: Update HASMPERF if this inline parameter list changes.</p>					
End of Comment					
4	(4)	BITSTRING 1... .. .1.. .. ..1. .. ...1 .. .... 1..	1	\$WTFLAG1 \$WT1RES \$WT1XECB \$WT1RETN \$WT1INH \$WT1MCLR \$WT1NHBT	\$WAIT MACRO OPTION FLAGS "B'10000000" \$WAIT FOR A RESOURCE "B'01000000" \$WAIT ON AN EXTENDED ECB "B'00100000" \$WAIT IS TO RETURN WITHOUT WAITING (USED BY \$XECBSRV) "B'00010000" INHIBIT=NO specified on \$WAIT call (ie ignore \$WT1NHBT) "B'00001000" PERFDATA monitor caller id INHIBITOR (PREVENTS REDISPATCHING PCE BEFORE SPECIFIC \$POST)
5	(5)	BITSTRING	1	\$WT1MCLR \$WT1NHBT	"B'00001000" PERFDATA monitor caller id INHIBITOR (PREVENTS REDISPATCHING PCE BEFORE SPECIFIC \$POST)
6	(6)	CHARACTER	8	\$WTCSECT	Control Section name
14	(E)	CHARACTER	8	\$WTSEQF	Invoking seq number
22	(16)	ADDRESS	2	\$WTRESQO	RESOURCE QUEUE OFFSET OR 0
22	(16)	X'18'	0	\$WTPLEN	** -PARMLIST" Length of this parm list

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>MEMBER NAME --&gt; \$WS            ROUTINE(S) ---&gt; SRVWSCAN IN HASPSERV            MACRO(S) -----&gt; \$WSSCAN            SCAN THE WS OPERAND AND CREATE A WORK SELECTION LIST PARAMETER LIST</p>					
End of Comment					
4	(4)	ADDRESS	1	\$WSLISTL	
Comment					
<p>MEMBER NAME --&gt; \$WSU            ROUTINE(S) ---&gt; SRVSETUP IN HASPSERV            MACRO(S) -----&gt; \$WSSETUP            SCAN THE WS OPERAND AND CREATE A WORK SELECTION LIST PARAMETER LIST</p>					
End of Comment					
4	(4)	ADDRESS	1	\$VOLFLD	DEVICE VOLUME FIELD
5	(5)	ADDRESS	1	\$VOLNMFD	DEVICE VOLUME NUMBER FIELD
6	(6)	ADDRESS	1	\$WSFLGOF	Work selection flag offset
7	(7)	BITSTRING	1	\$WSTYPE	CB type passed
7	(7)	X'0'	0	\$WSTUNK	"0" Unknown CB type
7	(7)	X'1'	0	\$WSTWSP	"1" WSP was passed
Comment					
<p>MEMBER NAME --&gt; \$WR            ROUTINE(S) ---&gt; \$WTOC or \$WTOR in HASPCON            MACRO(S) -----&gt; \$WTO            JES2 Main task environment \$WTO inline parameter list. The code in HASPCON depends on this parm list being in this order.</p>					
End of Comment					
4	(4)	ADDRESS	1	\$WRPFLAG	WTO inline parm. flag byte
4	(4)	X'5'	0	\$WREXEND	*** End of execute form parameter list
5	(5)	ADDRESS	1	\$WRTYPE	WTO type
6	(6)	ADDRESS	1	\$WRCLSPR	Class (high order 4 bits), Priority (low order 4 bits)
7	(7)	ADDRESS	1	\$WRROUTE	WTO Routing Information
8	(8)	ADDRESS	1	\$WRLEN	Message Length
9	(9)	BITSTRING	1	\$WRLINTP	MLWTO line type
9	(9)	X'A'	0	\$WRSTEND	*** End of standard form parameter list
Comment					
<p>MEMBER NAME --&gt; \$WT            ROUTINE(S) ---&gt; \$PREWTO IN HASCSRIC            MACRO(S) -----&gt; \$WTO            USER AND SUBTASK ENVIRONMENT \$WTO INLINE PARAMETER LIST.</p>					
End of Comment					
4	(4)	ADDRESS	1	\$WTPFLAG	JES2 Parameter flag byte
5	(5)	ADDRESS	1	\$WTCLASS	JES2 DESCRIPTOR CODE
6	(6)	ADDRESS	1	\$WTRROUTE	JES2 ROUTE CODE
7	(7)	BITSTRING	1	\$WTLINTP	MLWTO line type

# \$PARMLST Map

Offsets		Dec	Hex	Type/Value	Len	Name (Dim)	Description
							Comment
							\$WTO IN-LINE PARAMETER FLAGS \$WRPFLAG and \$WTPFLAG. For \$WTPFLAG only \$WTOJOB and \$WTODOMT are processed.
							End of Comment
	1...	....		\$WTOSTDL		"B'10000000" STANDARD OR LIST FORM \$WTO, CMB TEMPLATE FOLLOWS DIRECTLY	
	.1..	....		\$WTOCMBL		"B'01000000" MF=EX SPECIFIED (LONG CMB TMPL)	
	..1.	....		\$WTOJOB		"B'00100000" JOB=YES SPECIFIED	
	...1	....		\$WTOWAIT		"B'00010000" WAIT=YES SPECIFIED	
	....	1...		\$WTOLNR0		"B'00001000" MESSAGE LENGTH IN R0 (BYTE 3)	
	....	.1..		\$WTODOMT		"B'00000100" Delete outstanding action message if task terminates	
	....	..1.		\$WTODMND		"B'00000010" Use \$GETCMB DEMANDCMB=YES if necessary	
	....	...1		\$WTOTEXT		"B'00000001" TEXT= specified on \$WTO (implies R0 - CONNECT and R1 - TEXT)	
							Comment
							\$WRROUTE - Logical console definitions
							End of Comment
	....	...1		\$LOG		"X'01" SYSTEM LOG CONSOLE	
	....	..1.		\$ERR		"X'02" ERROR CONSOLE MCS ROUTING CODE=(10)	
	....	.1..		\$UR		"X'04" UNIT RECORD OPERATIONS AREA MCS ROUTING CODE=(7)	
	....	1...		\$TP		"X'08" TELE-PROCESSING OPERATIONS MCS ROUTING CODE=(8)	
	...1	....		\$TAPE		"X'10" TAPE HANDLING OPERATIONS MCS ROUTING CODE=(3,4,5,6)	
	..1.	....		\$MAIN		"X'20" CHIEF OPERATORS AREA MCS ROUTING CODE=(1,2)	
	.1..	....		\$SEC		"X'40" SYSTEM SECURITY MCS ROUTING CODE=(9)	
	1...	....		\$SPARE1		"X'80" SPARE 1 MCS ROUTING CODE=(14)	
	.111	1111		\$ALL		"X'7F" ALL UNRESERVED LOCAL CONS.	
							Comment
							\$WTRROUTE - Logical console definitions for user or JES2 subtask environment. \$LOG EQU X'01' SYSTEM LOG CONSOLE (DEFINED ABOVE) \$ERR EQU X'02' ERROR CONSOLE (DEFINED ABOVE)
							End of Comment
	....	.1..		\$MCINFO		"X'04" MASTER CONSOLE INFORMATION	
	....	1...		\$PGINFO		"X'08" PROGRAMMER INFORMATION	
							Comment
							\$WTCLASS or \$WRCLSPR Message Class Definitions - High order 4 bits. (Only those bits should be used to maintain network compatibility due to this byte being part of the NJE architecture). In the main task, only \$DOMACT has meaning, which determines whether the the message is descriptor code 2 (when on) or 4 (when off). Priority - Low order 4 bits. Only used by \$WRCLSPR.
							End of Comment
	...1	....		\$TRIVIA		"X'10" NON-ESSENTIAL MESSAGES	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		..11 ....		\$NORMAL	"X'30" NORMAL MESSAGES
		.1.. ....		\$JOBSTAT	"X'40" JOB STATUS MESSAGES
		.1.1 ....		\$ACTION	"X'50" MESSAGES REQUIRING OPERATOR ACTION
		.111 ....		\$ALWAYS	"X'70" MESSAGES WHICH SHOULD ALWAYS BE SENT
		1... ....		\$DOMACT	"X'80" ACTION REQUIRING A \$DOM FLAG
7	(7)	X'1'	0	\$LO	"1" LOW PRIORITY
7	(7)	X'4'	0	\$ST	"4" STANDARD PRIORITY
7	(7)	X'7'	0	\$HI	"7" HIGH PRIORITY

Comment

MEMBER NAME --> \$VWP  
 ROUTINE(S) ---> VALWTOPL IN HASPCON  
 MACRO(S) ---->  
 PASSES THE MODULE NAME AND FUNCTION ID THRU THE  
 INLINE PARAMETER LIST. FOR \$\$SYMREC GENERATION

End of Comment

4	(4)	CHARACTER	8	\$VWPMODN	MODULE NAME PARAMETER 1
12	(C)	CHARACTER	8	\$VWPFUNC	FUNCTION ID PARAMETER 2

Comment

MEMBER NAME --> \$XM  
 ROUTINE(S) ---> \$XMPOST IN HASCSRIC  
 MACRO(S) ----> \$XMPOST  
 CROSS MEMORY POST SERVICE ROUTINE INLINE PARAMETER LIST

End of Comment

4	(4)	BITSTRING	1	\$XMFLAG1	FLAG 1
		1... ....		\$XM1XMP	"B'10000000" CROSS MEMORY PLIST WAS PASSED
		.1.. ....		\$XM1QUIK	"B'01000000" QUICK POSTING IS ALLOWED
		..1. ....		\$XM1COMP	"B'00100000" COMPLETION CODE WAS CODED
		...1 ....		\$XM1LPST	"B'00010000" Parm list mapping that enables lost POST detection being used
		.... 1..		\$XM1STKN	"B'00001000" STOKEN= was specified
		.... .1..		\$XM1TTKN	"B'00000100" TTOKEN= was specified
		.... ..1.		\$XM1NPST	"B'00000010" TERM_TCB=NOPOST specified

### \$PARMLST Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$\$POFLG1	4		\$\$JADD	4	10
\$\$PO1BRA	4	80	\$\$JALL	4	2
\$\$PO1BR3	4	8	\$\$JANCHR	5	10
\$\$PO1ELM	4	20	\$\$JANY	4	1
\$\$PO1RUN	4	10	\$\$JATTCH	5	40
\$\$PO1SYS	4	40	\$\$JCOND	4	4
\$\$ADDFLG	4		\$\$JDETC	5	80
\$\$ADDJOA	4	80	\$\$JFORCE	4	8
\$\$BACTOF	4	40	\$\$JINIT	5	20
\$\$BACTON	4	80	\$\$JLONG	4	80
\$\$BCKPNO	4	1	\$\$JPURGE	4	20
\$\$BCKPON	5	80	\$\$JSERCH	4	40
\$\$BDEVID	4	2	\$\$JWLFLG	4	
\$\$BDODEV	4	4	\$\$JWLFL2	5	
\$\$BPOST	4	8	\$\$PFRJOA	4	8
\$\$BREAL	4	10	\$\$PJWEL	4	10
\$\$BSYFLG	4		\$\$PUTFLG	4	
\$\$BSYFL2	5		\$\$RBDFLG	4	
\$\$BTRACE	4	20	\$\$REPC	4	40
\$\$DSFJOA	4	80	\$\$REPFLG	4	
\$\$DSPFLG	4		\$\$REPREM	4	8

## \$PARMLST Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$#REPW	4	80	\$CDCTXRQ	4	6
\$#RQNONE	4	80	\$CDCTYPE	4	
\$#RQOTH	4	20	\$CDC1BRC	5	4
\$#RQRBLD	4	40	\$CDC1BRO	5	20
\$#TADD	4	80	\$CDC1CRE	5	80
\$#TJVFLG	4		\$CDC1INV	5	10
\$#TMOVE	4	8	\$CDC1SYN	5	40
\$#TPURGE	4	10	\$CDC1VAL	5	8
\$#TSERAN	4	20	\$CFXFLG1	4	
\$#TSERCH	4	40	\$CFX1RSP	4	80
\$ACTION	7	50	\$CKQRTN	4	
\$AEOJFL1	4		\$CPL1	4	
\$AEOJ1EM	4	40	\$CPL1CDY	4	80
\$AEOJ1JT	4	80	\$CPL1HXN	4	40
\$ALL	7	7F	\$CRJFLG1	4	
\$ALWAYS	7	70	\$CRJ1ALC	4	20
\$BTGBMTR	4	80	\$CRJ1CLR	4	8
\$BTGBTGM	4	40	\$CRJ1FRE	4	10
\$BTGFLG1	4		\$CWTOFLG	4	
\$BTMACT	4		\$CWTOFLST	4	40
\$BTMCLR	4	1C	\$CWTOFVC	4	80
\$BTMCRON	5	40	\$CWTONWT	4	20
\$BTMCRT	4	0	\$DGBACT	4	
\$BTMCRTC	5	80	\$DGBCAT	6	2
\$BTMDSTC	4	2C	\$DGBCB	6	
\$BTMDSTP	4	4	\$DGBCKPT	4	3
\$BTMERCDC	5	10	\$DGBDYN	6	FF
\$BTMFLG	5		\$DGBFLAG	5	
\$BTMNOAT	5	20	\$DGBFLG2	7	
\$BTMRST	4	C	\$DGBFREE	4	5
\$BTMSET	4	8	\$DGBFTCH	4	1
\$BTMSETR	4	20	\$DGBINT	6	0
\$BTMSOFF	4	18	\$DGBJQE	6	1
\$BTMSON	4	14	\$DGBNAME	5	10
\$BTMTEST	4	10	\$DGBNEXT	4	2
\$BTMTSRF	4	28	\$DGBNRDD	5	1
\$BTMTSRO	4	24	\$DGBNUPD	5	2
\$CBCKPTB	7		\$DGBQSUS	5	40
\$CBCKPTF	C		\$DGBRETN	4	4
\$CBIFLG1	4		\$DGBSPEC	5	4
\$CBIFLG2	5		\$DGBSTSP	4	6
\$CBSPOLP	A		\$DGBTNAM	8	
\$CBSTORP	8		\$DGBTOKN	5	8
\$CBVERID	E		\$DGBUPDT	5	20
\$CBVERIX	12		\$DGBWAIT	5	80
\$CB1COND	4	1	\$DGBWSCQ	6	3
\$CB1EXIT	4	40	\$DGB2CRE	7	80
\$CB1FREE	4	4	\$DGB2NEV	7	8
\$CB1NOVF	4	20	\$DGB2PAD	7	20
\$CB1NSJB	4	10	\$DGB2PBE	7	10
\$CB1SJIO	4	8	\$DGB2UNK	7	40
\$CB1WAIT	4	2	\$DGD1FLG1	4	
\$CB2FSSM	5	20	\$DGD1FLG2	5	
\$CB2MQTR	5	8	\$DGD1BRO	4	4
\$CB2NORF	5	2	\$DGD1CRE	4	2
\$CB2SPLQ	5	4	\$DGD1FET	4	80
\$CB2SUPM	5	10	\$DGD1FRE	4	8
\$CB2TWAT	5	40	\$DGD1FTN	4	40
\$CB2WRIT	5	80	\$DGD1NUP	4	10
\$CDCFLG1	5		\$DGD1RES	4	1
\$CDCTAPT	4	2	\$DGD1UPD	4	20
\$CDCTCDC	4	5	\$DGD2ACC	5	80
\$CDCTDCT	4	1	\$DGD2CAC	5	40
\$CDCTRAT	4	4	\$DGD2WAI	5	20
\$CDCTSCK	4	3	\$DGTFLG1	4	

\$PARMLST Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$DGTFLG2	5		\$DJCHAIN	6	
\$DGT1AQR	4	2	\$DJCVER	3	2
\$DGT1AQS	4	4	\$DJFLAG2	1	
\$DGT1FET	4	80	\$DJFLAG3	2	
\$DGT1FTN	4	40	\$DJFLAG4	4	
\$DGT1INT	4	8	\$DJFLAG5	5	
\$DGT1NUP	4	10	\$DJLEN	6	8
\$DGT1TYP	4	1	\$DJVERS	3	
\$DGT1UPD	4	20	\$DJ2CONF	1	8
\$DGT2BRO	5	80	\$DJ2DSRV	1	80
\$DGT2WAI	5	40	\$DJ2KEEP	1	20
\$DGVFLG1	4		\$DJ2NWAT	1	10
\$DGV1CKP	4	2	\$DJ2POST	1	4
\$DGV1CRE	4	40	\$DJ2SPCL	1	40
\$DGV1FET	4	80	\$DJ2UCON	1	2
\$DGV1FRE	4	4	\$DJ2URFR	1	1
\$DGV1NUP	4	8	\$DJ3#PSY	2	4
\$DGV1RED	4	20	\$DJ3MAX	2	2
\$DGV1UPD	4	10	\$DJ3NUPD	2	10
\$DGV1WAI	4	1	\$DJ3QPSY	2	8
\$DGWFLG1	4		\$DJ3RCVY	2	1
\$DGWFLG2	5		\$DJ3READ	2	80
\$DGW1BRO	4	1	\$DJ3RELE	2	40
\$DGW1CKP	4	4	\$DJ3WDEF	2	20
\$DGW1CRE	4	2	\$DOACKPT	1	C
\$DGW1FET	4	80	\$DOACT	1	
\$DGW1FRE	4	8	\$DOACTOR	6	
\$DGW1FTN	4	40	\$DOAFET	1	4
\$DGW1NUP	4	10	\$DOAFETN	1	0
\$DGW1UPD	4	20	\$DOAFLD	1	10
\$DGW2WAI	5	80	\$DOAFREE	1	18
\$DILCVER	5	1	\$DOAQLOK	1	1C
\$DILFLG1	6		\$DOAREFR	1	14
\$DILFLG2	7		\$DOARET	1	8
\$DILF1#P	6	1	\$DOASETA	1	20
\$DILF1CL	6	80	\$DOCHAIN	6	
\$DILF1FL	6	10	\$DOCKLEN	8	
\$DILF1IM	6	40	\$DOCKOFF	6	
\$DILF1ND	6	4	\$DOCOVER	0	1
\$DILF1PO	6	8	\$DOFLAG2	2	
\$DILF1QP	6	2	\$DOFLAG3	3	
\$DILF1WA	6	20	\$DOFLAG4	4	
\$DILF2CK	7	10	\$DOFLAG5	5	
\$DILF2FN	7	4	\$DOLEN	8	A
\$DILF2FP	7	2	\$DOMACT	7	80
\$DILF2FT	7	1	\$DOVERS	0	
\$DILF2PA	7	80	\$DO2CONF	2	4
\$DILF2QS	7	40	\$DO2DSRV	2	80
\$DILF2SP	7	20	\$DO2NROL	2	2
\$DILIMME	8		\$DO2NWAT	2	10
\$DILTJOE	4	2	\$DO2RCVY	2	1
\$DILTJQE	4	1	\$DO2READ	2	20
\$DILTYPE	4		\$DO2SPCL	2	40
\$DILVERS	5		\$DO2WDEF	2	8
\$DJACKPT	0	10	\$DO3KEEP	3	40
\$DJACT	0		\$DO3MAX	3	2
\$DJAFET	0	4	\$DO3NUPD	3	10
\$DJAFETN	0	0	\$DO3POST	3	1
\$DJAFLD	0	24	\$DO3QLOB	3	8
\$DJAFREE	0	18	\$DO3RELE	3	80
\$DJALOCK	0	8	\$DO3UCON	3	20
\$DJAQLOK	0	20	\$DO4#PSY	4	40
\$DJAREFR	0	14	\$DO4KPJW	4	20
\$DJARET	0	C	\$DO4MNJT	4	10
\$DJASETA	0	1C	\$DO4PSTA	4	80

## \$PARMLST Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$DSDFLG1	4		\$FBMCTSE	6	E
\$DSDFLG2	5		\$FBMCTSI	6	B
\$DSD2FOR	5	80	\$FBMCTSM	6	F
\$DSRFLG1	4		\$FBMCTSR	6	C
\$DSR1FRE	4	40	\$FBMCTST	6	D
\$DSR1GET	4	80	\$FBMCTUI	6	10
\$DSR1LIV	4	20	\$FBMCTUR	6	11
\$DSR1RFR	4	10	\$FBMCTYP	6	
\$DSTCHAR	4	80	\$FBMFLG1	4	
\$DSTFLG1	4		\$FBMFLG2	5	
\$DSTFLG2	5		\$FBMID	7	
\$DSTGNRC	4	20	\$FBMIDV	7	81
\$DSTNRP	4	8	\$FBMPLEN	10	14
\$DSTNSPR	4	1	\$FBMSECT	8	
\$DSTPRIM	4	4	\$FBMSEQF	10	
\$DSTRDT	4	40	\$FBM1ABA	4	1
\$DSTUSER	4	2	\$FBM1ABB	4	2
\$DST1EXP	4	10	\$FBM1ADD	4	40
\$DST2DFM	5	40	\$FBM1CNV	4	4
\$DST2IGN	5	80	\$FBM1INT	4	80
\$DST2IGS	5	8	\$FBM1LAS	4	20
\$DST2IPD	5	4	\$FBM1MFL	4	10
\$DST2IPY	5	10	\$FBM1TTB	4	8
\$DST2NUS	5	20	\$FBM2ADJ	5	2
\$DST2NVU	5	2	\$FBM2IFI	5	8
\$DTRFLG1	4		\$FBM2INA	5	4
\$DTRMQTR	4	4	\$FBM2IVA	5	10
\$DTRNAME	6		\$FBM2MTB	5	40
\$DTRRECV	1E		\$FBM2RES	5	80
\$DTRRJCT	4	40	\$FBM2TTZ	5	1
\$DTRRJQE	4	80	\$FBM2WID	5	20
\$DTRRNAM	4	10	\$FBSTORP	6	
\$DTRRND	4	20	\$FB1HOLD	4	20
\$DTRRSIG	4	8	\$FB1PROT	4	80
\$DTRSECT	E		\$FDISECT	6	
\$DTRSEQ	16		\$FDISEQF	E	
\$DVFLG1	4		\$FDITCHR	4	1
\$DVLENG	5		\$FDITHEX	4	2
\$DV1CHAR	4	40	\$FDITUSI	4	3
\$DV1JQE	4	80	\$FDITYPE	4	
\$ERR	7	2	\$FEVFLG1	7	
\$ESTCRAT	4	80	\$FEVMOSQ	12	A
\$ESTDLET	4	40	\$FEVPVER	4	
\$ESTFCN	4		\$FEVRCC	5	3
\$ESTNBR	A		\$FEVRCU	5	1
\$ESTRECX	6		\$FEVRDC	5	4
\$ESTRTYA	C		\$FEVRDU	5	2
\$FACMOSQ	C	4	\$FEVREQ	5	
\$FACSECT	4		\$FEVSECT	A	
\$FACSEQF	C		\$FEVSEQF	12	
\$FBFLAG1	4		\$FEVUIFR	6	40
\$FBMCTAC	6	3	\$FEVUIVE	6	80
\$FBMCTAD	6	1	\$FEVUJDR	6	20
\$FBMCTAS	6	2	\$FEVUNUL	6	10
\$FBMCTA8	6	12	\$FEVUSE	6	
\$FBMCTDC	6	5	\$FEVWVER	8	
\$FBMCTDS	6	4	\$FEV1CSA	7	80
\$FBMCTEP	6	6	\$FGAFLG1	4	
\$FBMCTHX	6	7	\$FGAPLEN	E	12
\$FBMCTKM	6	9	\$FGASECT	6	
\$FBMCTOF	6	A	\$FGASEQF	E	
\$FBMCTPE	6	3	\$FGA1ACM	4	4
\$FBMCTPN	6	1	\$FGA1EYE	4	10
\$FBMCTPW	6	2	\$FGA1GNS	4	40
\$FBMCTRH	6	8	\$FGA1GTN	4	20



\$PARMLST Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$FGA1LUP	4	80	\$GC1LPRM	4	80
\$FGA1STD	4	E0	\$GFFLG1	C	
\$FGA1ZPM	4	8	\$GFFLG2	F	
\$FGFSECT	4		\$GFFLG3	4	
\$FGFSEQF	C		\$GFFLG4	5	
\$FIDCOFF	6		\$GFKEY	D	
\$FIDFLG1	4		\$GFLENV	8	
\$FID1ABN	4	40	\$GFSUBPL	E	
\$FID1CNT	4	80	\$GF1AR15	C	20
\$FIECOFF	6		\$GF1CHK0	C	8
\$FIEFLG1	4		\$GF1OHOM	C	0
\$FIE1ABN	4	40	\$GF1OPRI	C	1
\$FIE1CNT	4	80	\$GF1OSEC	C	2
\$FIE1HEA	4	20	\$GF1OSYS	C	3
\$FIGFLG1	4		\$GF1RS64	C	10
\$FIG1CNT	4	80	\$GF2FMN	F	1
\$FLEAPAR	16		\$GF2LC24	F	10
\$FLEFLG1	4		\$GF2LC31	F	20
\$FLESECT	6		\$GF2PGB	F	4
\$FLESEQF	E		\$GF2RS31	F	40
\$FLE1RC	4	80	\$GF2UNCD	F	2
\$FMFLAG1	4		\$GF3BUFR	4	40
\$FMSFLG1	4		\$GF3FREE	4	10
\$FMSPLEN	E	12	\$GF3HTCB	4	20
\$FMSSECT	6		\$GF3JTCB	4	4
\$FMSSEQF	E		\$GF3LVR0	4	80
\$FMS1BLN	4	40	\$GF3PSWK	4	1
\$FMS1CBL	4	20	\$GF3TCBK	4	2
\$FMS1IND	4	10	\$GF3TCBY	4	8
\$FMS1WID	4	80	\$GF4BAKR	5	8
\$FM1\$ERR	4	80	\$GF4NOLV	5	10
\$FM1CLOS	4	40	\$GF4OAUX	5	4
\$FPRFLG1	4		\$GF4SPR0	5	80
\$FPRSECT	6		\$GF4STOR	5	40
\$FPRSEQF	E		\$GF4ZERO	5	20
\$FPR1MLT	4	80	\$GLWFLG1	4	
\$FREFLG1	4		\$GLW1WT	4	80
\$FRE1JQA	4	20	\$GNHFLG1	4	
\$FRE1NTR	4	40	\$GNH1WAT	4	80
\$FRE1NW	4	80	\$GTAFLG1	5	
\$FSAMOSQ	C	4	\$GTAH1ST	5	80
\$FSASECT	4		\$GTATYPE	4	
\$FSASEQF	C		\$GTBFLG1	4	
\$FSTFLG1	4		\$GTBFTYP	5	
\$FSTFLG2	5		\$GTB1FIX	4	40
\$FSTSECT	6		\$GTB1LOW	4	10
\$FSTSEQF	E		\$GTB1MUL	4	20
\$FST1FRE	4	3	\$GTB1WAT	4	80
\$FST1GTC	4	2	\$GTCFLG1	4	
\$FST1GTU	4	1	\$GTC1DMC	4	40
\$FST2CTM	5	20	\$GTC1WAT	4	80
\$FST2CTS	5	40	\$GTTBUSE	4	
\$FST2FAD	5	80	\$GUCFLG1	4	
\$FST2PTM	5	8	\$GUC1CNT	4	80
\$FST2PTS	5	10	\$GUC1UNT	4	40
\$FST2TAB	5	78	\$HI	7	7
\$FTBFLG1	4		\$IBFLAG1	4	
\$FTB1CHN	4	80	\$IB1DAUG	4	8
\$FTRFLG1	4		\$IB1DNCH	4	2
\$FTR1IOW	4	80	\$IB1DPDB	4	80
\$FUCFLG1	4		\$IB1DPRI	4	10
\$FUC1UNP	4	80	\$IB1DSJI	4	4
\$GCFLAG1	4		\$IB1DSPN	4	40
\$GCRSVRD	5		\$IB1D2ND	4	20
\$GCSIZE	6		\$ICFLAG1	4	

## \$PARMLST Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$IC1IOT	4	20	\$NHW1WAT	4	40
\$IC1JOE	4	10	\$NHXFLG1	4	
\$IC1LKNO	4	80	\$NHXSRCB	5	
\$IC1LOCK	4	40	\$NHX1FRE	4	80
\$JCNFLG1	4		\$NHX1XIT	4	40
\$JCN1PRO	4	80	\$NMDFLG1	5	
\$JCN1TST	4	40	\$NMDSTAT	4	
\$JCN1TSU	4	20	\$NMD1CES	5	8
\$JOBSTAT	7	40	\$NMD1FST	5	20
\$LGFLAG1	5		\$NMD1NAT	5	80
\$LGRQSTR	7		\$NMD1NCC	5	40
\$LGSUBP	4		\$NMD1STA	5	10
\$LG1MFRE	5	80	\$NNTFLG1	4	
\$LG1TXTL	6		\$NNT1FST	4	10
\$LG1WTO	5	40	\$NNT1MMA	4	4
\$LO	7	1	\$NNT1MTR	4	8
\$LOG	7	1	\$NNT1NOT	4	20
\$LVFLAG1	4		\$NNT1SET	4	80
\$LVQFLAG	5		\$NNT1TST	4	40
\$LVQOFF	6		\$NORMAL	7	30
\$LV1QSE	4	80	\$NOTFLG1	4	
\$LV1WAIT	4	40	\$NOT1JQE	4	20
\$MAIN	7	20	\$NOT1MEM	4	8
\$MCADDR	6	80	\$NOT1NJB	4	80
\$MCBYTES	5	2	\$NOT1NUM	4	40
\$MCCOMMN	6	4000	\$NOT1NUS	4	10
\$MCDELET	6	20	\$NRMFLG1	4	
\$MCDYNAM	6	40	\$NRM1ALL	4	40
\$MCFLAG1	4		\$NRM1STA	4	80
\$MCINFO	7	4	\$NSLFLG1	4	
\$MCMIT	6	2000	\$NSL1OBT	4	80
\$MCMMSG	4	80	\$NSL1SHR	4	20
\$MCMMSGS	4	40	\$NSL1WAT	4	40
\$MCNAME	6	800	\$NSYFLG1	4	
\$MCNTEST	6	B	\$NSY1CKP	4	10
\$MCPROPX	6	400	\$NSY1CMP	4	40
\$MCRMD24	6	8000	\$NSY1LOC	4	20
\$MCRSLVX	6	200	\$NSY1MSG	4	8
\$MCTABL	6	100	\$NSY1NIT	4	4
\$MCTESTS	6		\$NSY1REF	4	80
\$MCVERS	6	1000	\$PBFLAG1	4	
\$MSTCLR	4	2	\$PB1DAUG	4	20
\$MSTFLG1	5		\$PB1DPDB	4	80
\$MSTSET	4	1	\$PB1DSPN	4	40
\$MSTTYPE	4		\$PGINFO	7	8
\$MST1ECB	5	80	\$PRGFLG1	4	
\$MST1EXP	5	20	\$PRG1ENF	4	40
\$MST1EXT	5	40	\$PRG1Vfy	4	80
\$NADFLG1	5		\$PSQFLG1	4	
\$NADSTAT	4		\$PSQ1JQE	4	40
\$NAD1CES	5	10	\$PSQ1MAS	4	80
\$NAD1NAT	5	80	\$PTAFLG1	4	
\$NAD1NCC	5	40	\$PTA1CCT	4	20
\$NAD1STA	5	20	\$PTA1MCT	4	80
\$NGTFLG1	5		\$PTA1UCT	4	40
\$NGTSTAT	4		\$QBACTOF	4	40
\$NGT1FST	5	10	\$QBACTON	4	80
\$NGT1NAT	5	80	\$QBDEVID	4	1
\$NGT1NCC	5	40	\$QBDODEV	4	2
\$NGT1TOK	5	20	\$QBHVCAT	4	4
\$NHRFLG1	4		\$QBNALCT	4	8
\$NHRSRCB	5		\$QBBREAL	4	10
\$NHR1XIT	4	80	\$QBSYFLG	4	
\$NHWFLG1	4		\$QBTRACE	4	20
\$NHW1FRE	4	80	\$QJVALNF	4	80

\$PARMLST Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$QJVNJQA	4	20	\$SFFLAG1	4	
\$QJVPFLG	4		\$SF1ASID	4	8
\$QJVRETC	4	40	\$SF1FRST	4	20
\$QRBDFLG	4		\$SF1LAST	4	10
\$QRQNONE	4	80	\$SF1LOJ	4	80
\$QRQOTH	4	40	\$SF1SSIB	4	40
\$QRQRBLD	4	20	\$SIGFLG1	4	
\$QSUFLG1	4		\$SIG1MQT	4	10
\$QSUPLEN	E	16	\$SIG1R	4	40
\$QSUSECT	6		\$SIG1SKP	4	20
\$QSUSEQF	E		\$SIG1VAV	4	8
\$QSU1LUR	4	80	\$SIG1W	4	80
\$QTYALTE	4	80	\$SJFLAG1	4	
\$QTYPFLG	4		\$SJFMEM	4	40
\$RCPINIT	4	80	\$SJFNPVT	4	80
\$RETANY	4	80	\$SLFLAG1	4	
\$RETFLAG	4		\$SL1RETN	4	20
\$RETPARM	4	40	\$SL1WAIT	4	10
\$RETREG	4	F	\$SPARE1	7	80
\$RETTDAT	7		\$SPNFLG1	4	
\$RETTFLG	6		\$SPN1CY	4	80
\$RETTLEN	8		\$SPN1NL	4	40
\$RETTLCD	4	20	\$ST	7	4
\$ROLDSP	6	0	\$SUFLAG1	4	
\$ROLJOEI	6	0	\$SU1FREE	4	80
\$ROLJQEI	6	0	\$SYMETF1	4	
\$ROLLOFF	6		\$SYM1ALS	4	3
\$ROLLSRV	4		\$SYM1ALT	4	2
\$RQGTFL1	4		\$SYM1BLO	4	5
\$RQGT1RC	4	80	\$SYM1JQA	4	6
\$RQGT1VE	4	40	\$SYM1SNF	4	1
\$RRAFLG1	4		\$SYM1UNA	4	4
\$RRA1JOB	4	80	\$TAPE	7	10
\$RTAFLG1	4		\$TGCNTYS	4	80
\$RTA1CCT	4	20	\$TGFLAG	4	
\$RTA1FRN	4	1	\$TGFLAG2	5	
\$RTA1FRY	4	2	\$TGMMQT	4	2
\$RTA1MCT	4	80	\$TGQSYES	4	8
\$RTA1UCT	4	40	\$TGSETON	4	4
\$SAVAM64	5	80	\$TGTPSET	4	10
\$SAVANY	4	8	\$TGTTTEST	4	20
\$SAVAREG	11		\$TGTTSET	4	30
\$SAVARS	4	10	\$TG2BAD	5	40
\$SAVFLAG	4		\$TG2BTRK	5	20
\$SAVFLG2	5		\$TG2MAP	5	80
\$SAVNAME	6		\$TG2OTHR	5	10
\$SAVNRG	4	20	\$TP	7	8
\$SAVNRLS	4	1	\$TRFLAG1	4	
\$SAVTDAR	E	2	\$TRIVIA	7	10
\$SAVTDAT	F		\$TR1SDB	4	8
\$SAVTDHR	E	4	\$TR1SJIO	4	4
\$SAVTDRR	E	8	\$TR1WRPM	4	2
\$SAVTFLG	E		\$TR1WTNO	4	1
\$SAVTLAR	E	20	\$TSRFLG1	4	
\$SAVTLEN	10		\$TSR1CBA	4	8
\$SAVTLHR	E	40	\$TSR1CRE	4	20
\$SAVTLOF	E	10	\$TSR1DEL	4	40
\$SAVTLRR	E	80	\$TSR1PRS	4	10
\$SAVTRC	4	80	\$TSR1RET	4	80
\$SAVTRCD	4	2	\$UR	7	4
\$SAVTRE	4	40	\$VFYCHK	12	0
\$SAVUANY	4	4	\$VFYDSCA	12	1
\$SCDFLG1	4		\$VFYDSIX	12	2
\$SCD1WAR	4	80	\$VFYHDB	12	3
\$SEC	7	40	\$VFYIOT	12	4

## \$PARMLST Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
\$VFYJCT	12	5	EXITTR	C	80
\$VFYNHSB	12	8	EXITUSER	C	40
\$VFYOCT	12	6	EXITXPL	C	4
\$VFYSWBI	12	7	PARMINST	0	
\$VFYTLBM	12	9	PARMLIST	0	
\$VOLFLD	4		PARMSTRT	4	
\$VOLNMFD	5		TRPFLAG1	5	
\$VSJFLAG	4		TRPID	4	
\$VWPFUNC	C		TRPNAME	6	
\$VWPMODN	4		TRP1FSS	5	10
\$WRCLSPR	6		TRP1JES2	5	20
\$WREXEND	4	5	TRP1SPIN	5	1
\$WRLEN	8		TRP1STSK	5	40
\$WRLINTP	9		TRP1USER	5	80
\$WRPFLAG	4				
\$WRROUTE	7				
\$WRSTEND	9	A			
\$WRTYPE	5				
\$WSFLGOF	6				
\$WSLISTL	4				
\$WSTUNK	7	0			
\$WSTWSP	7	1			
\$WSTYPE	7				
\$WTCLASS	5				
\$WTCSECT	6				
\$WTFLAG1	4				
\$WTINHBT	5				
\$WTLINTP	7				
\$WTOCMBL	7	40			
\$WTODMND	7	2			
\$WTODOMT	7	4			
\$WTOJOBY	7	20			
\$WTOLNR0	7	8			
\$WTOSTDL	7	80			
\$WTOTEXT	7	1			
\$WTOWAIT	7	10			
\$WTPFLAG	4				
\$WTPLEN	16	18			
\$WTRESQO	16				
\$WTRROUTE	6				
\$WTSEQF	E				
\$WT1INHN	4	10			
\$WT1MCLR	4	8			
\$WT1RES	4	80			
\$WT1RETN	4	20			
\$WT1XECB	4	40			
\$XMFLAG1	4				
\$XM1COMP	4	20			
\$XM1LPST	4	10			
\$XM1NPST	4	2			
\$XM1QUIK	4	40			
\$XM1STKN	4	8			
\$XM1TTKN	4	4			
\$XM1XMP	4	80			
DSNRONLY	4	80			
DSNVALL	4	0			
EXITFLGS	C				
EXITFSS	C	8			
EXITID	D				
EXITJES2	C	10			
EXITLNG	F	C			
EXITMRC	E				
EXITNAME	4				
EXITRSVD	F				
EXITSTSK	C	20			

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