

16	1914			
	1915	NUBATQE EQU	NUBDLTQE+MULTQE ASSIGN/FREE FAILUTE TIME Q ELEMENT	
	1916	*		
17	1917	NUBDPIOB EQU	NUBATQE+MULTQE TERMINATION DUMP IOB	
	1918	*		
	1919	NUBDPACE EQU	NUBDPIOB+NULENIOB TERMINATION DUMP ACE	
	1920	*		
18	1921	NUBSPACE EQU	NUBDPACE+NULACE PERMANENT SWAP ACE	
	1922	*		
	1923	NUBIPLAF EQU	NUBSPACE+NULACE FIXED NUCLEUS FREE AREA #1	
19	1924	*		
	1925	*****		
20				

B01

16	1970	PPSPRG1L EQU	P
	1971	PPSPRG2L EQU	P
17	1972	PPSUSR1L EQU	P
	1973	PPSUSR2L EQU	P
	1974	SPACE	
	1975	PPSLIBRA EQU	P
18	1976	SPACE	
	1977	PPSSGED0 EQU	P
	1978	PPSSGCR1 EQU	P
19	1979	PPSCRT1 EQU	P
	1980	PPSCRT2 EQU	P
20			

01	LYC7 - 1364 - 7 IBM SYSTEM/34 SYSTEM SUPPORT PROGRAM PRODUCT			
	29 JANUARY 82	PROGNO 5726-SS1	REL: R08-M00	
02	COPYRIGHT IBM CORP. 1978 LICENSED MATERIAL - PROPERTY OF IBM			
03	*****	*****	*****	*****
04	*****	*****	*****	*****
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A01

01	#MSCPR 12/07/81 11:51
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17	1972 PPSUSR1L EQU PPSPRG2L+2 USER1 LIBRARY F1 @ SAVE AREA
	1973 PPSUSR2L EQU PPSUSR1L+2 USER2 LIBRARY F1 @ SAVE AREA
	1974 SPACE
18	1975 PPSLIBRA EQU PPSUSR2L+2 CURRENT LIBRARY F1 @ SAVE AREA
	1976 SPACE
	1977 PPSSGED@ EQU PPSLIBRA+3 SOURCE-GET END ADDRESS
	1978 PPSSGCRT EQU PPSSGED@+3 SOURCE-GET CURRENT ADDRESS
19	1979 PPSCRT1 EQU PPSSGCRT-2 * FIRST BYTE OF CURRENT ADDRESS
	1980 PPSCRT2 EQU PPSSGCRT * 2ND 3RD BYTES OF CURRENT ADDR
20	

B02

17	2027 R@PLGAT EQU X'20'
	2028 R@PLCHK EQU X'40'
	2029 R@PLTUB EQU X'80'
18	2030 SPACE 1
	2031 R@PLRCD EQU R@PLRCD
	2032 SPACE 1
	2033 * RETURN CODES
19	2034 R@PLSUCC EQU X'00'
	2035 R@PLNOSP EQU X'01'
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01	#MISCPR 12/07/81 11:51
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B02

01	SPL/3 VERSION 08/28/80
	IF DO
	0001 MPL
02	0002 GEN;
	0003 #MISCPR TITLE '#MISCPR
	0004 *****
03	0005 * MODULE NAME = #MISCP
	0006 *
	0007 * DESCRIPTIVE NAME =
04	0008 *
	0009 * COPYR
	0010 */* COPYRIGHT= 5726-SS1
05	0011 */* LICENSED
	0012 */* REFER TO
	0013 *** END OF EXPANSION **
06	0014 *
	0015 * STATUS = RELEASE 08
	0016 *
07	0017 * FUNCTION = 1. EXECU
	0018 * 2. INITI
	0019 *
08	0020 * NOTES =
	0021 *
	0022 * RESTRICTIONS =
09	0023 *
	0024 * PATCH LABEL = NIP
	0025 *
10	0026 * MODULE-TYPE = LOAD
	0027 *
	0028 * PROCESSOR = SPL
11	0029 *
	0030 * MODULE-SIZE = 204
	0031 *
12	0032 * ATTRIBUTES = REUS
	0033 *
	0034 * ENTRY-POINT = #MISCP
13	0035 *
	0036 * PURPOSE = CONTINU
	0037 *
14	0038 * LANGUAGE = CALLED
	0039 *
	0040 * INP.T =
15	0041 *
	0042 * OUTPUT
	0043 *
16	0044 * EXIT-NORMAL = TO CO
	0045 *
	0046 * EXIT-ERROR =
	0047 *
17	0048 * EXTERNAL-REFERENCE =
	0049 *
18	0050 * ROUTINES = N/A
	0051 *
	0052 * DATA AREAS =
	0053 *
19	0054 * CONTROL BLOCKS =
	0055 *
20	

17	2027	RWPLGAT	EQU	X'20'	GET ATTRIBUTES.
	2028	RWPLCHK	EQU	X'40'	CHECK VALIDITY OF THIS US ID.
	2029	RWPLTUB	EQU	X'80'	BUILD OFFLINE PRINTER TUB.
	2030			SPACE 1	
18	2031	RWPLRCD	EQU	RWPLREQ+1	RETURN CODE.
	2032			SPACE 1	
	2033	*			RETURN CODES FROM #RWAVY
19	2034	RWPLSUCC	EQU	X'00'	SUCCESSFUL PRINTER/WS/BOTH.
	2035	RWPLNOSP	EQU	X'01'	DEVICE NOT SUPPORTED.
20					

17	2082	*			
	2083	*			
	2084	SCADPSV			
	2085	SCADXSVC			
18	2086	SCADSSVC			
	2087	*			
	2088	SCAMSTZ			
19	2089	SCAM256K			
	2090	SCAM128K			
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B03

SPL/3	VERSION	08/28/80		PAGE	1	TIME	02:15	DATE	81/12/08
IF DO	LINE		SOURCE						
01	0001		MPL						00010000
	0002		GEN;						00020000
02	0003	#MISCP	TITLE '#MISCP - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION'						00030000
	0004		*****						00040000
	0005	*	MODULE NAME = #MISCP						* 00050000
03	0006	*							* 00060000
	0007	*	DESCRIPTIVE NAME = MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION						* 00070000
	0008	*							* 00080000
04	0009	*	COPYR						* 00090000
	0010	*/	COPYRIGHT= 5726-SS1 COPYRIGHT IBM CORP 1977, 1981						*/
	0011	*/	LICENSED MATERIAL - PROGRAM PROPERTY OF IBM						*/
05	0012	*/	REFER TO COPYRIGHT INSTRUCTIONS FORM NUMBER G120-2083.*/						*/
	0013	***	END OF EXPANSION **						*/
	0014	*							* 00100000
06	0015	*	STATUS = RELEASE 08						* 00110000
	0016	*							* 00120000
	0017	*	FUNCTION = 1. EXECUTE FILE REBUILD						* 00130000
07	0018	*	2. INITIALIZE FOR REMOTE WORK STATIONS						* 00140000
	0019	*							* 00150000
	0020	*	NOTES =						* 00160000
08	0021	*							* 00170000
	0022	*	RESTRICTIONS =						* 00180000
	0023	*							* 00190000
09	0024	*	PATCH LABEL = NIPATCH						* 00200000
	0025	*							* 00210000
	0026	*	MODULE-TYPE = LOAD (0) MODULE						* 00220000
10	0027	*							* 00230000
	0028	*	PROCESSOR = SPL						* 00240000
	0029	*							* 00250000
11	0030	*	MODULE-SIZE = 2048 BYTES						* 00260000
	0031	*							* 00270000
	0032	*	ATTRIBUTES = REUSABLE						* 00280000
12	0033	*							* 00290000
	0034	*	ENTRY-POINT = MISCPINT						* 00300000
	0035	*							* 00310000
13	0036	*	PURPOSE = CONTINUE MAIN STORAGE IPL						* 00320000
	0037	*							* 00330000
	0038	*	LINKAGE = CALLED BY MAIN STORAGE IPL PHASE 3, #MISPL						* 00340000
14	0039	*							* 00350000
	0040	*	INPLT =						* 00360000
	0041	*							* 00370000
15	0042	*	OUTPUT :						* 00380000
	0043	*							* 00390000
	0044	*	EXIT-NORMAL = TO COMP. PROCESSOR RESIDENT ROUTINE.						* 00400000
16	0045	*							* 00410000
	0046	*	EXIT-ERROR =						* 00420000
	0047	*							* 00430000
17	0048	*	EXTERNAL-REFERENCE = N/A						* 00440000
	0049	*							* 00450000
	0050	*	ROUTINES = N/A						* 00460000
18	0051	*							* 00470000
	0052	*	DATA AREAS =						* 00480000
	0053	*							* 00490000
19	0054	*	CONTROL BLOCKS =						* 00500000
	0055	*							* 00510000
20									

SPL/3	VERSION	08/28/80			
IF DO	LINE				
01	0056	*	TABL		
	0057	*			
02	0058	*/	.CHAN		
	0059	*	AB14		
	0060	*	AB47		
03	0061	*			
	0062	*	MESS		
	0063	*			
04	0064	*****			
	0065				
05	0066	*****			
	0067	*			
	0068	*****			
	0069	*	L700		
06	0070	*			
	0071	*			
	0072	*			
07	0073	*	-----		
	0074	*	0800		
	0075	*			
08	0076	*			
	0077	*			
	0078	*	-----		
09	0079	*	1000		
	0080	*			
	0081	*			
10	0082	*			
	0083	*			
	0084	*			
11	0085	*	-----		
	0086	*			
	0087	*			
12	0088	*	-----		
	0089	*			
	0090	*			
13	0091	*			
	0092	*			
	0093	*			
14	0094	*****			
	0095	*			
	0096	*			
15	0097	NR1			
	0098	NR2			
	0099	PSR			
16	0100	NR			
	0101	ENR			
	0102	IBB			
17	0103	DTF			
	0104	*			
	0105	*			
18	0106	##			
	0107	*			
	0108	*			
19	0109	BLANC			
	0110	ZERO			
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A03



16	2134	SCAM2PC EQU X'40'	LARGE CAPACITY DISK	(R3)
	2136	SCAM2MG EQU X'01'	65 MEGABYTE DISK	(R3)
	2137	SCAM2SM EQU X'41'	65 MEGABYTE DISK	(R7)
17	2138	SCAM130M EQU X'C1'	130 MEGABYTE DISK	(R7)
	2139	SCAM195M EQU X'E1'	195 MEGABYTE DISK	(R7)
	2140	SCAM260M EQU X'D1'	260 MEGABYTE DISK	(R7)
18	2141	*		
	2142	SCADPIND EQU SCASDISK*1	1 SYSTEM/DUMP INDICATOR	
	2143	SCADPOK EQU X'A5'	VALID DUMP	
19	2144	SCADPUS EQU X'5A'	VALID DUMP - HAS BEEN ACCESSED	
	2145	*		
20				

16	2189	SCAM5M EQU		
	2190	SCAM5MF EQU		
	2191	SCAMCLOG EQU		
	2192	SCAM5FLG EQU		
17	2193	SCAMCFG EQU		
	2194	SCAMPIE EQU		
	2195	SCAMDEAD EQU		
18	2196	*		
	2197	SCADREL# EQU		
	2198	SCADPID# EQU		
19	2199	*		
	2200	SCADMTR EQU		
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B05

2:15	DATE 81/12/08
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SPL/3	VERSION 08/28/80	LINE	IF DO	SOURCE	PAGE 3	TIME 02:15	DATE 81/12/08
01		0111	ONE EQU 1	**			
		0112	TWO EQU 2	**			
02		0113	THREE EQU 3	**			
		0114	FOUR EQU 4	**			
		0115	FIVE EQU 5	**			SELF DEFINING TERMS
03		0116	SIX EQU 6	**			
		0117	SEVEN EQU 7	**			
		0118	EIGHT EQU 8	**			
04		0119	NINE EQU 9	**			
		0120	*				
		0121	TRUE EQU X'10'	TRUE CONDITION CODE			
05		0122	FALSE EQU X'90'	FALSE CONDITION CODE			
		0123	UNCOND EQU X'87'	UNCONDITIONAL CONDITION CODE			
		0124	*				
06		0125	NOOP EQU X'80'	NEVER BRANCH			
		0126	NOBIT EQU X'00'	NO BITS MASK			
		0127	NUMBITS EQU X'0F'	NUMERIC BITS ONLY MASK			
07		0128	ZONEBITS EQU X'F0'	ZONE BITS ONLY MASK			
		0129	ALLBIT EQU X'FF'	ALL BITS MASK			
		0130	BIT0 EQU X'80'	MASK FOR BIT 0 - X.....			
08		0131	BIT1 EQU X'40'	MASK FOR BIT 1 - .X.....			
		0132	BIT2 EQU X'20'	MASK FOR BIT 2 - ..X.....			
		0133	BIT3 EQU X'10'	MASK FOR BIT 3 - ...X....			
09		0134	BIT4 EQU X'08'	MASK FOR BIT 4 - ....X...			
		0135	BIT5 EQU X'04'	MASK FOR BIT 5 - .....X..			
		0136	BIT6 EQU X'02'	MASK FOR BIT 6 - .....X.			
10		0137	BIT7 EQU X'01'	MASK FOR BIT 7 - .....X			
		0138	*				
		0139	IARX EQU X'08'	IAR TRANSLATED			
11		0140	OP2 EQU X'04'	OP2 TRANSLATED			
		0141	OP1 EQU X'02'	OP1 TRANSLATED			
		0142	PRV EQU X'00'	TASK PRIVELEDGED			
12		0143	NPRV EQU X'01'	TASK NOT PRIVELEDGED			
		0144	DSABL EQU X'80'	DISPATCHING DISABLED			
		0145	*** END OF EXPANSION **				
13		0146	* \$FNDP		00910000		
		0147	SPACE				
		0148	* PARAMETER LIST FOR SYSTEM FIND				
14		0149	SPACE				
		0150	***** FIND INPUT PARAMETER LIST *****				
		0151	\$FNDDTYP EQU 0	LIBRARY TYPE			
15		0152	\$FNDDLD EQU X'08'	LOAD MODULE			
		0153	\$FNDDMSB EQU X'04'	SUBROUTINE			
		0154	\$FNDDSRC EQU X'02'	SOURCE MODULE			
16		0155	\$FNDDPRC EQU X'01'	PROCEDURE			
		0156	\$FNDDNMB EQU \$FNDDTYP*8	8 CHARACTER MEMBER NAME			
		0157	SPACE				
17		0158	\$FNDDOPR EQU \$FNDDNMB*1	OPERATION SWITCHES			
		0159	\$FNDDSYS EQU X'80'	JUST SEARCH SYSTEM LIBRARY,			
		0160	*	SKIP SEARCH OF USER LIBRARY.			
18		0161	\$FNDDLR EQU X'40'	BUILD LOADER PARAM LIST - DO NOT			
		0162	*	MOVE ENTIRE DIR ENTRY.			
		0163	\$FNDDUSE EQU X'20'	JUST SEARCH USER LIBRARY,			
19		0164	*	SKIP SEARCH OF SYSTEM LIBRARY.			
		0165	\$FNDDULB EQU X'10'	SEARCH USER LIBRARY IN \$FNDDFLA			
20							

SPL/3	VERSION 08/28/80	LINE	IF DO	SOURCE
01		0166	*	
		0167	\$FNDDRF1 EQU	
02		0168	*	
		0169	*	
		0170	\$FNDDNQ EQU	
03		0171	*	
		0172	\$FNDDFLA EQU	
		0173	SPACE	
04		0174	*****	
		0175	\$FNDDADR EQU	
		0176	*	
05		0177	\$FNDDNDS EQU	
		0178	*	
		0179	*	
06		0180	\$FNDDLK EQU	
		0181	\$FNDDNST EQU	
		0182	\$FNDDSCT EQU	
07		0183	\$FNDDF1F EQU	
		0184	*	
		0185	\$FNDDRLD EQU	
08		0186	SPACE	
		0187	***** IF L	
		0188	***** IN T	
09		0189	***** FIEL	
		0190	\$FNDDTNS EQU	
		0191	\$FNDDLDA EQU	
10		0192	***** END	
		0193	SPACE	
		0194	***** REPA	
11		0195	\$FNDDCRS EQU	
		0196	\$FNDDATT EQU	
		0197	\$FNDDAT1 EQU	
12		0198	\$FNDDAT2 EQU	
		0199	\$FNDDAT3 EQU	
13		0200	\$FNDDWRT EQU	
		0201	*	
		0202	\$FNDDREL EQU	
14		0203	\$FNDDTOT EQU	
		0204	*	
		0205	*	
		0206	*	
15		0207	*	
		0208	SPACE	
		0209	\$FNDDCOM EQU	
16		0210	\$FNDDSYR EQU	
		0211	\$FNDDUSR EQU	
		0212	\$FNDDLEN EQU	
17		0213	*** END OF EXP	
		0214	*** END OF EXP	
		0215	* ACE	
18		0216	*****	
		0217	*	
		0218	* CHAIN	
19		0219	*****	
		0220	* 8*	
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A05

16	2189	SCANSFPA EQU	X'40'	.	X'40' - PLCA SRF ACTIVE	IR61
	2190	SCANSNF EQU	X'20'	.	X'20' - SRF ACTIVE	IR41
	2191	SCANLOG EQU	X'10'	.	X'10' - CONSOLE SYSLOG POSTED	
	2192	SCANSFLG EQU	X'08'	.	X'08' - SECURITY	
17	2193	SCANCFG EQU	X'04'	.	X'04' - BUILD CONFIG RECORDS	
	2194	SCANPIE EQU	X'02'	.	X'02' - PID MODEL INDICATOR	
	2195	SCANDAD EQU	X'01'	.	X'01' - DEDICATED EXECUTION	
18	2196	*				
	2197	SCADREL# EQU	SCAMBSV+1	1	SYSTEM RELEASE LEVEL	
	2198	SCADMOD# EQU	SCADREL#+1	1	SYSTEM MODIFICATION LEVEL	
19	2199	*				
	2200	SCADMTR EQU	SCADMOD#+1	1	COMMUNICATIONS TRACE INDICATORS	
20						

16	2244	*				
	2245	SCADSSPR EQU				
	2246	*				
	2247	*				
17	2248	*				
	2249	*				
	2250	*				
18	2251	*				
	2252	*				
	2253	SCAUSER# EQU				
19	2254	SCADSFP EQU				
	2255	*				
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B06

15	DATE 81/12/08
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SPL/3		VERSION 08/28/80	PAGE 4	TIME 02:15	DATE 81/12/08					
IF DO	LINE	SOURCE								
01	0166	*	INSTEAD OF DESIGNATED USER LIB.							
	0167	\$FNDRF1 EQU	X'08'	RETURN LIB F1 ADDR OF MEMBER.						
02	0168	*	ONLY WITH REGULAR CALL. THE							
	0169	*	START ADDR FIELD IS OVERLAID							
	0170	\$FNDRF1 EQU	X'04'	DO NOT ENQ OR DEQ LIBR DIR -						
03	0171	*	CALLER DOING ENQ AND DEQ.							
	0172	\$FNDRF1 EQU	\$FNDRF1+2	FORMAT 1 ADDR OF GIVEN USER LIB						
	0173	SPACE 2								
04	0174	***** FIND OUTPUT PARAMETER LIST *****								
	0175	\$FNDRF1 EQU	\$FNDRF1+2	DISK ADDRESS OF REQUESTED						
	0176	*	LIBRARY MODULE							
05	0177	\$FNDRF1 EQU	\$FNDRF1+1	FOR TYPE O-NUMBER OF TEXT SEC						
	0178	*	FOR TYPE R-CATEGORY							
	0179	*	FOR TYPE S OR P-RECORD SIZE							
06	0180	\$FNDRF1 EQU	\$FNDRF1+2	LINK-EDIT ADDRESS						
	0181	\$FNDRF1 EQU	\$FNDRF1+2	NUMBER OF STATEMENTS FOR S OR P						
	0182	\$FNDRF1 EQU	\$FNDRF1+2	ENTRY POINT OF MODULE						
07	0183	\$FNDRF1 EQU	\$FNDRF1+2	LIB F1 ADDR OF FOUND MEMBER						
	0184	*	SET IF REQUESTED BY \$FNDRF1.							
	0185	\$FNDRF1 EQU	\$FNDRF1+1	DISP OF RLDS IN LAST TEXT SEC						
08	0186	SPACE								
	0187	***** IF LOADER-YES IS SPECIFIED, THE TOTAL NUMBER OF SECTORS *****								
	0188	***** IN THE LOAD MODULE IS PLACED AFTER \$FNDRF1 AND NO MORE *****								
09	0189	***** FIELDS ARE MOVED FROM THE DIRECTORY ENTRY. *****								
	0190	\$FNDRF1 EQU	\$FNDRF1+1	TOTAL NO. SECTORS IN MODULE						
	0191	\$FNDRF1 EQU	\$FNDRF1+2	LOAD ADDRESS - SET BY CALLER						
10	0192	***** END OF LOADER PARM LIST *****								
	0193	SPACE								
	0194	***** REMAINDER OF OUTPUT PARAMETER FOR A REGULAR CALL *****								
11	0195	\$FNDRF1 EQU	\$FNDRF1+1	SIZE OF PROGRAM (IN SECTORS)						
	0196	\$FNDRF1 EQU	\$FNDRF1+3	3 ATTRIBUTE BYTES OF MEMBER						
	0197	\$FNDRF1 EQU	\$FNDRF1-2	FIRST ATTRIBUTE BYTE						
12	0198	\$FNDRF1 EQU	\$FNDRF1-1	SECOND ATTRIBUTE BYTE						
	0199	\$FNDRF1 EQU	\$FNDRF1	THIRD ATTRIBUTE BYTE						
	0200	\$FNDRF1 EQU	\$FNDRF1+1	FOR TYPE O - MRTMAX COUNT						
13	0201	*	FOR TYPE P - X'FF' => MRT PROC							
	0202	\$FNDRF1 EQU	\$FNDRF1+1	RELEASE LEVEL OF MODULE						
14	0203	\$FNDRF1 EQU	\$FNDRF1+2	TOTAL SIZE OF MODULE (IN SEC)						
	0204	*	MUST BE ZERO BEFORE CALL, IF							
	0205	*	ZERO ON RETURN => NOT FOUND.							
	0206	*	FOR A LOADER REQUEST CONTROL							
15	0207	*	IS NOT RETURNED ON A NO FIND.							
	0208	SPACE								
	0209	\$FNDRF1 EQU	\$FNDRF1+1	RESULTS OF FIND						
16	0210	\$FNDRF1 EQU	X'80'	FOUND IN SYSTEM LIBRARY						
	0211	\$FNDRF1 EQU	X'40'	FOUND IN USER LIBRARY						
	0212	\$FNDRF1 EQU	\$FNDRF1+1	LENGTH OF PARM LIST						
17	0213	* END OF EXPANSION OF \$FNDRF1								
	0214	*** END OF EXPANSION **								
	0215	*	ACE							
18	0216	*****								
	0217	*	1*	3*	5*	6*	7*			
	0218	*	CHAIN	*	IAR	*	* PAB	* PARM1	* PARM2	*
19	0219	*****								
	0220	*	8*	9*	8*	*	0*	*	F*	
20										

01	0221	*	PARM3	*	TYPE					
	0222	*****								
02	0223	*								
	0224	ACECHAIN EQU	1							
	0225	ACEIAR EQU	A							
03	0226	ACEMAB EQU	A							
	0227	ACEPARM1 EQU	A							
	0228	ACEPARM2 EQU	A							
04	0229	ACEPARM3 EQU	A							
	0230	ACETYPE EQU	A							
05	0231	ACEMSL EQU	X							
	0232	ACECSCL EQU	X							
	0233	ACEPRIV EQU	X							
06	0234	ACETOCHN EQU	X							
	0235	ACELOG EQU	X							
	0236	ACEPERR EQU	X							
07	0237	ACEPMAT EQU	X							
	0238	ACEINUSE EQU	X							
	0239	* NOTE: THE FOLLO								
08	0240	ACEKLOFF EQU	X							
	0241	ACEQUIES EQU	X							
	0242	ACEMASK EQU	X							
09	0243	ACEXR1 EQU	A							
	0244	ACEXR2 EQU	A							
	0245	ACECTBA EQU	A							
10	0246	ACELEN EQU	A							
	0247	*** END OF EXPAN								
	0248	*	CPRWK							
	0249	*	DATE LAST CH							
11	0250	*****								
	0251	*								
12	0252	*	C O M M							
	0253	*								
	0254	*****								
13	0255	*****								
	0256	*								
	0257	*	1. THE COMMAND							
14	0258	*	WORKAREA (25							
	0259	*								
	0260	*	2. THE WORKAREA							
15	0261	*	PROCESSOR XI							
	0262	*	AND EXPECTED							
	0263	*								
16	0264	*	3. THE TOTAL MD							
	0265	*	REQUIRES LOG							
	0266	*	PORTION OF T							
17	0267	*								
	0268	*****								
	0269	SPACE								
18	0270	CPRWK EQU	0							
	0271	CPRWKEND EQU	25							
	0272	SPACE								
19	0273	*****								
	0274	*	RECOMMENDED	*						
20	0275	*	USE	*						

A06



16	2299 SCADDAY EQU SCADWTH+1 1 SYSTEM DAY	2300 SCADDATE EQU SCADDAY 3 SYSTEM DATE (YMD)	2301 *
17	2302 SCADCTUT EQU SCADDATE+1 1 COUNT OF USER TASKS IN SYSTEM	2303 *	2304 SCARDVOL EQU SCADCTUT+6 6 DISKETTE VOLUME LABEL
18	2305 *	2306 SCARDFMT EQU SCARDVOL+1 1 DISKETTE PHYSICAL FORMAT	2307 SCAMIPLA EQU X'80' . X'80' - IPL AUTOLOADER FLAG (R3)
19	2308 *	2309 *	2310 SCAM2IFM EQU X'40' . X'40' - 2 SIDED - IFM RECORDING

16	2354 SCAPTRN
17	2355 SCAPLOT
18	2356 SCAPLOT
19	2357 *
20	2358 *
	2359 *
	2360 *
	2361 *
	2362 *
	2363 SCAPCFE
	2364 SCAPDRE
	2365 SCASPAR

TIME 02:15	DATE 81/12/08
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SPL/3	VERSION 08/28/80	PAGE 6	TIME 02:15	DATE 81/12/08
IF DO	LINE	SOURCE		
	0276	*****		
	0277	SPACE		
	0278 *	WSPL WSDM PARAMETER LIST EQUATES		
	0279	SPACE 2		
	0280 *			
	0281 *	PARAMETER LIST EQUATES FOR		
	0282 *	SYSTEM REQUESTS TO WORK STATION DATA MANAGEMENT		
	0283 *			
	0284	SPACE 2		
	0285 WDRTC EQU 0+1	EXTERNAL RETURN CODE		
	0286	SPACE 2		
	0287 WDRCK EQU X'00'	OPERATION SUCCESSFUL		
	0288 WDRACC EQU X'01'	ACCEPT SUCCESSFUL TO REQUESTOR		
	0289 WDRSTP EQU X'02'	STOP REQUESTED BY SYSTEM OPERATR		
	0290 WDRSTD EQU X'06'	STOP REQUESTED WITH DATA AVAIL.		
	0291 WDRADD EQU X'08'	ACQUIRE OK TO OWNED TERMINAL		
	0292 WDRACR EQU X'11'	ACCEPT REJECTED- NO INVITES		
	0293 WDRKBD EQU X'14'	INPUT REJECTED-KEYBOARD DISABLED		
	0294 WDRAFW EQU X'18'	ACQUIRE FAILED TEMPORARILY		
	0295 WDRNHW EQU X'24'	WORK STATION RELEASED HIMSELF		
	0296 WDRREL EQU X'28'	RELEASE OF SRT REQUESTOR-REJECT		
	0297 WDRAFS EQU X'32'	ACQUIRE FAILED-SECURITY		
	0298 WDRTRJ EQU X'34'	INPUT REJECTED-BUFFER TOO SMALL		
	0299 WDRAFN EQU X'38'	ACQUIRE FAILED-NON-WAITABLE		
	0300 WDRDFL EQU X'40'	WORK STATION OFFLINE		
	0301 WDRSPF EQU X'44'	STOP INVITE FAILED-DATA AVAIL.		
	0302 WDRPGE EQU X'45'	INVALID GAIJI DURING PRINT OP.		
	0303 WDRPUN EQU X'46'	PRINT ISSUED FROM UNLOCKED KBD.		
	0304 WDRPAL EQU X'48'	PRINTER ALLOCATED ON PRINT OP		
	0305 WDRGRF EQU X'50'	2 OPT TAKEN ON GJI RRM FULL COND		
	0306 WDRGI EQU X'51'	2 OPT TAKEN ON INVALID GJI CODE		
	0307 WDRGU EQU X'52'	2 OPT TAKEN ON UNDEF. GJI CODE		
	0308 WDRSCJ EQU X'56'	READ SCREEN CMD REJECT. GJI		
	0309 WDRPE EQU X'80'	PERMANENT I/O ERROR OCCURRED		
	0310 WDRPEP EQU X'84'	PERM. I/O ERROR ON PUT-NO-WAIT		
	0311	SPACE 2		
	0312 WDRPM EQU WDRTC+1	EXTERNAL OP-CODE MODIFIER		
	0313	SPACE 2		
	0314 WDRSYS EQU X'80'	SYSTEM REQUEST		
	0315 WDRVR EQU X'40'	OVERRIDE REQUEST		
	0316 WDRFHD EQU X'40'	FUNCTION MANAGEMENT HEADER		
	0317 WDRDL EQU X'20'	ROLL REQUEST		
	0318 WDRPTH EQU X'20'	PASS THRU MODIFIER		
	0319 WDRWF EQU X'10'	UNFORMATTED REQUEST		
	0320 WDRPT EQU X'08'	PRINT REQUEST		
	0321 WDRDSN EQU X'08'	READ SCREEN MODIFIER		
	0322 WDRTER EQU X'06'	WRITE ERROR OPERATION		
	0323 WDRSAVE EQU X'04'	SAVE REQUEST		
	0324 WDRMOD EQU X'04'	READ MODIFIED IMMEDIATE		
	0325 WDRSTR EQU X'02'	RESTORE REQUEST		
	0326 WDRPRF EQU X'01'	PUT FOR READ UNDER FORMAT		
	0327 *			
	0328	SPACE 2		
	0329 WDRPC EQU WDRPM+1	EXTERNAL OP-CODE		
	0330	SPACE 2		

01	0331 WDRGET
02	0332 WDRPUT
03	0333 WDRPTG
04	0334 WDRNDW
05	0335 WDRINV
06	0336 WDRPW
07	0337 WDRPTI
08	0338 WDRACI
09	0339 WDRACQ
10	0340 WDRSACQ
11	0341 WDRREL
12	0342 WDRGTA
13	0343 WDRGTA
14	0344 WDRDS
15	0345 WDRSTI
16	0346 WDRSTP
17	0347 WDRSPG
18	0348 WDRSPW
19	0349 WDRSPI
20	0350 WDRRES
	0351 WDRRTG
	0352 WDRRTI
	0353 WDRERS
	0354 WDRCTG
	0355 WDRCTI
	0356 WDRCLR
	0357 WDRVCK
	0358 WDRVE
	0359 WDRVEI
	0360 WDRVGV
	0361 WDRPEX
	0362 WDRPEF
	0363 WDRPM
	0364 WDRPMI
	0365 WDRPMG
	0366 WDRPEX
	0367 WDRCDI
	0368 WDRCDG
	0369 WDRFAL
	0370 WDRGRP
	0371 WDRGRPI
	0372 WDRGRPG
	0373 WDRCANL
	0374 WDRCANL I
	0375 WDRCANL G
	0376 WDRNEOS
	0377 WDRNEOJ
	0378 WDRNEOS
	0379 WDRNEOJ
	0380 WDRSFL
	0381 WDRSTR
	0382
	0383 WDROUTL
	0384 WDRFFL
	0385 WDRRECA



16	2354	SCAPKTRN	EQU	X'00'	EXTENDED TRACE ACTIVE		
	2355	SCAPLOTX	EQU	X'40'	EXTENDED TRACE LINE 0 (INTR)		
	2356	SCAPLOTR	EQU	X'20'	LOG TRACE LINE 0 (INTR)		
	2357	*	EQU	X'10'	RESERVED		
17	2358	*	EQU	X'08'	RESERVED		
	2359	*	EQU	X'04'	RESERVED		
	2360	*	EQU	X'02'	RESERVED		
18	2361	*	EQU	X'01'	RESERVED		
	2362	*					
	2363	SCAPCFG	EQU	SCADTRN+1	DATA MANAGEMENT OPTIONS	IR41	
19	2364	SCAPREC	EQU	X'00'	DELETED RECORD CAPABILITY	IR41	
	2365	SCASPRK	EQU	X'40'	SEQ. PROC. ADDED REC. BY KEY	IR61	

2409	SCADSPJ	EQU					
2410	SCADPLCA	EQU					
2411	SCADPCB	EQU					
2412	SCADCFER	EQU					
2413	*	EQU					
2414	*	EQU					
2415	*	EQU					
2416	SCADTLOK	EQU					
2417	*	EQU					
2418	*						
2419	SCADSNAT	EQU					
2420	*						

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IF	DO	LINE	SOURCE					
01		0331	WDGET	EQU	X'01'	INPUT OPERATION		
		0332	WDPUT	EQU	X'02'	OUTPUT OPERATION		
02		0333	WDPTG	EQU	WDGET+WDPUT	PUT THEN GET OPERATION		
		0334	WDNDW	EQU	X'04'	NO WAIT REQUEST		
		0335	WDINV	EQU	WDGET+WDNDW	INVITE INPUT OPERATION		
03		0336	WDPNW	EQU	WDPUT+WDNDW	PUT-NO-WAIT OPERATION		
		0337	WDPTI	EQU	WDPUT+WDINV	PUT THEN INVITE INPUT		
		0338	WDACI	EQU	X'08'	ACCEPT INPUT		
04		0339	WDACQ	EQU	X'09'	ACQUIRE TERMINAL REQUEST		
		0340	WDACQ	EQU	X'99'	SPECIAL ACQUIRE REQUEST		
		0341	WDREL	EQU	X'0A'	RELEASE TERMINAL REQUEST		
05		0342	WDGTA	EQU	X'0C'	GET TERMINAL ATTRIBUTES		
		0343	WDGTA	EQU	X'0D'	EXTENDED GET TERMINAL ATTRIBUTES		
		0344	WDORS	EQU	X'0E'	SPECIAL READ OP CODE		
06		0345	WDSTI	EQU	X'10'	STOP INVITE REQUEST		
		0346	WDSTP	EQU	WDSTI+WDPUT	STOP INVITE THEN PUT		
		0347	WDSPG	EQU	WDSTI+WDPUT+WDGET	STOP INVITE, PUT THEN GET		
07		0348	WDSPW	EQU	WDSTI+WDPNW	STOP INVITE, PUT-NO-WAIT		
		0349	WDSP1	EQU	WDSTI+WDPUT+WDINV	STOP INVITE, PUT THEN INVITE		
		0350	WDRES	EQU	X'20'	RESET KEYBOARD		
08		0351	WDRTG	EQU	WDRES+WDGET	RESET THEN GET DATA		
		0352	WDRTI	EQU	WDRES+WDINV	RESET THEN INVITE INPUT		
		0353	WDERS	EQU	X'40'	ERASE INPUT FIELDS		
09		0354	WDETG	EQU	WDERS+WDGET	ERASE THEN GET DATA		
		0355	WDETI	EQU	WDERS+WDINV	ERASE THEN INVITE INPUT		
		0356	WDCLR	EQU	X'80'	CLEAR THE SCREEN		
10		0357	WDEVK	EQU	X'80'	EVOKE		
		0358	WDEVE	EQU	X'88'	EVOKE END OF TRANSACTION		
		0359	WDEVI	EQU	X'85'	EVOKE INVITE		
11		0360	WDEVG	EQU	X'81'	EVOKE GET		
		0361	WDPEC	EQU	X'42'	PUT END OF CHAIN		
		0362	WDPEF	EQU	X'22'	PUT END OF FILE		
12		0363	WDFPH	EQU	X'12'	PUT FUNCTION MGMT HEADER		
		0364	WDFPHI	EQU	X'17'	PFM INVITE		
		0365	WDFPHG	EQU	X'13'	PFM GET		
13		0366	WDPEX	EQU	X'1A'	PUT END OF TRANSACTION		
		0367	WDRCDI	EQU	X'45'	REQ. CHANGE DIR. INVITE		
		0368	WDRCDG	EQU	X'41'	REQ. CHANGE DIR. GET		
14		0369	WDFAIL	EQU	X'32'	PUT FAIL RESPONSE		
		0370	WDNGRP	EQU	X'20'	NEGATIVE RESPONSE		
		0371	WDNGRPI	EQU	X'25'	NEGATIVE RESPONSE INVITE		
15		0372	WDNGRPG	EQU	X'21'	NEGATIVE RESPONSE GET		
		0373	WDCANL	EQU	X'10'	CANCEL		
		0374	WDCANLI	EQU	X'15'	CANCEL INVITE		
16		0375	WDCANLG	EQU	X'11'	CANCEL GET		
		0376	WDNEOS	EQU	X'EO'	NORMAL END OF STEP		
		0377	WDNEOJ	EQU	X'EB'	NORMAL END OF JOB		
17		0378	WDNEOS	EQU	X'FO'	ABNORMAL END OF STEP		
		0379	WDNEOJ	EQU	X'FB'	ABNORMAL END OF JOB		
		0380	WDNSFL	EQU	X'FF'	TCSSES ASSIGN FAILURE		
18		0381	WDSTTR	EQU	X'08'	SET TIMER		
		0382			SPACE 2			
		0383	WDOUTL	EQU	WDOPC+2	OUTPUT LENGTH		
19		0384	WDEFFL	EQU	WDOUTL	EFFECTIVE INPUT LENGTH		
		0385	WDRECA	EQU	WDEFFL+2	RECORD AREA ADDRESS		

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IF	DO	LINE						
01		0386	WDTUB	EQU				
		0387	WD960	EQU				
02		0388	WDALD	EQU				
		0389	WDIOPC	EQU				
		0390			SPACE 2			
03		0391	WDCHELP	EQU				
		0392			SPACE 2			
		0393	WDSRCT	EQU				
04		0394			SPACE 2			
		0395	WDSR01	EQU				
		0396	WDSR02	EQU				
05		0397	WDSR03	EQU				
		0398	WDSRCN	EQU				
		0399	WDSRCM	EQU				
06		0400	WDSRCW	EQU				
		0401			SPACE 2			
		0402	WDRUPD	EQU				
07		0403			SPACE 2			
		0404	WDRUP	EQU				
		0405	WDRDN	EQU				
08		0406	WDRCL	EQU				
		0407			SPACE 2			
		0408	WDLPLN	EQU				
09		0409	WDSLNE	EQU				
		0410	WDELNE	EQU				
		0411	WDSVSLN	EQU				
10		0412	WDINDG	EQU				
		0413	WDFMTN	EQU				
		0414	WDLN	EQU				
11		0415	****		END OF EXPAN			
		0416	CPWSDM	EQU				
12		0418	*****					
		0419	* RECOMMENDED *					
		0420	* USE *					
13		0421	*****					
		0422	SPACE					
		0423	CPMRTV	EQU				
14		0424			SPACE			
		0425	*****					
		0426	* EXPECTED *					
15		0427	* USE *					
		0428	*****					
		0429	SPACE					
16		0430	CPDPLN1	EQU				
		0431	CPDADR1	EQU				
		0432	CPDPLN2	EQU				
17		0433	CPDADR2	EQU				
		0434	CPDPLN3	EQU				
		0435	CPDADR3	EQU				
18		0436	CPDPLN4	EQU				
		0437	CPDADR4	EQU				
		0438	CPDPS	EQU				
19		0439			SPACE			
		0440	CPDPCNT	EQU				

16	2409 SCADSP3 EQU SCADSP3*1	1 CSP <----> RSP INTERFACE BYTE
	2410 SCAPLCA EQU X'00'	. PLCA CONTROLLER ATTACHED (R6)
	2411 SCAMSCB EQU X'40'	. MSC 'B' CONTROLLER ATTACHED (R6)
17	2412 SCAPFER EQU X'20'	. CONFIG RECORD TUB COUNT ERROR (R7)
	2413 " EQU X'10'	. RESERVED
	2414 " EQU X'08'	. RESERVED
	2415 " EQU X'04'	. RESERVED
18	2416 SCADTOK EQU X'02'	. TERMINAL UNIT BLOCK CHAIN LOCKED
	2417 " EQU X'01'	. RESERVED
	2418 "	
19	2419 SCADSNAT EQU SCADSP3*2	2 TCB ADDRESS OF SNA TASK
	2420 "	

16	2464 SCADSOILS EQU
	2465 SCADSOILP EQU
	2466 "
17	2467 SCADCF67 EQU
	2468 SCAMMAP EQU
	2469 "
	2470 "
18	2471 SCAMDEL EQU
	2472 "
	2473 "
19	2474 SCAMFMT EQU
	2475 "

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01	IF DO	LINE	SOURCE					
		0306	WDTUB EQU	WDRECA*2	TUB ADDRESS			
		0387	WD960 EQU	WDTUB*2	MASK FOR WHICH LINES TO DISPLAY 00022			
02		0388	WDAID EQU	WDAID*1	AID BYTE ON INPUT OPERATIONS 00022			
		0389	WDIOPC EQU	WDAID*1	INTERNAL OPERATION CODE			
		0390	SPACE 2					
03		0391	WDCPHLP EQU	X'FF'	SPECIAL CMD PROC HIGH LEVEL HELP MIC			
		0392	SPACE 2					
		0393	WDSACT EQU	WDIOPC	SAVE/RESTORE COUNT			
04		0394	SPACE 2					
		0395	WDSR01 EQU	X'01'	SAVE AREA 1 - MESSAGE/SYSLOG			
		0396	WDSR02 EQU	X'02'	SAVE AREA 2 - INQUIRY 1			
05		0397	WDSR03 EQU	X'03'	SAVE AREA 3 - INQUIRY 2			
		0398	WDSR04 EQU	X'08'	SYSTEM CONSOLE SAVE AREA			
		0399	WDSR05 EQU	X'09'	CONSOLE MODE SAVE AREA			
06		0400	WDSR06 EQU	X'0A'	CONSOLE WORK STATION MODE SAVE AREA			
		0401	SPACE 2					
		0402	WDRUPD EQU	WDIOPC*1	ROLL FLAGS			
07		0403	SPACE 2					
		0404	WDRUP EQU	X'80'	ROLL UP			
		0405	WDRDN EQU	X'40'	ROLL DOWN			
08		0406	WDRCL EQU	X'20'	CLEAR VACATED LINE(S)			
		0407	SPACE 2					
		0408	WDLN EQU	WDRUPD*1	NUMBER OF LINES TO ROLL			
09		0409	WDSLNE EQU	WDLN*1	START LINE NUMBER FOR ROLL			
		0410	WDELNE EQU	WDSLNE*1	END LINE NUMBER FOR ROLL			
		0411	WVSLN EQU	WDELNE*1	VARIABLE START LINE NUMBER			
10		0412	WDIND0 EQU	WVSLN*2	ADDRESS OF OVERRIDE INDICATORS			
		0413	WDFMTN EQU	WDIND0*2	FORMAT INDEX ENTRY ADDRESS			
		0414	WDLN EQU	WDFMTN*1	PARAMETER LIST LENGTH			
11		0415	**** END OF EXPANSION **					
		0416	CPWSDM EQU	CPWPK+WDLN-1	WSDM PARAMETER LIST AREA			
		0417	SPACE					
12		0418	***** MESSAGE RETRIEVE PARAMETER LIST *****					
		0419	* RECOMMENDED * THIS PART OF THE WORKAREA IS USED TO INTERFACE *					
		0420	* USE * WITH THE MESSAGE RETRIEVE FUNCTION. *					
13		0421	*****					
		0422	SPACE					
		0423	CPMRTV EQU	0*15	MSG RETRIEVE PLIST			
14		0424	SPACE					
		0425	***** COMMAND OPERAND TABLE *****					
		0426	* EXPECTED * THIS PART OF THE WORKAREA CONTAINS A TABLE OF *					
15		0427	* USE * OPERAND ADDRESSES USED BY ALL COMMAND CLIENTS. *					
		0428	*****					
		0429	SPACE					
16		0430	CPOPLN1 EQU	CPWSDM*1	OPERAND 1 LENGTH-1			
		0431	CPOPADR1 EQU	CPOPLN1*2	OPERAND 1 RIGHT-HAND ADDRESS			
		0432	CPOPLN2 EQU	CPOPADR1*1	OPERAND 2 LENGTH-1			
17		0433	CPOPADR2 EQU	CPOPLN2*2	OPERAND 2 RIGHT-HAND ADDRESS			
		0434	CPOPLN3 EQU	CPOPADR2*1	OPERAND 3 LENGTH-1			
		0435	CPOPADR3 EQU	CPOPLN3*2	OPERAND 3 RIGHT-HAND ADDRESS			
18		0436	CPOPLN4 EQU	CPOPADR3*1	OPERAND 4 LENGTH-1			
		0437	CPOPADR4 EQU	CPOPLN4*2	OPERAND 4 RIGHT-HAND ADDRESS			
		0438	CPOPS EQU	CPOPADR4	END OF OPERAND ENTRIES			
19		0439	SPACE					
		0440	CPOPNT EQU	CPOPADR4*1	NUMBER OF COMMAND OPERANDS			

01	IF DO	LINE	
		0441	SPR
		0442	CPCODE EQU
02		0443	SPR
		0444	MENU EQU
		0445	MSG EQU
03		0446	PRTY EQU
		0447	OFF EQU
		0448	OFFMENU EQU
04		0449	BLDJCB EQU
		0450	SPECIAL EQU
		0451	KEYREQ EQU
05		0452	RSTREQ EQU
		0453	MODE EQU
		0454	CNRS EQU
06		0455	CNCLINQ EQU
		0456	TIME EQU
		0457	JOBQIN EQU
07		0458	FND EQU
		0459	STATEND EQU
		0460	SGHTPL EQU
08		0461	STRTPRT EQU
		0462	AUTDSTAT EQU
		0463	STOPDNE EQU
09		0464	ERROFF EQU
		0465	" EQU
		0466	ERRCNCL EQU
10		0467	ERRCNCL EQU
		0468	ERRRESM EQU
		0469	TIMESET EQU
11		0470	INDOPT1 EQU
		0471	SETDUMP EQU
		0472	ACDMSG EQU
12		0473	CNCLSVC EQU
		0474	ACDERR EQU
		0475	ACDRESUM EQU
13		0476	ACDEND EQU
		0477	ACDUPDTE EQU
		0478	CLRMENU EQU
14		0479	IDDELETE EQU
		0480	OFFOCL EQU
		0481	CPTOCALL EQU
15		0482	CPONCALL EQU
		0483	CPICALL EQU
		0484	STOPJOB EQU
16		0485	WRT EQU
		0486	JOBQ EQU
		0487	STATUS EQU
17		0488	CANCEL EQU
		0489	VARY EQU
		0490	REPLY EQU
18		0491	STOP EQU
		0492	START EQU
		0493	RESTART EQU
19		0494	ASSIGN EQU
		0495	CHANGE EQU

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16	2464	SCADSOLS	EQU	SCADSOL*1	1	SOLC SECONDARY TASK USE COUNT	IR31
	2465	SCADSOLP	EQU	SCADSOLS*1	1	SDLC PRIMARY TASK USE COUNT	IR31
	2466	*					
	2467	SCADCFE7	EQU	SCADSOLP*1	1	HISTORY FILE CONFIGURATION	IR31
17	2468	SCADWMP	EQU	X'80'	.	HISTORY-AUTOMATIC WMP INDICATOR	
	2469	*				1 - AUTO WMP HISTORY FILE	
	2470	*				0 - NO HISTORY AUTO WMP	
18	2471	SCADDEL	EQU	X'40'	.	HISTORY-OVERFLOW FILE DELETE	
	2472	*				1 - DELETE OVERFLOW FILE	
	2473	*				0 - DONT DELETE OVERFLOW FILE	
19	2474	SCADWMT	EQU	X'20'	.	HISTORY-REFORMAT OVERFLOW FILE	
	2475	*				1 - REFORMAT OVERFLOW FILE @ IPL	

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IF	DO	LINE	SPACE	SOURCE					
01		0441							
		0442	CPCODE	EQU	CPOPCNT*1	COMMAND ROUTING CODE			
02		0443		SPACE					
		0444	MENU	EQU	X'01'	. MENU COMMAND CODE			
		0445	MSG	EQU	X'02'	. MSG COMMAND CODE			
03		0446	PRTY	EQU	X'03'	. PRTY COMMAND CODE			
		0447	OFF	EQU	X'04'	. OFF COMMAND CODE			
		0448	OFFMENU	EQU	X'05'	. CANCEL MENU FUNCTION			
04		0449	BLD.JCB	EQU	X'06'	. BUILD JCB REQUEST			
		0450	SPECIAL	EQU	X'07'	. AID BYTE FUNCTION REQUEST			
		0451	KEYREQ	EQU	X'07'	. AID BYTE FUNCTION REQUEST			
05		0452	RSTREQ	EQU	X'08'	. RESTORE SCREEN REQUEST			
		0453	MODE	EQU	X'09'	. MODE COMMAND CODE			
		0454	CNLS	EQU	X'0A'	. CONSOLE COMMAND CODE			
06		0455	CNCLINQ	EQU	X'0B'	. CANCEL FROM INQUIRY MENU			
		0456	TIME	EQU	X'0C'	. TIME COMMAND			
		0457	JOBQIN	EQU	X'0D'	. INPUT JOBQ INITIATION CALL			
07		0458	FND	EQU	X'0E'	. FIND COMMAND CODE			
		0459	STATEND	EQU	X'0F'	. END AND DEQUEUE STATUS			
		0460	SGN IPL	EQU	X'10'	. SIGNON CALL FROM IPL			
08		0461	STRTPRT	EQU	X'11'	. START PRT CALL FROM START SYSTEM			
		0462	AUTOSTAT	EQU	X'12'	. AUTOMATIC UPDATE STATUS CALL			
		0463	STOPONE	EQU	X'13'	. STOP SYSTEM HAS COMPLETED			
09		0464	ERROFF	EQU	X'14'	. SIGN OFF DUE TO I/O ERROR			
		0465	*	EQU	X'15'	. UNUSED			
		0466	ERRCNLS	EQU	X'16'	. I/O ERROR CONSOLE REBUILD REQUEST			
10		0467	ERRCNCL	EQU	X'17'	. I/O ERROR CANCEL REQUEST			
		0468	ERRRESM	EQU	X'18'	. I/O ERROR INQUIRY RESUME REQUEST			
		0469	TIMESTAT	EQU	X'19'	. TIMER STATUS REQUEST (DEVELOPMENT)			
11		0470	INQOPT1	EQU	X'1A'	. INQUIRY OPTION ONE REQUEST			
		0471	SETDUMP	EQU	X'1B'	. SETDUMP COMMAND CODE			
		0472	ACDMSG	EQU	X'1C'	. DISPLAY ADDRESS COMPARE DUMP MSG			
12		0473	CNCL SVC	EQU	X'1D'	. CANCEL SVC CODE			
		0474	ACDERR	EQU	X'1E'	. ADDR COMPARE DUMP ERRS TO CONSOLE			
		0475	ACDRESUM	EQU	X'1F'	. ADDR COMPARE DUMP AUTO RESUME			
13		0476	ACDEND	EQU	X'20'	. END ADDRESS COMPARE DUMP			
		0477	ACDUPDTE	EQU	X'21'	. UPDATE ADDRESS COMPARE DUMP			
		0478	CLRMENU	EQU	X'22'	. END THE MENU, BUT NO I/O			
14		0479	IDDELETE	EQU	X'23'	. IDELETE COMMAND CODE			
		0480	OFFOCL	EQU	X'24'	. OFF OCL STATEMENT			
		0481	CPIQCALL	EQU	X'25'	. CPIQ CALL			
15		0482	CPONCALL	EQU	X'26'	. CPON CALL			
		0483	CMCTCALL	EQU	X'27'	. CMCT CALL			
		0484	STOPJOB	EQU	X'28'	. CALL TO AUTOMATICALLY STOP JOB, ALL			
16		0485	WRT	EQU	X'29'	. WRITER COMMAND CODE			
		0486	JOBQ	EQU	C'J'	. JOBQ COMMAND CODE			
		0487	STATUS	EQU	C'D'	. STATUS COMMAND CODE			
17		0488	CANCEL	EQU	C'C'	. CANCEL COMMAND CODE			
		0489	WARY	EQU	C'V'	. WARY COMMAND CODE			
		0490	REPLY	EQU	C'R'	. REPLY COMMAND CODE			
18		0491	STOP	EQU	C'P'	. STOP COMMAND CODE			
		0492	START	EQU	C'S'	. START COMMAND CODE			
		0493	RESTART	EQU	C'T'	. RESTART COMMAND CODE			
19		0494	ASSIGN	EQU	C'A'	. ASSIGN COMMAND CODE			
		0495	CHANGE	EQU	C'G'	. CHANGE COMMAND CODE			

A11

2518	SCAD						
2519	SCAD						
2520	SCAD						
2521	*						
2522	*						
2523	*						
2524	*						
2525	*						
2526	*						
2527	*						
2528	SCAD						
2529	SCAD						
2530	SCAD						

16	2518 SCAMF65 EQU SCAMF65+1 . SECURITY FEATURES	
	2519 SCAMSEC EQU X'80' . RESOURCE SECURITY	
	2520 SCAMRAG EQU X'40' . BADGE READER SECURITY	
	2521 * EQU X'20' . RESERVED	
	2522 * EQU X'10' . RESERVED	
17	2523 * EQU X'08' . RESERVED	
	2524 * EQU X'04' . RESERVED	
	2525 * EQU X'02' . RESERVED	
18	2526 * EQU X'01' . RESERVED	
	2527 * .	
19	2528 SCAMDBT EQU SCAMDBT+1 . WSDM BRANCH TABLE (LOW SIDE) (R2)	
	2529 SCAMADB0 EQU SCAMDBT+1 ----> #ADB0 STORAGE ADDRESS (R2)	
	2530 SCAMADB1 EQU SCAMDBT+3 ----> #ADB1 STORAGE ADDRESS (R3)	
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16	2573 * EQU	
	2574 * EQU	
	2575 * EQU	
	2576 * EQU	
17	2577 SCADCP53 EQU	
	2578 SCADSTOPS EQU	
	2579 SCADCKF EQU	
18	2580 SCAMTLP EQU	
	2581 SCAMIOCL EQU	
	2582 SCAMLATF EQU	
19	2583 SCAPFUND EQU	
	2584 SCAMZ15 EQU	
	2585 SCAM000 EQU	
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15	DATE 81/12/08	
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01	IF DO	LINE	SOURCE		
		0496 HOLD EQU C'H'	. HOLD COMMAND CODE		
		0497 RELEASE EQU C'L'	. RELEASE COMMAND CODE		
02		0498 SPACE			
		0499 ***** #CPCU AND #CPOC PARAMETER LIST *****			
03		0500 * EXPECTED * THIS PART OF THE WORKAREA IS USED WHEN INTERFACING *			
		0501 * USE * WITH THE COMMAND PROCESSOR CLEANUP XIENTS *			
		0502 *****			
04		0503 SPACE			
		0504 CPCPCU EQU CPCODE+1	CPCU PARAMETER LIST AREA		
		0505 CMCUSW1 EQU CPCPCU	SWITCH BYTE		
		0506 SPACE			
05		0507 CMCUOUT EQU X'80'	. 0=NO OUTPUT TO BE DISPLAYED		
		0508 *	. 1=OUTPUT PROMPT TO BE DISPLAYED		
06		0509 CMCUINP EQU X'40'	. 0=NO INPUT INFORMATION AVAILABLE		
		0510 *	. 1=INPUT INFORMATION AVAILABLE		
		0511 CMCUROL EQU X'20'	. 0=DO NOT ROLL SCREEN BEFORE		
		0512 *	. 1=ROLL SCREEN SPECIFIED # OF LINES		
07		0513 CMCULOG EQU X'10'	. 0=DO NOT LOG INPUT OR OUTPUT INFO		
		0514 *	. 1=LOG INPUT AND/OR OUTPUT INFO		
08		0515 CMCUSMS EQU X'08'	. 0=SHOW MESSAGE ONLY TO W.S.		
		0516 *	. 1=SHOW MESSAGE TO SYSTEM CON ALSO		
		0517 CMCUIRL EQU X'04'	. 0=DO NOT INCLUDE INPUT LINE IN ROLL		
		0518 *	. 1=INCLUDE INPUT LINE IN ROLL		
09		0519 CMCUSUB EQU X'02'	. 0=NO MSG SUBSTITUTION		
		0520 *	. 1=MSG SUBSTITUTION TO BE PERFORMED		
10		0521 CMCUBOC EQU X'01'	. 0=THIS IS NOT A BROADCAST		
		0522 *	. 1=THIS IS A MSG BROADCAST		
		0523 SPACE			
11		0524 CMCUMIC EQU CMCUSW1+2	MIC NUMBER TO BE LOGGED/DISPLAYED		
		0525 CMCUSW2 EQU CMCUMIC+1	SWITCH BYTE 2		
		0526 CMCUNINV EQU X'80'	. 0=INVITE WORK STATION		
		0527 *	. 1=DO NOT INVITE WORK STATION		
12		0528 CMCUNOTO EQU X'40'	. 0=ISSUE WSDM OUTPUT		
		0529 *	. 1=DO NOT ISSUE WSDM OUTPUT		
13		0530 CMCUCOND EQU X'20'	. 0=DO NOT ROUTE ONLY TO CONSOLE		
		0531 *	. 1=ROUTE OUTPUT ONLY TO CONSOLE		
		0532 CMCUSTAT EQU X'10'	. 0=IGNORE THIS BIT IF OFF		
		0533 *	. 1=IF CMCUINP IS ON THEN DO NOT		
14		0534 *	UPDATE STATUS, IF CMCUINP IS OFF		
		0535 *	THEN UPDATE STATUS		
		0536 *	. BITS 4 - 7 RESERVED		
15		0537 CMCULEN EQU CMCUSW2	LENGTH OF OUTPUT TO #CPOC		
		0538 CMCUMG# EQU CMCUSW2+2	ADDRESS OF IN CORE MESSAGE TEXT		
		0539 *	OR OUTPUT TO #CPOC		
16		0540 CMCUSDA EQU CMCUSW2+2	ADDRESS OF MSG SUBSTITUTION DATA		
		0541 CMCULEN EQU CMCUMG#-CPCUCU+1	LENGTH OF PARAM LIST		
		0542 SPACE			
17		0543 ***** WORKAREA *****			
		0544 * RECOMMENDED * THIS PART OF THE WORKAREA CAN BE USED BY COMMAND *			
		0545 * USE * PROCESSOR XIENTS IN ANYWAY DESIRED. *			
18		0546 *****			
		0547 SPACE			
19		0548 CPURKL EQU CMCUMG#+1	START OF WORK AREA		
		0549 CPURKR EQU CMCUMG#+32	END OF WORK AREA		
		0550 SPACE			
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01	SPL/3	VERSION 08/28/80			
	IF DO	LINE			
		0551 *****			
		0552 * RECOMMENDED			
02		0553 * USE			
		0554 *			
		0555 *			
03		0556 *****			
		0557 CPIOPARM EQU			
04		0558 CPIOCLR EQU			
		0559 CPIOSAVE EQU			
		0560 CPIOSIN EQU			
05		0561 CPIORSTR EQU			
		0562 *			
		0563 *			
		0564 *			
06		0565 *			
		0566 CPIOINV EQU			
		0567 CPIOSTNV EQU			
07		0568 CPIOPTNI EQU			
		0569 CPIOPUT EQU			
		0570 CPIOUNF EQU			
08		0571 *			
		0572 *			
		0573 *			
09		0574 *			
		0575 *			
		0576 *			
10		0577 *			
		0578 *			
		0579 SPACE			
11		0580 *****			
		0581 * EXPECTED *			
		0582 * USE *			
12		0583 *****			
		0584 SPACE			
		0585 CPFIREL EQU			
13		0586 CPFIRER EQU			
		0587 SPACE			
		0588 *****			
14		0589 * EXPECTED *			
		0590 * USE *			
		0591 *****			
15		0592 SPACE			
		0593 CPUSDMIN EQU			
		0594 SPACE			
16		0595 CPINPOTA EQU			
		0596 CPINPOTE EQU			
		0597 CPINPSTD EQU			
17		0598 CPINPEND EQU			
		0599 CPSTAT# EQU			
18		0600 SPACE			
		0601 *****			
		0602 * EXPECTED *			
		0603 * USE *			
19		0604 *****			
		0605 SPACE			
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16	2573 * EQU X'04'	. 00 - RESERVED
	2574 * EQU X'02'	. 0E - RESERVED
	2575 * EQU X'01'	. 0F - RESERVED
	2576 *	
17	2577 SCADCP53 EQU SCADWTD+1	1 COMMAND PROCESSOR SWITCH 3 (R4)
	2578 SCADSTOPS EQU X'80'	. STOP SESSION ACTIVE
	2579 SCADCKF EQU X'40'	. REBUILD-DELETE CHECKPOINT FILES
18	2580 SCADRTLP EQU X'20'	. INITIALIZE LINE PRINTER (R5)
	2581 SCADTCL EQU X'10'	. NLCA IOCH LOADED (R6)
	2582 SCADLATF EQU X'08'	. NLCA ERROR ATTACH FAILURE (R6)
	2583 SCADFLND EQU X'04'	. DISKETTE HAS EXTENDED LABELS (R7)
19	2584 SCADWZ15 EQU X'02'	. X.21 SWITCHED (R8)
	2585 SCADWDD0 EQU X'01'	. DISKETTE HAS NON-SEQ. RECORDS (R8)
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IF 00	LINE	SOURCE		
	0551	***** CPIO PARAMETER LIST *****		
	0552	* RECOMMENDED * THIS PART OF THE WORKAREA OVERLAYS THE GENERAL PART *		
	0553	* USE * OF THE WORKAREA, BEGINNING AT CPWRKL. *		
	0554	* ITS INTENDED USE IS A ONE BYTE PARAMETER LIST *		
	0555	* TO *CPIO TO DO ANY OF THE FOLLOWING TO REQUESTS. *		
	0556	*****		
	0557	CPIOPRM EQU CPWRKL ONE BYTE *CPIO PARAM LIST		
	0558	CPIOCLR EQU X'F0' . CLEAR SCREEN REQUEST		
	0559	CPIOSAVE EQU X'80' . SAVE SCREEN REQUEST		
	0560	CPIOSIN EQU X'60' . RESTORE SCREEN WITH INVITE		
	0561	CPIORSTR EQU X'40' . RESTORE SCREEN WITHOUT INVITE		
	0562	* NOTE: ON SAVE AND RESTORE, THE LOWER		
	0563	* NIBBLE OF THE PARAMETER LIST IS USED		
	0564	* TO INDICATE WHICH SAVE AREA IS		
	0565	* BEING USED.		
	0566	CPIOINV EQU X'20' . INVITE SCREEN REQUEST		
	0567	CPIOSINV EQU X'10' . STOP INVITE REQUEST		
	0568	CPIOPTNI EQU X'00' . PUT SCREEN WITH INVITE		
	0569	CPIOPUT EQU X'08' . PUT SCREEN WITHOUT INVITE		
	0570	CPIOUNF EQU X'04' . UNFORMATTED PUT REQUEST		
	0571	* NOTE: CPIO CAN DISPLAY ANY OF THE		
	0572	* FOLLOWING DISPLAYS:		
	0573	* COMMAND DISPLAY		
	0574	* CONSOLE DISPLAY		
	0575	* STANDBY DISPLAY		
	0576	* SRT INQUIRY DISPLAY		
	0577	* HRT INQUIRY DISPLAY		
	0578	*		
	0579	SPACE		
	0580	***** STATUS FIRE FIELD SAVEAREA *****		
	0581	* EXPECTED * THIS PART OF THE WORKAREA IS USED BY STATUS *		
	0582	* USE * COMMAND TO GET THE FIRE CONTROL CHARACTER(S). *		
	0583	*****		
	0584	SPACE		
	0585	CPFIREL EQU CPWRKR+1 START OF FIRE FIELD SAVEAREA		
	0586	CPFIRER EQU CPFIREL+2 END OF FIRE FIELD SAVEAREA		
	0587	SPACE		
	0588	***** ACCEPT INPUT BUFFER *****		
	0589	* EXPECTED * THIS PART OF THE WORKAREA IS USED TO ACCEPT *		
	0590	* USE * AND LOG INPUT FROM A WORKSTN (*CPRT AND *CMCU). *		
	0591	*****		
	0592	SPACE		
	0593	CPUSDMIN EQU CPFIRER+1 START OF INPUT AREA		
	0594	SPACE		
	0595	CPINPOTA EQU CPUSDMIN INPUT FIELD 1 START		
	0596	CPINPOTE EQU CPINPOTA+119 INPUT FIELD 1 END		
	0597	CPINPSTD EQU CPINPOTE+3 INPUT FIELD 2 - STATUS COMMAND		
	0598	CPINPEND EQU CPINPOTA+120 COMMAND DATA END + 1		
	0599	CPSTATQ EQU CPINPSTD STATUS QUEUE ELEMENT ADDRESS		
	0600	SPACE		
	0601	***** STATIC PORTION OF CPWRK *****		
	0602	* EXPECTED * THIS PART OF THE WORKAREA IS USED TO CONTAIN *		
	0603	* USE * INFORMATION THAT MUST BE RETAINED. *		
	0604	*****		
	0605	SPACE		

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IF 00	LINE	SOURCE		
	0606	CPTU		
	0607	CPBT		
	0608	CPRS		
	0609	***		
	0610	** C		
	0611	** CH		
	0612	** CH		
	0613	CXSS		
	0614	CXNU		
	0615	CXNU		
	0616	CXLD		
	0617	IL2L		
	0618	CXAS		
	0619	IL2A		
	0620	CXIO		
	0621	CXPS		
	0622	CXPS		
	0623	CXFD		
	0624	CXNU		
	0625	CXTI		
	0626	CXTI		
	0627	CXNU		
	0628	CXNU		
	0629	CXNU		
	0630	CXTR		
	0631	CXNU		
	0632	CXNU		
	0633	CXNU		
	0634	CXAD		
	0635	CXFD		
	0636	CXCD		
	0637	CXNU		
	0638	CXPR		
	0639	CXNU		
	0640	CXNU		
	0641	CXACT		
	0642	CXNU		
	0643	CXNU		
	0644	CXPR		
	0645	CXNU		
	0646	CXNU		
	0647	CXNU		
	0648	CXNU		
	0649	*		
	0650	*** E		
	0651	*		
	0652	*****		
	0653	*****		
	0654	** DI		
	0655	*****		
	0656	*****		
	0657	*****		
	0658	*****		
	0659	* NOT		
	0660	*		

16	2628 * EQU X'20' . RESERVED	2682
16	2629 * EQU X'10' . RESERVED	2684
16	2630 * EQU X'08' . RESERVED	2685
16	2631 * EQU X'04' . RESERVED	2686
17	2632 * EQU X'02' . RESERVED	2687
17	2633 SCAMP21 EQU X'01' . X.21 FEATURE (R81)	2688
17	2634 *	2689
18	2635 SCADCPYR EQU 255 38 COPYRIGHT	2690
18	2636 *	2691
18	2637 SCADMATR EQU SCADCPYR-31 32 TERMINATION DUMP ATR STACK.	2692
19	2638 * USED BY ABNORMAL TERMINATION	2693
19	2639 * WHEN DUMPING MORE THAN 64K OF	2694
19	2640 * MAIN STORAGE. COPYRIGHT WILL BE	2695
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E 11	TIME 02:15	DATE 81/12/08	SPL/3 VERSION 08/28/80	PAGE 12	TIME 02:15	DATE 81/12/08	SPL/3 VERSION
01	IF DO	LINE	SOURCE				IF DO LINE
		0606 CPTUB EQU CPINPSTD+2	TUB ADDRESS				0661
		0607 CPBTCB EQU CPTUB+2	TCB ADDRESS				0662
02		0608 CPRSV EQU CPBTCB+1	RESERVED				0663
		0609 *** END OF EXPANSION **					0664
		0610 * CXNT		00940000			0665
03		0611 ** CONTROL STORAGE TRANSIENT NUMBERS **					0666
		0612 * (HIGH BYTE OF ID FIELD CONTAINS X'00')					0667
		0613 CXSSH EQU 0	TRANSIENT CALL BY SSH				0668
04		0614 CXNULX EQU 1	MAIN STORAGE RLD PROCESSOR				0669
		0615 CXNLAB EQU 2	ABNORMAL TASK TERMINATION				0670
		0616 CKLOAD EQU 3	IL2 = 00 CONTROL STORAGE LOADER				0671
05		0617 IL2LOAD EQU 0	IN-LINE PARM 2 IS 0 FOR LOADER FUNC.				0672
		0618 CXASGB EQU 3	IL2 = 01 ASSIGN FROM BACK OF ASSIGN/FRE				0673
		0619 IL2ASGB EQU 1	IN-LINE PARM 2 IS 1 FOR ASGB FUNC				0674
06		0620 CXIOERP EQU 4	DISKETTE ERPS				0675
		0621 CXPSIPL EQU 5	PSEUDO CONTROL STORAGE IPL				0676
		0622 CXMSPCK2 EQU 6	MSP PROC CHECK ERROR HANDLER # 2				0677
07		0623 CXFDAL3 EQU 7	ALTERNATE SECTOR ASSIGNMENT # 3				0678
		0624 CXNAMEID EQU 8	W/S ERP XIENT				0679
		0625 CXTIX1 EQU 9	INTERVAL TIMER # 1				0680
08		0626 CXTIX EQU 10	INTERVAL TIMER MASTER				0681
		0627 CXNUTEID EQU 11	5211 PRINTER ERP XIENT				0682
		0628 CXNUBEID EQU 12	5256 PRINTER ERP XIENT				0683
09		0629 CXNUCLID EQU 13	CTL PROCESSOR LOGGING XIENT				0684
		0630 CXTRACE EQU 14	SET TRACE INDICATORS				0685
		0631 CXNUBLID EQU 15	DATA COMM BSCA LOGGING XIENT				0686
10		0632 CXNUSLID EQU 16	DATA COMM SOLC LOGGING XIENT				0687
		0633 CXNUGLID EQU 17	I/O -- ERROR COUNTER LOGGING XIENT				0688
		0634 CXADINIT EQU 18	A/D INITIALIZE ROUTINE				0689
11		0635 CXFDERP EQU 19	FDIOS ERROR RECOVERY				0690
		0636 CXCONPMT EQU 20	CONCURRENT MAINTENANCE				0691
		0637 CXNUPD EQU 21	PRINTER/DISPLAY ERROR ROUTER				0692
12		0638 CXNRE EQU 22	1255 ERROR TRANSIENT				0693
		0639 CXNUIOE EQU 23	I/O ERROR TRANSIENT 2				0694
		0640 CXNULID EQU 24	REMOTE W/S LOGGING XIENT 3				0695
13		0641 CXACDUMP EQU 25	SET ADDR. COMP. REGISTERS XIENT 3				0696
		0642 CXNUSPF EQU 26	SYSTEM MEASURE FACILITY XIENT 3.5				0697
		0643 CXNUNEID EQU 27	3262 PRINTER ERP XIENT				0698
14		0644 CXNVALD EQU 28	1255 TRANSIENT #2				0699
		0645 CXNUGETP EQU 29	NON-SWAPPABLE GET PAGE XIENT				0700
		0646 CXNUNEID EQU 30	FAST MATRIX PRINTER ERP XIENT				0701
15		0647 CXNVALD EQU 31	AUTOCALL LOGGING XIENT				0702
		0648 CXNUBLID EQU 32	X.21 LOGGING XIENT 8				0703
		0649 *					0704
16		0650 *** END OF EXPANSION **					0705
		0651 * DICT1		00950000			0706
		0652					0707
17		0653					0708
		0654 ** DIRECT STORAGE AREAS USED PRIMARILY BY THE CTRL STG NUCLEUS **					0709
		0655					0710
18		0656					0711
		0657	SPACE 2				0712
		0658					0713
19		0659 * NOTE: THE LABELING OF ITEMS AS 'CONSTANT', OR 'NON-CONSTANT IS *					0714
		0660 * EXACT AND MEANINGFUL. THAT IS, ITEMS IDENTIFIED AS 'CONSTANT' *					0715
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16	2684	SVCSTP	EQU	X'22'	DUMP MAIN STORAGE/TERMINATE TASK
	2685	SVCPRQ	EQU	X'24'	TCB PRIORITY QUEUE
	2686	SVCRCYCK	EQU	X'25'	ASYNCHRONOUS TASK READY CHECK.
17	2687	SVCPRP	EQU	X'26'	PREPARE PRINTER OUTPUT
	2688	SVCSPCH	EQU	X'27'	DISPATCHER SVC
	2689	SVCNPT	EQU	X'28'	REMOTE PRINTER SET UP.
18	2690	SVCSEQ	EQU	X'29'	SECTOR ENQUEUE/DEQUEUE
	2691	SVCNVEI	EQU	X'2A'	MOVE DATA BY ID
	2692	SVCPOSTI	EQU	X'2B'	POST TASK BY ID
19	2693	SVCWAIT	EQU	X'2C'	QUIESCE COUNTER WAIT
	2694	SVCXAF	EQU	X'2D'	TRANSLATED ASSIGN/FREE
	2695	SVC TOD	EQU	X'2E'	RETURN TIME-OF-DAY IN TIMER UNITS
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16	2738	**	TCB	*****
	2740	**	*****	*****
	2741	**	*****	*****
17	2742	**	*****	*****
	2743	**	*****	*****
	2744	**	*****	*****
	2745	**	*****	*****
18	2746	**	*****	*****
	2747	**	*****	*****
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19	2749	**	*****	*****
	2750	**	*****	*****
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SPL/3	VERSION	08/28/80	PAGE	13	TIME	02:15	DATE	81/12/08
01	IF DO	LINE	SOURCE					
	0661	*	ARE EITHER INITIALIZED AT ASSEMBLY TIME OR ELSE FILLED IN AT	*				
02	0662	*	IPL TIME AND ARE NOT MODIFIED BY ANY OTHER FUNCTION.	*				
	0663	*	ITEMS. IDENTIFIED AS 'NON-CONSTANT' MAY BE MODIFIED BY CTRL	*				
	0664	*	STG NUCLEUS FUNCTIONS OR I/O FUNCTIONS.	*				
03	0665	*		*				
	0666	*	NOTE: THERE IS A 'TRADE-OFF' THAT CAN BE MADE AS TO WHERE TO PLACE	*				
	0667	*	A FULL WORD CONSTANT THAT IS REFERENCED ONLY ONCE:	*				
04	0668	*		*				
	0669	*	1 CONSTANT CAN BE PLACED IN DIRECT AREA AND REFERENCED	*				
	0670	*	WITH A 'L' INST - THUS REQUIRING 2 CTRL STG WORDS TOTAL	*				
05	0671	*		*				
	0672	*	2 CONSTANT CAN BE PLACED IN REG BY 2 IN-LINE 'LI' INSTS	*				
	0673	*	WHICH HAVE THE LEFT AND RIGHT BYTES OF THE CONSTANT	*				
06	0674	*	EMBEDDED IN THEM - THUS REQUIRING 2 CTRL STG WORDS TOTAL	*				
	0675	*		*				
	0676	*	THE STRATEGY FOLLOWED IS TO ALWAYS USE ALTERNATIVE 1 UNTIL	*				
07	0677	*	DIRECT AREA IS EXCEEDED) SINCE THIS CONSIDERABLY SIMPLIFIES	*				
	0678	*	THE PROCESS AND ERROR RISKS REQUIRED TO GET AN ADDR	*				
	0679	*	CONSTANT SPLIT INTO A LEFT BYTE AND RIGHT BYTE FOR THE LI	*				
08	0680	*	INSTS.	*				
	0681	*	*****	*				
	0682	*	SPACE	*				
09	0683	*	*****	*				
	0684	*	'NON-CONSTANT' NUCLEUS TRANSIENT AREA WORKSPACE.	*				
	0685	*	THESE EIGHT WORDS MUST START AT THE FIRST WORD IN THE DIRECT AREA	*				
10	0686	*	BECAUSE THEY ARE ALSO COMMON TO THE IPL WRAP ROUTINES	*				
	0687	*	*****	*				
	0688	D1INDNT0	EQU 0 XIENT WORK SPACE # 0					
11	0689	D1INDNT1	EQU D1INDNT0+1 XIENT WORK SPACE # 1					
	0690	D1INDNT2	EQU D1INDNT1+1 XIENT WORK SPACE # 2					
	0691	D1INDNT3	EQU D1INDNT2+1 XIENT WORK SPACE # 3					
12	0692	D1INDNT4	EQU D1INDNT3+1 XIENT WORK SPACE # 4					
	0693	D1INDNT5	EQU D1INDNT4+1 XIENT WORK SPACE # 5					
	0694	D1INDNT6	EQU D1INDNT5+1 XIENT WORK SPACE # 6					
13	0695	D1INDNT7	EQU D1INDNT6+1 XIENT WORK SPACE # 7					
	0696	*						
	0697	D1DSKTAB	EQU D1INDNT0 DISK EXTENT TABLE (USED BY IPL ONLY)					
14	0698	D1DSKTBL	EQU 4 LENGTH OF A DISK EXTENT TABLE ENTRY					
	0699	*						
	0700	*	*****	*				
15	0701	*	'UNUSED WORDS'	*				
	0702	*	*****	*				
	0703	D1UNUS08	EQU D1INDNT7+1 UNUSED					
16	0704	D1ASSN08	EQU D1UNUS08+1 BEST FIT ASSIGN SAVE AREA	8				
	0705	D1XNPSMT	EQU D1ASSN08+1 EXAM SWAP IN CANDIDATE 6					
	0706	D1CURK28	EQU D1XNPSMT+1 CURRENT (EXNMB - 28) 6					
17	0707	D1MSCAF	EQU D1CURK28+1 STORE FEATURE INFORMATION FOR ATOM	00255				
	0708	D1HOLDAR	EQU D1MSCAF+1 SAVED LOGICAL DISKETTE DATA ADDRESS	00184				
	0709	*						
18	0710	*	*****	*				
	0711	*	POINTER TO SIF SIO COUNTER AREA IN MAIN STORAGE	*				
	0712	*	*****	*				
19	0713	D1SMFA	EQU D1HOLDAR+1 ADDR OF SIF SIO COUNTER AREA IN MAIN STG.					
	0714	*						
	0715	*	*****	*				
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SPL/3	VERSION	08/28/80		
01	IF DO	LINE	SOURCE	
	0716	*	MAIN STORAGE SIZE A	
02	0717	*	*****	
	0718	*	THE FOLLOWING BIT I	
	0719	D1PGFULL	EQU X'80'	
03	0720	*		
	0721	D1MSIZE	EQU D1SMFA	
	0722	*		
04	0723	*	*****	
	0724	*	SYSTEM INDICATOR W	
	0725	*	*****	
05	0726	D1INDR1	EQU D1MSIZE	
	0727	D1CSIZE	EQU D1INDR1	
	0728	*		
06	0729	*	*****	
	0730	*	SYSTEM INDICATOR W	
	0731	*	*****	
07	0732	D1MPROCT	EQU X'80'	
	0733	*		
	0734	*		
08	0735	D1MPINPRG	EQU X'40'	
	0736	*		
	0737	*		
09	0738	D1MPSUSAC	EQU X'20'	
	0739	*		
	0740	*		
10	0741	*	EQU X'10'	
	0742	D1PIOBERR	EQU X'08'	
	0743	*		
	0744	*		
11	0745	D1SIFL1	EQU X'04'	
	0746	D1SIFL11	EQU X'02'	
	0747	D1LCA32K	EQU X'01'	
12	0748	*	*****	
	0749	*	CONTROL STORAGE SIZE	
	0750	*	*****	
13	0751	*		
	0752	*	*****	
14	0753	*	'CONSTANT' POINTERS	
	0754	*	*****	
15	0755	D1STGA	EQU D1INDR1	
	0756	D1SVCIMB	EQU D1STGA	
	0757	D1SMPIN	EQU D1SVCIMB	
	0758	D1LATRA	EQU D1SMPIN	
16	0759	D1REGPTR	EQU D1LATRA	
	0760	D1SECA	EQU D1REGPTR	
	0761	D1TANLA	EQU D1SECA	
17	0762	D1SWTCB0	EQU D1TANLA	
	0763	*		
	0764	*	*****	
18	0765	*	'NON-CONSTANT' CONTR	
	0766	*	*****	
	0767	D1ERRNIC	EQU D1SWTCB0	
	0768	D1ERRTCB	EQU D1ERRNIC	
19	0769	D1ERRACE	EQU D1ERRTCB	
	0770	D1STKPTR	EQU D1ERRACE	
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16	2738 *** END OF EXPANSION **	01070000
	2739 * TCB	
	2740 *****	
	2741 * T C B *	
	2742 *****	
17	2743 *00 * * * * * * * * * *	
	2744 * STAT1 * STAT2 * WMSK * WMSK2 * * STAT3 * PRIOR * TTIME * QCNT *	
	2745 *****	
18	2746 *08 * * * * * * * * *	
	2747 * CMLQ * PUSH * * CHAIN * RDYQ *	
	2748 *****	
19	2749 *10 * * * * * * * * *	
	2750 * XNTQ * RTUB * * JCBB * CRB *	
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16	2793 TCBSTAT1 EQU X
	2794 SPACE 1
	2795 TCBUNIT EQU X
	2796 TCBWMPD EQU X
17	2797 TCBFORCD EQU X
	2798 TCBLONGW EQU X
	2799 TCBSDP EQU X
18	2800 TCBJUSTIN EQU X
	2801 TCBFSWAP EQU X
	2802 TCBNDIO EQU X
19	2803 TCBWSWAP EQU X
	2804 SPACE 1
20	2805 TCBSTAT2 EQU TC

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01	IF DO LINE	SOURCE		
	0716 *	MAIN STORAGE SIZE AND BAD 2K PAGE COUNTER WORD *		
	0717 *****			
02	0718 *	THE FOLLOWING BIT IS SET IN THE HIGH BYTE IF NECESSARY		
	0719 D1P6FULL EQU X'80'	BAD 2K PAGE ELEMENT IN M.S. IS FULL		
	0720 *	NUMBER OF BAD 2K PAGES (HIGH BYTE)		
03	0721 D1M5IZE EQU D1SMF8+1	MAIN STORAGE SIZE IN 2K PAGES (LOW BYTE)		
	0722 *			
	0723 *****			
04	0724 *	SYSTEM INDICATOR WORD FOR SEGMENT ONE *		
	0725 *****			
	0726 D1INDR1 EQU D1M5IZE+1	SYSTEM INDICATOR WORD FOR SEG 1		
05	0727 D1CSIZE EQU D1INDR1	CONTROL STORAGE SIZE (LOW BYTE)		
	0728 *			
	0729 *****			
06	0730 *	SYSTEM INDICATOR WORD BIT EQUATES (HIGH BYTE) *		
	0731 *****			
	0732 DMPROTECT EQU X'80'	DUMP FILE PROTECTED INDICATOR		
07	0733 *	* 0 - THE DUMP FILE IS NOT PROTECTED		
	0734 *	* 1 - THE DUMP FILE IS PROTECTED		
	0735 DMPINPRG EQU X'40'	STORAGE DUMP CURRENTLY IN PROGRESS		
08	0736 *	* 0 - NO DUMP IN PROGRESS		
	0737 *	* 1 - STORAGE DUMP IN PROGRESS		
	0738 DMPUSAC EQU X'20'	SUSPEND TASK FOR ADDRESS COMPARE DUMP 3		
09	0739 *	* 0 - DONT SUSPEND TASK FOR DUMP 3		
	0740 *	* 1 - SUSPEND TASK AFTER DUMP 3		
	0741 * EQU X'10'	UNUSED		
10	0742 MPIOBERR EQU X'08'	MULTI-PURPOSE IOB ERROR INDICATOR		
	0743 *	* 0 - NO ERROR IN MULTI-PURPOSE IOB		
	0744 *	* 1 - PERM DISK ERROR IN M.P. IOB		
11	0745 PS1PLF1 EQU X'04'	IPL FROM DISK INDICATOR		
	0746 PS1PL11 EQU X'02'	IPL FROM DISKETTE INDICATOR		
	0747 MLC32K EQU X'01'	MLCA 32K CONTROLLER 8		
12	0748 *****			
	0749 *	CONTROL STORAGE SIZE IN SECTORS (LOW BYTE) *		
	0750 *****			
13	0751 *			
	0752 *****			
	0753 *	'CONSTANT' POINTERS TO CONTROL STORAGE ITEMS *		
14	0754 *****			
	0755 DISTK0 EQU D1INDR1+1	ADDR OF START OF REG STACK		
	0756 DISVCIM0 EQU DISTK0+1	ADDR OF IMMEDIATE SVC TABLE		
15	0757 DISAPMIN EQU DISVCIM0+1	MINIMUM NUMBER OF PAGES TO PARTIAL SWAP		
	0758 D1LATR0 EQU DISAPMIN+1	ADDR OF LOAD ATR ROUTINE IN SEGMENT 0		
	0759 D1REGPTR EQU D1LATR0+1	ADDR OF START OF MSP REGISTER SAVE AREA		
16	0760 D1SEC0 EQU D1REGPTR+1	SYSTEM COUNTER TABLE ADDRESS		
	0761 D1TWNLA EQU D1SEC0+1	ADDR OF HARDWARE TIMER VALUE		
17	0762 D1SWTCB0 EQU D1TWNLA+1	SWAPOUT TCB ADDRESS.		
	0763 *			
	0764 *****			
18	0765 *	'NON-CONSTANT' CONTROL STORAGE POINTERS AND WORDS *		
	0766 *****			
	0767 D1ERRNIC EQU D1SWTCB0+1	JOB TERMINATION ERROR MESSAGE NUMBER		
	0768 D1ERRTCB EQU D1ERRNIC+1	JOB TERMINATION ERROR TCB ADDRESS		
19	0769 D1ERRACE EQU D1ERRTCB+1	JOB TERMINATION ERROR ACE ADDRESS		
	0770 D1STRPTR EQU D1ERRACE+1	ADDR OF CURRENT REGISTER STACK ENTRY		
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01	0771 *	
	0772 * THE FOLLOWING	
02	0773 D1LDSS EQU D	
	0774 D1LDSN EQU D	
	0775 D1LDLKN EQU D	
03	0776 D1LDSTRT EQU D	
	0777 D1LDRTOT EQU D	
	0778 D1LDLOAD EQU D	
04	0779 *	
	0780 D1ACVER0 EQU D	
	0781 *	
05	0782 *****	
	0783 * TASK DISPATCHER	
	0784 *****	
06	0785 D1DSPFLG EQU D	
	0786 * HIGH BY	
	0787 * EQU X	
07	0788 DSPRGRST EQU X	
	0789 XAREAREF EQU X	
08	0790 DSPADACT EQU X	
	0791 DSPFCUR EQU X	
	0792 DSPERPD EQU X	
09	0793 DSPHOLD EQU X	
	0794 DSPEXAM EQU X	
	0795 * LOW BYT	
	0796 *	
10	0797 *****	
	0798 * ALTER/DISPLAY	
	0799 *****	
11	0800 D1ADCNL EQU D	
	0801 *	
	0802 * HIGH BY	
12	0803 *	
	0804 ADEXIT EQU X	
13	0805 ADSDYDNP EQU X	
	0806 ADINQRY EQU X	
	0807 ADTRACE EQU X	
	0808 *	
14	0809 ADMATTNG EQU X	
	0810 ADACTIVE EQU X	
15	0811 ADITRMD EQU X	
	0812 ADSTPMDD EQU X	
	0813 *	
16	0814 * LOW BYT	
	0815 *	
	0816 *	
17	0817 *	
	0818 ADSTOPN EQU X	
	0819 ADSC0960 EQU X	
18	0820 ADRSTOMP EQU X	
	0821 *	
	0822 *	
19	0823 ADSTPTSK EQU X	
	0824 *	
20	0825 * LOW ORDE	

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Line	Address	Label	Description
16	2793	TCBSTAT1 EQU	0
	2794	SPACE	1
	2795	TCBWAIT EQU	X'80' . TASK IS NOT ON READY QUEUE
	2796	TCBSWMPD EQU	X'40' . TASK IS SWAPPED TO DISK.
17	2797	TCBFORCD EQU	X'20' . TASK FORCED TO SWAP (* DISPATCHABLE)
	2798	TCBLONGW EQU	X'10' . TASK IS QUIESCED - TCBQNT = 0
	2799	TCBSOP EQU	X'08' . TASK HAS SWAP OUT I/O IN PROGRESS
18	2800	TCBJSTIN EQU	X'04' . SET ON WHEN TASK SWAPPED IN.
	2801	TCBSWMP EQU	X'04' . SET ON WHEN TASK FULLY SWAPPED OUT.
	2802	TCBNDIO EQU	X'02' . NO I/O REQ. FOR SWAP INDICATOR
	2803	TCBSWMP EQU	X'01' . TASK IS NEVER SWAPPABLE
19	2804	SPACE	1
	2805	TCBSTAT2 EQU	TCBSTAT1+1 TCB STATUS BYTE 2
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Line	Address	Label	Description
01	0771	*	
02	0772	*	THE FOLLOWING 6 WORDS ARE THE CURRENT LOADER PARM LIST VALUES
	0773	DILDSS EQU	DISTKPTR+1 HIGH AND MIDDLE BYTE OF SS FIELD
	0774	DILDSSN EQU	DILDSS+1 LOW SS BYTE AND NUMBER OF TEXT SECTORS
03	0775	DILDLINK EQU	DILDSSN+1 LINK-EDIT ADDRESS
	0776	DILDSTRT EQU	DILDLINK+1 START CONTROL ADDRESS
	0777	DILDRTOT EQU	DILDSTRT+1 RLD DISPLACEMENT AND NUMBER OF TOTAL SECS
	0778	DILDLOAD EQU	DILDRTOT+1 MODULE LOAD ADDRESS
04	0779	*	
	0780	DIACVERB EQU	DILDLOAD+1 A/D ADDRESS COMPARE VERIFY ADDRESS
05	0781	*	
	0782	*	TASK DISPATCHER CONTROL WORD
06	0784	*	
	0785	DIDSPFLG EQU	DIACVERB+1 TASK MANAGEMENT FLAGS.
	0786	*	HIGH BYTE
	0787	*	EQU X'80' UNUSED.
07	0788	DSPRGST EQU	X'40' TASK REGISTER RESTORE REQUIRED.
	0789	XAREAREF EQU	X'20' TRANSIENT AREA REFRESHABLE.
08	0790	DSPADACT EQU	X'10' DISABLE TASK DISP, ALTER/DISPLAY ACTIVE.
	0791	DSPFCUR EQU	X'08' FORCE SWAPOUT OF CURRENT TASK.
	0792	DSPERPND EQU	X'04' DISABLE TASK DISP, MSP ERR PENDING
	0793	DSPHOLD EQU	X'02' TEMPORARY REQUEST TO HOLD DISPATCHING
09	0794	DSPEXAM EQU	X'01' EXAM INDICATOR 6
	0795	*	LOW BYTE
10	0796	*	
	0797	*	
	0798	*	ALTER/DISPLAY CONTROL WORD
	0799	*	
11	0800	DIACNTL EQU	DIDSPFLG+1 ALTER/DISPLAY CONTROL WORD
	0801	*	
	0802	*	HIGH BYTE CONTROL BITS
12	0803	*	
	0804	ADEXIT EQU	X'80' EXIT ALTER/DISPLAY.
	0805	ADSYSDMP EQU	X'40' ALTER/DISPLAY SYSTEM DUMP REQUEST.
13	0806	ADINQRY EQU	X'20' DISPLAY A/D OPTION MENU.
	0807	ADTRACE EQU	X'10' INSTRUCTION TRACE, STEP, ADDRESS COMPARE
	0808	*	ENTRY INTO ALTER/DISPLAY.
14	0809	ADWAITG EQU	X'08' ALTER/DISPLAY WAITING.
	0810	ADACTIVE EQU	X'04' ALTER/DISPLAY ACTIVE.
	0811	ADITRMD EQU	X'02' A/D IN INSTRUCTION TRACE MODE.
15	0812	ADSTPMOD EQU	X'01' A/D IN INSTRUCTION STEP MODE.
	0813	*	
	0814	*	LOW BYTE CONTROL BITS AND OFFSET INTO SADIUNIT
16	0815	*	OKREF TABLE THAT HAS DISK ADDRESSES OF
	0816	*	A/D TRANSIENTS.
	0817	*	
17	0818	ADSTOPN EQU	X'80' LEAVE STOP LATCH ON WHEN EXITING A/D.
	0819	ADSC0960 EQU	X'40' 960 CHARACTER CRT SCREEN
	0820	ADRSTOMP EQU	X'20' ON - RESET START DUMP. 00224
18	0821	*	OFF - SYSTEM DUMP. 00224
	0822	*	USED IN CONJUNCTION WITH ADSYSDMP. 00224
	0823	ADSTPTSK EQU	X'10' INSTRUCTION STEP BY TASK IS ACTIVE. 00344
19	0824	*	
	0825	*	LOW ORDER 4 BITS IS OFFSET INTO SADIUNIT OKREF TABLE.
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16	2848 TCBRCALL EQU X'10'	. CLOSE HAS BEEN CALLED INDICATOR	2903 TCBRTUB EQU
	2849 TCBRCALL EQU X'08'	. KEYSORT HAS BEEN CALLED INDICATOR	2904 SPAC
	2850 TCBUSPND EQU X'04'	. SUSPEND FROM SYS OPERATOR PENDING	2905 *XXXXXXXXXX EQU
	2851 TCBDMPEQ EQU X'02'	. DATA MODE ESCAPE PENDING	2906 TCBJCB EQU
17	2852 TCBINQPD EQU X'01'	. INQUIRY PENDING	2907 TCBCRB EQU
	2853 SPACE 1		2908 TCBARSE EQU
	2854 TCBPRIOR EQU TCBSTAT3+1	QUEUEING PRIORITY	2909 TCBXR1 EQU
	2855 SPACE 1		2910 TCBXR2 EQU
18	2856 TCBPRINV EQU X'FF'	INVALID PRIORITY(CAN NOT BE USED)	2911 TCBARR EQU
	2857 TCBPRCP EQU X'FC'	COMMAND PROCESSOR PRIORITY	2912 TCBATAR EQU
	2858 TCBPRSP EQU X'F0'	SPOOL PRIORITY	2913 TCBAPSR EQU
19	2859 TCBPRMR EQU X'F0'	MRJE PRIORITY	2914 TCBARQ EQU
	2860 TCBPRBSC EQU X'F4'	BCS PRIORITY	2915 TCBINL1 EQU
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01		IF DO	LINE	SOURCE			01	IF DO
			0826 *					0881 D1MKIOB EQU
			0827 *****					0882 D1LDOBB EQU
02			0828 * SYSTEM FLAG WORD				02	0883 DISANCEB EQU
			0829 *****					0884 DIGPFLAG EQU
			0830 DISYSFLG EQU DIADCNTL+1	SYSTEM FLAGS.				0885 * HIGH
03			0831 * HIGH BYTE				03	0886 ASGNFAIL EQU
			0832 TRALOAD EQU X'80'	MS XIENT AREA LOAD IN PROGRESS.				0887 FDFAIL EQU
			0833 SWAPID EQU X'80'	SWAP I/O IN PROGRESS.				0888 TASFALL EQU
04			0834 TVALOAD EQU X'80'	TASK WORK AREA LOAD IN PROGRESS.			04	0889 WSQSFAIL EQU
			0835 LDINPROG EQU X'80'	M. S. LOADER ACE IN PROGRESS.				0890 * EQU
			0836 LDFCHREQ EQU X'40'	CURRENT M. S. LOADER REQ IS A FETCH				0891 * EQU
05			0837 GETPANYP EQU X'20'	MS GETP ANY PAGE			05	0892 * EQU
			0838 GETPHSIC EQU X'10'	MS GETP HAVE SWAP-IN-CANDIDATE				0893 * EQU
			0839 GETPNOTC EQU X'08'	MS GETP NOT COMPLETE				0894 *
06			0840 EXAM EQU X'04'	EXAM INDICATOR FOR MS GETP XIENT 6			06	0895 D1STKSAV EQU
			0841 * EQU X'02'	UNUSED.				0896 D1QHSAVE EQU
			0842 * EQU X'01'	UNUSED.				0897 D1TPTOBB EQU
07			0843 * LOW BYTE				07	0898 D1TRACEB EQU
			0844 * EQU X'80'	UNUSED.				0899 D1TRIOBB EQU
			0845 * EQU X'40'	UNUSED.				0900 D1TFACEB EQU
08			0846 * EQU X'20'	UNUSED.			08	0901 *
			0847 * EQU X'10'	UNUSED.				0902 *****
			0848 * EQU X'08'	UNUSED.				0903 * 'CONSTANT' /
09			0849 * EQU X'04'	UNUSED.			09	0904 *****
			0850 * EQU X'02'	UNUSED.				0905 D1FRCTCB EQU
			0851 * EQU X'01'	UNUSED.				0906 D1DSPTCB EQU
10			0852 *				10	0907 D1CURJCB EQU
			0853 DIASRFLG EQU DISYSFLG+1	ASSIGN RECOVERY FLAG				0908 D1QUEUEB EQU
			0854 ASGNERR EQU X'80'	PERMANENT ASSIGN FAILURE HAS OCCURRED.				0909 D1RTTABL EQU
11			0855 AFINPROG EQU X'40'	ASSIGN RECOVERY IN PROGRESS.			11	0910 *
			0856 ASGNSEQ EQU X'20'	ASSIGN RECOVERY SEQUENCE HAS BEEN STARTED				0911 *****
			0857 ASGNPAGE EQU X'10'	A PAGE HAS BEEN ASSIGNED.				0912 * 'NON-CONSTAN
12			0858 ASGNMTR EQU X'08'	ASR WAITER OUTSTANDING MUST RECOVER			12	0913 *****
			0859 ASGNRTRY EQU X'0F'	MAXIMUM NUMBER OF RELOOPS				0914 D1L1SHRK EQU
			0860 * LOW BYTE	USED FOR A COUNTER				0915 D1SAWEIN EQU
13			0861 *				13	0916 D1IARS EQU
			0862 D1TIMMB EQU DIASRFLG+1	TIMER MMB SAVE AREA.				0917 D1CURTCB EQU
			0863 D1TPTOHH EQU D1TIMMB+1	TOX OF FIRST TQE ON QUEUE (HIGH.)				0918 D1XTCB EQU
14			0864 D1TPTOXL EQU D1TPTOHH+1	TOX OF FIRST TQE ON QUEUE (LOW.)			14	0919 D1LDANCEB EQU
			0865 *					0920 D1SMTCB1 EQU
			0866 *****					0921 D1TMTCB EQU
15			0867 * 'CONSTANT' POINTERS TO MAIN STORAGE ITEMS				15	0922 D1LOTCB EQU
			0868 *****					0923 D1LOGPT EQU
			0869 D1TCBHR EQU D1TPTOXL+1	ADDR OF MAIN STORAGE TCB QUEUE				0924 LOGTFULL EQU
16			0870 D1MSATRS EQU D1TCBHR+1	ADDR OF MAIN STORAGE ATR MAP			16	0925 *
			0871 D1FREEPT EQU D1MSATRS+1	ADDR OF MAIN STORAGE FREE AREA				0926 D1LOGL1N EQU
			0872 D1FRONTPT EQU D1FREEPT+1	ADDR OF MAIN STORAGE TRANSIENT AREA				0927 D1CURAQE EQU
17			0873 D1DSTQE EQU D1FRONTPT+1	ADDR OF MAIN STORAGE DISPATCHER TQE			17	0928 D1ASRTQE EQU
			0874 D1TRSAME EQU D1DSTQE+1	SVC TRACE ADDRESS SAME AREA				0929 D1LAQENK EQU
			0875 D1FRNTE EQU D1TRSAME+1	ADDR OF MAIN STORAGE FRONTEND TQE				0930 D1QSAME EQU
18			0876 D1XNTBL EQU D1FRNTE+1	ADDR OF MAIN STORAGE XIENT TABLE-4			18	0931 *
			0877 D1FRANCEB EQU D1XNTBL+1	ADDR OF MAIN STORAGE XIENT ACE				0932 *****
			0878 D1MPIOBB EQU D1FRANCEB+1	ADDR OF MAIN STORAGE MULTI-PURPOSE IOB.				0933 * 'NON-CONSTAN
19			0879 D1SIOBB EQU D1MPIOBB	ADDR OF MAIN STORAGE SWAP IOB.			19	0934 *****
			0880 D1TIOBB EQU D1MPIOBB	ADDR OF MAIN STORAGE TASK WORK AREA IOB.				0935 D1LOGSSH EQU
20							20	

15	TCB@RQ EQU TCB@RQ+2	SYSTEM TRANSFER QUEUE CHAIRING FILE	2953	TCB@TUB EQU TCB@TUB+2	TUB ADDRESS OF REQUESTOR	2954	SPACE 1
16	2904	TCB@RQ EQU TCB@RQ+2	2905	TCB@TUB EQU TCB@TUB+2	ADDRESS OF TASK JOB CONTROL BLOCK	2906	TCB@RQ EQU TCB@RQ+2
17	2907	TCB@RQ EQU TCB@RQ+2	2908	TCB@RQ EQU TCB@RQ+2	CURRENT REQUEST BLOCK POINTER	2909	TCB@RQ EQU TCB@RQ+2
18	2910	TCB@RQ EQU TCB@RQ+2	2911	TCB@RQ EQU TCB@RQ+2	REGISTER SAVE ELEMENT (LEFT BYTE)	2912	TCB@RQ EQU TCB@RQ+2
19	2913	TCB@RQ EQU TCB@RQ+2	2914	TCB@RQ EQU TCB@RQ+2	. CURRENT XR1	2915	TCB@RQ EQU TCB@RQ+2
20	2916	TCB@RQ EQU TCB@RQ+2	2917	TCB@RQ EQU TCB@RQ+2	. CURRENT XR2		
	2918	TCB@RQ EQU TCB@RQ+2	2919	TCB@RQ EQU TCB@RQ+2	. CURRENT ARR		
	2920	TCB@RQ EQU TCB@RQ+2	2921	TCB@RQ EQU TCB@RQ+2	. CURRENT IAR		
	2922	TCB@RQ EQU TCB@RQ+2	2923	TCB@RQ EQU TCB@RQ+2	. CURRENT PMR/PSR		
	2924	TCB@RQ EQU TCB@RQ+2	2925	TCB@RQ EQU TCB@RQ+2	. CURRENT R AND Q BYTES		
	2926	TCB@RQ EQU TCB@RQ+2	2927	TCB@RQ EQU TCB@RQ+2	. IN LINE PARM 1		

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01	IF DO	0881	D1M1000 EQU D1M1000	SOURCE	0881	D1M1000 EQU D1M1000
02		0882	D1LDT000 EQU D1LDT000	ADDR OF MAIN STG XIENT SCHEDULER IOB.	0882	D1LDT000 EQU D1LDT000
03		0883	D1SPACE0 EQU D1SPACE0+1	ADDR OF MAIN STG RELOCATING LOADER IOB	0883	D1SPACE0 EQU D1SPACE0+1
04		0884	D1GPF000 EQU D1GPF000+1	ADDR OR MAIN STORAGE SWAP ACE.	0884	D1GPF000 EQU D1GPF000+1
05		0885	* HIGH BYTE	GENERAL POST FLAE WORD	0885	* HIGH BYTE
06		0886	ASGNFAIL EQU X'80'	SQS FAILURE INDICATOR	0886	ASGNFAIL EQU X'80'
07		0887	DFFAIL EQU X'40'	DISK ENQUEUE FAILURE INDICATOR	0887	DFFAIL EQU X'40'
08		0888	TASF000 EQU X'20'	TEST AND SET FAILURE INDICATOR	0888	TASF000 EQU X'20'
09		0889	WSQSFAIL EQU X'10'	WSQS FAILURE POST CODE.	0889	WSQSFAIL EQU X'10'
10		0890	* EQU X'08'	UNUSED.	0890	* EQU X'08'
11		0891	* EQU X'04'	UNUSED.	0891	* EQU X'04'
12		0892	* EQU X'02'	UNUSED.	0892	* EQU X'02'
13		0893	* EQU X'01'	UNUSED.	0893	* EQU X'01'
14		0894	*		0894	*
15		0895	D1STKSAV EQU D1GPF000+1	STACK POINTER SAVE AREA	0895	D1STKSAV EQU D1GPF000+1
16		0896	D1QHSAVE EQU D1STKSAV+1	SAVE AREA IN QUEUE ROUTINE FOR Q HEADER	0896	D1QHSAVE EQU D1STKSAV+1
17		0897	D1IPI000 EQU D1QHSAVE+1	ADDR OF IPL IOB (VALID DURING IPL)	0897	D1IPI000 EQU D1QHSAVE+1
18		0898	D1TRACE0 EQU D1IPI000	ADDR OF DISK TRACE ACE (VALID FOR TRACE)	0898	D1TRACE0 EQU D1IPI000
19		0899	D1TRIO00 EQU D1IPI000+1	ADDR OF TRACE IOB	0899	D1TRIO00 EQU D1IPI000+1
20		0900	D1TFACE0 EQU D1TRIO00+1	ADDR OF MS INTERVAL TIMER ACE	0900	D1TFACE0 EQU D1TRIO00+1
		0901	*		0901	*
		0902	*****		0902	*****
		0903	* 'CONSTANT' AND 'NON-CONSTANT' POINTERS TO MAIN STORAGE ITEMS		0903	* 'CONSTANT' AND 'NON-CONSTANT' POINTERS TO MAIN STORAGE ITEMS
		0904	*****		0904	*****
		0905	D1FRCTCB EQU D1TFACE0+1	FORCE OUT CURRENT TASK TCB ADDRESS	0905	D1FRCTCB EQU D1TFACE0+1
		0906	D1DSPTCB EQU D1FRCTCB+1	CURRENT MAIN STORAGE TCB ADDRESS	0906	D1DSPTCB EQU D1FRCTCB+1
		0907	D1CURJCB EQU D1DSPTCB+1	CURRENT JOB CONTROL BLOCK ADDRESS	0907	D1CURJCB EQU D1DSPTCB+1
		0908	D1QUEUE0 EQU D1CURJCB+1	QUEUE HEADER START ADDRESS	0908	D1QUEUE0 EQU D1CURJCB+1
		0909	D1RTTABL EQU D1QUEUE0+1	RESOURCE TABLE ADDRESS IN MAIN STORE	0909	D1RTTABL EQU D1QUEUE0+1
		0910	*		0910	*
		0911	*****		0911	*****
		0912	* 'NON-CONSTANT' POINTERS TO MAIN STORAGE ITEMS		0912	* 'NON-CONSTANT' POINTERS TO MAIN STORAGE ITEMS
		0913	*****		0913	*****
		0914	D1LSW000 EQU D1RTTABL+1	WORK AREA FOR USE ON IL5	0914	D1LSW000 EQU D1RTTABL+1
		0915	D1SAVEIN EQU D1LSW000+1	POST ROUTINE INPUT SAVE AREA	0915	D1SAVEIN EQU D1LSW000+1
		0916	D1IARS EQU D1SAVEIN+1	SAVE AREA FOR INPUT IAR VALUE	0916	D1IARS EQU D1SAVEIN+1
		0917	D1CURTCB EQU D1IARS+1	ADDR OF MAIN STORAGE WORKING TCB	0917	D1CURTCB EQU D1IARS+1
		0918	D1XTC00 EQU D1CURTCB+1	MS XIENT AREA OWNER.	0918	D1XTC00 EQU D1CURTCB+1
		0919	D1LDC00 EQU D1XTC00+1	ADDR OF ACTIVE P.L.S. LOADER ACE	0919	D1LDC00 EQU D1XTC00+1
		0920	D1SWTCBI EQU D1LDC00+1	SWAPIN TCB ADDRESS.	0920	D1SWTCBI EQU D1LDC00+1
		0921	D1TWTC00 EQU D1SWTCBI+1	TASK WORK AREA TCB ADDRESS (SHARED)	0921	D1TWTC00 EQU D1SWTCBI+1
		0922	D1LOT000 EQU D1TWTC00	RELOCATING LOADER TCB ADDRESS (SHARED)	0922	D1LOT000 EQU D1TWTC00
		0923	D1LOGPT EQU D1TWTC00+1	ADDR OF NEXT TRACE LOG OUT ENTRY	0923	D1LOGPT EQU D1TWTC00+1
		0924	LOGTFULL EQU X'FF'	STORAGE TRACE TABLE FULL	0924	LOGTFULL EQU X'FF'
		0925	*	CHD = X'FF' TRACE BUFFER IS FULL	0925	*
		0926	D1LOGLTH EQU D1LOGPT+1	END ADDRESS OF TRACE BUFFER	0926	D1LOGLTH EQU D1LOGPT+1
		0927	D1CURAQE EQU D1LOGLTH+1	CURRENT AQE	0927	D1CURAQE EQU D1LOGLTH+1
		0928	D1ASRTQE EQU D1CURAQE+1	ASSIGN RECOVERY TOE ADDRESS.	0928	D1ASRTQE EQU D1CURAQE+1
		0929	D1AQE000 EQU D1ASRTQE+1	RESOURCE ENQUEUE/DEQUEUE WORK AREA	0929	D1AQE000 EQU D1ASRTQE+1
		0930	D1QSAVE EQU D1AQE000+1	SAVE AREA FOR PWD IN QUEUE ROUTINE	0930	D1QSAVE EQU D1AQE000+1
		0931	*		0931	*
		0932	*****		0932	*****
		0933	* 'NON-CONSTANT' DISK ADDRESS POINTERS		0933	* 'NON-CONSTANT' DISK ADDRESS POINTERS
		0934	*****		0934	*****
		0935	D1LOGSSH EQU D1QSAVE+1	SECTOR ADDRESS OF TRACE FILE, BUFFER SIZE	0935	D1LOGSSH EQU D1QSAVE+1

15	2957	TCBSS3TD EQU	TCBSS3T+1	SHARED STORAGE TASK TASK BITS	3013	TCBSS
16	2958		SPACE 1		3014	
16	2959	TCBTSKTD EQU	TCBSS1D+1	TASK ID	3015	TCBSS
16	2960		SPACE 1		3016	TCBSS
17	2961	TCBIDACT EQU	X'E4'	AUTOCALL TASK ID 6	3017	TCBSS
17	2962	TCBIDITH EQU	X'E5'	BSC IH FOR 3270 EMULATION TASK ID	3018	TCBSS
17	2963	TCBIDBTS EQU	X'E6'	BSC 3270 SUBSYSTEM TASK ID	3019	TCBSS
17	2964	TCBIDONE EQU	X'E7'	SNA 3270 SUBSYSTEM TASK ID	3020	TCBSS
18	2965	TCBIDGCE EQU	X'E8'	PLCA CONTROLLER CHECK ERROR TASK ID	3021	TCBSS
18	2966	TCBIDSNF EQU	X'E9'	SNMF SUBSYSTEM TASK ID	3022	TCBSS
18	2967	TCBIDOPER EQU	X'EA'	SNA PEER SUBSYSTEM TASK ID	3023	TCBSS
19	2968	TCBIDCCP EQU	X'EB'	CCP SUBSYSTEM TASK ID	3024	TCBSS
19	2969	TCBIDCIC EQU	X'EC'	CICS SUBSYSTEM TASK ID	3025	TCBSS
19	2970	TCBIDIMS EQU	X'ED'	IMS SUBSYSTEM TASK ID		
20						

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01	IF DO	0936 *		(H) = SECTOR ADDRESS (L) OF TRACE FILE	01	IF DO
02		0937 *		(L) = SIZE OF TRACE BUFFER (N)	02	
02	0938	D1LOGSS EQU	D1LOGSS+1	SECTOR ADDRESS OF TRACE FILE (H,M)	02	0992 * E
02	0939	D1LOGS12 EQU	D1LOGS12+1	TRACE FILE SIZE	02	0993 * A
03	0940	D1LOGUSD EQU	D1LOGUSD+1	TRACE FILE CURRENT POINTER (OFFSET)	03	0994 DIS
03	0941	D1CURVNT EQU	D1CURVNT+1	DISK ADDR OF XIENT CURRENTLY IN MS AREA	03	0995 *
03	0942	D1CSDUMP EQU	D1CSDUMP+1	CONTROL STORAGE DUMP FILE SECTOR ADDRESS	03	0996 * A
04	0943	D1CURTRB EQU	D1CURTRB+1	CURRENT REQUEST BLOCK	04	0997 * M
04	0944	D1PREVRB EQU	D1CURTRB		04	0998 * A
04	0945 *				04	0999 *
05	0946	*****			05	1000 * Q
05	0947 *	MS. PROCESSOR REGISTER SAVE AREA *			05	1001 *
05	0948	*****			05	1002 DIR
06	0949	D1XR1 EQU	D1CURTRB+1	XR1	06	1003 DIR
06	0950	D1XR2 EQU	D1XR1+1	XR2	06	1004 *
06	0951	D1ARR EQU	D1XR2+1	ARR	06	1005 D1W
07	0952	D1IAR EQU	D1ARR+1	IAR	07	1006 D1W
07	0953	D1PMPR EQU	D1IAR+1	PMPR AND PSR	07	1007 *
07	0954	D1IR EQU	D1PMPR+1	R AND Q BYTES	07	1008 D1D
08	0955	D1I1L12 EQU	D1IR+1	INLINE PARAMETERS 1 2	08	1009 *
08	0956	D1I1L34 EQU	D1I1L12+1	INLINE PARAMETERS 3 4	08	1010 RCTP
08	0957 *				08	1011 *
09	0958	*****			09	1012 * A
09	0959 *	IL5 WORK AREAS FOR HP10CH *			09	1013 * NO
09	0960	*****			09	1014 * A
10	0961	D1IUNUSSE EQU	D1I1L34+1	>>>> UNUSED <<<<	10	1015 *
10	0962	D1I1L5PCR EQU	D1IUNUSSE+1	CHN/PCR SAVE AREA.	10	1016 D1H
10	0963	D1I1L5PCSA EQU	D1I1L5PCR+1	MSP CONTROL STATUS - CHNL DEVICE ADDR	10	1017 *
11	0964	HPASGENR EQU	X'80'	ASSIGN FAILURE HAS OCCURRED.	11	1018 D1H
11	0965	HPSTART EQU	X'40'	START THE MSP BEFORE EXIT	11	1019 *
11	0966	HP125VCA EQU	X'20'	POST SVC FROM IL2 IS IN PROCESS	11	1020 * A
12	0967	HPCSSVC EQU	X'1'	CS SVC REQUEST	12	1021 * AL
12	0968	HPNDTBSY EQU	X'08'	MSP NOT BUSY (NO TASK AVAILABLE)	12	1022 * A
12	0969	HPWAITNG EQU	X'04'	MSP WAITING FOR START KEY	12	1023 *
13	0970	HPNDSTRT EQU	X'02'	SUPPRESS START OF MSP	13	1024 DIAC
13	0971	HPERRPND EQU	X'01'	ERROR PENDING, RECOVERY IN PROCESS	13	1025 DIAC
13	0972	HPHALTED EQU	HPNDTBSY+HPWAITNG+HPERRPND	DO NOT START MSP	13	1026 DIAC
14	0973 *				14	1027 *
14	0974	D1IHPSTK EQU	D1IHPCSDA+1	CURRENT STACK POINTER FOR CS SVCS FROM IL2	14	1028 ADCT
14	0975	D1IHPSTK EQU	D1IHPSTK+1	STACK POINTER FOR CS SVC REQUESTS FROM IL2	14	1029 ADCC
15	0976 *				15	1030 ADCC
15	0977	D1IHPQSAW EQU	D1IHPSTK+1	RESOURCE ENQUEUE/DEQUEUE SAVE AREA	15	1031 ADCC
15	0978	*****			15	1032 ADCT
16	0979 *	"ACE" BUILD AREA *			16	1033 ADCT
16	0980	*****			16	1034 ADCC
17	0981	D1IACEIAR EQU	D1IHPQSAW+1	ACE IAR VALUE	17	1035 ADCC
17	0982	D1IACEIAR EQU	D1IACEIAR+1	ACE IAR VALUE	17	1036 *
17	0983	D1IACEI12 EQU	D1IACEIAR+1	IN-LINE PARTS 1 AND 2	17	1037 * EQ
17	0984	D1IACEI34 EQU	D1IACEI12+1	IN-LINE PARTS 3 AND 4	17	1038 ADCC
18	0985	D1IACEXR1 EQU	D1IACEI34+1	ACE XR1 VALUE	18	1039 *
18	0986	D1IACEI08 EQU	D1IACEXR1	ACE I08 a VALUE	18	1040 *
18	0987	D1IACEXR2 EQU	D1IACEI08+1	ACE XR2 VALUE	18	1041 *
19	0988	D1IACEPLa EQU	D1IACEXR2	ACE PARAMETER LIST a VALUE	19	1042 * A
19	0989	D1IACEI08 EQU	D1IACEXR2+1	TCB ADDRESS	19	1043 * EN
19	0990 *				19	1044 * A
20					20	1045 D1EM

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15	3012	TCBACD0 EQU	X'02'	TIME NOTING ENTRY ON ERROR ONLY
16	3013	TCBORD EQU	X'01'	DISKETTE ORIENT HAS BEEN PROCESSED
16	3014	SPACE 1		
16	3015	TCBMASCT EQU	TCBSTATS+1	ALLOCATED WORK STATION COUNT
16	3016	TCBCATM EQU	TCBMASCT	CURRENT ACTIVE TERMINAL COUNT
17	3017	TCBCAT EQU	TCBMASCT+1	CURRENT ACTIVE TERMINAL VARIABLE
17	3018	TCBWRTHK EQU	TCBCAT+1	NOT MAXIMUM REQUESTORS ALLOWED
17	3019	TCBNSCHT EQU	TCBWRTHK+1	NOT SWAPPABLE COUNTER
18	3020	TCBCNCHT EQU	TCBNSCHT+1	NOT CANCELABLE COUNT
18	3021	SPACE 1		
18	3022	TCBIQCHT EQU	TCBCNCHT+1	NOT INQUIRABLE COUNT
19	3023	SPACE 1		
19	3024	TCBARQCT EQU	TCBIQCHT+1	ACTIVE REQUESTOR COUNT
19	3025	TCBSTAT6 EQU	TCBARQCT+1	STATUS BYTE 6
20				

15	3067	TCBLEN		
16	3069	*** END		
16	3070	*		
16	3071	*****		
17	3072	*		
17	3073	*		
17	3074	*		
18	3075	*****		
18	3076	* 00		
18	3077	* ECM		
19	3078	*****		
19	3079	* 08		
19	3080	* C		
20				

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IF DO	LINE	SOURCE		
0991	*****			
0992	*	ENTRY POINTS FOR ROUTINES IN THE FIRST SEGMENT OF CONTROL STORAGE	*	
0993	*****			
0994	DISETSHD EQU	DIACETCB+1	SET ACTION CONTROL WORD ENTRY POINT	
0995	*			
0996	*****			
0997	*	MISCELLANEOUS CONSTANTS	*	
0998	*****			
0999	*			
1000	*	Q AND R BYTE PARS FOR DISK READ/WRITE FUNCTIONS (USED BY NUDIO)		
1001	*			
1002	D1RDMS EQU	DISETSHD+1	Q/R BYTES TO READ INTO MAIN STG	
1003	D1RDCS EQU	D1RDMS+1	Q/R BYTES TO READ INTO CTRL STG	
1004	*			
1005	D1WRMS EQU	D1RDMS+1	Q/R BYTES TO WRITE FROM MAIN STG	
1006	D1WRCS EQU	D1WRMS+1	Q/R BYTES TO WRITE FROM CTRL STG	
1007	*			
1008	D1DSTIME EQU	D1WRCS+1	DISPATCHER/ SWAP TIME INTERVALS	
1009	*	>> TASK TIMER INTERVAL:	<<	
1010	ACTMINT EQU	61	>> 61 TIMER UNITS = 499.712 MSEC.	<del>000000</del>
1011	*			
1012	*****			
1013	*	NON CONSTANTS FOR MSP ERROR RETRY STORAGE CORRECTION	*	
1014	*****			
1015	*			
1016	D1HCSTGD EQU	D1DSTIME+1	FAILING MS ADDRESS	
1017	*			
1018	D1HCSTGD EQU	D1HCSTGD+1	CORRECTION FLAG / CORRECTED DATA	
1019	*			
1020	*****			
1021	*	ALTER/DISPLAY WORDS FOR ADDRESS COMPARE/VERIFY FUNCTION	*	
1022	*****			
1023	*			
1024	DIACVERD EQU	D1HCSTGD+1	A/D ADDRESS COMPARE VERIFY DATA	
1025	DIACTSKA EQU	DIACVERD+1	A/D ADDRESS COMPARE TASK ADDRESS	
1026	DIACNTL EQU	DIACTSKA+1	A/D ADDRESS COMPARE CONTROL WORD	
1027	*	HIGH BYTE		
1028	ADCTASK EQU	X'80'	STOP IF TASK ACTIVE	
1029	ADCREAL EQU	X'40'	REAL VERIFY ADDRESS	
1030	ADCVRFY EQU	X'20'	VERIFY STOP	
1031	ADCMATCH EQU	X'10'	STOP IF DATA MATCHES	
1032	ADCTBN EQU	X'08'	STOP IF BITS ARE ON	
1033	ADCTBF EQU	X'04'	STOP IF BITS ARE OFF	
1034	ADCFND EQU	X'02'	ADDRESS COMPARE FOUND ON ILS	
1035	ADCDMPQ EQU	X'01'	ADDRESS COMPARE DUMP REQUEST	3
1036	*			
1037	*	EQUATE FOR SETTING OFF THE SOFTWARE ADDRESS COMPARE CONTROL BITS	3	
1038	ADCRSET EQU	ADCTASK+ADCREAL+ADCVRFY+ADCMATCH+ADCTBN+ADCTBF	3	
1039	*			
1040	*	LOW BYTE	TASK ATR ADDRESS OF VERIFY DATA	
1041	*			
1042	*****			
1043	*	END OF DIRECT AREA	*	
1044	*****			
1045	DIENDQ EQU	DIACNTL+1	LABEL FOR NEXT AVAILABLE WORD IN DRECT1	

01	1046	*** EN		
02	1047	*	ECMPAR	
02	1048	*	ECMPSK	
02	1049	*	ECMPRE	
03	1050	*	ECMTRC	
03	1051	*	ECMTRC	
03	1052	*	ECMTRC	
04	1053	*	ECMTRC	
04	1054	*	ECMTRC	
04	1055	*	ECMTRC	
05	1056	*	ECMTRC	
05	1057	*	ECMTRC	
05	1058	*	ECMTRC	
06	1059	*	ECMTRC	
06	1060	*	ECMTRC	
06	1061	*	ECMTRC	
07	1062	*	ECMTRC	
07	1063	*		
07	1064	*	ECMTRC	
08	1065	*		
08	1066	*		
08	1067	*		
09	1068	*		
09	1069	*	ECMTRC	
09	1070	*	PREEMPT	
10	1071	*	PLIFO	
10	1072	*	*** END	
10	1073	*		
11	1074	*	ERBDCHN	
11	1075	*		
11	1076	*	ERBDVFI	
12	1077	*	ERBDISK	
12	1078	*	ERBGAIJ	
12	1079	*	ERBDISK	
13	1080	*	ERBDLCA	
13	1081	*		
13	1082	*	ERBDQHD	
14	1083	*		
14	1084	*	ERBDCTL	
14	1085	*	ERBDUSY	
15	1086	*	ERBDON	
15	1087	*	ERBDONE	
15	1088	*	ERBERRZ	
16	1089	*	ERBICTL	
16	1090	*	THE L	
16	1091	*	PERFO	
17	1092	*	IS RE	
17	1093	*	NEED	
17	1094	*	ERBPLIC	
18	1095	*	ERBMEAC	
18	1096	*	ERBMSG	
18	1097	*	ERBMPUR	
19	1098	*	ERBMPUR	
19	1099	*		
19	1100	*		
20				

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15	3067	TCPLEN	EQU	TCBSTAT7*2	LENGTH OF TCB + EXPANSION.					15	3122	COUNT	*****
16	3069	*** END OF EXPANSION **								16	3124	* 10	
	3070	* TUB				01080000				16	3125	* TCDB	*****
	3071	*****								16	3126	*****	
17	3072	* *								17	3127	* 18	* 19
	3073	* TERMINAL UNIT BLOCK FOR TERMINALS								17	3128	* ERMTD	*
	3074	* *								17	3129	*****	
18	3075	*****								18	3130	* 20	* 21
	3076	* 00 * 01 * 02 * 03 * 04 * 05 * 06 * 07 *								18	3131	* ID	*
	3077	* ECM * COMPL * FLAG * CMD * CMD * UNITB * DATAR *								18	3132	*****	
	3078	*****								18	3133	* 28	
19	3079	* 08 * 09 * 0A								19	3134	** FOR	
	3080	* COUNT * SENSE BYTES								19	3135	***OPTIONAL	
20										20			

02:15	DATE 81/12/08
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SPL/3	VERSION	08/28/80	PAGE	20	TIME	02:15	DATE	81/12/08
IF DO	LINE	SOURCE						
01	1046	*** END OF EXPANSION **						
	1047	* ECM			00960000			
02	1048	ECMPARM EQU 0	PARM BYTE OFFSET					
	1049	ECMNSKIP EQU X'80'	DO NOT SKIP ON MULT. WAIT INDICATOR					
	1050	ECMREAL EQU X'40'	DATA ADDRESS IN JOB IS REAL INDICATOR					
03	1051	ECMTTC EQU X'20'	TASK-TASK COMMUNICATIONS INDICATOR					
	1052	ECMIGERR EQU X'21'	I/O ERROR INDICATOR					
	1053	ECMREQ EQU X'22'	INQUIRY INDICATOR					
04	1054	ECMTRM EQU X'23'	JOB DETACH INDICATOR					
	1055	ECMTIMER EQU X'24'	TIMER ECM INDICATOR					
	1056	ECMPCDL EQU X'25'	OCL COMMAND INDICATOR					
05	1057	ECMTAS EQU X'26'	TEST AND SET INDICATOR					
	1058	ECMCSB EQU X'27'	CSB TRANSFER INDICATOR					
	1059	ECMSYSLG EQU X'28'	SYSLOG INDICATOR					
06	1060	ECMWSK EQU 1	ECM - EVENT CONTROL MASK OFFSET					
	1061	ECMPCV EQU X'80'	. EVENT ACTIVE					
	1062	ECMCPLE EQU X'40'	. ECB COMPLETE					
07	1063	* EQU X'20'	. RESERVED					
	1064	ECMLOCK EQU X'10'	. LOCK BIT					
	1065	* EQU X'08'	*					
08	1066	* EQU X'04'	* COMPLETION CODE					
	1067	* EQU X'02'	*					
	1068	* EQU X'01'	*					
09	1069	ECMGW EQU 3	ECM - GENERAL WAIT MASK FIELD					
	1070	PREEMPT EQU X'80'	. DO NOT PREEMPT BIT					
	1071	PLIFO EQU X'40'	. LIFO QUEUE REQUEST					
10	1072	*** END OF EXPANSION **						
	1073	* ERB			00970000			
	1074	ERBDCW EQU 1	CHAIN FIELD					
11	1075	*						
	1076	ERBDDVI EQU ERBDCW+1	DEVICE ID					
	1077	ERBDISK EQU X'D0'	DISKETTE; DEVICE ID 12/6/79 RJB					
12	1078	ERBGAIJ EQU X'C3'	GAIJ TASK ID					
	1079	ERBDISK EQU X'A0'	DISK; DEVICE ID 12/6/79 RJB					
	1080	ERBMLCA EQU X'80'	DEVICE ID ADDED FOR MLCA					
13	1081	*						
	1082	ERBQHD EQU ERBDDVI+1	Q HEADER DISPLACEMENT					
	1083	*						
14	1084	ERBCTL EQU ERBQHD+1	ERP CONTROL					
	1085	ERBBUSY EQU X'80'	THE ERB IS IN USE, AWAITING PS ACTION					
	1086	ERBCDNE EQU X'40'	C.S. ROUTER OPERATION COMPLETED					
15	1087	ERBDONE EQU X'20'	M.S. ERB OPERATION HAS BEEN COMPLETED					
	1088	ERBERR2 EQU X'10'	READY RESPONSE WAS A 2ND ERROR					
	1089	ERBCTLM EQU X'F0'	MASK TO SET OFF ZONE BITS TO CHECK FUNC.					
16	1090	* THE LOWER 4 BITS OF THIS BYTE ARE ENCODED WITH THE FUNCTION TO BE						
	1091	* PERFORMED. CURRENTLY THE X'08' BIT IS NOT BEING USED. HOWEVER IT						
	1092	* IS RESERVED FOR USE AS PART OF THE FUNCTION ENCODING SCHEME IF WE						
17	1093	* NEED TO ADD MORE THAN 2 FUNCTIONS TO THE EXISTING SET.						
	1094	ERBPMIC EQU 7	GET ERROR MIC #					
	1095	ERBERREC EQU 6	PERFORM ERROR RECOVERY					
18	1096	ERBMSG EQU 5	ISSUE MESSAGE					
	1097	ERBPRR EQU 4	WAIT FOR NOT-READY TO READY OR MSG RESPONSE					
	1098	ERBPUR EQU 3	PURGE MESSAGE					
19	1099	* EQU 2	UNUSED					
	1100	* EQU 1	UNUSED					

SPL/3	VERSION	08/28/80
IF DO	LINE	SOURCE
01	1101	* EQU
	1102	ERBMERR EQU
02	1103	*
	1104	ERBDFLG EQU
	1105	ERBTRMID EQU
03	1106	ERBMERR EQU
	1107	*
	1108	ERBWRSP EQU
04	1109	ERBPNLOG EQU
	1110	* NOTE: IF /
	1111	* BYT
05	1112	* UP
	1113	* WORKSTATION
	1114	ERBPMPOST EQU
06	1115	ERBTRCY EQU
	1116	* THE FOLLOW
	1117	* CONDITIONS
07	1118	ERBMERR EQU
	1119	ERBMERR EQU
08	1120	ERBMERR EQU
	1121	* EQU
	1122	*
	1123	* DISK, DIS
09	1124	ERBPTASK EQU
	1125	*
	1126	*
10	1127	* MLCA ERROR
	1128	ERBCELOG EQU
	1129	*
11	1130	*
	1131	ERBDCPA EQU
	1132	ERBDERA EQU
12	1133	ERBIOER EQU
	1134	ERBNORM EQU
	1135	*
13	1136	ERBMIC EQU
	1137	*
	1138	ERBDOPT EQU
14	1139	ERBSOPD EQU
	1140	ERBSOPE EQU
	1141	ERBSOP1 EQU
15	1142	ERBSOP2 EQU
	1143	ERBSOP3 EQU
	1144	ERBAPO EQU
16	1145	ERBAOP1 EQU
	1146	ERBAOP2 EQU
	1147	ERBAOP3 EQU
17	1148	*
	1149	ERBDLN1 EQU
	1150	*
18	1151	ERBDACE EQU
	1152	ERBDLEN EQU
	1153	*** END OF E
19	1154	* FILE
	1155	SPA

13	3122	COUNT	3000	BYTES	
14	3123	*****			
15	3124	* 10	11 * 12	13 * 14	* 15 * 16 * 17 *
16	3125	* TCB0	* CHAIN	* DEVID	* QDR * ENPCT * ERDFG *
17	3126	*****			
18	3127	* 18	* 19	1A * 1B	* 1C 1D * 1E * 1F *
19	3128	* ERNID	* MIC	* OPTS	* SIOCT * ERNCT * US- *
20	3129	*****			
21	3130	* 20	* 21	22 * 23	24 * 26 * 27 *
22	3131	* 10	* CFG0	* TCB	* PEXT0 * RESVD *
23	3132	*****			
24	3133	* 28	28 * 2C	* 2D * 2E	* 2F *
25	3134	* FORMS NUMBER	* FFLN	* CRLN	* PRPP * DPRST *
26	3135	***OPTIONAL ADDITION BELOW*****	OPTIONAL ADDITION BELOW*****		

13	3177	TUBFLAG	EQU	T	SPACE
14	3178	TUBFLAG	EQU	T	SPACE
15	3180	TUBQUER	EQU	X	
16	3181	TUBSD2	EQU	X	
17	3182	TUBAUT0	EQU	X	
18	3183	TUBSWH	EQU	X	
19	3184	TUB0NL	EQU	X	
20	3185	TUBRTSU	EQU	X	
21	3186	TUBRINCM	EQU	X	
22	3187	TUBDCTS	EQU	X	
23	3188	TUBCHND	EQU	T	
24	3190				SPACE

15	DATE	81/12/08
01	SPL/3	VERSION 08/28/80
02	IF DO	LINE
03		SOURCE
04		ERR IN PROCESS IF ANY BIT ON
05		ERR IN PROCESS IF ANY BIT ON
06		ERR IN PROCESS IF ANY BIT ON
07		ERR IN PROCESS IF ANY BIT ON
08		ERR IN PROCESS IF ANY BIT ON
09		ERR IN PROCESS IF ANY BIT ON
10		ERR IN PROCESS IF ANY BIT ON
11		ERR IN PROCESS IF ANY BIT ON
12		ERR IN PROCESS IF ANY BIT ON
13		ERR IN PROCESS IF ANY BIT ON
14		ERR IN PROCESS IF ANY BIT ON
15		ERR IN PROCESS IF ANY BIT ON
16		ERR IN PROCESS IF ANY BIT ON
17		ERR IN PROCESS IF ANY BIT ON
18		ERR IN PROCESS IF ANY BIT ON
19		ERR IN PROCESS IF ANY BIT ON
20		ERR IN PROCESS IF ANY BIT ON

01	1101	* EQU 0	INVALID FUNCTION (DO NOT USE)
02	1102	ERBPERR EQU X'0F'	ERR IN PROCESS IF ANY BIT ON
03	1103	* ERBDFLG EQU ERBDOCTL+1	FLAG
04	1105	ERBTMID EQU X'80'	PLACE TERMINAL ID IN THE MESSAGE
05	1106	ERBPERR EQU X'40'	PLACE 4 BYTE ERROR CODE IN THE LAST FOUR POSITIONS OF THE TEXT MESSAGE
06	1108	ERBWRSP EQU X'20'	NO RESPONSE REQUIRED FOR INFO MESSAGE
07	1109	ERBMNLOG EQU X'10'	DO NOT ATTEMPT TO LOG THIS ERROR
08	1110	* NOTE: IF ANY DEVICE REQUIRES A DEVICE DEPENDENT BIT IN THIS FLAG	
09	1111	* BYTE, PLEASE ASSIGN YOUR BITS STARTING WITH X'01' AND WORK UP FROM THAT END.	
10	1112	* WORKSTATION ERROR RECOVERY	
11	1114	ERBPOST EQU X'08'	TUB POSTED COMPLETE WITH ERROR (CP ONLY)
12	1115	ERBMIRCY EQU X'04'	THIS ERB IS IN RETRY MODE
13	1116	* THE FOLLOWING TWO BITS (X'02' AND X'01' ARE ENCODED TO DEFINE 3 ERROR CONDITIONS. THE 4TH CONDITION IS UNUSED.	
14	1118	ERBPERR EQU 3	RESOURCES UNAVAILABLE
15	1119	ERBPERR EQU 2	HARDWARE ERROR
16	1120	ERBPERR EQU 1	PROGRAMMING ERROR
17	1121	* EQU 0	UNUSED
18	1122	* DISK, DISKETTE, AND 1255 ERROR RECOVERY	
19	1124	ERBPTASK EQU X'01'	POST TASK HAVING I/O ERROR TO CALL THE I/O ERROR TRANSIENT BACK INTO STORAGE.
20	1125	* MILCA ERROR RECOVERY	
21	1128	ERBCELOG EQU X'01'	IF ON LOG TO CE TRACE AREA
22	1129	* IF OFF LOG TO USER TRACE AREA	
23	1130	* C P AID (OLD EQUATE VALUE)	
24	1131	ERBDCPA EQU ERBDFLG+1	C P AID (NEW EQUATE VALUE)
25	1132	ERBDCPA EQU ERBDCPA	ERROR AID BYTE (NEW EQUATE VALUE)
26	1133	ERBIOER EQU X'01'	I/O ERROR HAS OCCURED
27	1134	ERBNORM EQU X'00'	NORMAL ER AID BYTE VALUE
28	1135	* ERBDMIC EQU ERBDCPA+2	MIC NUMBER
29	1137	* ERBDOPT EQU ERBDMIC+1	MIC OPTIONS
30	1139	ERBSOPD EQU X'F0'	'D' OPTION WAS TAKEN TO MESSAGE
31	1140	ERBSOP0 EQU X'80'	OPTION 0 WAS SELECTED
32	1141	ERBSOP1 EQU X'40'	OPTION 1 WAS SELECTED
33	1142	ERBSOP2 EQU X'20'	OPTION 2 WAS SELECTED
34	1143	ERBSOP3 EQU X'10'	OPTION 3 WAS SELECTED
35	1144	ERBADP0 EQU X'08'	OPTION 0 IS ALLOWED
36	1145	ERBADP1 EQU X'04'	OPTION 1 IS ALLOWED
37	1146	ERBADP2 EQU X'02'	OPTION 2 IS ALLOWED
38	1147	ERBADP3 EQU X'01'	OPTION 3 IS ALLOWED
39	1148	* ERBOLNL EQU ERBDOPT+1	LENGTH OF US TUB ERB
40	1150	* ERBDACE EQU ERBDOPT+2	ACE ADDRESS
41	1152	ERBDLEN EQU ERBDACE+1	LENGTH OF ERB
42	1153	*** END OF EXPANSION ***	
43	1154	* FIEQU	00980000
44	1155	SPACE	

01	SPL/3	VERSION 08/28/80
02	IF DO	LINE
03		ERR IN PROCESS IF ANY BIT ON
04		ERR IN PROCESS IF ANY BIT ON
05		ERR IN PROCESS IF ANY BIT ON
06		ERR IN PROCESS IF ANY BIT ON
07		ERR IN PROCESS IF ANY BIT ON
08		ERR IN PROCESS IF ANY BIT ON
09		ERR IN PROCESS IF ANY BIT ON
10		ERR IN PROCESS IF ANY BIT ON
11		ERR IN PROCESS IF ANY BIT ON
12		ERR IN PROCESS IF ANY BIT ON
13		ERR IN PROCESS IF ANY BIT ON
14		ERR IN PROCESS IF ANY BIT ON
15		ERR IN PROCESS IF ANY BIT ON
16		ERR IN PROCESS IF ANY BIT ON
17		ERR IN PROCESS IF ANY BIT ON
18		ERR IN PROCESS IF ANY BIT ON
19		ERR IN PROCESS IF ANY BIT ON
20		ERR IN PROCESS IF ANY BIT ON

15	3177	TUBFLAG	EQU	TUBCOMPL+1	FLAG BYTE	3232	EQU	X'0'	SPACE
	3178	SPACE				3233	SPACE		
	3179	SPACE				3234	TUBSENS1	EQU	TUB
16	3180	TUBUERP	EQU	X'80'	. INDICATES USER DEFINED ERP	3235	SPACE		
	3181	TUBIND2	EQU	X'40'	. NO RETURN ON PERMANENT ERROR	3236	* SCREEN	FORMAT	ER
	3182	TUBAUT0B	EQU	X'20'	. AUTO INPUT BUFFER ASSIGNMENT	3237	* EQU	X'8'	
17	3183	TUBSNH	EQU	X'10'	. TUB NOT ALLOWED OFF VERTICAL TUBCHAIN	3238	* EQU	X'4'	
	3184	TUBONL	EQU	X'08'	. DEVICE ONLINE	3239	* EQU	X'2'	
	3185	TUBRTTSU	EQU	X'04'	. READ INPUT ISSUED TO TUB	3240	* EQU	X'1'	
18	3186	TUBRTNOM	EQU	X'02'	. READ INPUT NOT COMPLETE	3241	* EQU	X'0'	
	3187	TUBBOTCS	EQU	X'01'	. DATA IN CONTROL STORE	3242	* EQU	X'0'	
	3188	SPACE				3243	* EQU	X'0'	
19	3189	TUBCYND	EQU	TUBFLAG+1	IOB COMMAND BYTE	3244	* EQU	X'0'	
	3190	SPACE				3245	SPACE		

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DATE	SPL/3	VERSION	PAGE	TIME	DATE
81/12/08	01	08/28/80	22	02:15	81/12/08
	IF DO	LINE	SOURCE		IF DO
		1196	*****		1211
		1197	* *		1212
02		1198	DISK FORMAT-1		1213
		1199	* *		1214
		1200	*****		1215
03		1201	SPACE		1216
		1202	FIADDFLG EQU 0 LATEST DATE INDICATOR		1217
04		1203	FIAMLTST EQU C*' FILE HAS LATEST DATE FOR THIS LABEL		1218
		1204	SPACE		1219
		1205	FIADLABL EQU FIADDFLG+8 FILE LABEL		1220
05		1206	FIAMSYSF EQU X'01' 'SYSTEM FILES' MUST HAVE A LABEL WHICH		1221
		1207	BEGINS WITH X'01'		1222
		1208	SPACE		1223
06		1209	FIADDATE EQU FIADLABL+3 CREATION DATE		1224
		1210	SPACE		1225
		1211	FIADSDIR EQU FIADDATE LIBRARY - START OF DIRECTORY		1226
07		1212	SPACE		1227
		1213	FIADTYPE EQU FIADDATE+1 FILE TYPE		1228
		1214	FIAMINDX EQU X'80' BIT ON = INDEXED FILE		1229
08		1215	FIAMCONS EQU X'40' BIT ON = CONSECUTIVE FILE		1230
		1216	FIAMDIRC EQU X'20' BIT ON = DIRECT FILE		1231
		1217	FIAMDFL EQU X'10' BIT ON = I1 UNIT, BIT OFF = F1 UNIT		1232
09		1218	FIAMPERM EQU X'08' BIT ON = PERMANENT FILE ('P')		1233
		1219	FIAMTEMP EQU X'04' BIT ON = TEMPORARY FILE ('T')		1234
		1220	FIAMJOB EQU X'02' BIT ON = JOB FILE ('J')		1235
10		1221	FIAMSCR EQU X'01' BIT ON = SCRATCH FILE ('S')		1236
		1222	SPACE		1237
		1223	FIADSFGL EQU FIADTYPE+1 FLAG BYTE		1238
11		1224	SPACE		1239
		1225	*****		1240
		1226	* THE FOLLOWING FOUR BIT MASKS ARE VALID ONLY IF 'FIAMINDX' IS ON *		1241
		1227	*****		1242
12		1228	SPACE		1243
		1229	FIAMSORT EQU X'80' BIT ON = SORT KEYS		1244
13		1230	FIAMPRGE EQU X'40' BIT ON = MERGE KEYS		1245
		1231	FIAMDPCK EQU X'10' BIT ON = UNORDERED LOAD		1246
		1232	(CHECK DUPLICATE KEYS)		1247
14		1233	FIAMINFG EQU X'08' BIT ON = INVALID INDEX		1248
		1234	(KEYSORT MAYBE IN PROCESS)		1249
		1235	SPACE		1250
15		1236	*****		1251
		1237	* THE FOLLOWING BIT MASKS FOR X'80' ARE VALID ONLY IF 'FIAMINDX' IS *		1252
		1238	* OFF *		1253
		1239	*****		1254
16		1240	SPACE		1255
		1241	FIAMSCND EQU X'80' SECTOR MODE LIBRARIAN FILE		1256
		1242	(IF 'FIAMLBFL' IS ON)		1257
17		1243	FIAMISCLB EQU X'80' SECURE LIBRARY		1258
		1244	(IF FIADRECL = X'0000')		1259
		1245	SPACE		1260
18		1246	FIAMNEW EQU X'20' BIT ON = NEW FILE		1261
		1247	FIAMSPAL EQU X'04' SPINDLE A1 REQUESTED ORIGINALLY		1262
		1248	FIAMSPAZ EQU X'02' SPINDLE A2 REQUESTED ORIGINALLY		1263
19		1249	SPACE		1264
		1250	* IF BOTH OF THE PREVIOUS TUB BITS ARE OFF, THEN NO ORIGINAL SPINDLE		1265
20					

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15	3232 * EQU X'01'	. NO CONTROLLER LONG TIME OUT
	3233 SPACE	
16	3234 TUBSENS1 EQU TUBSENS0+1	SENSE BYTE 1
	3235 SPACE	
	3236 * SCREEN FORMAT ERROR	* REFERENCE GROUP 5 IN TUBSENS4
17	3237 * EQU X'80'	. SCREEN FORMAT ERROR
	3238 * EQU X'40'	. NO RESPONSE TIME OUT
	3239 * EQU X'20'	. TRANSMIT ACTIVITY CHECK
18	3240 * EQU X'10'	. ACTIVATE COMMAND FAILURE
	3241 * EQU X'08'	. RECEIVE PARITY CHECK
	3242 * EQU X'04'	. RECEIVE LENGTH CHECK
19	3243 * EQU X'02'	. NOT USED
	3244 * EQU X'01'	. EVEN/ODD TIME OUT
20	3245 SPACE	

15	3287 * GROUP 2 - NO FOLLOWING	( REFERE
	3288 * SPACE	
16	3290 * EQU X'01'	
	3291 * EQU X'02'	
17	3292 * EQU X'03'	
	3293 * EQU X'04'	
	3294 SPACE	
18	3295 * GROUP 3 - RESOURCES	
	3296 * ( REFERE	
	3297 SPACE	
19	3298 * EQU X'01'	
	3299 TUBSDEAD EQU X'02'	
20	3300 * EQU X'03'	

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IF DO	LINE	SOURCE		
	1211 *	PREFERENCE WAS SPECIFIED		
	1212	SPACE		
	1213 FIAPLBF EQU X'01'	BIT ON = LIBRARIAN FILE		
	1214	SPACE		
	1215 FIADRECL EQU FIADFLG+2	RECORD LENGTH		
	1216	SPACE		
	1217 FIADHIGH EQU FIADRECL+1	HIGH ORDER BYTE OF BLOCKS/RECORDS FIELD		
	1218 FIAPBLIN EQU X'80'	BIT ON = FILE ALLOCATED WITH BLOCKS,		
	1219 *	BIT OFF = FILE ALLOCATED WITH RECORDS		
	1220 FIADBLKN EQU FIADRECL+3	BLOCKS USED TO ALLOCATE THE FILE		
	1221 FIADRECN EQU FIADRECL+3	RECORDS USED TO ALLOCATE THE FILE		
	1222	SPACE		
	1223 FIADLBN EQU FIADRECL+2	LIBRARY - OWNER QUEUE POINTER		
	1224	SPACE		
	1225 FIADLBN EQU FIADLBN+1	LIBRARY - COUNT OF CURRENT USERS		
	1226	SPACE		
	1227 FIADLSTR EQU FIADRECN+3	RELATIVE RECORD NUMBER OF NEXT RECORD		
	1228	SPACE		
	1229 FIADSPEN EQU FIADLSTR	LIBRARY - START OF MEMBERS		
	1230	SPACE		
	1231 FIADRFST EQU FIADLSTR	START SSS OF RESERVED AREA FREE SPACE		
	1232 *	(3 BYTES)		
	1233	SPACE		
	1234 FIADSTDA EQU FIADLSTR+3	SSS OF START OF DATA		
	1235	SPACE		
	1236 FIADENDA EQU FIADSTDA+3	SSS OF END OF EXTENT		
	1237	SPACE		
	1238 FIADVTOC EQU FIADENDA+2	RELATIVE S/D OF VTOC ENTRY		
	1239	SPACE		
	1240 *	----- @0419		
	1241 *	@0419		
	1242 *	RE-DEFINITION OF 'FIADVTOC' FOR RELEASE 8		
	1243 *	@0419		
	1244 *	@0419		
	1245 *	BYTE 0 1 @0419		
	1246 *	BIT   0 1 2 3 4 5 6 7   0 1 2 3 4 5 6 7   @0419		
	1247 *	----- @0419		
	1248 *RESERVED = 0	@0419		
	1249 *OFFSET = X X X	@0419		
	1250 *RESERVED = 0	@0419		
	1251 *SECTOR NUMBER = YYY YYYYYYYY	@0419		
	1252 *	@0419		
	1253 *	WHERE 'XXX' IS DEFINED BELOW: @0419		
	1254 *	III @0419		
	1255 *	VV @0419		
	1256 FIAPW1ST EQU B'00010000'	FIRST FORMAT-1 IN SECTOR @0419		
	1257 *	(ALSO INCREMENTS OFFSET) @0613		
	1258 FIAPW2ND EQU B'00100000'	SECOND FORMAT-1 IN SECTOR @0419		
	1259 FIAPW3RD EQU B'00110000'	THIRD FORMAT-1 IN SECTOR @0419		
	1260 FIAPW4TH EQU B'01000000'	FOURTH FORMAT-1 IN SECTOR @0419		
	1261 FIAPWALL EQU B'01110000'	CLEANS OFFSET @0419		
	1262	SPACE 3		
	1263 FIADL1VTA EQU FIADVTOC+1	LENGTH OF THE FIRST VTOC AREA		
	1264	SPACE		
	1265	*****		

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IF DO	LINE
	1266 *
	1267 * THE FOLLOWING
	1268 * (EXCEPT WHERE
	1269 *
	1270 *****
	1271 SPACE
	1272 FIADFCN EQU FIAD
	1273 SPACE
	1274 FIADATT1 EQU FIAD
	1275 FIAPKEND EQU X'80
	1276 SPACE
	1277 FIADCONT EQU FIAD
	1278 SPACE
	1279 FIADATTR EQU FIAD
	1280 FIADOTAD EQU X'80
	1281 FIAPKBPR EQU X'40
	1282 FIAPINFR EQU X'20
	1283 *
	1284 FIAPMKAS EQU X'10
	1285 *
	1286 FIAPNREC EQU X'08
	1287 *
	1288 FIAPDNFG EQU X'04
	1289 *
	1290 FIAPRFIL EQU X'02
	1291 FIADPLW EQU X'01
	1292 *
	1293 SPACE
	1294 FIADATT2 EQU FIAD
	1295 *
	1296 *
	1297 FIAPSCFL EQU X'80
	1298 FIAPCKPT EQU X'40
	1299 FIADLTC EQU X'20
	1300 FIAPFIL EQU X'10
	1301 FIAPGASK EQU X'08
	1302 SPACE
	1303 FIADOWNR EQU FIAD
	1304 FIADDFQ EQU FIAD
	1305 SPACE
	1306 FIADRFED EQU FIAD
	1307 *
	1308 SPACE
	1309 *****
	1310 *
	1311 * THE FOLLOWING
	1312 *
	1313 * NOTE: THIS AF
	1314 * FREED E
	1315 *
	1316 *****
	1317 SPACE
	1318 FIADKEYL EQU FIAD
	1319 SPACE
	1320 FIADKEYO EQU FIAD

15	3287 *	GROUP 2 - US CONTROL FILED ERRORS	
	3288 *	( REFERENCE TUBSEN0 BIT1 )	
	3289	SPACE	
16	3290 *	EQU X'01' . INVALID COMMAND MODIFIER	
	3291 *	EQU X'02' . INVALID BYTE COUNT (0 OR 4096)	
	3292 *	EQU X'03' . DEVICE ADDRESS NOT FOUND	
17	3293 *	EQU X'04' . BYTE COUNT ≠ ACTUALLY TRANSFERED	
	3294	SPACE	
	3295 *	GROUP 3 - RESOURCES TEMPORARILY NOT AVAILABLE ERRORS	
18	3296 *	( REFERENCE TUBSEN0 BIT2 )	
	3297	SPACE	
	3298 *	EQU X'01' . PRINTER BUSY DURING WRITE ATTEMPT	
19	3299	TUBSDEAD EQU X'02' . US IN ERROR MODE	
	3300 *	EQU X'03' . DEVICE OFFLINE ERROR	
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15	3343	SPACE	
	3344	TUBENPCT EQU TUBENP	
16	3345	SPACE	
	3346 *		
	3347 *	SEE THE ERRO	
17	3348 *		
	3349	SPACE	
	3350	TUBENDFG EQU TUBENDF	
18	3351	SPACE	
	3352 *		
	3353 *	SEE THE ERRO	
19	3354 *		
	3355	SPACE	
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IF DO	LINE	SOURCE		
01	1266 *		*	
	1267 *	THE FOLLOWING FIELDS ARE ONLY SUPPORTED IN THE AFA FORMAT-1	*	
02	1268 *	(EXCEPT WHERE NOTED OTHERWISE)	*	
	1269 *		*	
	1270	*****		
03	1271	SPACE		
	1272	F1ADFCHN EQU F1ADVTOC+2 FORWARD CHAIN POINTER		
	1273	SPACE		
04	1274	F1ADATT1 EQU F1ADFCHN+1 ATTRIBUTE BYTE ONE		
	1275	F1AMPKND EQU X'80' EXTEND CAPABLE FILE		
	1276	SPACE		
05	1277	F1ADCONT EQU F1ADATT1+1 COUNT OF CURRENT USERS		
	1278	SPACE		
	1279	F1ADATTR EQU F1ADCONT+1 ATTRIBUTE BYTE THREE		
06	1280	F1ADOTAD EQU X'80' BIT ON = FILE OPENED AS OUTPUT OR ADD		
	1281	F1AMPKPR EQU X'40' BIT ON = KEY BUCKET HAS BEEN PRIMED		
	1282	F1AMINFR EQU X'20' BIT ON = INDEXED PORTION OF F1 HAS BEEN		
07	1283 *	FREED BY ALLOCATE		
	1284	F1AMHKAS EQU X'10' BIT ON = HIGH KEY BUCKET ASSIGNED		
	1285 *	(NOT TO BE USED BY TERMINATION)		
08	1286	F1AMNREC EQU X'08' BIT ON = NON-FORMATTED FILE		
	1287 *	(VALID IN THE VTOC)		
	1288	F1ADNDFG EQU X'04' BIT ON = INVALID DATA AREA		
09	1289 *	(VALID IN THE VTOC)		
	1290	F1AMPFIL EQU X'02' BIT ON = FILE ALLOCATED IN RESERVE AREA		
	1291	F1ADOLMV EQU X'01' BIT ON = OFF-LINE MULTI-VOLUME FILE		
10	1292 *	(VALID IN THE VTOC)		
	1293	SPACE		
	1294	F1ADATT2 EQU F1ADATTR+1 ATTRIBUTE BYTE TWO - THIS BYTE IS		
11	1295 *	SUPPORTED IN BOTH THE AFA AND THE VTOC		
	1296 *	EXCEPT FOR A LIBRARY FORMAT-1		
	1297	F1AMSCFL EQU X'80' SECURE FILE		
12	1298	F1AMCKPT EQU X'40' CHECKPOINT ACTIVE FILE		
	1299	F1ADLTC EQU X'20' DELETE CAPABLE FILE		
	1300	F1AMIFIL EQU X'10' IMMEDIATE ACCESS FILE (IFILE)		
13	1301	F1AMGASK EQU X'08' IFILE GAPS ADDED SINCE LAST KEYSORT		
	1302	SPACE		
	1303	F1ADQNR EQU F1ADATT2+2 OWNER QUEUE POINTER		
14	1304	F1ADEDFQ EQU F1ADQNR+2 EDF QUEUE POINTER		
	1305	SPACE		
	1306	F1ADRFED EQU F1ADEDFQ END SSS OF RESERVED AREA FREE SPACE		
15	1307 *	(3 BYTES)		
	1308	SPACE		
	1309	*****		
16	1310 *		*	
	1311 *	THE FOLLOWING FIELDS ARE ONLY SUPPORTED FOR INDEXED FILES	*	
	1312 *		*	
17	1313 *	NOTE: THIS AREA MUST BEGIN ON AN 8 BYTE BOUNDARY BECAUSE IT IS	*	
	1314 *	FREED BY ALLOCATE FOR NON-INDEXED FILES	*	
	1315 *		*	
18	1316	*****		
	1317	SPACE		
	1318	F1ADKEYL EQU F1ADEDFQ+1 KEY LENGTH		
19	1319	SPACE		
	1320	F1ADKEYO EQU F1ADKEYL+2 KEY LOCATION		
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IF DO	LINE	
01	1321	SPACE
	1322	F1ADLSTK EQU F1ADL
02	1323	SPACE
	1324	F1ADSTIX EQU F1AD
	1325	SPACE
03	1326	F1ADLSTP EQU F1AD
	1327	SPACE
	1328	F1ADHKEY EQU F1AD
04	1329	SPACE
	1330	F1AL2VTA EQU F1AD
	1331	SPACE
05	1332	*****
	1333 *	
	1334 *	THE FOLLOWING
06	1335 *	FOR INDEXED F
	1336 *	
	1337	*****
07	1338	SPACE
	1339	F1ADXBKT EQU F1AD
	1340	SPACE
08	1341	F1ADPCBQ EQU F1AD
	1342	F1ADRES3 EQU F1AD
	1343	SPACE 2
09	1344	F1ALLGCD EQU F1AD
	1345 *	
	1346	SPACE
10	1347	F1ALLGIN EQU F1AD
	1348	SPACE
	1349	F1ALLGLB EQU F1AD
11	1350	SPACE
	1351	*****
	1352	*****
12	1353 **	THE FOLLOWING LAB
	1354 **	FAILURE OR PERMAN
	1355 **	LETELY MOVED THE
13	1356 **	OVERLAYED DURING
	1357 **	
	1358 **	IF SPACE IS ABLE
14	1359 **	SET TO ZERO.
	1360 **	
	1361 **	THE VALUES STORED
15	1362 **	LOSING ANY DATA I
	1363 **	EXECUTION.
	1364	*****
16	1365	*****
	1366	SPACE
	1367	F1FLAG EQU F1AD
17	1368 *	
	1369	F1ARESTR EQU X'FF'
	1370 *	
18	1371	F1SSTRT EQU F1FLA
	1372 *	
	1373	F1SSEND EQU F1ADE
19	1374 *	
	1375	SPACE
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3342	TUBQDR	EQU	TUBDEVIO+1	QUEUE HEADER POINTER FOR PRINTER
3343			SPACE	
3344	TUBRPTCT	EQU	TUBQDR+1	ENP CONTROL BYTE
3345			SPACE	
3346	*			
3347	*			SEE THE ENBCTL FIELD OF THE ENB MACRO FOR ASSOCIATED MASKS.
3348	*			
3349			SPACE	
3350	TUBRDFG	EQU	TUBRPTCT+1	ENB FLAG BYTE
3351			SPACE	
3352	*			
3353	*			SEE THE ENBDFLG FIELD OF THE ENB MACRO FOR ASSOCIATED MASKS.
3354	*			
3355			SPACE	

3397	TUBCHDT	EQU	X'20'	
3399	TUBSQN	EQU	X'10'	
3400	TUBTSRQ	EQU	X'08'	
3401	TUBSTPJ	EQU	X'04'	
3402	TUBTDFR	EQU	X'02'	
3403	TUBFCNSL	EQU	X'01'	
3404			SPACE	
3405	TUBATTR2	EQU	TUBA	
3406			SPACE	
3407			*****	
3408	*			
3409			*****	
3410	*			1XXX - S

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5	DATE 81/12/08
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SPL/3	VERSION 08/28/80	PAGE 25	TIME 02:15	DATE 81/12/08
IF DO	LINE	SOURCE		
01	1321	SPACE		
02	1322	F1ADLSTK	EQU	F1ADKEYD+4 SSS/D OF NEXT KEY
02	1323	SPACE		
03	1324	F1ADSTIX	EQU	F1ADLSTK+3 SSS OF START OF INDEX
03	1325	SPACE		
03	1326	F1ADLSTP	EQU	F1ADSTIX+4 SSS/D OF LAST PRIME KEY
03	1327	SPACE		
04	1328	F1ADHOKY	EQU	F1ADLSTP+4 SSS/D OF HIGHEST KEY IN OVERFLOW AREA
04	1329	SPACE		
04	1330	F1AL2VTA	EQU	F1ADHOKY-F1ADEDQ LENGTH OF THE SECOND VTOC AREA
05	1331	SPACE		
05	1332	*****		
05	1333	*		*
06	1334	*		THE FOLLOWING FIELDS ARE ONLY SUPPORTED IN THE AFA FORMAT-1
06	1335	*		FOR INDEXED FILES
06	1336	*		*
07	1337	*****		
07	1338	SPACE		
08	1339	F1ADKBT	EQU	F1ADHOKY+2 KEY BUCKET POINTER
08	1340	SPACE		
08	1341	F1ADPCBQ	EQU	F1ADKBT+2 FILE POSITION CONTROL BLOCK POINTER
08	1342	F1ADRES3	EQU	F1ADPCBQ+2 RESERVED FOR FUTURE USE
09	1343	SPACE 2		
09	1344	F1ALLGCD	EQU	F1ADEDQ+1 LENGTH OF A FORMAT-1 FOR CONSECUTIVE AND
09	1345	*		DIRECT FILES (40)
10	1346	SPACE		
10	1347	F1ALLGIN	EQU	F1ADRES3+1 LENGTH OF AN F1 FOR INDEXED FILES (64)
10	1348	SPACE		
11	1349	F1ALLGLB	EQU	F1ADFCN+1 LENGTH OF A LIBRARY FORMAT-1 (32)
11	1350	SPACE		
11	1351	*****		
12	1352	*****		
12	1353	**		THE FOLLOWING LABELS ARE USED BY SPACK TO INDICATE THAT A SYSTEM
12	1354	**		FAILURE OR PERMANENT I/O ERROR OCCURRED BEFORE SPACK HAD COMP-
13	1355	**		LETELY MOVED THE FILE, WHERE PART OF THE FILE MAY HAVE BEEN
13	1356	**		OVERLAYED DURING THE MOVE OPERATION.
13	1357	**		**
14	1358	**		IF SPACK IS ABLE TO MOVE THE FILE SUCCESSFULLY, THESE FIELDS ARE
14	1359	**		SET TO ZERO.
14	1360	**		**
15	1361	**		THE VALUES STORED IN THIS AREA ALLOW SPACK TO RESTART WITHOUT
15	1362	**		LOSING ANY DATA IF THE ABOVE ERROR(S) SHOULD OCCUR DURING
15	1363	**		EXECUTION.
16	1364	*****		
16	1365	*****		
16	1366	SPACE		
17	1367	F1FLAG	EQU	F1ADVTOC+1 1-BYTE FLAG INDICATING THAT RESTART OF
17	1368	*		SPACK IS REQUIRED FOR THIS FILE.
17	1369	F1RESTRY	EQU	X'FF' SWITCH VALUE THAT IS PLACED IN F1FLAG
18	1370	*		IF RESTART IS NECESSARY.
18	1371	F1SSTRT	EQU	F1FLAG+3 POINTS TO START SSS OF DATA THAT HAS BEEN
18	1372	*		MOVED BY SPACK.
19	1373	F1SSEND	EQU	F1ADEDQ POINTS TO END SSS OF DATA THAT HAS BEEN
19	1374	*		MOVED BY SPACK.
20	1375	SPACE		

SPL/3	VERSION 08/28/80			
IF DO	LINE			
01	1376	**	END OF EXPANS	
02	1377	*	HEADER	
02	1378	QNDNULL	EQU	X'
02	1379	QNDHI	EQU	X'
03	1380	DEQUEUE	EQU	X'
03	1381	QUEUE	EQU	X'
03	1382	PRIOR	EQU	X'
04	1383	SYS	EQU	X'
04	1384	LIFO	EQU	X'
04	1385	FIFO	EQU	X'
05	1386	PRIORL	EQU	PR
05	1387	PRIORF	EQU	PR
05	1388	*		*
06	1389	**		THE FOLLOWING
06	1390	**		IN MAIN STORE
06	1391	**		DEPENDENT ON
07	1392	**		HEADERS MUST
07	1393	**		THE HEADER AS
07	1394	*		*
08	1395	QNDFO	EQU	X'
08	1396	QNDIO	EQU	X'
08	1397	QNDPT	EQU	X'
09	1398	QNDISC	EQU	X'
09	1399	QNDCCOM	EQU	X'
09	1400	QNDIOXNT	EQU	X'
10	1401	*		EQU
10	1402	*		EQU
10	1403	*		EQU
11	1404	*		EQU
11	1405	*		EQU
11	1406	*		EQU
12	1407	QNDICNT	EQU	X'
12	1408	QNDTVA	EQU	X'
12	1409	QNDLOAD	EQU	X'
13	1410	QNDKBT	EQU	X'
13	1411	QNDPT1	EQU	X'
13	1412	QNDPT2	EQU	X'
14	1413	QNDPT3	EQU	X'
14	1414	QNDPT4	EQU	X'
14	1415	QNDPT5	EQU	X'
15	1416	QNDPT6	EQU	X'
15	1417	QNDPT7	EQU	X'
15	1418	QNDPT8	EQU	X'
16	1419	QNDFOA	EQU	X'
16	1420	QNDFOB	EQU	X'
16	1421	QNDFOC	EQU	X'
17	1422	QNDFOO	EQU	X'
17	1423	QNDIOA	EQU	X'
17	1424	*		EQU
18	1425	EJECT		
18	1426	QNDTIMER	EQU	X'
18	1427	QNDLINEA	EQU	X'
19	1428	QNDSPICB	EQU	X'
19	1429	QNDXTENT	EQU	X'
20	1430	QNDPRIQ	EQU	X'

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15	3397 TUBCON EQU X'40'	. ALTERNATE CONSOLE	15	3452 TUBOP EQU
	3398 TUBCDT EQU X'20'	. COMMAND TERMINAL(CON)-DATA TERM(KOFF)		3453 TUBLOP EQU
	3399 TUBSGN EQU X'10'	. TERMINAL SIGNED ON		3454 TUBRSJ EQU
16	3400 TUBTSQ EQU X'08'	. TEST REQUEST MODE	16	3455 TUBRSF EQU
	3401 TUBSTPJ EQU X'04'	. JOB INITIATION NOT ALLOWED		3456 TUBREL EQU
	3402 TUBLOPR EQU X'02'	. LISA FORMATTED WITH LTO DISPLAY		3457 TUBRSJ EQU
17	3403 TUBFCHSL EQU X'01'	. CONSOLE MODE FORCED BY I/O ERROR	17	3458 TUBATRM EQU
	3404 SPACE			3459 SPM
	3405 TUBATTR2 EQU TUBATTR1+1	TERMINAL MODE AND DISPLAY		3460 TUBATTRS EQU
18	3406 SPACE		18	3461 SPM
	3407 *****			3462 TUBUSSP EQU
	3408 * TERMINAL MODE INDICATORS *			3463 TUBUSSV EQU
19	3409 *****		19	3464 TUBSYLST EQU
	3410 * 1XXX - STANDBY MODE * OX00 - INITIAL MODE *			3465 TUBBOCF EQU
20			20	

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02:15	81/12/08	01	08/28/80	26	02:15	81/12/08	01	08/28/80
		IF DO	LINE	SOURCE			IF DO	LINE
			1376 *** END OF EXPANSION **					1431 QHDTCBQ EQU
			1377 * HEADR		00990000			1432 QHDTC EQU
02			1378 QHNULL EQU X'00'	MULL QUEUE HEADER VALUE				1433 QHDSQE EQU
			1379 QHWHI EQU X'01'	HIGH VALUE FOR QUEUE HEADER ADDRESS				1434 QHDCNLG EQU
			1380 DEQUEUE EQU X'20'	DEQUEUE REQUEST				1435 QHDCILK EQU
03			1381 QUEUE EQU X'00'	QUEUE REQUEST				1436 QHDTM EQU
			1382 PRIOR EQU X'80'	MASK FOR PRIORITY QUEUEING				1437 QHDFILK EQU
			1383 SYS EQU X'40'	SYSTEM QUEUE HEADER REQUEST				1438 QHDCPCL EQU
04			1384 LIFO EQU X'10'	MASK FOR LIFO QUEUEING				1439 QHDSQB EQU
			1385 FIFO EQU X'00'	MASK FOR FIFO QUEUEING				1440 QHDCSCQ EQU
			1386 PRIORL EQU PRIOR+LIFO	MASK FOR LIFO PRIORITY QUEUEING				1441 QHDTUB EQU
05			1387 PRIORF EQU PRIOR+FIFO	MASK FOR FIFO PRIORITY QUEUEING				1442 QHDCOM1 EQU
			1388 *					1443 QHDCOM2 EQU
			1389 ** THE FOLLOWING QUEUE HEADERS ARE OFFSETS FROM LOCATION X'0100'					1444 QHDCOM3 EQU
06			1390 ** IN MAIN STORE. THE QUEUE HEADERS HAVE VARIOUS FUNCTIONS					1445 QHDCOM4 EQU
			1391 ** DEPENDENT ON THEIR USERS REQUIREMENTS. ANY USER OF THESE QUEUE					1446 QHDIILK EQU
			1392 ** HEADERS MUST ALSO BE AWARE THAT CONTROL STORE MAY ALSO ACCESS					1447 QHDSILK EQU
07			1393 ** THE HEADER ASYNCHRONOUSLY.					1448 QHDSVILK EQU
			1394 *					1449 QHDSILK EQU
			1395 QHDIO EQU X'00'	DISK IOS (ACE)				1450 QHDPILK EQU
08			1396 QHDIO EQU X'02'	DISKETTE IOCS (ACE)				1451 QHDHIST EQU
			1397 QHDPT EQU X'04'	PRINTER IOCH (ACE)				1452 QHDSQSPT EQU
			1398 QHDMSC EQU X'06'	WORKSTATION IOCH (ACE)				1453 QHDCSB EQU
09			1399 QHDCOM EQU X'08'	COMMUNICATIONS IOCH (ACE)				1454 QHDERB EQU
			1400 QHDIOXNT EQU X'0A'	I/O XIENT AREA (ACE)				1455 QHDSJ EQU
			1401 * EQU X'0C'	RESERVED				1456 QHDSQC EQU
10			1402 * EQU X'0E'					1457 QHDLOC EQU
			1403 * EQU X'10'					1458 * EQU
			1404 * EQU X'12'					1459 QHDSNA EQU
11			1405 * EQU X'14'					1460 QHDSQS EQU
			1406 * EQU X'16'					1461 QHDSQS EQU
			1407 QHDIXNT EQU X'18'	CONTROL STORAGE XIENT SCHEDULER (ACE)				1462 * ---- T
12			1408 QHDTWA EQU X'1A'	TASK WORK AREA ACCESS (ACE)				1463 * EQU
			1409 QHDLOAD EQU X'1C'	M.S. RELOCATING LOADER (ACE)				1464 QHDINDEX EQU
			1410 QHDKBTR EQU X'1E'	KEYBOARD TRACE (ACE)				1465 QHDIQATL EQU
13			1411 QHDPT1 EQU X'20'	PRINTER QUEUE HEADER 1 (ACE)				1466 QHDORPT EQU
			1412 QHDPT2 EQU X'22'	PRINTER QUEUE HEADER 2 (ACE)				1467 QHDSCT EQU
			1413 QHDPT3 EQU X'24'	PRINTER QUEUE HEADER 3 (ACE)				1468 QHDTWF1 EQU
14			1414 QHDPT4 EQU X'26'	PRINTER QUEUE HEADER 4 (ACE)				1469 QHDEXTRA EQU
			1415 QHDPT5 EQU X'28'	PRINTER QUEUE HEADER 5 (ACE)				1470 QHDSUBCN EQU
			1416 QHDPT6 EQU X'2A'	PRINTER QUEUE HEADER 6 (ACE)				1471 QHDSUBRA EQU
15			1417 QHDPT7 EQU X'2C'	PRINTER QUEUE HEADER 7 (ACE)				1472 QHDEIB EQU
			1418 QHDPT8 EQU X'2E'	PRINTER QUEUE HEADER 8 (ACE)				1473 QHDSACE EQU
			1419 QHDFDA EQU X'30'	SPINDLE A QUEUE HEADER (ACE)				1474 QHDELF EQU
16			1420 QHDFDB EQU X'32'	SPINDLE B QUEUE HEADER (ACE)				1475 QHDEXAM EQU
			1421 QHDFDC EQU X'34'	171 SPINDLE C QUEUE HEADER				1476 QHDITI EQU
			1422 QHDFDD EQU X'36'	171 SPINDLE D QUEUE HEADER				1477 QHDPOLH EQU
17			1423 QHDIOA EQU X'38'	DISKETTE ACTIVE QUEUE (ACE)				1478 QHDSPLK EQU
			1424 * EQU X'3A'	RESERVED				1479 QHDXZ1 EQU
			1425 EJECT					1480 * ---- T
18			1426 QHDTIMER EQU X'3C'	INTERNAL TIMER TOE QUEUE (TOE)				1481 * EQU
			1427 QHDTIMEA EQU X'3E'	INTERNAL TIMER ACE QUEUE (ACE)				1482 *** END OF
			1428 QHDSPTCB EQU X'41'	CURRENT TASK EXECUTING (TCB)				1483 * EQU
19			1429 QHDXTENT EQU X'42'	MAIN STORAGE TRANSIENT SCHEDULER (TCB)				1484 *****
			1430 QHDPRIQ EQU X'44'	TCB PRIORITY QUEUE (TCB)				1485 * EQU
20								

15	3452 TUBDIN EQU X'40'	. RESTORE-N ON OCL STATEMENT	3507 TUBR66
16	3453 TUBLOP EQU X'20'	. LAST OP TO THE TUB HAS A PUT	3509 TUBRPTS
	3454 TUBRSW EQU X'10'	. RELEASE STOP INV WORKED	3510 TUBSVND
	3455 TUBRSF EQU X'08'	. RELEASE STOP INV FAILED	3511 TUBSVR1
	3456 TUBREL EQU X'04'	. TUB HAS BEEN RELEASED	3512 TUBSVR2
17	3457 TUBSHQ EQU X'02'	. SRT HAS RELEASED REQUESTOR	3513 TUBRDYPO
	3458 TUBATRM EQU X'01'	. CALL TERMINATOR PRIOR TO RELEASE	3514
	3459 SPACE		3515 *
18	3460 TUBATRS EQU TUBATRS+1		3516 TUBRFS5
	3461 SPACE		3517 TUBRFN
	3462 TUBUSUP EQU X'80'	. USER DISPLAY IS UP	3518 TUBRFFCS
	3463 TUBUSSV EQU X'40'	. USER DISPLAY SAVED	3519 TUBRFDSP
19	3464 TUBSYLST EQU X'20'	. SYSLIST DISPLAY UP	3520 *
	3465 TUBHDCF EQU X'10'	. BROADCAST FAILURE	
20			

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01		IF DO	LINE	SOURCE			01	IF DO
			1431 QHDTCBQ EQU X'46'	TCB READY QUEUE (TCB)				1486 *
			1432 QHDTTC EQU X'48'	TASK-TASK COMM (ACE)				1487 *
02			1433 QHDSQE EQU X'4A'	STATUS QUEUE HEADER (PL )			02	1488 *
			1434 QHDCNLG EQU X'4C'	CONSOLE SYSLOG (PL )				1489 *
			1435 QHDCILK EQU X'4E'	CONSOLE SYSLOG INTERLOCK (ACE)				1490 *****
03			1436 QHDTM EQU X'50'	TERMINATION/RELEASE (PL )			03	1491
			1437 QHDFILK EQU X'52'	REJECT FILE INTERLOCK (ACE)				1492 ICADSY
			1438 QHDCPCL EQU X'54'	OCL COMMAND REQUESTS (PL )				1493 *
04			1439 QHDSQB EQU X'56'	SECTOR QUEUE BLOCKS (SQB)			04	1494 ICADLS
			1440 QHDCSQ EQU X'58'	CONTROL STORE COMPLETE QUEUE (ACE)				1495 *
			1441 QHDTUB EQU X'5A'	TERMINAL UNIT BLOCK QUEUE (TUB)				1496 ICADP2
05			1442 QHDCOM1 EQU X'5C'	COMMUNICATIONS LINE 1 (ACE)			05	1497 *
			1443 QHDCOM2 EQU X'5E'	COMMUNICATIONS LINE 2 (ACE)				1498 ICADSS
			1444 QHDCOM3 EQU X'60'	COMMUNICATIONS LINE 3 (ACE)				1499 *
06			1445 QHDCOM4 EQU X'62'	COMMUNICATIONS LINE 4 (ACE)			06	1500 ICADCM
			1446 QHDDILK EQU X'64'	DEDICATION INTERLOCK (ACE)				1501 ICAML0
			1447 QHDSILK EQU X'66'	SCHEDULER INTERLOCK (ACE)				1502 *
07			1448 QHDSVILK EQU X'68'	VTOC INTERLOCK (ACE)			07	1503 *
			1449 QHDSILK EQU X'6A'	FORMAT FIVE INTERLOCK (ACE)				1504 *
			1450 QHDPILK EQU X'6C'	PROC NAME INTERLOCK (ACE)				1505 ICAML4
08			1451 QHDIHST EQU X'6E'	HISTORY FILE INTERLOCK (ACE)			08	1506 ICAML3
			1452 QHDSQSPT EQU X'70'	ASSIGNED PAGES QUEUE HEADER (APE)				1507 ICAML2
			1453 QHDCSB EQU X'72'	COMMUNICATIONS SPECIFICATION QUEUE (CSB)				1508 ICAML1
09			1454 QHDERB EQU X'74'	ERROR RECORDING BLOCK QUEUE HEADER (ERB)			09	1509 *
			1455 QHDCGW EQU X'76'	GENERAL WAIT QUEUE HEADER (ACE)				1510 ICADTRS
			1456 QHDSQC EQU X'78'	SECURITY QUEUE HEADER (PL )				1511 *
10			1457 QHDL0C EQU X'7A'	LOCATION OF NODE DICTIONARY (PL )			10	1512 ICAD32
			1458 * EQU X'7C'	RESERVED				1513 ICAML32
			1459 QHDSNA EQU X'7E'	SNA TASK QUEUE HEADER				1514 *
11			1460 QHDSQS EQU X'80'	WORKSTATION QUEUE SPACE (FQE)			11	1515 ICAD00
			1461 QHDSQS EQU X'82'	SYSTEM QUEUE SPACE (FQE)				1516 *
12			1462 * THRU					1517 ICADTRA
			1463 * EQU X'8E'	RESERVED			12	1518 *
			1464 QHDIQEX EQU X'90'	INQUIRY EXIT QUEUE (ACE)				1519 ICADTRS
			1465 QHDIQAIL EQU X'92'	QUEUED ACQUIRE INTERFACE LIST (PL )				1520 * NOTE:
13			1466 QHDRPT EQU X'94'	REMOTE PRINTER QUEUE (ACE)			13	1521 *
			1467 QHDSCT EQU X'96'	SUBSYSTEM CONFIGURATION TABLE (PL )				1522 *
			1468 QHDTWRF1 EQU X'98'	TWA EXTENSION F1 CHAIN (F1 )				1523
14			1469 QHDEXTRA EQU X'9A'	EXTENDED TRACE (PL )			14	1524 *
			1470 QHDSUBCH EQU X'9C'	SUBCONSOLE SYSLOG (PL )				1525 *
			1471 QHDSUBRA EQU X'9E'	SUBCONSOLE REASSTGN (PL )				1526 *
15			1472 QHDEIB EQU X'AO'	ERROR INFORMATION BLOCK (EIB)			15	1527 *
			1473 QHDSACE EQU X'A2'	NS GET PAGE ACE (ACE)				1528 *
			1474 QHDLGF EQU X'A4'	GENERAL LOGGING FACILITY PAMPLIST (PL )				1529 ICADTRR
16			1475 QHDXAM EQU X'A6'	EXAM QUEUE (NMS)			16	1530 *
			1476 QHDMTI EQU X'AO'	MRT TERMINATION INTERLOCK				1531 ICADICS
			1477 QHDPDLH EQU X'AA'	MULT SNA LINE INTERLOCK (ACE)				1532 *
17			1478 QHDSPLK EQU X'AC'	SPOOL FILE INTERLOCK (ACE)			17	1533 ICADKTC
			1479 QHDXZ1 EQU X'AE'	MCLA X.21 (ACE)				1534 *
			1480 * THRU					1535 ICADKFL
18			1481 * EQU X'BE'	RESERVED			18	1536 ICADNBS
			1482 *** END OF EXPANSION **					1537 ICADNAT
			1483 * ICSCA		01000000			1538 ICADNAT
19			1484 *****				19	1539 *
			1485 *		*			1540 *
20							20	

15	3507 TUBM40 EQU X'40'	. THIS TUB IS FOR A 960 CHR SCREEN
	3508 TUBM12 EQU X'20'	. DISPLAY PAGE 2 OF MENU ON 960
16	3509 TUBMRTSC EQU X'10'	. PART SECURITY SWITCH
	3510 TUBSWD EQU X'08'	. REJECT IN READY FUNCTION
	3511 TUBSVER1 EQU X'04'	. ERROR DURING SAVE - STATUS OR CNSL SYSLG
	3512 TUBSVER2 EQU X'02'	. ERROR DURING SAVE - SYS REQ OR INQUIRY
17	3513 TUBNDYPD EQU X'01'	. READY TASK IS PENDING
	3514 SPACE	
	3515 *	REJECT FILE INDEX
18	3516 TUBRFSS EQU TUBATTR+2	REJECT FILE - SS
	3517 TUBRFN EQU TUBRFSS+1	REJECT FILE - NUMBER SECTORS
	3518 TUBRFSS EQU TUBRFN+1	REJECT FILE - CURRENT SECTOR
19	3519 TUBRFDSP EQU TUBRFSS+1	REJECT FILE - RELATIVE DISPLACEMENT
	3520 *	

15	3562 TUBCLAD EQU X'80'	
	3563 TUBBLOCK EQU X'40'	
16	3565 TUBOFF EQU X'20'	
	3566 TUBHOLD EQU X'10'	
	3567 *	
	3568 *	
	3569 TUBSUBCH EQU X'08'	
18	3570 TUBMCOU EQU X'04'	
	3571 TUBMSUB EQU X'02'	
	3572 TUBRNDOD EQU X'01'	
19	3573 TUBMSID EQU TUBATT	
	3574 TUBMATX EQU TUBMSG	
	3575 SPACE	

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DATE 81/12/08	SPL/3 IF DO	VERSION 08/28/80	LINE	SOURCE	PAGE 28	TIME 02:15	DATE 81/12/08
01			1486 *	ICF			
			1487 *				
02			1488 *	COMMUNICATION AREA			
			1489 *				
			1490 *	*****			
03			1491 *	SPACE			
			1492 *	ICADSYS EQU 0			
			1493 *	BEGINNING OF ICF COMM AREA			
04			1494 *	ICADLSUB EQU ICADSYS+1 2			
			1495 *	LAST SUB ID USED			
05			1496 *	ICAD#2KP EQU ICADLSUB+1 1			
			1497 *	SIZE OF ICF CQS IN 2K PAGES			
			1498 *	ICADSSQS EQU ICAD#2KP+2 2			
			1499 *	ADDR OF SSQS QUEUE HEADER			
06			1500 *	ICADCMTR EQU ICADSSQS+1 1			
			1501 *	ICAMLOTR EQU X'80'			
			1502 *	EQU X'40'			
			1503 *	EQU X'20'			
			1504 *	EQU X'10'			
07			1505 *	ICAML4TR EQU X'08'			
			1506 *	ICAML3TR EQU X'04'			
			1507 *	ICAML2TR EQU X'02'			
08			1508 *	ICAML1TR EQU X'01'			
			1509 *				
09			1510 *	ICADTRSV EQU ICADCMTR+3 3			
			1511 *				
10			1512 *	ICAD3270 EQU ICADTRSV+2 2			
			1513 *	ICAM3270 EQU X'01'			
			1514 *	FIELD INTERLOCK			
11			1515 *	ICAD0001 EQU ICAD3270+2 2			
			1516 *	CONSTANT X'0001'			
12			1517 *	ICADTRAB EQU ICAD0001+2 2			
			1518 *	ADDRESS OF ICFM TRACE ROUTINE			
			1519 *	ICADTRST EQU ICADTRAB+1			
			1520 *	NOTE: THE FOLLOWING AREA IS THE ICFM TRACE SUBROUTINE WHEN			
			1521 *	TRACE IS NOT ACTIVE. ITS FUNCTION IS TO ADD 1 TO THE ARR			
			1522 *	(TO SKIP OVER PARM BYTE) AND RETURN TO CALLER.			
			1523 *	SPACE			
14			1524 *	L 1,(XR2),XR2 XR2 --> WSPL 3			
			1525 *	A ICAD0001(C,1),ARR INCREMENT ARR - SKIP OVER PARM 3			
15			1526 *	ST ICADTRRT(C,XR1),ARR STORE RETURN ADDRESS 3			
			1527 *	L WDTUB(C,XR2),XR1 XR1 --> SUB 3			
			1528 *	B # RETURN TO CALLER 4			
			1529 *	ICADTRRT EQU ICADTRST+16-1 16			
			1530 *	END OF ICFM TRACE ROUTINE			
16			1531 *	ICADICSV EQU ICADTRRT+12 12			
			1532 *	RESERVED FOR ICFM TRACE			
17			1533 *	ICADXTCB EQU ICADICSV+2 2			
			1534 *	TCB ADDR OF ICF TRANSIENT OWNER			
			1535 *	ICADXTFLG EQU ICADXTCB+1 1			
18			1536 *	ICADXTBSY EQU X'80'			
			1537 *	ICADXTWTR EQU X'40'			
			1538 *	ICADXTWTA EQU X'20'			
19			1539 *	EQU X'10'			
			1540 *	EQU X'08'			

SPL/3 IF DO	VERSION 08/28/80	LINE	SOURCE
01		1541 *	EQU X'04'
		1542 *	EQU X'02'
02		1543 *	EQU X'01'
		1544 *	
03		1545 *	ICADICDE EQU ICAD
		1546 *	
04		1547 *	ICADSI FG EQU ICAD
		1548 *	ICADSI DAT EQU X'80'
		1549 *	BITS 1-7 RESERV
		1550 *	
05		1551 *	ICADSI SC EQU ICAD
		1552 *	
		1553 *	ICADSI ST EQU ICAD
		1554 *	
06		1555 *	ICADRESV EQU ICAD
		1556 *	
07		1557 *	ICAMLENG EQU ICAD
		1558 *	
		1559 *	*** END OF EXPANSIO
08		1560 *	JCBEQ
		1561 *	SPACE
		1562 *	*****
09		1563 *	
		1564 *	
		1565 *	
		1566 *	*****
10		1567 *	SPACE
		1568 *	JCBINIT EQU 0
11		1569 *	JCBINTRA EQU X'80'
		1570 *	JCBINRNG EQU X'40'
		1571 *	
12		1572 *	JCBINTR EQU X'20'
		1573 *	
		1574 *	JCBINIT EQU X'10'
13		1575 *	JCBINRT EQU X'08'
		1576 *	JCBINOSC EQU X'04'
		1577 *	JCBINLDS EQU X'02'
14		1578 *	JCBINLDS EQU X'01'
		1579 *	SPACE
15		1580 *	JCBINIT EQU JCB0
		1581 *	JCBINRGN EQU X'80'
		1582 *	JCBINLCL EQU X'40'
		1583 *	JCBINHPR EQU X'30'
16		1584 *	JCBINOPR EQU X'20'
		1585 *	JCBINLOPR EQU X'10'
		1586 *	
17		1587 *	JCBINPRC EQU X'08'
		1588 *	JCBINUSLB EQU X'04'
		1589 *	
18		1590 *	JCBINRNP EQU X'02'
		1591 *	JCBINRTP EQU X'01'
		1592 *	SPACE
19		1593 *	JCBINUSCH EQU JCB0
		1594 *	JCBINPUL EQU X'80'
		1595 *	JCBINREF EQU X'40'

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15	3562	TUBCLND EQU	X'80'	ATTRIBUTE BYTE 10	
	3563	TUBCLND EQU	X'80'	CLEAR AIDS	
	3564	TUBLOCK EQU	X'40'	LOCK CONTROL	
16	3565	TUBOFF EQU	X'20'	OFF OCL STATEMENT RECEIVED	
	3566	TUBHOLD EQU	X'10'	HOLD PARAMETER FOR OFF COMMAND (ON)	
	3567	*		NOTE THAT IF THIS BIT IS NOT ON	
17	3568	*		IT INDICATES THE DROP PARAMETER	
	3569	TUBSUBCH EQU	X'08'	SUBCONSOLE WORKSTATION	
	3570	TUBDCUT EQU	X'04'	ENTER HAS BEEN PRESSED AT THE SUBCNL	
18	3571	TUBNUSUB EQU	X'02'	ASSIGN NDSUB ACTIVE ON THIS DEVICE	
	3572	TUBRMDO EQU	X'01'	PERFORM READ MODIFIED	
	3573	TUBSGID EQU	TUBATTRA+1	NEXT REPLY ID TO USE AT SUBCONSOLE	
19	3574	TUBMATX EQU	TUBSGID:?	ADDRESS OF SUBCONSOLE MATRIX	
	3575	SPACE			

15	3617	TUBEXTD EQU			
	3618	*			
	3619	*			
16	3620	*			
	3621	*			
	3622	*			
17	3623	TUBLEEN EQU			
	3624	*****			
	3625	*			
18	3626	*****			
	3627	TUBPSUBC EQU			
	3628	TUBPTUB EQU			
19	3629	*			
	3630	TUBPATRI EQU			

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IF	DO	LINE	SOURCE					
01		1541	* EQU X'04'	RESERVED				
		1542	* EQU X'02'	RESERVED				
02		1543	* EQU X'01'	RESERVED				
		1544	*					
03		1545	ICADICDE EQU ICADIFLG+2	2 STORAGE ADDRESS OF #ICDE				
		1546	*					
		1547	ICADSI6G EQU ICADICDE+1	1 FLAG BYTE FOR SYSTEM INTERCONNECT				
04		1548	ICADSDAT EQU X'80'	* SDOH IS BEING ATTACHED				
		1549	* BITS 1-7 RESERVED CURRENTLY					
		1550	*					
05		1551	ICADISIC EQU ICADSIFF+2	2 SDOH USER COUNT				
		1552	*					
		1553	ICADISIST EQU ICADISIC+2	2 SDOH TCB ADDRESS				
		1554	*					
06		1555	ICADRESV EQU ICADISIST+11	11 RESERVED				
		1556	*					
07		1557	ICALENG EQU ICADRESV+1	LENGTH OF ICF COMM AREA				
		1558	*					
		1559	*** END OF EXPANSION **					
08		1560	* JCBEQ	01010000				
		1561	SPACE					
		1562	*****					
		1563	*					
09		1564	*	JOB CONTROL BLOCK				
		1565	*					
		1566	*****					
10		1567	SPACE					
		1568	JCBINIT EQU 0	INITIATOR SWITCH BYTE				
11		1569	JCBINTRA EQU X'80'	IN INTRA MODE (LOAD STATEMENT RECEIVED)				
		1570	JCBIRUNG EQU X'40'	PROGRAM RUNNING (BETWEEN RUN STATEMENT AND TERMINATION)				
		1571	*					
12		1572	JCBINTER EQU X'20'	IN INTER MODE (BETWEEN TERMINATION AND LOAD STATEMENT)				
		1573	*					
		1574	JCBINHNT EQU X'10'	IGNORE NO-HIST PROCEDURE ATTRIBUTE				
13		1575	JCBINRT EQU X'08'	THIS IS A PRT JCB				
		1576	JCBINOSC EQU X'04'	NO SOURCE REQUIRED				
		1577	JCBINLDS EQU X'02'	LOAD STMT RECEIVED THIS SESSION				
14		1578	JCBINLDJ EQU X'01'	LOAD STMT RECEIVED THIS JOB				
		1579	SPACE					
		1580	JCBINT2 EQU JCBINIT+1	INITIATOR SWITCH BYTE TWO				
15		1581	JCBIREGN EQU X'80'	JOB REGION RECEIVED				
		1582	JCBIRLCL EQU X'40'	LOCAL DATA AREA IS IN STORAGE				
		1583	JCBIRIPR EQU X'30'	HIGH PRIORITY HAS BEEN SPECIFIED				
		1584	JCBIROPR EQU X'20'	MEDIUM PRIORITY HAS BEEN SPECIFIED				
16		1585	JCBILOPR EQU X'10'	LOW PRIORITY HAS BEEN SPECIFIED				
		1586	*	X'30' BITS OFF = NORMAL PRIORITY				
17		1587	JCBIRPRC EQU X'08'	IN A PROCEDURE				
		1588	JCBIRUSLB EQU X'04'	PROGRAM (JCBIRPRG) WAS FOUND IN USER LIBRARY (JCBIRCLB)				
		1589	*					
18		1590	JCBIRSNP EQU X'02'	ENQUEUE RESOURCES WITH NEP ATTRIBUTE				
		1591	JCBIRNTP EQU X'01'	NRT PROGRAM				
		1592	SPACE					
19		1593	JCBISCH1 EQU JCBINT2+1	SCHEDULER BYTE ONE				
		1594	JCBIRPUL EQU X'80'	PROGRAM HAS UTILITY CONTROL STATEMENTS				
		1595	JCBIRREF EQU X'40'	RUN OKREF AT TERMINATION				

01	1596	JCBIRTRA EQU			
	1597	JCBIFLUC EQU			
02	1598	JCBIDEAD EQU			
	1599	JCBIRATCD EQU			
03	1600	JCBIRDMD EQU			
	1601	JCBIRYDD EQU			
	1602	SPR			
04	1603	JCBOSCH2 EQU			
	1604	JCBIRPCL EQU			
	1605	JCBIRPRTY EQU			
	1606	*			
05	1607	JCBIRNEP EQU			
	1608	JCBIRBCH EQU			
06	1609	JCBIRICRC EQU			
	1610	JCBIRPRD EQU			
	1611	JCBIRINQP EQU			
07	1612	JCBIRONTI EQU			
	1613	SPR			
	1614	JCBOSCH3 EQU			
08	1615	JCBIRSEJ EQU			
	1616	JCBIRSOFF EQU			
	1617	JCBIRSPRT EQU			
09	1618	JCBIRREST EQU			
	1619	JCBIRSCRT EQU			
	1620	JCBIRCOMP EQU			
10	1621	JCBIRINDI EQU			
	1622	JCBIRSRAC EQU			
	1623	SPR			
11	1624	JCBIRNLK EQU			
	1625	JCBIRSLG EQU			
	1626	JCBIRSYSN EQU			
12	1627	JCBIRKAL EQU			
	1628	JCBIRGRC EQU			
	1629	JCBIRDMU EQU			
13	1630	JCBIRCSN EQU			
	1631	JCBIRSELT EQU			
	1632	JCBIRSET EQU			
14	1633	SPR			
	1634	JCBIRUPS1 EQU			
	1635	JCBIRUPS1 EQU			
15	1636	JCBIRUPS2 EQU			
	1637	JCBIRUPS3 EQU			
	1638	JCBIRUPS4 EQU			
16	1639	JCBIRUPS5 EQU			
	1640	JCBIRUPS6 EQU			
	1641	JCBIRUPS7 EQU			
17	1642	JCBIRUPS8 EQU			
	1643	SPR			
	1644	JCBIRDATE EQU			
18	1645	SPR			
	1646	JCBIRDPAT EQU			
	1647	SPR			
	1648	JCBIRSLST EQU			
19	1649	JCBIRSOFF EQU			
	1650	JCBIRSLRT EQU			

15	3617	TUBBEAT0 EQU X'20'	. THIS PRINTER TUB HAS AN ADDITION	15	3672	TUWPSAVE EQU	
	3618	* EQU X'10'	. RESERVED		3673	TUWUSER EQU	
16	3619	* EQU X'08'	. RESERVED	16	3674	TUWTIME EQU	
	3620	* EQU X'04'	. RESERVED		3675	TUWPLG10 EQU	
	3621	* EQU X'02'	. RESERVED		3676	*	
	3622	* EQU X'01'	. RESERVED		3677	TUWPLASS EQU	
17	3623	TUWPLEN EQU TUWPRST+1	LENGTH OF A BASIC PRINTER TUB	17	3678	TUWPCOMM EQU	
	3624	*****	*****		3679	TUWPLGR EQU	
	3625	* PRINTER TUB ADDITION	*	18	3680	TUWPLGIC EQU	
18	3626	*****	*****	18	3681	TUWPTK10 EQU	
	3627	TUWPSUBC EQU TUWPLEN+1	SUBCONSOLE LOGICAL ID		3682	*	
	3628	TUWPGTUB EQU TUWPSUBC+2	POINTER TO GAIJI TUB (PRINTERS)	19	3683	TUWPDCLC EQU	
19	3629	*	REFERENCE GEXTB MACRO FOR DESCRIPTION	19	3684	TUWPKLAT EQU	
	3630	TUWPATRI EQU TUWPGTUB+1	PRINTER ATTRIBUTE BYTE ONE		3685	TUWPRRNG EQU	
20				20			

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		01	IF DO LINE				01	IF DO LINE
			1596 JCBMRTWA EQU X'20'					1651
			SOURCE					3
			FIRST SYSIN RECORD IS IN TWA					1652 JCBDCRLB EQU
		02	1597 JCBMFLUC EQU X'10'				02	1653 JCBDFSBL EQU
			FLUSH UTILITY CONTROL STATEMENTS					5
			PROGRAM IS DEDICATED					1654
			1599 JCBMFTCD EQU X'04'					1655 JCBDFSFB EQU
			DMY DATE - WORLD TRADE					5
		03	1600 JCBMDFPD EQU X'02'				03	1656
			MDY DATE - DOMESTIC					5
			1601 JCBMMDDD EQU X'01'					1657 JCBOWS8P EQU
			YMD DATE - INTERNATIONAL					5
			1602					1658
			SPACE					5
		04	1603 JCBOSCH2 EQU JCBOSCH1+1				04	1659 JCBOS8P EQU
			SCHEDULER BYTE TWO					5
			1604 JCBMOPCL EQU X'80'					1660
			OPEN OR CLOSE ERROR					5
			1605 JCBMPTRY EQU X'40'					1661 JCB01PRC EQU
			PRTY COMMAND EXECUTED PRIOR TO START OF					5
			1606 *					1662 *
			JOB					1663 *
		05	1607 JCBMNEP EQU X'20'				05	1664
			PROGRAM IS A NEP					5
			1608 JCBMBTCH EQU X'10'					1665 JCB0PRG EQU
			JOB QUEUE PROGRAM					5
		06	1609 JCBMTCRC EQU X'08'				06	1666
			INCLUDE STATEMENT RECEIVED					5
			1610 JCBMPPRO EQU X'04'					1667 JCB0STAT EQU
			ALLOCATE - DON'T PREPARE THE DISKETTE					5
			1611 JCBMINDP EQU X'02'					1668 JCBMHPMT EQU
			INQUIRY LATCH SET					1669 JCBMALIN EQU
		07	1612 JCBMNONI EQU X'01'				07	1670 JCBM0DKT EQU
			NON-INQUIRABLE PROGRAM					5
			1613					1671 JCBM0MSK EQU
			SPACE					5
		08	1614 JCBOSCH3 EQU JCBOSCH2+1				08	1672 JCBM0MINT EQU
			SCHEDULER BYTE THREE					5
			1615 JCBMSE0J EQU X'80'					1673 JCBM0MFK EQU
			SYSLOG - SUPPRESS 2 OPTION HALT					5
			1616 JCBMSOFF EQU X'40'					1674 JCBM0SLOP EQU
			SYSLIST OFF SELECTED BY HALT OPTION					5
			1617 JCBMSPR1 EQU X'20'					1675 JCBM0EXTD EQU
			SYSLIST PRINTER SELECTED BY HALT OPTION					5
		09	1618 JCBMREST EQU X'10'				09	1676
			RESERVE STATEMENT RECEIVED THIS JOB					5
			1619 JCBMSCRT EQU X'08'					1677 JCB0RGSZ EQU
			SYSLIST CRT SELECTED BY HALT OPTION					5
			1620 JCBM0EMP EQU X'04'					1678
			END OF OUTER-HOST PROCEDURE					5
		10	1621 JCBMPTINQ EQU X'02'				10	1679 JCB0CTAG EQU
			INQUIRY JCB					5
			1622 JCBM0SARC EQU X'01'					1680
			TERMINATION - DISPLAY RETURN CODE					5
			1623					1681 JCB0SLOB EQU
			SPACE					5
		11	1624 JCB0INLK EQU JCBOSCH3+1				11	1682
			SCHEDULER INTERLOCK BYTE					5
			1625 JCBMSLOG EQU X'80'					1683 JCB0RTCD EQU
			SYSLOG TRANSIENT CALLED					5
			1626 JCBMSYSN EQU X'40'					1684
			SYSIN TRANSIENT CALLED					5
		12	1627 JCBM0KAL EQU X'20'				12	1685 JCB0EXT0 EQU
			DISKETTE FILE ALLOCATED, BUT NOT CLOSED					5
			1628 JCBM0VDC EQU X'10'					1686
			DISKETTE VTOC ON DISK					5
			1629 JCBM0VDU EQU X'08'					1687 JCB0PRG1 EQU
			DISKETTE VTOC UPDATED					5
		13	1630 JCBM0CSN EQU X'04'				13	1688 JCB0PRG2 EQU
			RESUME - CALL #CSN					5
			1631 JCBM0SELT EQU X'02'					1689 JCB0USR1 EQU
			AUTO-LOADER DISKETTE SELECTED					5
			1632 JCBM0SET EQU X'01'					1690 JCB0USR2 EQU
			RESET STATEMENT RECEIVED					5
			1633					1691 JCB0PG11 EQU
			SPACE					5
		14	1634 JCB0UPSI EQU JCB0INLK+1				14	1692 JCB0PG2L EQU
			UPSI SWITCH BYTE					5
			1635 JCB0UPSI EQU X'80'					1693 JCB0UR1L EQU
			UPSI SWITCH ONE					5
			1636 JCB0UPSI EQU X'40'					1694 JCB0UR2L EQU
			UPSI SWITCH TWO					5
		15	1637 JCB0UPSI EQU X'20'				15	1695
			UPSI SWITCH THREE					5
			1638 JCB0UPSI EQU X'10'					1696 JCB0UR1L EQU
			UPSI SWITCH FOUR					5
			1639 JCB0UPSI EQU X'08'					1697 JCB0UR1L EQU
			UPSI SWITCH FIVE					5
		16	1640 JCB0UPSI EQU X'04'				16	1698
			UPSI SWITCH SIX					5
			1641 JCB0UPSI EQU X'02'					1699 JCB0UR1D EQU
			UPSI SWITCH SEVEN					5
			1642 JCB0UPSI EQU X'01'					1700
			UPSI SWITCH EIGHT					5
		17	1643				17	1701 JCB0UR1G EQU
			SPACE					5
			1644 JCB0UR1D EQU JCB0UPSI+3					1702
			SESSION DATE					5
			1645					1703 JCB0UR1D EQU
			SPACE					5
		18	1646 JCB0UR1D EQU JCB0UR1D+3				18	1704
			PROGRAM DATE					5
			1647					1705 JCB0SLLC EQU
			SPACE					5
		19	1648 JCB0SLST EQU JCB0UR1D+2				19	
			SYSLIST INDICATOR - PRINTER ID					
			1649 JCB0SLOFF EQU X'0000'					
			X'0000' = OFF					
			1650 JCB0SLCRT EQU X'EEEE'					
			X'EEEE' = CRT					
20							20	

A32



15	3673	TWAPUSS	EQU	12	USER SAVE AREA (12-22)
16	3674	TWAPINQ	EQU	23	INQUIRY SAVE AREA (23-33)
	3675	TWAPLGO	EQU	34	LOGICAL I/O RESERVED AREA (34-44)
	3676	*		44	TAG 44- END OF SAVE/RESTORE AREAS
17	3677	TWAPUSS	EQU	45	TAG 45- WORK STATION CONFIGURATION
	3678	TWAPCOM	EQU	46	TAG 46- COMMUNICATIONS CONFIGURATION
	3679	TWAPLOGR	EQU	47	TAG 47- SYSLOG RESPONSE DATA
18	3680	TWAPLOGC	EQU	48	TAG 48- SYSLOG COMMUNICATIONS TO CONSOLE
	3681	TWAPTRQ	EQU	49	TAG 49- TASK MESSAGE QUEUE AREA
	3682	*		54	TAG 54- END OF MESSAGE QUEUE AREA
19	3683	TWAPDCLC	EQU	55	TAG 55- OCL COMMAND SAVE AREA
	3684	TWAPLAT	EQU	56	TAG 56- TRANSLATE TABLE AREA
	3685	TWAPRRMG	EQU	57	TAG 57- DUAL MESSAGE ROUTING AREA
20					

3728	XFERCTL	EQU	X'10'
3729	XMTPRIV	EQU	X'20'
3730	XMTAREAS	EQU	X'08'
3731	XMTAREAE	EQU	X'0F'
3732	XFERIADN	EQU	X'08'
3733	XFEREADN	EQU	X'04'
3734	XFEREBON	EQU	X'02'
3735	XFEREPON	EQU	X'01'
3736	*****		
3737	* 'SYSTEM' TRANSIENT		
3738	*****		
3739	RRSVDOO	EQU	X'00'
3740	RFIND	EQU	X'01'

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IF	DO	LINE	SOURCE					
		1651	SPACE					
		1652	JCBDCRLB EQU	JCBDSLST+2	CURRENT LIBRARY F1 POINTER			
		1653	JCBDFSB	EQU	JCBDCRLB+2	LIBRARY FSB CHAIN POINTER		
		1654	SPACE					
		1655	JCBDFSB	EQU	JCBDFSB+2	FILE FSB CHAIN POINTER		
		1656	SPACE					
		1657	JCBWSBP	EQU	JCBDFSB+2	WSB CHAIN POINTER		
		1658	SPACE					
		1659	JCBPSBP	EQU	JCBWSBP+2	PSB CHAIN POINTER		
		1660	SPACE					
		1661	JCB01PRC	EQU	JCBPSBP+8	NAME OF FIRST LEVEL PROCEDURE		
		1662	*		(MRT PROCEDURE NAME IF JCBMVRT IS ON AND			
		1663	*		THIS JCB IS POINT'ED TO BY THE MRT'S TCR)			
		1664	SPACE					
		1665	JCB0PROG	EQU	JCB01PRC+8	PROGRAM NAME		
		1666	SPACE					
		1667	JCB0STAT	EQU	JCB0PROG+1	STATUS BYTE		
		1668	JCBMVRT	EQU	X'00'	WAITING FOR PRINTER		
		1669	JCBMLIN	EQU	X'40'	WAITING FOR COMMUNICATION LINE		
		1670	JCBMOKT	EQU	X'20'	WAITING FOR DISKETTE		
		1671	JCBMDSK	EQU	X'10'	WAITING FOR DISK SPACE		
		1672	JCBMINT	EQU	X'08'	INITIATOR WAITING FOR RESOURCES		
		1673	JCBMVRT	EQU	X'04'	WAITING FOR A MRT OVER MRTPRX		
		1674	JCBMSLOP	EQU	X'02'	HALT PENDING TO SYSTEM OPERATOR		
		1675	JCBMEXTD	EQU	X'01'	FILE EXTENSION IN PROCESS		
		1676	SPACE					
		1677	JCB0RESZ	EQU	JCB0STAT+1	REGION SIZE (STEP)		
		1678	SPACE					
		1679	JCB0CTAG	EQU	JCB0RESZ+1	CURRENT TAG IN PPSA		
		1680	SPACE					
		1681	JCB0SLOB	EQU	JCB0CTAG+2	SYSLIST IOB ADDRESS		
		1682	SPACE					
		1683	JCB0RTCD	EQU	JCB0SLOB+2	RETURN CODE (MIC)		
		1684	SPACE					
		1685	JCB0EXTA	EQU	JCB0RTCD+2	JCB EXTENSION ADDRESS		
		1686	SPACE					
		1687	JCB0PRG1	EQU	JCB0EXTA+2	RELATIVE SS OF PROGRAM1 MESSAGE MEMBER		
		1688	JCB0PRG2	EQU	JCB0PRG1+2	RELATIVE SS OF PROGRAM2 MESSAGE MEMBER		
		1689	JCB0USR1	EQU	JCB0PRG2+2	RELATIVE SS OF USER1 MESSAGE MEMBER		
		1690	JCB0USR2	EQU	JCB0USR1+2	RELATIVE SS OF USER2 MESSAGE MEMBER		
		1691	JCB0PG1L	EQU	JCB0USR2+2	PROGRAM1 LIBRARY FORMAT-1 ADDRESS		
		1692	JCB0PG2L	EQU	JCB0PG1L+2	PROGRAM2 LIBRARY FORMAT-1 ADDRESS		
		1693	JCB0UR1L	EQU	JCB0PG2L+2	USER1 LIBRARY FORMAT-1 ADDRESS		
		1694	JCB0UR2L	EQU	JCB0UR1L+2	USER2 LIBRARY FORMAT-1 ADDRESS		
		1695	SPACE					
		1696	JCB0MENU	EQU	JCB0UR2L+2	RELATIVE SS OF MENU MESSAGE MEMBER		
		1697	JCB0MENL	EQU	JCB0MENU+2	MENU LIBRARY FORMAT-1 ADDRESS		
		1698	SPACE					
		1699	JCB0JOBID	EQU	JCB0MENL+2	JOB NAME (ID)		
		1700	SPACE					
		1701	JCB0LNPG	EQU	JCB0JOBID+1	LINES/PAGE		
		1702	SPACE					
		1703	JCB0FFND	EQU	JCB0LNPG+4	FORMS NUMBER		
		1704	SPACE					
		1705	JCB0SLLC	EQU	JCB0FFND+1	SYSLIST CRI LINE COUNTER		

01	1706	SPACE
02	1707	JCB0NFTF EQU
	1708	SPACE
	1709	JCBDFIND EQU
	1710	SPACE
03	1711	JCB0CIB0 EQU
	1712	SPACE
	1713	JCB0DTF0 EQU
04	1714	SPACE
	1715	JCB0SLLR EQU
	1716	SPACE
05	1717	JCB0DFRG EQU
	1718	SPACE
	1719	JCB0JBRG EQU
06	1720	SPACE
	1721	JCB0MEHF EQU
07	1722	JCB0JQST EQU
	1723	JCB0SPID EQU
	1724	SPACE
08	1725	JCB0JOB0 EQU
	1726	SPACE
	1727	JCB0SCH5 EQU
09	1728	JCB0LANG EQU
	1729	JCB0SYLB EQU
	1730	JCB0SLMG EQU
10	1731	JCB0L ST EQU
	1732	JCB0M CT EQU
	1733	JCB0M CP EQU
11	1734	* EQU
	1735	* EQU
	1736	* EQU
	1737	SPACE
12	1738	JCB0SCH4 EQU
	1739	JCB0MPLK EQU
13	1740	JCB0FLIS EQU
	1741	JCB0PGLS EQU
	1742	JCB0INTK EQU
14	1743	JCB0SVAL EQU
	1744	JCB0MPPR EQU
	1745	JCB0SPPK EQU
15	1746	JCB0EIB0 EQU
	1747	SPACE
	1748	JCB0CSBP EQU
16	1749	SPACE
	1750	JCB0USER EQU
	1751	SPACE
17	1752	JCB0DFND EQU
	1753	JCB0DCLA EQU
	1754	SPACE
18	1755	JCB0LNTH EQU
	1756	SPACE
	1757	*****
19	1758	*
	1759	*
	1760	*
20		

15	3728	XFERCTL EQU X'10'	TRANSFER CONTROL ROUTINE
16	3729	XNTPRIV EQU X'20'	PRIVILEGED TRANSIENT
16	3730	XNTAREAS EQU X'08'	FIRST SECTOR IN TRANSIENT AREA(HIGH)
16	3731	XNTAREAE EQU X'0F'	LAST SECTOR IN TRANSIENT AREA (HIGH)
17	3732	XFERAON EQU X'08'	TAR TRANSLATION ON
17	3733	XFERAON EQU X'04'	SET EA ON TRANSFER CONTROL
17	3734	XFEREDON EQU X'02'	SET EB ON TRANSFER CONTROL
18	3735	XFERAPON EQU X'01'	SET ON WRITE PROTECT(NON-PRIVLEDGED)
18	3736	*****	*****
18	3737	* 'SYSTEM' TRANSIENT RIB EQUATES (I.E., IMPLICIT DISK ADDR, LENGTH) *	*
18	3738	*****	*****
19	3739	RRSVDOO EQU X'00'	RESERVED
19	3740	RFIND EQU X'01'	FIND
20			

15	3783	RCMD EQU X'2C'	
16	3784	RIOERR EQU X'2D'	
16	3785	REXTND EQU X'2E'	
16	3786	RUPDAT EQU X'2F'	
17	3787	RCHKPT EQU X'30'	
17	3788	RSPMIC EQU X'31'	
17	3789	RICDA EQU X'32'	
18	3790	RICDB EQU X'33'	
18	3791	RICDC EQU X'34'	
18	3792	RSVIX EQU X'35'	
19	3793	RSORT EQU X'36'	
19	3794	REXTRA EQU X'37'	
19	3795	RMDL EQU X'38'	
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01	IF DO	LINE	SOURCE					
		1706	SPACE					
02		1707	JCBONFTF EQU JCBOSLLC+1	NUMBER OF FORMATS FOUND				
		1708	SPACE					
		1709	JCBDFIND EQU JCBONFTF+2	ADDRESS OF FORMAT INDEX				
		1710	SPACE					
03		1711	JCBDCIBB EQU JCBDFIND+2	ADDRESS OF COMPILER INFORMATION BLOCK				
		1712	SPACE					
04		1713	JCBDOITF# EQU JCBDCIBB+2	ADDRESS OF FIRST DTF ON CHAIN				
		1714	SPACE					
		1715	JCBOSLLR EQU JCBDOITF#+1	SYSLIST CRT LINES REQUESTED				
		1716	SPACE					
05		1717	JCBDFR# EQU JCBOSLLR+1	REGION SIZE (DEFAULT)				
		1718	SPACE					
		1719	JCBDJBR# EQU JCBDFR#+1	REGION SIZE (JOB)				
		1720	SPACE					
06		1721	JCBDMEN# EQU JCBDJBR#+7	MENU FORMAT INDEX (NON-RELEASED WS JOBS)				
		1722	JCBDJQST EQU JCBDJBR#+3	JOB QUEUE JOB START TIME (JOBQ JOBS)				
07		1723	JCBOSPID EQU JCBDJQST+2	SESSION PRINTER ID (RELEASED WS JOBS)				
		1724	SPACE					
		1725	JCBDJOB# EQU JCBDMEN#+3	JOB NAME (TIME STAMP)				
08		1726	SPACE					
		1727	JCBOSCH# EQU JCBDJOB#+1	SCHEDULER BYTE FIVE				
		1728	JCBDLANG EQU JCBOSCH#	LANGUAGE COMPILER BYTE				
09		1729	JCBMSYLB EQU X'80'	SEARCH SYSTEM LIBRARY ONLY				
		1730	JCBMSL# EQU X'40'	SYSLIST END MESSAGE REQUIRED				
		1731	JCBPLST EQU X'20'	LIST RPG				
10		1732	JCBMXT EQU X'10'	SYSLIST 'MEXTN' SPECIFIED				
		1733	JCBM1CP EQU X'08'	15 CPI SPECIFIED ON FORMS STATEMENT				
		1734	* EQU X'04'					
11		1735	* EQU X'02'					
		1736	* EQU X'01'					
		1737	SPACE					
12		1738	JCBOSCH# EQU JCBDLANG+1	SCHEDULER BYTE FOUR				
		1739	JCBMFLK EQU X'80'	JCB TERMINATION INTERLOCK				
		1740	JCBMFLS EQU X'40'	FLUSH INLINE SOURCE				
13		1741	JCBMPLS EQU X'20'	PROGRAM HAS INLINE SOURCE				
		1742	JCBMINTK EQU X'10'	INITIATOR DID NOT INITIATE THIS TASK				
		1743	JCBMSRNL EQU X'08'	SECURED RESOURCE ALLOCATED BY THIS PRT				
14		1744	JCBMVR# EQU X'04'	EVOKED PROCEDURE				
		1745	JCBMSPK EQU X'02'	SET SPOOL FILE EOF AT LAST CHECK POINT				
		1746	JCBMETB EQU X'01'	ERROR INFORMATION BLOCK PRESENT (ETB)				
15		1747	SPACE					
		1748	JCBOSBP EQU JCBOSCH#+2	CSB CHAIN POINTER				
		1749	SPACE					
16		1750	JCBUSER EQU JCBOSBP+8	USER ID				
		1751	SPACE					
		1752	JCBDFR# EQU JCBUSER+2	SYSIN BUFFER ADDRESS				
17		1753	JCBDLCL# EQU JCBUSER+2	LOCAL DATA AREA ADDRESS				
		1754	SPACE					
		1755	JCBLLNTH EQU JCBDFR#+1	LENGTH OF A JOB				
18		1756	SPACE					
		1757	*****	*****				
		1758	* *					
19		1759	* JCB EXTENSION					
		1760	* *					
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01	IF DO	LINE
		1761 *****
		1762 SPACE 1
02		1763 JCBOSB# EQU 1
		1764 JCBOSCB# EQU JCBOSB#
		1765 JCBPLST EQU JCBOSB#
03		1766 SPACE 1
		1767 JCBOLP# EQU JCBOSB#
		1768 JCBMLP# EQU X'04'
04		1769 JCBMLPI EQU X'06'
		1770 JCBMLPI EQU X'08'
		1771 SPACE 1
05		1772 JCBORSV EQU JCBOSB#
		1773 JCBDELNG EQU JCBORSV
		1774 *** END OF EXPANSION
06		1775 * NUCEQ
		1776 *****
		1777 *
07		1778 *****
		1779 *****
08		1780 * ADDR NAME
		1781 *****
		1782 * 0000 FIXED NUCL
09		1783 *****
		1784 *****
		1785 * 0000 SYSTEM COM
		1786 *
10		1787 * 0100 ACE QUEUE
		1788 *
		1789 * 0100 MULTI-PURP
11		1790 *
		1791 * 01E0 CS TRANSIE
		1792 *
12		1793 * 0200 COMMAND PR
		1794 *
		1795 * 0280 TASK WORK
13		1796 *
		1797 * 02A3 TASK WORK
		1798 *
14		1799 * 02A6 DISKETTE EP
		1800 *
		1801 * 02E0 SYSTEM LIB
15		1802 *
		1803 * 0300 A/D TRACE
		1804 *
16		1805 * 0310 ALTERNATE S
		1806 *
		1807 * 0320 STATISTICAL
17		1808 *
		1809 * 0330 INTERVAL T
		1810 *
18		1811 * 0340 MSP ERROR
		1812 *
		1813 * 0350 SWAP ACE
19		1814 *
		1815 * 0360 MS TRANSIE
20		

16	3783	RCMD	EQU	X'2C'	COMMAND DCL INTERFACE		
	3784	RIERR	EQU	X'2D'	I/O ERROR TRANSIENT		
	3785	REXTND	EQU	X'2E'	EDF EXTEND TRANSIENT		
	3786	RUPDAT	EQU	X'2F'	EDF UPDATE TRANSIENT		
17	3787	RCHKPT	EQU	X'30'	CHECKPOINT TRANSIENT		
	3788	RSPMIC	EQU	X'31'	SPOOL TRANSIENT		
	3789	RICDA	EQU	X'32'	ICF (CVC)	4	
18	3790	RICDB	EQU	X'33'	ICF (CVC)	4	
	3791	RICDC	EQU	X'34'	ICF (CVC)	4	
	3792	RSVTX	EQU	X'35'	TMA EXTENSION	3	
19	3793	RSORT	EQU	X'36'	SORT TRANSIENT	4	
	3794	REXTRA	EQU	X'37'	EXTENDED TRACE	4	
	3795	RDDL	EQU	X'38'	WSDM TRANSIENT	4	
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01	IF DO	LINE	SOURCE							
		1761	*****							
		1762	SPACE 1							
02		1763	JCBOSB@	EQU	1	SESSION SPECIFICATION BLOCK POINTER				
		1764	JCBCCB@	EQU	JCBOSB@+2	CHECK POINT CONTROL BLOCK POINTER				
		1765	JCBPLST	EQU	JCBCCB@+2	PHONE LIST CHAIN POINTER				
03		1766	SPACE 1							
		1767	JCBPLP#	EQU	JCBPLST+1	LPI VALUE				
04		1768	JCBMLPI	EQU	X'04'	4 LPI SPECIFIED ON FORMS STATEMENT				
		1769	JCBMLPI	EQU	X'06'	6 LPI SPECIFIED ON FORMS STATEMENT				
		1770	JCBMLPI	EQU	X'08'	8 LPI SPECIFIED ON FORMS STATEMENT				
		1771	SPACE 1							
05		1772	JCBORSV	EQU	JCBPLP#+9	RESERVED AREA				
		1773	JCBDELNG	EQU	JCBORSV+1	LENGTH OF JOB EXTENSION				
		1774	*** END OF EXPANSION **							
06		1775	*	NUCEQ	MAIN STORAGE NUCLEUS EQUATES		01020000			
		1776	*****							
		1777	*	MAIN STORAGE NUCLEUS			*			
07		1778	*****							
		1779	*****							
08		1780	*	ADDR	NAME	SIZE (HEX)	SIZE (DEC)	LABEL *		
		1781	*****							
		1782	*	0000	FIXED NUCLEUS	1000	4096	NUFIXNRC *		
09		1783	*****							
		1784	*****							
		1785	*	0000	SYSTEM COMMUNICATION AREA	0100	256	NUISCA *		
		1786	*	*****						
10		1787	*	0100	ACE QUEUE HEADERS	00C0	192	NUACEQH *		
		1788	*	*****						
		1789	*	01C0	MULTI-PURPOSE IOB	0020	32	NUMPJOB *		
11		1790	*	*****						
		1791	*	01E0	CS TRANSIENT LOADER IOB	0020	32	NUMCTOB *		
		1792	*	*****						
12		1793	*	0200	COMPND PROCESSOR TCB	0080	128	NUMCPTCB *		
		1794	*	*****						
		1795	*	0280	TASK WORK AREA INDEX	0023	35	NUMTANGL *		
13		1796	*	*****						
		1797	*	02A3	TASK WORK AREA QUEUE HDR	0005	5	NUMTANQ *		
		1798	*	*****						
14		1799	*	02AB	DISKETTE ERROR LOG AREA	0038	56	NUMD10B *		
		1800	*	*****						
		1801	*	02E0	SYSTEM LIBRARY FORMAT-1	0020	32	NUMPLF1 *		
15		1802	*	*****						
		1803	*	0300	A/D TRACE ACE	0010	16	NUMTRNCE *		
		1804	*	*****						
16		1805	*	0310	ALTERNATE SECTOR ACE	0010	16	NUMBRNCE *		
		1806	*	*****						
		1807	*	0320	STATISTICAL LOGOUT ACE	0010	16	NUMBLNCE *		
17		1808	*	*****						
		1809	*	0330	INTERNAL TIMER ACE	0010	16	NUMTRNCE *		
		1810	*	*****						
18		1811	*	0340	MSP ERROR ACE	0010	16	NUMBRNCE *		
		1812	*	*****						
19		1813	*	0350	SNAP ACE	0010	16	NUMBRNCE *		
		1814	*	*****						
		1815	*	0360	MS TRANSIENT LOADER ACE	0030	16	NUMBRNCE *		
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01	IF DO	LINE
		1816 *
02		1817 * 0370 DISKETTE
		1818 *
		1819 * 0380 ERROR TAS
		1820 *
03		1821 * 0390 DISPATCH
		1822 *
04		1823 * 0398 MIDNIGHT
		1824 *
		1825 * 03A0 STATISTIC
		1826 *
05		1827 * 03AB SOS FAILU
		1828 *
		1829 * 03B0 TERMINATE
06		1830 *
		1831 * 03D0 TERMINATE
		1832 *
07		1833 * 03E0 PERMANENT
		1834 *
		1835 * 03F0 IPL ASSIG
08		1836 *
		1837 * 0700 TRACE LOG
		1838 *
09		1839 * 0700 ALTER/DIS
		1840 *
		1841 * 07C0 IPL ENDR
10		1842 *
		1843 * 0800 MS TRANSI
		1844 *
11		1845 *
		1846 *
		1847 * 1000 VARIABLE
12		1848 *
		1849 *
		1850 * 2000 LOAD ADDR
13		1851 *
		1852 *
		1853 * EJECT
14		1854 *
		1855 * NUFIXNRC EQU X'0
		1856 *
15		1857 * NUISCA EQU NUF
		1858 * NUISCA EQU 256
		1859 *
16		1860 * NUMCPTCB EQU NUM
		1861 * NUMCPTCB EQU 192
		1862 *
17		1863 * NUMPJOB EQU NUM
		1864 * NUMPJOB EQU 32
		1865 *
18		1866 * NUMCTOB EQU NUM
		1867 *
19		1868 * NUMD10B EQU NUM
		1869 * NUMD10B EQU X'0
20		1870 * NUMTRNCE EQU 128

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SPL/3	VERSION	08/28/80		PAGE	34	TIME	02:15	DATE	81/12/08
IF	DO	LINE	SOURCE						
01		1816 *							
		1817 * 0370	DISKETTE ERROR ACE	0010	16			NUMTEACE *	
02		1818 *							
		1819 * 0380	ERROR TASK-TASK ACE	0010	16			NUMCSETC *	
		1820 *							
03		1821 * 0390	DISPATCHER TQE	0008	8			NUMDSTQE *	
		1822 *							
		1823 * 0398	MIDNIGHT TQE	0008	8			NUMMNTQE *	
04		1824 *							
		1825 * 03A0	STATISTICAL LOGGING TQE	0008	8			NUMDLTQE *	
		1826 *							
05		1827 * 03A8	SQS FAILURE TQE	0008	8			NUMATQE *	
		1828 *							
		1829 * 03B0	TERMINATION DUMP IOB	0020	32			NUMDPTIOB *	
06		1830 *							
		1831 * 03D0	TERMINATION DUMP ACE	0010	16			NUMDSPACE *	
		1832 *							
07		1833 * 03E0	PERMANENT SWAP ACE	0010	16			NUMSPACE *	
		1834 *							
		1835 * 03F0	IPL ASSIGN/FREE AREA	0310	784			NUMIPLAF *	
08		1836 *							
		1837 * 0700	TRACE LOGOUT BUFFER AND	0100	256			NUMTRBUF *	
		1838 *							
09		1839 * 0700	ALTER/DISPLAY WORK AREA	00C0	192			NUMADWRK *	
		1840 *							
		1841 * 07C0	IMPL ERROR LOG SAVE AREA	0040	64			NUMBAD2K *	
10		1842 *							
		1843 * 0800	MS TRANSIENT AREA	0800	2048			NUMKIENT *	
		1844 *							
11		1845	*****						
		1846	*****						
		1847 * 1000	VARIABLE NUCLEUS					NUMVARNUC	
12		1848	*****						
		1849	*****						
		1850 * 2000	LOAD ADDRESS FOR IPL DISKETTE					NUMLOADI *	
13		1851	*****						
		1852	*****						
		1853	EJECT						
14		1854 *							
		1855	NUMIXNUC EQU X'000' MAIN STC <sub>2</sub> NUCLEUS - FIXED AREA						
		1856 *							
15		1857	NUMSCA EQU NUMIXNUC SYSTEM COMMUNICATION AREA						
		1858	NUMSCA EQU 256 * (LENGTH OF AREA)						
		1859 *							
16		1860	NUMACEQH EQU NUMSCA+NUMSCA SYSTEM QUEUE HEADERS						
		1861	NUMACEQH EQU 192 * (LENGTH OF AREA)						
		1862 *							
17		1863	NUMMPTIOB EQU NUMACEQH+NUMACEQH MULT.-PURPOSE IOB						
		1864	NUMLENIOB EQU 32 * (LENGTH OF A DISK IOB)						
		1865 *							
18		1866	NUMCXIOB EQU NUMMPTIOB+NUMLENIOB CS TRANSIENT LOADER IOB						
		1867 *							
		1868	NUMCPTCB EQU NUMCXIOB+NUMLENIOB COMMAND PROCESSOR TCB						
19		1869	NUMCPTAH EQU X'02' COMMAND PROCESSOR TCB (HIGH)						
		1870	NUMCPTCB EQU 128 * (LENGTH OF AREA)						

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3875	BN	DTWACHAN
3876	L	DTWACHAN
3877	B	DTWACHAN
3878	DTWACHAN	DTWACHAN
3879	*	GPOST
3880	SVC	SVCPOST
3881	DC	ALI(TCBSM
3882	DC	ALI(O)
3883	****	END OF EXPANSION **
3884	J	DTWACHAN
3885	DTWACHAN	DTWACHAN
3886	DTWACHAN	DTWACHAN
3887	DTWACHAN	DTWACHAN
3888	DTWACHAN	DTWACHAN

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SPL/3	VERSION	08/28/80	PAGE	35	TIME	02:15	DATE	81/12/08	
01	IF DO	LINE	SOURCE						
		1871	*						
02		1872	NUMTMAX EQU	NUMCPTCB+NUMCPTCB	TASK WORK AREA INDEX (LEFT)				
		1873	MULTMAX EQU	35	(LENGTH OF AREA)(280 ENTRIES)				
		1874	NUMTMAXR EQU	NUMTMAXL+MULTMAX-1	TASK WORK AREA INDEX (RIGHT)				
03		1875	*						
		1876	* NOTE:	TASK WORK AREA SPACE IS INDICATED BY 8 TRACKS PER					
		1877	* BYTE.	THE RIGHT BYTE INDICATES THE START OF THE TASK					
		1878	* WORK	AREA ON THE DISK.					
04		1879	*						
		1880	NUMTWAQ EQU	NUMTMAXL+MULTMAX	TASK WORK AREA QUEUE ELEMENT				
		1881	MULTWAQ EQU	5	(LENGTH OF AREA)				
05		1882	*						
		1883	NUMRDIOB EQU	NUMTWAQ+MULTWAQ	SYSTEM DISKETTE IOB/LOGOUT AREA				
		1884	MULTRDIOB EQU	56	* (LENGTH OF AREA)				
06		1885	*						
		1886	NUMMLBF1 EQU	NUMRDIOB+MULTRDIOB	*LIBRARY RESIDENT FORMAT-1				
		1887	MULTMLBF1 EQU	32	* (LENGTH OF AREA)				
07		1888	*						
		1889	NUMTRACE EQU	NUMMLBF1+MULTMLBF1	TRACE LOGOUT ACE				
		1890	MULTACE EQU	16	* (LENGTH OF AN ACE)				
08		1891	*						
		1892	NUMRACE EQU	NUMTRACE+MULTACE	ALTERNATE SECTOR ACE				
		1893	*						
09		1894	NUMLGACE EQU	NUMRACE+MULTACE	STATISTICAL LOGGING ACE				
		1895	*						
		1896	NUMTIACE EQU	NUMLGACE+MULTACE	INTERVAL TIMER ACE				
10		1897	*						
		1898	NUMPACE EQU	NUMTIACE+MULTACE	MSP PROC CHECK ERROR HANDLER ACE				
		1899	*						
11		1900	NUMSWACE EQU	NUMPACE+MULTACE	ACE FOR SWAP IOB				
		1901	*						
		1902	NUMXACE EQU	NUMSWACE+MULTACE	ACE FOR MS XIENT SCHEDULER				
12		1903	*						
		1904	NUMTEACE EQU	NUMXACE+MULTACE	ACE FOR DISKETTE ERP				
		1905	*						
13		1906	NUMCSETC EQU	NUMTEACE+MULTACE	CS TASK-TASK ERROR ACE				
		1907	*						
		1908	NUMDSTQE EQU	NUMCSETC+MULTACE	DISPATCHER TQE				
14		1909	MULTQE EQU	8	* (LENGTH OF A TQE)				
		1910	*						
		1911	NUMMNTQE EQU	NUMDSTQE+MULTQE	MIDNIGHT TQE				
15		1912	*						
		1913	NUMDLTQE EQU	NUMMNTQE+MULTQE	STATISTICS DATA LOG TIME Q ELEMENT				
		1914	*						
16		1915	NUMATQE EQU	NUMDLTQE+MULTQE	ASSIGN/FREE FAILUTE TIME Q ELEMENT				
		1916	*						
		1917	NUMDPIOB EQU	NUMATQE+MULTQE	TERMINATION DUMP IOB				
17		1918	*						
		1919	NUMDPACE EQU	NUMDPIOB+MULTQE	TERMINATION DUMP ACE				
		1920	*						
18		1921	NUMSPACE EQU	NUMDPACE+MULTQE	PERMANENT SWAP ACE				
		1922	*						
		1923	NUMPLAF EQU	NUMSPACE+MULTQE	FIXED NUCLEUS FREE AREA #1				
19		1924	*						
		1925	*****	*****					

SPL/3	VERSION	08/28/80	
01	IF DO	LINE	
		1926	*
02		1927	NUMXIENT EQU 2048
		1928	MULTXIENT EQU 2048
		1929	*
03		1930	MULTRBUF EQU 256
		1931	MULTRBUF EQU NUMXIE
		1932	*
04		1933	NUMADURK EQU NUMTRB
		1934	MULTADURK EQU 192
		1935	*
05		1936	NUMBAD2K EQU NUMTRB
		1937	*
		1938	MULTPLAF EQU NUMTRB
06		1939	*
		1940	*****
		1941	*
07		1942	NUMARNUC EQU NUMXIE
		1943	*
		1944	NUMSSSQS EQU NUMARN
		1945	MULTSSSQS EQU 4096
08		1946	*
		1947	NUMLOADI EQU NUMSS
		1948	*
09		1949	*** END OF EXPANSION
		1950	* PPSEQ
		1951	*****
10		1952	*
		1953	* T
		1954	*
11		1955	*****
		1956	SPACE
12		1957	PPSTAGID EQU 0
		1958	SPACE
		1959	PPSFLAG1 EQU PPSTAG
13		1960	PPSPBIT EQU X'80'
		1961	PPSEDFSG EQU X'40'
		1962	PPSNLOG EQU X'20'
		1963	SPACE
14		1964	PPSSGREG EQU PPSFLA
		1965	SPACE
15		1966	PPSPRG1M EQU PPSSGR
		1967	PPSPRG2M EQU PPSPRG
		1968	PPSUSR1M EQU PPSPRG
16		1969	PPSUSR2M EQU PPSUSR
		1970	PPSPRG1L EQU PPSUSR
		1971	PPSPRG2L EQU PPSPRG
17		1972	PPSUSR1L EQU PPSPRG
		1973	PPSUSR2L EQU PPSUSR
		1974	SPACE
18		1975	PPSLIBRA EQU PPSUSR
		1976	SPACE
		1977	PPSSGED0 EQU PPSLIB
19		1978	PPSSGORT EQU PPSSGE
		1979	PPSCORT1 EQU PPSSGC
		1980	PPSCORT2 EQU PPSSGC

B01

01	LYC7 - 1364 - 7	IBM SYSTEM/34 SYSTEM SUPPORT PROGRAMS PRODUCT
02	29 JANUARY 82	PROGNO 5726-SS1 REL: #08-#00
03	COPYRIGHT IBM CORP.	1978 LICENSED MATERIAL - PROPERTY OF IBM
04		

01	PPSCHR 12/07/81 11:51
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14	3871	ALC	DTW0030+1(C,1),DTW0030+1(C,1)	DOUBLE Q-CODE
	3872	BNDL	DTW0020(C,1)	CHECK NEXT TRACK
	3873	A	DTWFFC,1),2	POINT TO NEXT INDEX BYTE
15	3874	SJC	DTW#BYT(1,1),DTW0010+1(C,1)	DECR. INDEX LENGTH
	3875	BH	DTW0010(C,1)	CHECK NEXT BYTE
	3876	L	DTWCHNKC,1),2	XR2-> NEXT ELEMENT
16	3877	B	DTW0005(C,1)	CHECK NEXT ELEMENT
	3878	DTW0030	SBN	0(C,2),0 MARK TRACK FREE
	3879	*	GPOST MASK-TCBSWAIT	POST IN CASE TASK WAITING
17	3880	SVC	SVCGPOST,0	
	3881	DC	AL1(TCBSWAIT)	
	3882	DC	AL1(C0)	
18	3883	****	END OF EXPANSION **	
	3884	J	DTWEND	JUMP AROUND CONSTANTS
	3885	DTWALM	DS	CLS SAVED ELEMENT
19	3886	DTWACHAN	EQU	DTWALM-3 CHAIN ADDRESS
	3887	DTWASS	EQU	DTWACHAN+2 SS VALUE
	3888	DTW#BYT	EQU	DTWASS+1 #BYTES OF INDEX

14	3927	REG(XR2)=XR1->XA	
	3928	XR2->TUBATTR2=OF	
15	3929	XR2->TUBATTR2=OF	
	3930	IF SCADCP52(1:1):	
	3931	DO;	
	3932	REG(XR2)=XR2->	
16	3933	IF ^ZERO,REG(XR2)=	
	3934	XR2->JCB0UPS1	
17	3935	END;	
	3936	GEN;	
	3937	SVC SVCKIEN	
	3938	DC AL2(NIT	
18	3939	@ENDGEN;	
	3940	GENCTITLE '#MSCPR	
	3941	/*	
19	3942	/******	
	3943	/* WAIT FOR FILE REBU	

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IF DO	LINE	SOURCE						
	1926	*						
	1927	NUBXIENT	EQU	2048	MS	TRANSIENT AREA		
	1928	NULXIENT	EQU	2048	*	(LENGTH OF AREA)		
	1929	*						
	1930	NULTRBUF	EQU	256	LENGTH	OF TRACE BUFFER		
	1931	NUBTRBUF	EQU		NUBXIENT-NULTRBUF	TRACE LOGOUT BUFFER		
	1932	*						
	1933	NUBADWRK	EQU		NUBTRBUF	ALTER/DISPLAY WORK AREA		
	1934	NULADWRK	EQU	192	*	(LENGTH OF AREA)		
	1935	*						
	1936	NUBAD2K	EQU		NUBTRBUF+NULADWRK	IPL STORAGE ERROR SAVE AREA		
	1937	*						
	1938	NULIPLAF	EQU		NUBTRBUF-NULIPLAF	LENGTH OF IPL FREE AREA		
	1939	*						
	1940	*****						
	1941	*						
	1942	NUVARNUC	EQU		NUBXIENT+NULXIENT	MAIN STORAGE NUCLEUS - VARIABLE AREA		
	1943	*						
	1944	NUMSSQS	EQU		NUVARNUC	FIXED NUCLEUS FREE AREA #2		
	1945	NULMSSQS	EQU	4096		DEFAULT LENGTH FREE AREA #2		
	1946	*						
	1947	NULOADI	EQU		NUMSSQS+NULMSSQS	LOAD ADDRESS WHEN IPL DISKETTE		
	1948	*						
	1949	***				END OF EXPANSION **		
	1950	*			PPSEQ		01030000	
	1951	*****						
	1952	*					*	
	1953	*				THE PROCEDURE PARAMETER SAVE AREA	*	
	1954	*					*	
	1955	*****						
	1956					SPACE		
	1957	PPSTAGID	EQU	0	SECTOR	TAG FOR TWAG/TWAP		
	1958					SPACE		
	1959	PPSFLAG1	EQU		PPSTAGID+1	FLAGE BYTE		
	1960	PPSCPBIT	EQU	X'80'		PROCEDURE IS SCP		
	1961	PPSEDFSG	EQU	X'40'		E0F RECEIVED FROM SOURCE GET		
	1962	PPSNLOG	EQU	X'20'		DO NOT LOG TO HISTORY FILE		
	1963					SPACE		
	1964	PPSSGREG	EQU		PPSFLAG1+2	SOURCE-GET BEGINNING ADDRESS		
	1965					SPACE		
	1966	PPSPRG1M	EQU		PPSSGREG+2	PROGRAM1 MESSAGE MEMBER @ SAVE AREA		
	1967	PPSPRG2M	EQU		PPSPRG1M+2	PROGRAM2 MESSAGE MEMBER @ SAVE AREA		
	1968	PPSUSR1M	EQU		PPSPRG2M+2	USER1 MESSAGE MEMBER @ SAVE AREA		
	1969	PPSUSR2M	EQU		PPSUSR1M+2	USER2 MESSAGE MEMBER @ SAVE AREA		
	1970	PPSPRG1L	EQU		PPSUSR2M+2	PROGRAM1 LIBRARY F1 @ SAVE AREA		
	1971	PPSPRG2L	EQU		PPSPRG1L+2	PROGRAM2 LIBRARY F1 @ SAVE AREA		
	1972	PPSUSR1L	EQU		PPSPRG2L+2	USER1 LIBRARY F1 @ SAVE AREA		
	1973	PPSUSR2L	EQU		PPSUSR1L+2	USER2 LIBRARY F1 @ SAVE AREA		
	1974					SPACE		
	1975	PPSLIBRA	EQU		PPSUSR2L+2	CURRENT LIBRARY F1 @ SAVE AREA		
	1976					SPACE		
	1977	PPSSGED@	EQU		PPSLIBRA+3	SOURCE-GET END ADDRESS		
	1978	PPSSGCR@	EQU		PPSSGED@+3	SOURCE-GET CURRENT ADDRESS		
	1979	PPSCRT1	EQU		PPSSGCR@-2	* FIRST BYTE OF CURRENT ADDRESS		
	1980	PPSCRT2	EQU		PPSSGCR@	* 2ND 3RD BYTES OF CURRENT ADDR		

SPL/3	VERSION	08/28/80
IF DO	LINE	
	1981	PPSSGBUF EQU PPS
	1982	PPSSGLNR EQU PPS
	1983	SPACE
	1984	PPSUPSI EQU PPS
	1985	SPACE
	1986	PPSNAME EQU PPS
	1987	SPACE
	1988	PPSVAR01 EQU PPS
	1989	SPACE
	1990	PPSVAR02 EQU PPS
	1991	SPACE
	1992	PPSVAR03 EQU PPS
	1993	SPACE
	1994	PPSVAR04 EQU PPS
	1995	SPACE
	1996	PPSVAR05 EQU PPS
	1997	SPACE
	1998	PPSVAR06 EQU PPS
	1999	SPACE
	2000	PPSVAR07 EQU PPS
	2001	SPACE
	2002	PPSVAR08 EQU PPS
	2003	SPACE
	2004	PPSVAR09 EQU PPS
	2005	SPACE
	2006	PPSVAR10 EQU PPS
	2007	SPACE
	2008	PPSVAR11 EQU PPS
	2009	SPACE
	2010	*** END OF EXPANSION
	2011	* REMOTE WOR
	2012	* *****
	2013	*****
	2014	* 00 * 01 *
	2015	* REQ * RCD *
	2016	* * *
	2017	* * *
	2018	* * *
	2019	*****
	2020	SPACE 1
	2021	RAPLREQ EQU 0
	2022	SPACE 1
	2023	* WALID REQU
	2024	RAPLOW EQU X'01
	2025	RAPLOFF EQU X'02
	2026	RAPLAUT EQU X'04
	2027	RAPLGAT EQU X'20
	2028	RAPLCHK EQU X'40
	2029	RAPLTUB EQU X'80
	2030	SPACE 1
	2031	RAPLRCD EQU RAPL
	2032	SPACE 1
	2033	* RETURN COD
	2034	RAPLSUCC EQU X'00
	2035	RAPLDOSP EQU X'01

BO2

01
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03

#MSCPR 12/07/81 11:51	
0001	PL
0002	GEN;
0003	#MSCPR TITLE '#MSC
0004	*****
0005	* MODULE NAME = S
0006	*

SPL/3	VERSION	08/28/80
IF DO	LINE	
	0001	PL
	0002	GEN;
	0003	#MSCPR TITLE '#MSC
	0004	*****
	0005	* MODULE NAME = S
	0006	*

15	1	3929	REGCMZ=>REG1->SUBROUTINE(1:2);	/* SET DATA MODE IN TUB	00145°/ 0180000
15	1	3930	IF SORCPS2(1:1)=ONKSCNVSBL) THEN /* REBUILD REQUEST?	00145°/ 0180000	
15	1	3931	DO;	/* YES, SET JOB UPSI	00145°/ 0190000
15	1	3932	REGCMZ=>REG1->SUBROUTINE(1:2);	/* GET JOB ADDRESS	00145°/ 0191000
16	2	3933	IF *ZEND,REGCMZ)-REGCMZ)-NOO THEN /* ADDRESS OK?	00145°/ 0192000	
16	2	3934	REG1->JOBUPS1=ONK'91';	/* YES, SET UPSI SWITCH	00145°/ 0193000
17	1	3935	END;		0194000
17	1	3936	GEN;	/* CALL ATTACH TRANSIENT #SWAT */	0195000
17	1	3937	SVC SMCIENT, QREFRESH		0196000
18	1	3938	BE ALZKNIPSSATC)		0197000
18	1	3939	SENDGEN;		0198000
18	1	3940	GENKTITLE 'MBCPR - COMMAND PROCESSOR WAIT ROUTINE';		0199000
19	1	3941	/*		0200000
19	1	3942	/*		0201000
19	1	3943	/* WAIT FOR FILE REBUILD TO COMPLETE. AT THAT TIME OTHER TASKS CAN */		0202000

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SPL/3	VERSION	08/28/80	PAGE	37	TIME	02:15	DATE	81/12/08	
01	IF DO	LINE	SOURCE						
		1981	PPSSBUF	EQU	PPSSCRT+2	SOURCE-GET CURRENT BUFFER ADDRESS			
		1982	PPSSLN	EQU	PPSSBUF+1	SOURCE-GET LENGTH OF RECORD			
02		1983	SPACE						
		1984	PPSUPSI	EQU	PPSSLN+1	UPSI SWITCHES			
		1985	SPACE						
03		1986	PPSPNVE	EQU	PPSUPSI+8	PROCEDURE NAME			
		1987	SPACE						
		1988	PPSVAR01	EQU	PPSPNVE+8	VARIABLE 1			
04		1989	SPACE						
		1990	PPSVAR02	EQU	PPSVAR01+8	VARIABLE 2			
		1991	SPACE						
05		1992	PPSVAR03	EQU	PPSVAR02+8	VARIABLE 3			
		1993	SPACE						
		1994	PPSVAR04	EQU	PPSVAR03+8	VARIABLE 4			
06		1995	SPACE						
		1996	PPSVAR05	EQU	PPSVAR04+8	VARIABLE 5			
		1997	SPACE						
07		1998	PPSVAR06	EQU	PPSVAR05+8	VARIABLE 6			
		1999	SPACE						
		2000	PPSVAR07	EQU	PPSVAR06+8	VARIABLE 7			
08		2001	SPACE						
		2002	PPSVAR08	EQU	PPSVAR07+8	VARIABLE 8			
		2003	SPACE						
09		2004	PPSVAR09	EQU	PPSVAR08+8	VARIABLE 9			
		2005	SPACE						
		2006	PPSVAR10	EQU	PPSVAR09+8	VARIABLE 10			
10		2007	SPACE						
		2008	PPSVAR11	EQU	PPSVAR10+8	VARIABLE 11			
		2009	SPACE						
11		2010	*** END OF EXPANSION **						
		2011	*	RWPL					
		2012	*	REMOTE WORKSTATION TUB PROCESSOR TRANSIENT PARAMETER LIST					
12		2013	*****						
		2014	* 00	* 01	* 02	03	* 04	05 06 * 07 *	
		2015	* REQ *	RCD	*<--- WSID --->*	<----- CUID ----->*	LINE *		
13		2016	* *	*	*	*	*	*	
		2017	* *	*	*	*<ATTR->*<--- TUB a --->*	*	*	
		2018	* *	*	*	*	*	*	
14		2019	*****						
		2020	SPACE 1						
		2021	RWPLREQ	EQU	0	REQUEST BYTE.			
15		2022	SPACE 1						
		2023	*	VALID REQUESTS FOR THE REQUEST BYTE.					
		2024	RWPLON	EQU	X'01'	VARY ON.			
16		2025	RWPLOFF	EQU	X'02'	VARY OFF.			
		2026	RWPLAUT	EQU	X'04'	AUTO VARY ON.			
		2027	RWPLGAT	EQU	X'20'	GET ATTRIBUTES.			
17		2028	RWPLCHK	EQU	X'40'	CHECK VALIDITY OF THIS WS ID.			
		2029	RWPLTUB	EQU	X'80'	BUILD OFFLINE PRINTER TUB.			
		2030	SPACE 1						
18		2031	RWPLRCD	EQU	RWPLREQ+1	RETURN CODE.			
		2032	SPACE 1						
		2033	*	RETURN CODES FROM #RWPL					
19		2034	RWPLSUCC	EQU	X'00'	SUCCESSFUL PRINTER/WS/BOTH.			
		2035	RWPLNOSP	EQU	X'01'	DEVICE NOT SUPPORTED.			

B03

SPL/3	VERSION	08/28/80	PAGE	1	TIME	02:15	DATE	81/12/08
01	IF DO	LINE	SOURCE					
		0001	MPL				00010000	
		0002	GEN;				00020000	
02		0003	#MBCPR TITLE '#MBCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION'				00030000	
		0004	*****				00040000	
		0005	*	MODULE NAME = #MBCPR			* 00050000	
03		0006	*				* 00060000	







14	3 2 4091	NR2->JCBOJDK(1:3)=HIPPENI; /#	*/ 03300000
	3 2 4092	NR2->JCBOJDK(1:3)=HIPPENI; /#	*/ 03300000
	3 2 4093	NR2->JCBOJDK(1:2)=NR2->JCBOJDK; /#	*/ 03300000
	3 2 4094	NR2->JCBOJDK(1:2)=NR2->JCBOJDK; /#	*/ 03300000
15	3 2 4095	NR2->JCBOJDK(1:2)=NR2->JCBOJDK; /#	*/ 03300000
	3 2 4096	RESCHRI)=SCADYRUB(1:2); /#	*/ 03370000
	3 2 4097	NR2->JCBOJDK(1:2)=NR2->JCBOJDK; /#	*/ 03300000
16	3 2 4098	/#	*/ 03390000
	3 2 4099	/#	*/ 03400000
	3 2 4100	/# ATTACH A TCB FOR THE AUTOCALL TASK.	*/ 03410000
17	3 2 4101	/#	*/ 03420000
	3 2 4102	/#	*/ 03430000
	3 2 4103	GEN; /#	*/ 03440000
18	3 2 4104	ASSGN LEN-BATLENG, QUEUE=YES	03450000
	3 2 4105	SVC SVCASGN,0 ASSGN REQUEST	
	3 2 4106	DC AL2(BATLENG+4) LENGTH + 4 FOR QUEUEING	
19	3 2 4107	DC AL1(1*X'80') ATTRIBUTES	
	3 2 4108	*** END OF EXPANSION **	
20			

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SPL/3	VERSION	08/28/80	PAGE	40	TIME	02:15	DATE	81/12/08
01	IF DO	LINE	SOURCE					
		2146	SCASIZE EQU SCADPND*1 1 CONTROL STORAGE CONFIGURATION					
		2147	SCAS16K EQU X'04' . X'04' -16K CONTROL STORAGE					
02		2148	* .					
		2149	SCADCFG1 EQU SCASIZE*1 1 SPOOL AND JOBG INDICATORS					
		2150	SCAMAUTO EQU X'80' . X'80' - AUTO WRITER SUPPORTED					
03		2151	* EQU X'40' . X'04' - RESERVED (R8)					
		2152	SCAMSPG EQU X'20' . X'20' - SPOOL ALL PRINTERS (R8)					
		2153	SCAMFACT EQU X'10' . X'10' - SPOOL IS ACTIVE					
04		2154	* (SUPPORTED NOT CANCELLED)					
		2155	SCAMCRAN EQU X'08' . X'08' - SPOOL COMPRESS RUN					
		2156	* (REFORMAT SPOOL FILE AT IPL)					
05		2157	SCAMJQHD EQU X'04' . X'04' - HOLD JOB QUEUE					
		2158	* (DO NOT START AT IPL)					
		2159	SCAMJQFM EQU X'02' . X'02' - REFORMAT JOBG AT IPL					
06		2160	* IF NOT IPL, INPUT JOB QUEUE					
		2161	* HAS BEEN POSTED					
		2162	SCAMSPB EQU X'01' . X'01' - ALLOCATE FILE ON 'B'					
07		2163	* .					
		2164	SCADCFG2 EQU SCADCFG1+1 1 SSP CONFIGURATION OPTIONS					
		2165	SCAMCNAT EQU X'80' . COMMAND LANGUAGE					
08		2166	SCAMPMSF EQU X'40' . PASSWORD SECURITY					
		2167	SCAMJOBG EQU X'20' . JOB QUEUE					
		2168	SCAMSPOL EQU X'10' . SPOOL					
09		2169	SCAMDMX EQU X'08' . DISPLAY STATION DM TRANSIENT					
		2170	SCAMDMR EQU X'04' . DISPLAY STATION DM RESIDENT					
		2171	* NOTE: IF 'DMR' 'DMR' BOTH =1'					
10		2172	* THEN RESIDENT/TRANSIENT					
		2173	* VERSION OF DSDM SELECTED.					
		2174	SCAMMSG EQU X'02' . KEEP INFO. MESSAGES AT EDJ (R4)					
11		2175	SCAMCDE EQU X'01' . COMMAND LANGUAGE IS ENGLISH					
		2176	* .					
		2177	SCADCFG3 EQU SCADCFG2+1 1 COMMUNICATIONS FEATURES (R3)					
12		2178	SCAMBSA EQU X'80' . BSCA					
		2179	SCAMSRJE EQU X'20' . SRJE					
		2180	SCAMRJE EQU X'40' . MRJE					
13		2181	SCAMNA EQU X'10' . SNA					
		2182	SCAMRS EQU X'08' . RMS					
		2183	SCAMICS EQU X'04' . SSP/ICF (R4)					
14		2184	SCAMCAF EQU X'02' . MLCA (R6)					
		2185	SCAMOTTO EQU X'01' . AUTOCALL (R6)					
		2186	* .					
15		2187	SCAMSV EQU SCADCFG3+1 1 SSP CONFIGURATION OPTIONS					
		2188	SCAMD32 EQU X'80' . X'80' - SINGLE PROGRAM MODE					
		2189	SCAMSPM EQU X'40' . X'40' - MLCA SMF ACTIVE (R6)					
16		2190	SCAMSMF EQU X'20' . X'20' - SMF ACTIVE (R4)					
		2191	SCAMCLOG EQU X'10' . X'10' - CONSOLE SYSLOG POSTED					
		2192	SCAMFLG EQU X'08' . X'08' - SECURITY					
17		2193	SCAMCFGS EQU X'04' . X'04' - BUILD CONFIG RECORDS					
		2194	SCAMPIE EQU X'02' . X'02' - PID MODEL INDICATOR					
		2195	SCAMDEAD EQU X'01' . X'01' - DEDICATED EXECUTION					
18		2196	* .					
		2197	SCADREL# EQU SCAMSV+1 1 SYSTEM RELEASE LEVEL					
		2198	SCADMOD# EQU SCADREL#+1 1 SYSTEM MODIFICATION LEVEL					
19		2199	* .					
		2200	SCADCTR EQU SCADMOD#+1 1 COMMUNICATIONS TRACE INDICATORS					

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SPL/3	VERSION	08/28/80	PAGE	4	TIME	02:15	DATE	81/12/08
01	IF DO	LINE	SOURCE					
		0166	* .					
		0167	SENDMP#1 EQU X'08' RETURN LIB F1 ADDR OF MEMBER.					
02		0168	* ONLY WITH REGULAR CALL. THE					
		0169	* START ADDR FIELD IS OVERLAD					
		0170	SENDMP#2 EQU X'04' DO NOT END OR INFO LIB DIR -					

14	1 1 4146	DC
	1 1 4147	MEMBER
	1 4148	END;
15		
16		
17		
18		
19		
20		

SPL/3	VERSION	08/28/80
01	IF DO	LINE
		2201 SCAML4TX EQU
		2202 SCAML3TX EQU
02		2203 SCAML2TX EQU
		2204 SCAML1TX EQU
		2205 SCAML4TR EQU
03		2206 SCAML3TR EQU
		2207 SCAML2TR EQU
		2208 SCAML1TR EQU
04		2209 *
		2210 * THE FOLL
		2211 * SIZE (SE
05		2212 * POSSIBLE
		2213 * FIELDS A
		2214 * RELATION
06		2215 *
		2216 SCASSTWA EQU
		2217 SCATWAS2 EQU
07		2218 *
		2219 SCAFVTOC EQU
		2220 SCAFVTON EQU
08		2221 *
		2222 SCALVTOC EQU
		2223 SCALVTON EQU
09		2224 *
		2225 SCASIOSS EQU
		2226 SCALOGSS EQU
10		2227 *
		2228 SCADSSMS EQU
		2229 SCADSSCS EQU
11		2230 SCADSSIO EQU
		2231 *
		2232 SCACNFG EQU
12		2233 *
		2234 SCASHIST EQU
		2235 SCAMFSIZ EQU
13		2236 SCAMFCUR EQU
		2237 *
		2238 SCAMSG1 EQU
14		2239 SCAMMSG EQU
		2240 SCAMMSG EQU
		2241 SCAMMSG EQU
15		2242 *
		2243 SCADSSJQ EQU
		2244 *
16		2245 SCADSSPR EQU
		2246 *
		2247 *
17		2248 *
		2249 *
		2250 *
18		2251 *
		2252 *
		2253 SCAUSERB EQU
19		2254 SCADSBFP EQU
		2255 *
20		

14	1 1 4146	DC	AL206000000	03040000	14
	1 1 4147	SENDGEN;		03050000	
	1 4148	END;		03060000	
15					
16					
17					
18					
19					
20					

14	4186	NR1->SCA	
	4187	NR1->SCA	
	4188	NR1->SCA	
15	4189	/*	
	4190	/*	
	4191	/* IF A ST	
16	4192	/* AT THIS	
	4193	/* OF ITS	
	4194	/* ITS INIT	
	4195	/*	
17	4196	/*	
	4197	IF SCASYS	
	4198	DO;	
18	4199	SCASYS2	
	4200	REGCNR	
19	4201	NR1->TC	
	4202	DO UNFI	
	4203		
20	4204	REGCNR	

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SPL/3	VERSION	08/28/80	PAGE	41	TIME	02:15	DATE	81/12/08
IF DO	LINE	SOURCE						
01	2201	SCAML4TX EQU	X'80'	EXTENDED TRACE LINE4				
	2202	SCAML3TX EQU	X'40'	EXTENDED TRACE LINE3				
02	2203	SCAML2TX EQU	X'20'	EXTENDED TRACE LINE2				
	2204	SCAML1TX EQU	X'10'	EXTENDED TRACE LINE1				
	2205	SCAML4TR EQU	X'08'	TRACE COMMUNICATIONS LINE 4				
03	2206	SCAML3TR EQU	X'04'	TRACE COMMUNICATIONS LINE 3				
	2207	SCAML2TR EQU	X'02'	TRACE COMMUNICATIONS LINE 2				
	2208	SCAML1TR EQU	X'01'	TRACE COMMUNICATIONS LINE 1				
04	2209	*						
	2210	*		THE FOLLOWING FIELDS DESCRIBE THE DISK ADDRESS (SS) AND				
	2211	*		SIZE (SECTORS) OF VARIOUS WORK AREAS ON THE DISK. WHERE				
05	2212	*		POSSIBLE THE SS HAS BEEN DEFINED AS A 2 BYTE FIELD. THESE				
	2213	*		FIELDS ARE ORDER DEPENDENT AND DESCRIBE A ONE-TO-ONE				
	2214	*		RELATIONSHIP WITH THE SYSTEM CONFIGURATION RECORD, PART-1.				
06	2215	*						
	2216	SCASSTW EQU	SCADCMTR+2 2	SS OF TASK WORK AREA				
	2217	SCATWAS2 EQU	SCASSTW+2 2	SIZE OF TASK WORK AREA				
07	2218	*						
	2219	SCAFVTOC EQU	SCATWAS2+2 2	SECTOR ADDRESS OF DISK VTOC				
	2220	SCAFVTON EQU	SCAFVTOC+2 2	SIZE OF DISK VTOC				
08	2221	*						
	2222	SCAIVTOC EQU	SCAFVTON+2 2	SS OF DISKETTE VTOC WORK AREA				
	2223	SCAIVTON EQU	SCAIVTOC+1 1	SIZE OF DISKETTE VTOC WORK AREA				
09	2224	*						
	2225	SCASIOSS EQU	SCAIVTON+2 2	SS OF SIO TABLE DIRECTORY				
	2226	SCALOGSS EQU	SCASIOSS+2 2	SS OF ERROR TABLE DIRECTORY				
10	2227	*						
	2228	SCADSSMS EQU	SCALOGSS+2 2	SS OF MAIN STORAGE DUMP AREA				
	2229	SCADSSCS EQU	SCADSSMS+2 2	SS OF CONTROL STORAGE DUMP AREA				
11	2230	SCADSSIO EQU	SCADSSCS+2 2	SS OF I/O PROCESSOR DUMP AREA				
	2231	*						
	2232	SCACONFG EQU	SCADSSIO+2 2	SS OF CONFIGURATION RECORD				
12	2233	*						
	2234	SCASHIST EQU	SCACONFG+2 2	START SS OF HISTORY FILE				
	2235	SCAHFSTZ EQU	SCASHIST+2 2	SIZE OF HISTORY FILE				
13	2236	SCAHFCUR EQU	SCAHFSTZ+2 2	SS OF CURRENT HISTORY FILE ENTRY				
	2237	*						
	2238	SCASMSG1 EQU	SCAHFCUR+3 3	SS-1ST LVL SSP MSG MEMB (**MSG1)				
14	2239	SCASMSG EQU	SCASMSG1+3 3	SS-SSP HEADINGS MSG MEMB (**MSG2)				
	2240	SCASMSG EQU	SCASMSG+3 3	SS-SSP WK STATN MSG MEMB (**MSG9)				
	2241	SCASMSG2 EQU	SCASMSG+3 3	SS-2ND LVL SSP MSG MEMB (**MSG4)				
15	2242	*						
	2243	SCADSSJQ EQU	SCASMSG2+3 3	SS OF INPUT JOB QUEUE FILE				
	2244	*						
16	2245	SCADSSPR EQU	SCADSSJQ+3 3	SS OF SPOOL PRIMARY FILE				
	2246	*		BEFORE SPOOL IS INITIALIZED DURING IPL THIS FIELD WILL				
	2247	*		BE INITIALIZED TO ONE OF THE FOLLOWING:				
17	2248	*		X'000000' CANCEL SPOOL.				
	2249	*		X'FF0000' DELETE SPOOL FILE AND CANCEL SPOOL.				
	2250	*		X'00N***' WHERE: N = SPOOL FILE SEGMENT SIZE (BLOCKS-1)				
18	2251	*		*** = NUMBER OF SPOOL FILE SEGMENTS				
	2252	*						
	2253	SCAUSERA EQU	SCADSSPR+2 2	START ADDRESS OF USER STORAGE				
19	2254	SCADS8FP EQU	SCAUSERA+2 2	ADDRESS OF SPOOL BUFFER POOL				
	2255	*						

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SPL/3	VERSION	08/28/80	PAGE	5	TIME	02:15	DATE	81/12/08
IF DO	LINE	SOURCE						
01	0222	* PARMS *	TYPE * XR1 * * XR2 * TC8 *					
	0222	*****						
02	0223	*						
	0224	ADECHAIN EQU	1	CHAIN TO NEXT ACTION CONTROL ELEMENT				
	0225	AFETAP EQU	AFETAPAL2	CHAIN TO NEXT ACTION CONTROL ELEMENT				

SPL/3	VERSION	08/28/80
IF DO	LINE	
01	0276	*****
	0277	
02	0278	
	0279	
	0280	

14	4186	XRI->SCAIPLM(1:8)=XRI->SCAIPLM(1:8); /* RESET /* 0420000
	4187	XRI->SCARDVOL(1:6)=C'IPLIPL'; /* INIT VOLUME LABEL SWR AREA /* 0420000
	4188	XRI->SCASYS1(1:1)=OKSCAIPLC; /* SET IPL PROCESSING COMPLETE /* 0420000
	4189	/* /* 04270000
15	4190	/* /* 0420000
	4191	/* IF A STARTUP PROCEDURE HAS BEEN REQUESTED, IT WILL BE STARTED /* 0420000
	4192	/* AT THIS TIME BY POSTING THE STARTUP TCB (TCB FOR REBUILD) OUT /* 0430000
16	4193	/* OF ITS UNIT. STARTUP TASK HAS BEEN WAITING FOR IPL TO COMPLETE /* 0430000
	4194	/* ITS INITIALIZATION. /* 0430000
	4195	/* /* 0430000
17	4196	/* /* 0430000
	1 4197	IF SCASYS2(1:1)=OKSCAIPUP) THEN /* STARTUP PROCEDURE? 00145 /* 0430000
	1 1 4198	DO; /* YES, RESTART IT 00145 /* 0430000
18	1 1 4199	SCASYS2(1:1)=OFF(SCAIPUP); /* RESET STARTUP FLAG 00145 /* 04370000
	1 1 4200	REG(CR1)=ADDR(NBICPTCB); /* XRI PTR TCB CHAIN 00145 /* 0430000
	1 1 4201	XRI->TCBNSCT=XRI->TCBNSCT+X1; /* CALCULATE NEXT TASK ID /* 0430000
19	1 1 4202	DO UNTIL (XRI->TCBTSKID=TCBIDBLD1) /* FIND STARTUP TCB 00145 /* 04400000
	1 2 4203	XRI->TCBCHAIN=1+0); /* /* 00145 /* 04410000
20	1 2 4204	REG(CR1)=XRI->TCBCHAIN(1:2); /* GET NEXT TCB 00145 /* 04420000

14	1 2 4242 *
	1 2 4243 *
	1 2 4244 *
	1 2 4245 *
15	1 2 4246 *
	1 2 4247 *** EN
	1 2 4248 *
16	1 2 4249 *
	2 2 4250 *
	2 2 4251 *
17	1 2 4252 *
	1 2 4253 *
	1 2 4254 *
18	1 2 4255 *
	1 2 4256 *
	1 2 4257 *
19	1 2 4258 *** EN
	1 2 4259 *
20	

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1	TIME 02:15	DATE 81/12/08
01	IF DO	LINE
	2296	SCADMERP EQU SCADSBFP+2 2 ADDRESS OF MSP ERROR SAVE AREA
02	2297	SCADCPM EQU SCADMERP 2 ADDRESS OF C.P. DISKETTE TOB
	2298	"
	2299	SCADLBF1 EQU SCADMERP+2 2 ADDRESS OF *LIBRARY FORMAT-1
	2260	"
03	2261	SCADF1ST EQU SCADLBF1+2 2 FIRST ACTIVE FORMAT-1 ON CHAIN
	2262	SCAD#TUB EQU SCADF1ST+1 1 NUMBER OF LOCAL CONFIG. TUBS
	2263	"
04	2264	SCADBSCT EQU SCAD#TUB+1 1 NUMBER OF USERS OF BSC DM
	2265	"
	2266	SCADVICE EQU SCADBSCT+2 2 ADDRESS OF DEVICE ALLOC TABLE
05	2267	"
	2268	SCADSEU EQU SCADVICE+2 2 ADDRESS SEU MEMBER CHAIN
	2269	SCADSEU EQU SCADSEU+2 2 SEU QUEUE HEADER
06	2270	SCAIPLW EQU SCADSEU 2 IPL WORK AREA
	2271	"
	2272	SCADSLOG EQU SCADSEU+1 1 SYSLOG ASSIGNED INDICATOR
07	2273	SCAMPRT EQU X'EO' . SYSLOG ASSIGNED TO PRINTER
	2274	SCAMCRT EQU X'IO' . SYSLOG ASSIGNED TO WORK STATION
	2275	"
08	2276	SCASYS1 EQU SCADSLOG+1 1 SYSTEM CONFIGURATION BYTE 5
	2277	SCAMPERR EQU X'80' . X'80' - ERROR IN HISTORY FILE
	2278	SCAIPLC EQU X'40' . X'40' - IPL-PROCESSING COMPLETE
09	2279	SCADVER EQU X'20' . X'20' - IPL-OVERRIDE RECEIVED
	2280	SCAIPLE EQU X'10' . X'10' - IPL-SIGN ON COMPLETE
	2281	SCAMPBLD EQU X'08' . X'08' - IPL-FILE REBUILD
10	2282	SCAMEJCT EQU X'04' . X'04' - SYSLOG EJECT AT EDJ
	2283	SCAMCLOK EQU X'02' . X'02' - CONFIG RECORD LOCK [R3]
	2284	SCAPPREP EQU X'01' . X'01' - PREPARE REQUEST ISSUED
	2285	"
11	2286	SCASYS2 EQU SCASYS1+1 1 SYSTEM CONFIGURATION BYTE 6
	2287	SCAMTBS EQU X'80' . X'80' - COMM TASK BEING ASSIGNED
12	2288	SCAMCHK EQU X'40' . X'40' - MASTER CONSOLE CHECK
	2289	SCAMPLOP EQU X'20' . X'20' - HIGH LEVEL DEDICATION
	2290	SCAIPUP EQU X'10' . X'10' - IPL - STARTUP PROC [R4]
13	2291	SCAMDATE EQU X'08' . X'08' - SYSTEM DATE RECEIVED
	2292	SCAMWC EQU X'04' . X'04' - DDDDDY DATE WORLD TRADE
	2293	SCAMPDM EQU X'02' . X'02' - DDDDDY DATE DOMESTIC
14	2294	SCAMYD EQU X'01' . X'01' - YYYYDD DATE SPECIAL
	2295	"
	2296	* SYSTEM IPL DATE - IN PACKED FORMAT (YY MM DD)
15	2297	SCADYEAR EQU SCASYS2+1 1 SYSTEM YEAR
	2298	SCADWTH EQU SCADYEAR+1 1 SYSTEM MONTH
	2299	SCADAY EQU SCADWTH+1 1 SYSTEM DAY
16	2300	SCADDATE EQU SCADAY 3 SYSTEM DATE (YMD)
	2301	"
	2302	SCADCTUT EQU SCADDATE+1 1 COUNT OF USER TASKS IN SYSTEM
17	2303	"
	2304	SCARDVOL EQU SCADCTUT+6 6 DISKETTE VOLUME LABEL
	2305	"
18	2306	SCADFMT EQU SCARDVOL+1 1 DISKETTE PHYSICAL FORMAT
	2307	SCAIPLA EQU X'80' . X'80' - IPL AUTLOADER FLAG [R3]
	2308	" 0 - IPL DISKETTE, AUTO-YES
19	2309	" 1 - IPL DISKETTE, AUTO-NO
	2310	" X'40' - 2 SIDED - MFM RECORDING
20		

SPL/3	VERSION 08/28/80	PAGE 42	TIME 02:15	DATE 81/12/08
01	IF DO	LINE	SOURCE	
	2311	SCAIP		
02	2312	SCAIP		
	2313	SCAIP		
	2314	SCAIP		
	2315	SCAIP		
03	2316	SCAIP		
	2317	"		
	2318	SCAIP		
04	2319	"		
	2320	SCAIP		
	2321	SCAIP		
05	2322	"		
	2323	SCAIP		
	2324	SCAIP		
06	2325	"		
	2326	"		
	2327	"		
07	2328	SCAIP		
	2329	SCAIP		
	2330	SCAIP		
08	2331	SCAIP		
	2332	SCAIP		
	2333	SCAIP		
09	2334	SCAIP		
	2335	SCAIP		
	2336	SCAIP		
10	2337	"		
	2338	SCAIP		
	2339	SCAIP		
11	2340	SCAIP		
	2341	SCAIP		
	2342	SCAIP		
12	2343	SCAIP		
	2344	SCAIP		
	2345	SCAIP		
13	2346	SCAIP		
	2347	"		
	2348	SCAIP		
14	2349	SCAIP		
	2350	"		
	2351	SCAIP		
15	2352	"		
	2353	SCAIP		
	2354	SCAIP		
16	2355	SCAIP		
	2356	SCAIP		
	2357	"		
17	2358	"		
	2359	"		
	2360	"		
18	2361	"		
	2362	"		
	2363	SCAIP		
19	2364	SCAIP		
	2365	SCAIP		
20				

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01	IF DO
	0276
02	0277
	0278
	0279
	0280

SPL/3	VERSION 08/28/80	PAGE 6	TIME 02:15	DATE 81/12/08
01	IF DO	LINE	SOURCE	
	0276	*****		
	0277	SPACE		
02	0278	* WSP L WSP M PARAMETER LIST EQUATES		
	0279	SPACE 2		
	0280	*		

SPL/3	VERSION 08/28/80
01	IF DO
	0331
02	0332
	0333
	0334

14	1 2 4242 *	TWA	FUNC-PUT, TAG-TWAPPS12, N-1, XL-YES, AREA-WSJA	04690000	
	1 2 4243	SVC	81,0	ISSUE TWA REQUEST	
	1 2 4244	DC	AL1(1+0+4)	FUNCTION BYTE	
	1 2 4245	DC	AL1(TWAPPS12) TAG		
15	1 2 4246	DC	AL1(1)	LENGTH (IN SECTORS)	
	1 2 4247	***	END OF EXPANSION **		
	1 2 4248		RENDGEN;	04700000	
16	1 2 4249	SCADCFG1(1:1)=ONKSCAMJQFM);	/* SET REBUILD COMPLETE	@145*/	04710000
	2 2 4250	IF SCATPLWK+1(1:1)=0 THEN	/* NEED TO SET STARTUP FLAG?	*/	04720000
	2 2 4251	SCATPLWK+1(1:1)=SCAMTUP;	/* YES, SET FLAG	*/	04730000
17	1 2 4252	REG(XR1)=ADDR(NUBCPTCB+TCBTTC-1);	/* XR1 PTR C.P. TTC	@145*/	04740000
	1 2 4253	GEN;			04750000
	1 2 4254 *	POST	DEV-QHD TTC, PREMPT-ND	/* INDICATE REBUILD DONE	@145*/ 04760000
18	1 2 4255	SVC	SVCPOST, QO		
	1 2 4256	DC	AL1(QHD TTC)		
	1 2 4257	DC	AL1(PREMPT+0+0)		
19	1 2 4258	***	END OF EXPANSION **		
	1 2 4259 *	TWAIT	MASK-TCBDMAIT, Q-0	/* WAIT FOR IPL COMPLETE	@145*/ 04770000
20					

4297	DC
4298	DC
4299	DC
4300	DC
4301	SATLOAD EQU
4302	SATFLAG EQU
4303	SATCREAT EQU
4304	SATREAL EQU
4305	SATTUBAS EQU
4306 *	
4307 *	SATNONM EQU
4308 *	
4309	SATDATA EQU
4310 *	
4311	SATPRIV EQU
4312	SATNSHIP EQU
4313	SATFRPRM EQU
4314	SATINIT EQU

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SPL/3	VERSION	08/28/80	PAGE	43	TIME	02:15	DATE	81/12/08
IF DO	LINE		SOURCE					
01	2311	SCAM2FM EQU X'20'	X'20' - 2 SIDED - FM RECORDING					
	2312	SCAM1FM EQU X'10'	X'10' - 1 SIDED - FM RECORDING					
02	2313	SCAM024 EQU X'08'	X'08' - RECORD SIZE = 1024					
	2314	SCAM0512 EQU X'04'	X'04' - RECORD SIZE = 512					
	2315	SCAM0256 EQU X'02'	X'02' - RECORD SIZE = 256					
03	2316	SCAM0128 EQU X'01'	X'01' - RECORD SIZE = 128					
	2317 *							
	2318	SCADKLR EQU SCADKLR+4	4 DISKETTE VOLUME LRC CHARACTERS					
04	2319 *							
	2320	SCATPLWK EQU SCADCTUT	IPL WORK AREA (START)					
	2321	SCATPLWK EQU SCADKLR	IPL WORK AREA (END)					
05	2322 *							
	2323	SCADMTUB EQU SCADKLR+2	2 MASTER CONSOLE TUB ADDRESS					
	2324	SCADPTUB EQU SCADMTUB+2	2 SYSTEM PRINTER TUB ADDRESS					
06	2325 *							
	2326 *	COMMAND	PROCESSOR DISPLACEMENTS AND BIT MASKS					
	2327 *							
07	2328	SCADCP1 EQU SCADPTUB+1	1 SWITCH BYTE ONE					
	2329	SCADCP1 EQU X'80'	STOP COMPLETE MESSAGE SENT					
08	2330	SCADPL EQU X'40'	NO JOBS CAN BE INITIATED					
	2331	SCADJ EQU X'20'	SPOOL WRITER/JOBQ EDJ REQUIRED					
	2332	SCADJ EQU X'10'	WDJ SEND EDJ COMPLETION CODE					
	2333	SCADJ EQU X'08'	SPOOL WRITER HAS BEEN STARTED					
09	2334	SCADJ EQU X'04'	JOB HAS BEEN STARTED					
	2335	SCADJ EQU X'02'	SECURITY IS ACTIVE					
	2336	SCADJ EQU X'01'	CALL I/O ERP TRANSIENT					
10	2337 *							
	2338	SCADCP2 EQU SCADCP1+1	1 SWITCH BYTE TWO					
	2339	SCADKEYS EQU X'80'	KEY SORT ALL FILES AT SHUT DOWN					
11	2340	SCADOUT EQU X'40'	CONSOLE READY TO OUTPUT MESSAGE					
	2341	SCADHELP EQU X'20'	HELP FEATURE ACTIVE (H31)					
	2342	SCADPF EQU X'10'	C. P. USDS ASSIGN FAILURE (H31)					
12	2343	SCADREB EQU X'08'	REBUILD - EXECUTE REBUILD					
	2344	SCADREB EQU X'04'	REBUILD - DELETE FILES IN ERROR					
	2345	SCADREB EQU X'02'	REBUILD - ERASE OLD FILES ALSO					
13	2346	SCADREB EQU X'01'	REBUILD - DISPLAY LABELS IN ERROR					
	2347 *							
	2348	SCADMSG EQU SCADCP2+2	2 MESSAGE ORDER INDEX ADDRESS					
14	2349	SCADSEC EQU SCADMSG+3	3 SSS OF SECURITY FILE					
	2350 *							
	2351	SCADACT EQU SCADSEC+1	1 AUTO-BUFFER DISPLAY COUNT (H31)					
15	2352 *							
	2353	SCADACT EQU SCADACT+1	1 EXTENDED TRACE INDICATORS (H41)					
	2354	SCADACT EQU X'80'	EXTENDED TRACE ACTIVE					
16	2355	SCADLTX EQU X'40'	EXTENDED TRACE LINE 0 (CMDND)					
	2356	SCADLTX EQU X'20'	LOG TRACE LINE 0 (CMDND)					
	2357 *	EQU X'10'	RESERVED					
17	2358 *	EQU X'08'	RESERVED					
	2359 *	EQU X'04'	RESERVED					
	2360 *	EQU X'02'	RESERVED					
18	2361 *	EQU X'01'	RESERVED					
	2362 *							
	2363	SCADACT EQU SCADACT+1	1 DATA MANAGEMENT OPTIONS (H41)					
19	2364	SCADACT EQU X'80'	DELETED RECORD CAPABILITY (H41)					
	2365	SCADACT EQU X'40'	SEQ. FUNC. ADDED REC. BY KEY (H41)					
20								

SPL/3	VERSION	08/28/80
IF DO	LINE	
01	2366 *	EQU
	2367 *	EQU
02	2368 *	EQU
	2369 *	EQU
	2370 *	EQU
03	2371 *	EQU
	2372 *	
	2373	SCADACT EQU
04	2374 *	
	2375	SCADACT EQU
	2376	SCADACT EQU
05	2377	SCADACT EQU
	2378	SCADACT EQU
	2379	SCADACT EQU
06	2380	SCADACT EQU
	2381 *	
	2382	SCADACT EQU
07	2383 *	
	2384	SCADACT EQU
08	2385	SCADACT EQU
	2386 *	
	2387	SCADACT EQU
	2388 *	
09	2389	SCADACT EQU
	2390	SCADACT EQU
	2391	SCADACT EQU
10	2392 *	
	2393	SCADACT EQU
	2394	SCADACT EQU
11	2395	SCADACT EQU
	2396	SCADACT EQU
	2397	SCADACT EQU
12	2398 *	
	2399	SCADACT EQU
	2400	SCADACT EQU
13	2401	SCADACT EQU
	2402	SCADACT EQU
14	2403	SCADACT EQU
	2404	SCADACT EQU
	2405 *	
15	2406	SCADACT EQU
	2407 *	
	2408 *	
16	2409	SCADACT EQU
	2410	SCADACT EQU
	2411	SCADACT EQU
17	2412	SCADACT EQU
	2413 *	
	2414 *	
	2415 *	
18	2416	SCADACT EQU
	2417 *	
	2418 *	
19	2419	SCADACT EQU
	2420 *	
20		

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SPL/3	VERSION	08/28/80	PAGE	7	TIME	02:15	DATE	81/12/08
IF DO	LINE		SOURCE					
01	02381	INPUT	OPERATION					
	02382	INPUT	OPERATION					
02	02383	INPUT	OPERATION					
	02384	INPUT	OPERATION					

SPL/3	VERSION	08/28/80
IF DO	LINE	
01	02386	INPUT
	02387	INPUT
02	02388	INPUT
	02389	INPUT

14	4297	DC	XL4'0'	SSSN VALUE OF NEXT TRANSIENT
	4298	DC	AL1CX'00'+X'00'+X'20'+X'10'+X'08'+X'00'+X'00'+X'00')	
	4299	DC	AL1(TCBIDBLD)	TASK ID ONLY IF NEW TASK
15	4300	DC	AL2(C0)	ADDRESS OF REQUEST DATA
	4301	SATLOAD	EQU X'08'	LOADER PARAM LIST OFFSET
	4302	SATFLAG	EQU SATLOAD+1	FIRST FLAG BYTE OFFSET
16	4303	SATCREAT	EQU X'80'	CREATE A NEW TCB
	4304	SATREAL	EQU X'40'	LOGICAL = REAL TO LINK #
	4305	SATTUBAS	EQU X'20'	ON - TUBS PASSED IN PARAM LIST
17	4306	*		OFF - JCBB PASSED IN PARAM LIST
	4307	SATNONNM	EQU X'10'	ON - DON'T ASSIGN JOB NAME
	4308	*		OFF-- ASSIGN JOB NAME
18	4309	SATDATA	EQU X'08'	PUT DATA TO SESSION WORK AREA
	4310	*		ALSO, DUMMY UP INVITE
	4311	SATPRIV	EQU X'04'	TASK IS PRIVILEGED
19	4312	SATSWAP	EQU X'02'	TASK IS NOT SWAPPABLE
	4313	SATFRPM	EQU X'01'	FREE ATACH PARAM LIST
	4314	SATINIT	EQU SATCREAT+SATREAL+SATTUBAS+SATDATA+SATPRIV	START INIT

14	4352	*		
	4353	*		
	4354	NIPACTSK	EQU	
15	4355	DC		
	4356	DC		
	4357	DC		
16	4358	DC		
	4359	DC		
	4360	DC		
17	4361	DC		
	4362	DC		
	4363	DC		
18	4364	DC		
	4365	DC		
	4366	DC		
19	4367	DC		
	4368	***		END OF EXPANS
	4369	*		

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SPL/3	VERSION 08/28/80	PAGE 44	TIME 02:15	DATE 81/12/08
01	IF DO	LINE	SOURCE	
	2366	* EQU X'20'	. RESERVED	
	2367	* EQU X'10'	. RESERVED	
02	2368	* EQU X'08'	. RESERVED	
	2369	* EQU X'04'	. RESERVED	
	2370	* EQU X'02'	. RESERVED	
03	2371	* EQU X'01'	. RESERVED	
	2372	*		
04	2373	SCADNCK EQU SCADNCK+1	1 NUMBER NUCLEUS ZK BLOCKS (R4)	
	2374	*		
	2375	SCADNCTR EQU SCADNCTR+1	1 COUNTER OF INT JOBS ACTIVE	
05	2376	SCADSCIN EQU SCADSCIN+2	2 ADDRESS SYS CONSOLE INPAGE MATRIX	
	2377	SCADPID# EQU SCADPID#1	1 MESSAGE ID # FOR SYS CON REPLY	
	2378	SCADSCZ EQU SCADPID#1	1 SIZE OF RESOURCE SECURITY FILE	
06	2379	SCADSECZ EQU SCADSECZ+1	1 SIZE OF SECURITY FILE	
	2380	SCADCPUB EQU SCADSECZ+2	2 COMMAND PROCESSOR WORKAREA ADDRESS	
	2381	*		
07	2382	SCADSATB EQU SCADCPUB+2	2 CONTROL STORE ALLOCATE TABLE	
	2383	*		
	2384	SCADSLT EQU SCADSATB+1	1 I2 SLOT NUMBER (HEX) (R3)	
08	2385	SCADSL0T EQU SCADSLT+5	5 I2 SLOT NUMBER (DECIMAL) (R3)	
	2386	*		
	2387	SCADNQT EQU SCADSL0T+1	1 MESSAGE Q COUNT	
	2388	*		
09	2389	SCADCSPI EQU SCADNQT+1	1 CSP ----> MSP INTERFACE BYTE	
	2390	SCADZSS EQU X'80'	. MCR ATTACHMENT ON SYSTEM (R2)	
10	2391	SCADNWR EQU X'40'	. I2 DISKETTE ATTACHMENT (R3)	
	2392	* EQU X'20'	. RESERVED FOR ADDR COMPARE DUMP	
	2393	SCADNWD EQU X'10'	. ERROR ON DUMP - PARTIAL DUMP TAKEN	
11	2394	SCADNWD EQU X'08'	. DISPLAY ADDR COMPARE DUMP MESSAGE	
	2395	SCADNWD EQU X'04'	. ADDRESS COMPARE DUMP HAS TAKEN	
	2396	SCADNWD EQU X'02'	. TASK SUSPENDED BY ADDR COMP DUMP	
	2397	SCADNWD EQU X'01'	. TRACE TO DTSK ACTIVE	
12	2398	*		
	2399	SCADCSPI EQU SCADCSPI+1	1 MSP ----> CSP INTERFACE BYTE	
13	2400	SCADNWR EQU X'80'	. S/32 MODE LOG PRINTER ERROR	
	2401	SCADNWR EQU X'40'	. PRINTER TRANSLATE FEATURE (R4)	
	2402	SCADNWR EQU X'20'	. FORTNAN EXECUTION SUPPORT (R4)	
14	2403	SCADNWR EQU X'10'	. LAST ZK OF NUCLEUS ASSIGNED (R4)	
	2404	SCADNWR EQU X'08'	. MCR SUBR2 SSP SUPPORT (R4)	
	2405	* EQU X'04'	. RESERVED	
	2406	SCADNWR EQU X'02'	. MCR SUBR25 SSP SUPPORT (R4)	
	2407	* EQU X'01'	. RESERVED	
	2408	*		
16	2409	SCADCSPI EQU SCADCSPI+1	1 CSP <----> MSP INTERFACE BYTE	
	2410	SCADNWR EQU X'80'	. I/O CONTROLLER ATTACHED (R6)	
	2411	SCADNWR EQU X'40'	. I/O CONTROLLER ATTACHED (R6)	
17	2412	SCADNWR EQU X'20'	. CRFIC RECORD TUB COUNT ERROR (R7)	
	2413	* EQU X'10'	. RESERVED	
	2414	* EQU X'08'	. RESERVED	
	2415	* EQU X'04'	. RESERVED	
18	2416	SCADNWR EQU X'02'	. TERMINAL UNIT BLACK CHAIN LOCKED	
	2417	* EQU X'01'	. RESERVED	
	2418	*		
19	2419	SCADNWR EQU SCADCSPI+2	2 TUB ADDRESS OF SDA TASK	
	2420	*		

SPL/3	VERSION 08/28/80
01	IF DO
	2421 SCADLIN# EQU
	2422 *
02	2423 * NOTE: THIS I
	2424 * DEFIN
	2425 * DESCR
03	2426 * FOR E
	2427 *
	2428 *
04	2429 *
	2430 *
	2431 * AUTOCA
05	2432 *
	2433 SCADLIN# EQU
	2434 SCADLIN# EQU
06	2435 SCADLIN# EQU
	2436 SCADLIN# EQU
	2437 *
07	2438 SCADNWR EQU
	2439 SCADNWR EQU
08	2440 SCADNWR EQU
	2441 SCADNWR EQU
	2442 *
09	2443 SCADNWR EQU
	2444 SCADNWR EQU
	2445 SCADNWR EQU
10	2446 SCADNWR EQU
	2447 *
	2448 SCADNWR EQU
11	2449 SCADNWR EQU
	2450 SCADNWR EQU
	2451 *
12	2452 SCADNWR EQU
	2453 *
	2454 SCADNWR EQU
	2455 *
13	2456 SCADNWR EQU
	2457 *
14	2458 SCADNWR EQU
	2459 *
	2460 SCADNWR EQU
	2461 *
15	2462 SCADNWR EQU
	2463 SCADNWR EQU
16	2464 SCADNWR EQU
	2465 SCADNWR EQU
	2466 *
17	2467 SCADNWR EQU
	2468 SCADNWR EQU
	2469 *
	2470 *
18	2471 SCADNWR EQU
	2472 *
	2473 *
19	2474 SCADNWR EQU
	2475 *

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SPL/3	VERSION 08/28/80	PAGE 8	TIME 02:15	DATE 81/12/08
01	IF DO	LINE	SOURCE	
	0306	ADTUB EQU ADTUB+2	TUB ADDRESS	
02	0307	ADTUB EQU ADTUB+2	MARK FOR WHICH LINES TO DISPLAY 00022	
	0308	ADTUB EQU ADTUB+1	ADD BYTE ON INPUT OPERATIONS 00022	
	0309	ADTUB EQU ADTUB+1	INTERNAL OPERATION CODE	

SPL/3	VERSION 08/28/80
01	IF DO
	0441 SPACE
02	0442 CPICODE EQU
	0443 SPACE
	0444 MENU EQU

14	4352 *	DC	4X1'00'	SSSN OF MODULE	04950000	4407	ORG
	4353 *	DC	AL2(O)	LINK EDIT ADDRESS	04940000	4408	X001 DC
	4354	DC	AL2(O)	START CONTROL ADDRESS	04950000	4409	ORG
	4355	DC	2X1'00'	RLD OFFSET/ TOTAL SECTORS		4410	X00 DC
15	4356	DC	AL2(O)	LOAD ADDRESS		4411	ORG
	4357	DC	AL1(X'80'+X'00'+X'00'+X'00'+X'00'+X'04'+X'00'+X'01')			4412	X01 DC
16	4358	DC	AL1(C)	#2K BLOCKS MAIN STORAGE		4413	ORG
	4359	DC	AL1(TCBPRBLD)	PRIORITY ONLY IF NEW TASK		4414	X1 DC
	4360	DC	AL2(O)	TUB ADDRESS		4415	ORG
17	4361	DC	XL4'0'	SSSN VALUE OF NEXT TRANSIENT		4416	X100 DC
	4362	DC	AL1(X'80'+X'00'+X'00'+X'10'+X'08'+X'00'+X'00'+X'00')			4417	*
	4363	DC	AL1(TCBIDACT)	TASK ID ONLY IF NEW TASK		4418	NIPSWITCH DC
18	4364	DC	AL2(O)	ADDRESS OF REQUEST DATA		4419	WAITEND EQU
	4365	DC	AL2(O)	ADDRESS OF REQUEST DATA		4420	*
	4366	DC	AL2(O)	ADDRESS OF REQUEST DATA		4421	***
19	4367	DC	AL2(O)	ADDRESS OF REQUEST DATA		4422	*****
	4368	***	END OF EXPANSION **			4423	***** REM
	4369	*			04960000	4424	*****

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SPL/3	VERSION	08/28/80	IF DO	LINE	SOURCE	PAGE	45	TIME	02:15	DATE	81/12/08
01	2421	SCADLIN EQU	SCADSNAT+1	1	COMMUNICATIONS CONFIGURATION						
02	2422 *										
	2423 *	* NOTE: THIS BYTE DESCRIBES HOW THE COMMUNICATION HARDWARE IS									
	2424 *	DEFINED. BITS 0-3 DESCRIBE COMMUNICATION LINES. BITS 4-7									
	2425 *	DESCRIBE AUTOCALL LINES. BITS 0-7 DESCRIBE X.21 LINES.									
03	2426 *	FOR EXAMPLE:									
	2427 *	AUTOCALL ON LINE 3 AND COMMUNICATIONS ON LINES									
	2428 *	1, 2, AND 4 WOULD BE X'02'.									
04	2429 *	X.21 ON LINE 1 AND COMMUNICATIONS ON LINE 2									
	2430 *	WOULD BE X'08'.									
	2431 *	AUTOCALL AND X.21 ARE MUTUALLY EXCLUSIVE.									
05	2432 *										
	2433	SCAPLIN1 EQU	X'80'	.	COMMUNICATIONS ON LINE 1						
	2434	SCAPLIN2 EQU	X'40'	.	COMMUNICATIONS ON LINE 2	(R3)					
06	2435	SCAPLIN3 EQU	X'20'	.	COMMUNICATIONS ON LINE 3	(R6)					
	2436	SCAPLIN4 EQU	X'10'	.	COMMUNICATIONS ON LINE 4	(R6)					
	2437 *										
07	2438	SCAPVCL1 EQU	X'08'	.	AUTO CALL ON LINE 1	(R6)					
	2439	SCAPVCL2 EQU	X'04'	.	AUTO CALL ON LINE 2	(R6)					
	2440	SCAPVCL3 EQU	X'02'	.	AUTO CALL ON LINE 3	(R6)					
08	2441	SCAPVCL4 EQU	X'01'	.	AUTO CALL ON LINE 4	(R6)					
	2442 *										
	2443	SCAPV211 EQU	X'08'	.	X.21 ON LINE 1	(R8)					
	2444	SCAPV212 EQU	X'44'	.	X.21 ON LINE 2	(R8)					
09	2445	SCAPV213 EQU	X'22'	.	X.21 ON LINE 3	(R8)					
	2446	SCAPV214 EQU	X'11'	.	X.21 ON LINE 4	(R8)					
10	2447 *										
	2448	SCAPREDJ EQU	SCAPREDJ+4	4	END-OF-JOB SVC						
	2449	SCAPPLMS EQU	SCAPREDJ	2	IPL WORK AREA						
11	2450	SCAPREJ3 EQU	SCAPREDJ-3	.	START OF END-OF-JOB SVC						
	2451 *										
	2452	SCAPCON1 EQU	SCAPREJ3+1	.	CONSTANT X'01'						
12	2453 *										
	2454	SCAPTRIF EQU	SCAPREDJ+2	2	COMMUNICATIONS BUFFER SIZE						
	2455 *										
13	2456	SCAPBQS EQU	SCAPTRIF+1	1	WORK STATION QUEUE SPACE (1/40)						
	2457 *										
	2458	SCAPBQS EQU	SCAPBQS+1	1	SYSTEM QUEUE SPACE (1/40)						
14	2459 *										
	2460	SCAPBQS EQU	SCAPBQS+1	1	TRICE BUFFER SPACE (1/40)						
	2461 *										
15	2462	SCAPBQS EQU	SCAPBQS+1	1	SUB BATCH TASK USE COUNT	(R3)					
	2463	SCAPBQS EQU	SCAPBQS+1	1	SUB BATCH TASK USE COUNT	(R3)					
	2464	SCAPBQS EQU	SCAPBQS+1	1	SUB PRIMARY TASK USE COUNT	(R3)					
16	2465	SCAPBQS EQU	SCAPBQS+1	1	SUB PRIMARY TASK USE COUNT	(R3)					
	2466 *										
	2467	SCAPBQS EQU	SCAPBQS+1	1	HISTORY FILE CONFIGURATION	(R3)					
17	2468	SCAPBQS EQU	X'80'	.	HISTORY-ANALYTIC WWP INDICATOR						
	2469 *				1 - AUTO WWP HISTORY FILE						
	2470 *				0 - NO HISTORY AUTO WWP						
18	2471	SCAPBQS EQU	X'40'	.	HISTORY-OVERFLOW FILE DELETE						
	2472 *				1 - DELETE OVERFLOW FILE						
	2473 *				0 - DON'T DELETE OVERFLOW FILE						
19	2474	SCAPBQS EQU	X'20'	.	HISTORY-RESPONDENT OVERFLOW FILE						
	2475 *				1 - RESPONDENT OVERFLOW FILE @ IPL						

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SPL/3	VERSION	08/28/80	IF DO	LINE	SOURCE	PAGE	9	TIME	02:15	DATE	81/12/08
01	0441	SPACE									
02	0442	CPCLD	CPCLD+1		COMMAND PROMPTING CODE						
	0443	SPACE									
	0444	MENU	X'01'	.	MENU COMMAND CODE						

SPL/3 VERSION 08/28/80

SPL/3	VERSION	08/28/80	IF DO	LINE	SOURCE
01	2476	*			
02	2477	SCAPHALC			
	2478	*			
	2479	SCAPFLOC			
03	2480	*			
	2481	*			
	2482	*			
04	2483	SCAPV2S			
	2484	*			
	2485	*			
05	2486	*			
	2487	SCAPV2S			
	2488	*			
06	2489	SCAPV2S			
	2490	*			
	2491	*			
07	2492	SCAPV2S			
	2493	*			
	2494	SCAPV2S			
08	2495	*			
	2496	SCAPV2S			
	2497	*			
09	2498	*			
	2499	*			
	2500	*			
10	2501	*			
	2502	*			
	2503	*			
11	2504	SCAPV2S			
	2505	SCAPV2S			
	2506	*			
12	2507	SCAPV2S			
	2508	SCAPV2S			
	2509	SCAPV2S			
13	2510	SCAPV2S			
	2511	SCAPV2S			
	2512	SCAPV2S			
14	2513	SCAPV2S			
	2514	*			
	2515	*			
15	2516	SCAPV2S			
	2517	*			
	2518	SCAPV2S			
16	2519	SCAPV2S			
	2520	SCAPV2S			
	2521	*			
17	2522	*			
	2523	*			
	2524	*			
18	2525	*			
	2526	*			
	2527	*			
19	2528	SCAPV2S			
	2529	SCAPV2S			
20	2530	SCAPV2S			

SPL/3 VERSION 08/28/80

SPL/3	VERSION	08/28/80	IF DO	LINE	SOURCE
01	0446	HOLD			
02	0447	RELEASE			
	0448				
	0449				

14	4407	ORG	R-1	05090000	4407		
	4408	X001	DC	XL3'000001'	CONSTANT OF ONE	05110000	4463
	4409	ORG	R-3	05120000		4464	
15	4410	X00	DC	XL2'0000'	CONSTANT OF ZERO	05130000	4465
	4411	ORG	R-1	05140000		4466	NIPB
	4412	X01	DC	XL2'0001'	CONSTANT OF ONE	05150000	4467
16	4413	ORG	R-1	05160000		4468	
	4414	X1	DC	XL1'01'	CONSTANT OF 1	05170000	4469
	4415	ORG	R-1	05180000		4470	
17	4416	X100	DC	XL2'0100'	CONSTANT OF X'100'	05190000	4471
	4417	*		05200000		4472	NIPB
	4418	NIPSWTCH	DC	XL1'00'	IPL SWITCH BYTE	05210000	4473
18	4419	WATTEND	EQU	128	REBUILD COMPLETE FLAG	05220000	4474
	4420	*		05230000		4475	
	4421	***		05240000		4476	
19	4422	*****		05250000		4477	
	4423	*****		05260000	REMOTE WORK STATION DATA AREAS	4478	NIPB
	4424	*****		05270000		4479	

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SPL/3	VERSION	08/28/80	PAGE	46	TIME	02:15	DATE	81/12/08
01	IF DO	2476 *	SOURCE					
		2477 SCAMHLC EQU X'20'	0 - DONT REFORMAT OVERFLOW FILE					
02		2478 *	HISTORY-ALLOCATE OVERFLOW FILE					
		2479 SCAMFLOC EQU X'10'	AFTER IPL					
		2480 *	HISTORY-OVERFLOW FILE PREFERRED					
03		2481 *	LOCATION					
		2482 *	1 - SPINDLE A1					
		2483 SCAMHVSZ EQU X'0F'	0 - SPINDLE A2					
04		2484 *	HISTORY-OVERFLOW FILE SIZE (BITS					
		2485 *	4-7 (X'OF')) IN MULTIPLES OF THE					
		2486 *	HISTORY FILE (1-8).					
05		2487 SCADRSEC EQU SCADCF67+3	3 RESERVED FOR SECURITY USE					
		2488 *						
06		2489 SCADHFLK EQU SCADRSEC+2	2 SECTOR OFFSET OF VTDC ENTRY: 1R31					
		2490 *	HISTORY OVERFLOW FILE, #HISTOF					
		2491 *						
07		2492 SCADWNG EQU SCADHFLK+2	2 ADDRESS COMPARE WORKAREA ADDR 1R31					
		2493 *						
		2494 SCADCF68 EQU SCADWNG+1	1 SSP CONFIGURATION 1R31					
		2495 *	EQU X'80'					
08		2496 SCAMHSP EQU X'40'	USE WORK STATION PRINTER 1R61					
		2497 *	EQU X'20'					
		2498 *	EQU X'10'					
09		2499 *	EQU X'08'			1R81		
		2500 *	EQU X'04'					
		2501 *	EQU X'02'			1R81		
10		2502 *	EQU X'01'			1R81		
		2503 *						
		2504 SCADCF69 EQU SCADCF68+1	1 REMOTE CONFIGURATION BYTE 1R31					
11		2505 SCAMHSA EQU X'80'	REMOTE WORK STATIONS ACTIVE					
		2506 *	FOR THIS IPL					
12		2507 SCAMHAW EQU X'40'	PERFORM AUTOMATIC ONLINE AT IPL					
		2508 SCAMHAW EQU X'20'	WHY ONLINE NOT ALLOWED					
		2509 SCAMHAW EQU X'10'	WHY ON IN PROCESS BY #HAW					
13		2510 SCAMHAW EQU X'08'	HAS HRS SET 'SCAMHAW' 1R71					
		2511 SCAMHAW EQU X'04'	REMOTE TASK IS SHIPPABLE					
		2512 SCAMHAW EQU X'02'	AT LEAST ONE REMOTE CONFIGURED					
		2513 SCAMHAW EQU X'01'	AT LEAST ONE REMOTE CONFIGURED					
14		2514 *	FOR IPL AUTO WHY ONLINE					
		2515 *						
15		2516 SCAMHSP EQU SCADCF69+2	2 DISK SECTORS PER TRACK 1R31					
		2517 *						
		2518 SCAMHSP EQU SCAMHSP+1	1 SECURITY FEATURES					
16		2519 SCAMHSP EQU X'80'	RESOURCE SECURITY					
		2520 SCAMHSP EQU X'40'	BRIDGE MEMBER SECURITY					
		2521 *	EQU X'20'					
		2522 *	EQU X'10'					
17		2523 *	EQU X'08'					
		2524 *	EQU X'04'					
		2525 *	EQU X'02'					
18		2526 *	EQU X'01'					
		2527 *						
19		2528 SCAMHAW EQU SCAMHSP+1	4000 STORAGE ADDRESS 1R21					
		2529 SCAMHAW EQU SCAMHAW+1	4000 STORAGE ADDRESS 1R21					
		2530 SCAMHAW EQU SCAMHAW+3	4000 STORAGE ADDRESS 1R31					

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01	IF DO	0496 HOLD EQU C'4'	SOURCE					
		0497 RELEASE EQU C'L'	HOLD COMMAND CODE					
02		0498	RELEASE COMMAND CODE					
		0499	SPACE					
		*****CHCU AND CUPIC PARAMETER LIST*****						



14	4461	DC	AL1(0)	MODULE SSS	05640000	
	4462	DC	AL1(0)	NUMBER OF TEXT SECTORS	05650000	
	4463	DC	AL1(0)	RLD DISPLACEMENT	05660000	
	4464	SPACE	2		05670000	
15	4465	DC	CL4'RWV'	* AUTO VARY TRANSIENT	05680000	
	4466	NIPRWV	EQU *		05690000	
	4467	DC	XL3'00'	MODULE SSS	05700000	
16	4468	DC	AL1(0)	NUMBER OF TEXT SECTORS	05710000	
	4469	DC	AL1(0)	RLD DISPLACEMENT	05720000	
	4470	SPACE	2		05730000	
17	4471	DC	CL4'SVAT'	* ATTACH	05740000	
	4472	NIPSSATC	EQU *		05750000	
	4473	DC	XL3'00'	MODULE SSS	05760000	
18	4474	DC	AL1(0)	NUMBER OF TEXT SECTORS	05770000	
	4475	DC	AL1(0)	RLD DISPLACEMENT	05780000	
	4476	SPACE	2		05790000	
19	4477	DC	CL4'HSBL'	* FILE REBUILD #HSBLD	05800000	
	4478	NIPSSBLD	EQU *		05810000	
	4479	DC	XL3'00'	MODULE SSS	05820000	
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SPL/3	VERSION	08/28/80	PAGE	47	TIME	02:15	DATE	81/12/08	
01	IF DO	LINE	SOURCE						
		2531	SCAMDB2 EQU SCAMDBT+5 ----> #DB2 STORAGE ADDRESS (R3)						
		2532	SCAMDBM EQU SCAMDBT+7 ----> #DBM STORAGE ADDRESS (R4)						
02		2533	SCAMICM EQU SCAMDBM ----> #ICM STORAGE ADDRESS (R4)						
		2534	*	THIS ADDRESS WILL BE THE ADDRESS					
		2535	*	OF ICS DATA MANAGEMENT IF ICS					
03		2536	*	IS ACTIVE, OTHERWISE IT WILL BE					
		2537	*	THE ADDRESS OF THE WORK STATION					
		2538	*	DATA MANAGEMENT ROUTER, #DBM.					
04		2539	SCAMDB3 EQU SCAMDBT+9 ----> #DB3 STORAGE ADDRESS (R4)						
		2540	* EQU SCAMDBT+11	RESERVED					
05		2541	SCAMDBR EQU SCADCF6+12 12 WDM BRANCH TABLE (HIGH SIDE)						
		2542	*						
		2543	SCADRSPC EQU SCAMDBR+8 8 RESERVED						
		2544	*						
06		2545	SCADPCS4 EQU SCADRSPC+1 1 COMMAND PROCESSOR SWITCH 4 (R6)						
		2546	SCAMHLD EQU X'80'	VERY HIGH LEVEL DEDICATION					
		2547	* EQU X'40'	RESERVED					
07		2548	* EQU X'20'	RESERVED					
		2549	* EQU X'10'	RESERVED					
		2550	* EQU X'08'	RESERVED					
08		2551	* EQU X'04'	RESERVED					
		2552	* EQU X'02'	RESERVED					
		2553	* EQU X'01'	RESERVED					
09		2554	*						
		2555	SCADPC5 EQU SCADPCS4+2 2 EXT. ADDRESS MAPPING (EXTD) (R6)						
		2556	*						
10		2557	SCADP11 EQU SCADP1D-1 EXPI IDS 1-7 (R6)						
		2558	* EQU X'80'	RESERVED					
		2559	SCADSPK EQU X'40'	01 - DISK ON (SPAND)					
11		2560	SCADLSP EQU X'20'	02 - ILCA SP					
		2561	* EQU X'10'	03 - RESERVED					
		2562	* EQU X'08'	04 - RESERVED					
12		2563	* EQU X'04'	05 - RESERVED					
		2564	* EQU X'02'	06 - RESERVED					
		2565	* EQU X'01'	07 - RESERVED					
		2566	*						
13		2567	SCADP12 EQU SCADP1D EXPI IDS 8-15 (R6)						
		2568	* EQU X'80'	08 - RESERVED					
14		2569	* EQU X'40'	09 - RESERVED					
		2570	* EQU X'20'	0A - RESERVED					
		2571	* EQU X'10'	0B - RESERVED					
15		2572	* EQU X'08'	0C - RESERVED					
		2573	* EQU X'04'	0D - RESERVED					
		2574	* EQU X'02'	0E - RESERVED					
16		2575	* EQU X'01'	0F - RESERVED					
		2576	*						
17		2577	SCADPCS3 EQU SCADP1D+1 1 COMMAND PROCESSOR SWITCH 3 (R4)						
		2578	SCASTOPS EQU X'80'	SNIP SESSION ACTIVE					
		2579	SCADCKF EQU X'40'	REBUILD-DELETE CHECKPOINT FILES					
18		2580	SCADPLP EQU X'20'	INITIALIZE LINE PRINTER (R5)					
		2581	SCADPCL EQU X'10'	ILCA HIGH LOADED (R6)					
		2582	SCADLAF EQU X'08'	ILCA ERROR ACTION FAILURE (R6)					
		2583	SCADP1D EQU X'04'	DISCRETE HNS EXTENDED LABELS (R7)					
19		2584	SCADZ1S EQU X'02'	X.Z1 SWITCHED (R8)					
		2585	SCADP1D EQU X'01'	DISCRETE HNS HIGH-SEQ. RECORDS (R8)					
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01	IF DO	LINE
		2586 *
		2587 SCADCF6 EQU SC
02		2588 * NOTE: THIS BYTE
		2589 * BYTE 'COM'
		2590 SCACKRST EQU X'
03		2591 * EQU X'
		2592 SCAMHFC EQU X'
		2593 SCADIFA EQU X'
04		2594 SCAMTEC EQU X'
		2595 SCAMSUBS EQU X'
05		2596 SCAMNSF EQU X'
		2597 SCAMEDM EQU X'
		2598 *
06		2599 SCADIC50 EQU SC
		2600 *
		2601 SCADRFR EQU SC
		2602 *
07		2603 SCADUCF6 EQU SC
		2604 SCADUT1 EQU SC
		2605 SCADUT2 EQU SC
08		2606 SCADUT3 EQU SC
		2607 SCADUT4 EQU SC
		2608 *
09		2609 *
		2610 *
10		2611 *
		2612 *
		2613 *
11		2614 *
		2615 *
		2616 *
		2617 *
12		2618 SCADP80 EQU X'
		2619 SCADP40 EQU X'
		2620 SCADP20 EQU X'
13		2621 SCADP10 EQU X'
		2622 *
		2623 SCADK00 EQU SC
14		2624 *
		2625 SCADSPF EQU SC
15		2626 SCADK0F EQU X'
		2627 * EQU X'4'
		2628 * EQU X'2'
16		2629 * EQU X'1'
		2630 * EQU X'0'
		2631 * EQU X'0'
		2632 * EQU X'0'
17		2633 SCADK21 EQU X'0'
		2634 *
18		2635 SCADCFR EQU 255
		2636 *
		2637 SCADNFR EQU SC
19		2638 *
		2639 *
		2640 *
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01	IF DO	LINE	SOURCE					
		0551	***** CPED PARAMETER LIST *****					
02		0552	* RECOMMENDED * THIS PART OF THE WORKAREA OVERLAYS THE GENERAL PART *					
		0553	* USE * OF THE WORKAREA, BEGINNING AT CPANCL.					
		0554	* UNDEFINED USE IS A ONE-BYTE PARAMETER LIST *					

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01	IF DO	LINE
		0606 CPTRB EQU CP
		0607 CPATCB EQU CP
02		0608 CPSPR EQU CP
		0609 ***** END OF EXPAN

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IF DO	LINE	SOURCE						
	2586 *							
	2587	SCADCFG6 EQU	SCADGPS+1 1	CONFIGURATION BYTE 6				(R4)
	2588 *	NOTE: THIS BYTE CONTAINS THE SAME BIT MASKS AS SYSTEM CONFIGURATION						
	2589 *	BYTE 'CONDCFG6'.						
	2590	SCACKRST EQU	X'80'	CHECKPOINT/RESTART CONFIGURED				
	2591 *	EQU	X'40'	RESERVED				
	2592	SCANSHFC EQU	X'20'	SHF FEATURE CONFIGURED				
	2593	SCANIFA EQU	X'10'	DUMP FILE ANALYSIS				(R5)
	2594	SCANIXC EQU	X'08'	I EXCHANGE				(R6)
	2595	SCANISUBS EQU	X'04'	SUBCONSOLE SUPPORT				(R5)
	2596	SCANISUF EQU	X'02'	SPOOL FILE ACCESS				(R5)
	2597	SCANEDDM EQU	X'01'	EXTENDED DISK DATA MAN.				(R6)
	2598 *							
	2599	SCADICSA EQU	SCADCFG6+2 2	ICS COMMUNICATION AREA ADDR				(R4)
	2600 *							
	2601	SCADRFR EQU	SCADICSA+8 8	RESERVED				
	2602 *							
	2603	SCADUCFG EQU	SCADRFR+8 8	UDT COPY CONFIGURATION				(R3)
	2604	SCAUDT1 EQU	SCADUCFG-1	LINE 1 CONFIGURATION (BYTE 0)				(R3)
	2605	SCAUDT2 EQU	SCADUCFG-3	LINE 2 CONFIGURATION (BYTE 0)				(R3)
	2606	SCAUDT3 EQU	SCADUCFG-5	LINE 3 CONFIGURATION (BYTE 0)				(R6)
	2607	SCAUDT4 EQU	SCADUCFG-7	LINE 4 CONFIGURATION (BYTE 0)				(R6)
	2608 *	NOTE -> SEE COMPRESSED UNIT DEFINITION TABLE (UDT)						
	2609 *	DESCRIPTION FOR DEFINITION OF BITS						
	2610 *	WITHIN THE INDIVIDUAL CONFIGURATION						
	2611 *	BYTES. EACH ENTRY IS TWO BYTES LONG.						
	2612 *	BYTE 0: SEE LABEL 'UDTCONF1'						
	2613 *	BYTE 1: SEE LABEL 'UDTCONF3' FOR BITS 0-3.						
	2614 *	BITS 4-7 (X'0F') MAP THE DEVICE						
	2615 *	ADDRESS (PRIORITY) OF THE UDT LINE						
	2616 *	ENTRY. FOR EXAMPLE X'80' MAPS TO						
	2617 *	X'08'. SEE EQUATES BELOW.						
	2618	SCAPR00 EQU	X'08'	UDT DEVICE ADDRESS X'80'				(R3)
	2619	SCAPR40 EQU	X'04'	UDT DEVICE ADDRESS X'40'				(R6)
	2620	SCAPR20 EQU	X'02'	UDT DEVICE ADDRESS X'20'				(R3)
	2621	SCAPR10 EQU	X'01'	UDT DEVICE ADDRESS X'10'				(R6)
	2622 *							
	2623	SCAKRGA EQU	SCADUCFG+2 2	KATRNDIV/KRULI COPY AREA				(R6)
	2624 *							
	2625	SCAKSSPF EQU	SCAKRGA+1 1	SSP FEATURE INDICATORS				(R6)
	2626	SCAKRDF EQU	X'80'	KATRNDIV/KRULI FEATURE				(R6)
	2627 *	EQU	X'40'	RESERVED				
	2628 *	EQU	X'20'	RESERVED				
	2629 *	EQU	X'10'	RESERVED				
	2630 *	EQU	X'08'	RESERVED				
	2631 *	EQU	X'04'	RESERVED				
	2632 *	EQU	X'02'	RESERVED				
	2633	SCAKRZ1 EQU	X'01'	X.Z1 FEATURE				(R6)
	2634 *							
	2635	SCAKCPR EQU	Z55 38	COPYRIGHT				
	2636 *							
	2637	SCAKNTR EQU	SCAKCPR-31 32	TERMINATION DUMP AND STACK				
	2638 *	USED BY ADDITIONAL TERMINATION						
	2639 *	WHEN DUMPING MORE THAN 64K OF						
	2640 *	HARD STORAGE. COPYRIGHT WILL BE						

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IF DO	LINE	SOURCE						
	2641 *							
	2642 *							
	2643 ***	END OF EXPANS						
	2644 *	SVEQU						
	2645 *							
	2646 *	SVC R-BYTE EQU						
	2647 *							
	2648	SVCMMATT EQU	X'10'					
	2649	SVCPOST EQU	X'08'					
	2650	SVCALIT EQU	X'04'					
	2651	SVCPOST EQU	X'02'					
	2652	SVCXFER EQU	X'01'					
	2653	SVCINSTK EQU	X'00'					
	2654	SVCASGN EQU	X'00'					
	2655	SVCFREE EQU	X'00'					
	2656	SVCISEC EQU	X'00'					
	2657	SVCSSSW EQU	X'00'					
	2658	SVCASGN EQU	X'00'					
	2659	SVCPSVC EQU	X'00'					
	2660	SVCIMATR EQU	X'00'					
	2661	SVCPRP EQU	X'00'					
	2662	SVCQUEUE EQU	X'00'					
	2663	SVCSCB EQU	X'00'					
	2664	SVCXENT EQU	X'00'					
	2665	SVCXIT EQU	X'00'					
	2666	SVCGETP EQU	X'00'					
	2667	SVCFREEP EQU	X'00'					
	2668	SVCITIN EQU	X'00'					
	2669	SVCITID EQU	X'00'					
	2670	SVCITIR EQU	X'00'					
	2671	SVCITIM EQU	X'00'					
	2672	SVCITOF EQU	X'00'					
	2673	SVCPOSTA EQU	X'00'					
	2674	SVCLOG EQU	X'00'					
	2675	SVCOSCH EQU	X'00'					
	2676 *	EQU	X'00'					
	2677	SVCPOST EQU	X'00'					
	2678	SVCNATT EQU	X'00'					
	2679	SVCITIN EQU	X'00'					
	2680	SVCOS EQU	X'00'					
	2681	SVCNRQ EQU	X'00'					
	2682	SVCNRQ EQU	X'00'					
	2683	SVCNRP EQU	X'00'					
	2684	SVCTEST EQU	X'00'					
	2685	SVCNRQ EQU	X'00'					
	2686	SVCNRYCK EQU	X'00'					
	2687	SVCNRP EQU	X'00'					
	2688	SVCOSPCN EQU	X'00'					
	2689	SVCNRP EQU	X'00'					
	2690	SVCISQ EQU	X'00'					
	2691	SVCNWEI EQU	X'00'					
	2692	SVCPOST1 EQU	X'00'					
	2693	SVCMMATT EQU	X'00'					
	2694	SVCNRP EQU	X'00'					
	2695	SVCITID EQU	X'00'					

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IF DO	LINE	SOURCE						
	0606	CPPT0B EQU	CPPTNSTD+2	T0B ADDRESS				
	0607	CPPT1B EQU	CPPTN+2	T1B ADDRESS				
	0608	CPPTSV EQU	CPPTN+1	RESERVED				
	0609	*** END OF RESERVATION ***						

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IF DO	LINE	SOURCE						
	0661 *	ARE EITHER						
	0662 *	IPL TIME						
	0663 *	ITEMS. TOP						
	0664 *	STC MUCI						

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IF	DO	LINE	SOURCE					
		2641 *	RESTORED WHEN DUMP IS COMPLETE.					
		2642 *						
02		2643 ***	END OF EXPANSION **					
		2644 *	SVEQU	SUPERVISOR CALL EQUATES	01060000			
		2645 *						
03		2646 *	SVC R-BYTE EQUATES					
		2647 *						
04		2648	SVCWAIT EQU	X'00'	GENERAL WAIT			
		2649	SVCPOST EQU	X'01'	GENERAL POST			
		2650	SVCWAIT EQU	X'02'	WAIT			
		2651	SVCPOST EQU	X'03'	POST			
05		2652	SVCXFER EQU	X'04'	TRANSFER CONTROL/SYSTEM TRANSIENT			
		2653	SVCUNSTK EQU	X'05'	STACK MANIPULATION			
		2654	SVCASSGN EQU	X'06'	ASSIGN			
06		2655	SVCFREE EQU	X'07'	FREE			
		2656	SVCISEC EQU	X'08'	INCREMENT SYSTEM EVENT COUNTERS			
		2657	SVCSSWS EQU	X'09'	SENSE CONSOLE DATA SWITCHES			
07		2658	SVCSSGN EQU	X'0A'	ASSIGN SYSTEM QUEUE SPACE SVC			
		2659	SVCPSVC EQU	X'0B'	PSEUDO DELAYED SVC POST ACM FUNCTION			
		2660	SVCIMTR EQU	X'0C'	LOAD ATRIS			
08		2661	SVCPRR EQU	X'0D'	ALTER PROGRAM MODE REGISTER (PMR)			
		2662	SVCQENR EQU	X'0E'	QUEUE / DEQUEUE SYSTEM CONTROL BLOCKS			
		2663	SVCSCB EQU	X'0F'	SYSTEM CONTROL BLOCK ACCESS			
09		2664	SVCIENTR EQU	X'10'	TRANSIENT/TRANSFER-USER SPECIFIED			
		2665	SVCEXIT EQU	X'11'	TRANSIENT/TRANSFER EXIT SVC			
		2666	SVCGETP EQU	X'12'	GETPAGE			
10		2667	SVCFREEP EQU	X'13'	FREEPAGE			
		2668	SVCINTR EQU	X'14'	* INTERNAL TIMER ENQUEUE			
		2669	SVCITD EQU	X'15'	* INTERNAL TIMER DEQUEUE			
11		2670	SVCITR EQU	X'16'	* INTERNAL TIMER REPRINDER			
		2671	SVCIDMT EQU	X'17'	ASYNCHRONOUS TASK WAIT			
		2672	SVCIDRF EQU	X'18'	SET TRANSIENT AREA NOT BUSY			
12		2673	SVCPOSTA EQU	X'19'	POST ACE SVC			
		2674	SVCLOG EQU	X'1A'	LOG TRACE INFORMATION			
		2675	SVCSSCAN EQU	X'1B'	SCAN SYSTEM QUEUE ROUTINE			
13		2676 *		X'1C'	RESERVED			
		2677	SVCPOST EQU	X'1D'	TASK POST			
		2678	SVCWAIT EQU	X'1E'	TASK WAIT			
14		2679	SVCINTR EQU	X'1F'	* TIMER INTERRUPT NUMBER			
		2680	SVCQS EQU	X'20'	ALTER QUIESCE COUNTER			
		2681	SVCREQ EQU	X'21'	RESOURCE ENQUEUE			
15		2682	SVCREQ EQU	SVCREQ	RESOURCE DEQUEUE			
		2683	SVCIDRP EQU	X'22'	IDRP FROM STORAGE/TERMINATE TASK			
		2684	SVCITEST EQU	X'23'	TEST AND SET			
16		2685	SVCPRQ EQU	X'24'	TCB PRIORITY QUEUE			
		2686	SVCPRQ EQU	X'25'	ASYNCHRONOUS TASK READY CHECK.			
		2687	SVCPRP EQU	X'26'	PREPARE PRIORITY OUTPUT			
17		2688	SVCSPCH EQU	X'27'	DISPATCHER SVC			
		2689	SVCIDPT EQU	X'28'	REQUIRE PRIORITY SET UP.			
		2690	SVCISQ EQU	X'29'	SECTOR ENQUEUE/DEQUEUE			
18		2691	SVCIDWEI EQU	X'2A'	MOVE DATA BY ID			
		2692	SVCPOSTI EQU	X'2B'	POST TASK BY ID			
		2693	SVCIDWNT EQU	X'2C'	QUIESCE COUNTER WAIT			
19		2694	SVCIDWF EQU	X'2D'	TRANSLATED ASSIGN/FREE			
		2695	SVCITRD EQU	X'2E'	RETURN TIME-OF-DAY ON TIMER UNITS			

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IF	DO	LINE	SOURCE					
		2696 *						
		2697 *	*-INDIC					
02		2698						
		2699 *	DEL					
		2700	SVCDF					
03		2701	SVCIO					
		2702	SVCPT					
04		2703	SVCISC					
		2704	SVCOPM					
		2705	SVCIDMT					
05		2706	SVCPSVC					
		2707 *						
		2708	SVCIXNT					
06		2709	SVCTRA					
		2710	SVCLOAD					
		2711 *						
		2712	SVCXBR					
07		2713 *						
		2714 *	SVC Q CO					
		2715 *						
08		2716	Q1					
		2717	QWAIT					
		2718	QREFRESH					
09		2719	QREF					
		2720	QLOFF					
10		2721	QSYSREQ					
		2722	QFRESH					
		2723	QIDRM					
11		2724	QCPWAIT					
		2725	QCPWAIT					
		2726	QSCT					
12		2727	QR					
		2728	QR2					
		2729	QRU					
		2730	QR					
13		2731	CSALL					
		2732	QRUV					
		2733	QRCPRT					
14		2734	QSPEC					
		2735 *						
		2736	SVCOP					
15		2737	SVCPR					
		2738	***	END OF				
		2739 *						
16		2740	*****					
		2741 *						
		2742	*****					
17		2743	**0	*				
		2744	**	STAT	*			
		2745	*****					
18		2746	**08					
		2747	**	CHPL				
		2748	*****					
19		2749	**10					
		2750	**	INTD				

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TIME 02:15	DATE 81/12/08
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SPL/3	VERSION	08/28/80	PAGE	13	TIME	02:15	DATE	81/12/08
IF	DO	LINE	SOURCE					
		00661 *	ARE EITHER INITIALIZED AT ASSEMBLY TIME OR ELSE FOLLOWS IN AT *					
		00662 *	IPL TIME AND ARE NOT MODIFIED BY ANY OTHER FUNCTION.					
02		00663 *	ITEMS IDENTIFIED AS "NON-CONSTANT" MAY BE MODIFIED BY CTRL *					
		00664 *	SPECIFIC FUNCTIONS OR I/O FUNCTIONS *					

SPL/3	VERSION	08/28/80	PAGE	13	TIME	02:15	DATE	81/12/08
IF	DO	LINE	SOURCE					
		00716 *	MAIN ST					
		00717	*****					
02		00718 *	THE PDL					
		00719	*****					

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SPL/3 IF DO	VERSION 08/28/80 LINE	SOURCE	PAGE 50	TIME 02:15	DATE 81/12/08
01	2696 *				
02	2697 * *	INDICATES NOT USEABLE FROM MAIN STORE			
	2698	EJECT			
	2699 *	DELAYED SVC R-BYTE EQUATES			
03	2700	SVCFD EQU X'40' DISK I/O			
	2701	SVCIO EQU X'41' DISKETTE I/OCS			
	2702	SVCPT EQU X'42' WORKSTATION IOCH (PRINTER)			
	2703	SVCASC EQU X'43' WORKSTATION IOCH (TERMINAL)			
04	2704	SVCCOMM EQU X'44' COMMUNICATIONS IOCH			
	2705	SVCIOREQ EQU X'45' I/O TRANSIENT REQUEST			
	2706	SVCPOSVC EQU X'46' PSEUDO I/O REQUEST			
05	2707 *	X'46' -> X'4F' RESERVED FOR I/O SVC'S			
	2708	SVCCONT EQU X'50' CONTROL STORE TRANSIENT SCHEDULER			
	2709	SVCTRA EQU X'51' TASK WORK AREA ACCESS			
06	2710	SVCLOAD EQU X'52' PATH STORAGE RELOCATING LOADER			
	2711 *	X'53' -> X'5C' RESERVED FOR DELAYED SVC'S			
	2712	SVCINTR EQU X'5C' KEYBOARD TRACE			
07	2713 *				
	2714 *	SVC Q CODE EQUATES			
	2715 *				
08	2716 Q1	EQU X'01' SVC SIGNIFICANT INDICATOR			
	2717 QANT	EQU X'01' WAIT ON THIS SVC INDICATOR			
	2718 QREFRESH	EQU X'01' REFRESH TRANSIENT/TWINSFER INDICATOR			
09	2719 QREF	EQU X'02' NON-REFRESHABLE SVC INDICATOR			
	2720 QLOFF	EQU X'04' TRANSLATE OFF-IOB/PRIOR LIST-INDICATOR			
	2721 QSYSREQ	EQU X'04' SPECIAL SYSTEM REQUEST FOR ASSIGN REC			
10	2722 QFRESH	EQU X'04' FOR MOVE1 - FROM IO IN ENVI 6			
	2723 QIOCHI	EQU X'08' FOR MOVE1 - TO IO IN ENVI 6			
	2724 QUNIT	EQU X'08' MULTIPLE UNIT I/O REQUEST			
11	2725 QPUNIT	EQU X'08' ASYNC ERROR UNIT REQUEST			
	2726 QSCT	EQU X'30' SUBSYSTEM CONFIG TABLE 20145			
	2727 QIR	EQU X'10' NON-QUESCIBLE REQUEST INDICATOR			
12	2728 QIR2	EQU X'20' RETURN XIR FROM POSTER ON UNIT.			
	2729 QIU	EQU X'40' USE USERS TCB ON ENVI I/O REQUEST 6			
	2730 QI	EQU X'00' IMMEDIATE SVC EQUATE			
13	2731 CSKILL	EQU X'80' CS SVC INDICATOR			
	2732 QIRV	EQU QIR-QUNIT-QUNIT NON-VOLUNTARY SHIPPABLE UNIT			
	2733 QIRPRI	EQU QIR-QUNIT NOT CHANGE PRIORITY ON UNIT 8			
14	2734 QSPEC	EQU QUNIT-QUNIT SPECIFIC UNIT ON NON-ECN.			
	2735 *				
	2736 SNOIP	EQU X'F4' SVC OP CODE VALUE			
15	2737 SNOFR	EQU X'F5' SVC TRANSFER OP CODE			
	2738 ***	END OF EXPRESSION ***			
	2739 *	TCB 0107000			
16	2740	*****			
	2741 *	TCB *			
	2742	*****			
17	2743 *00	* * * * *			
	2744 *	SMT1 * SMT2 * UNK1 * UNK2 * * SMT3 * PRIOR * TIME * QNT *			
	2745	*****			
18	2746 *00	* * * * *			
	2747 *	CHPLQ * PUSH * * CHNRY * RDRQ *			
	2748	*****			
19	2749 *10	* * * * *			
	2750 *	INTQ * RETUB * * JCIB * CRB *			

SPL/3 VERSION 08/28/80  
IF DO LINE

01 2751 \*\*\*\*\*

02 2752 \*18

2753 \* AKRI

2754 \*\*\*\*\*

2755 \*20 \*

2756 \* PIR \*

2757 \*\*\*\*\*

2758 \*28

2759 \*

2760 \*\*\*\*\*

2761 \*30

2762 \*

2763 \*\*\*\*\*

2764 \*38

2765 \*

2766 \*\*\*\*\*

2767 \*40

2768 \*

2769 \*\*\*\*\*

2770 \*48

2771 \*

2772 \*\*\*\*\*

2773 \*50

2774 \* TTC

2775 \*\*\*\*\*

2776 \*58

2777 \*

2778 \*\*\*\*\*

2779 \*60

2780 \*

2781 \*\*\*\*\*

2782 \*68 \*

2783 \* SQCT \*

2784 \*\*\*\*\*

2785 \*FOCAT \*

2786 \* MSET \*

2787 \*\*\*\*\*

2788 \*78 \*

2789 \* BIT \*

2790 \*\*\*\*\*

2791 E

2792 \*\*\*\*\*\*

2793 TCBSTATI E

2794 S

2795 TCBMT E

2796 TCBMPO E

2797 TCBMFO E

2798 TCBMLO E

2799 TCBMOP E

2800 TCBMST E

2801 TCBMSHP E

2802 TCBMDD E

2803 TCBMSHP E

2804 S

2805 TCBMSWTZ E

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01  
02

SPL/3 IF DO	VERSION 08/28/80 LINE	SOURCE	PAGE 14	TIME 02:15	DATE 81/12/08
01	0776 *	MAIN STORAGE SIZE AND WORD ZK PAGE COUNTER WORD			
	0777	*****			
02	0778 *	THE FOLLOWING BIT IS SET IN THE HIGH BYTE IF NECESSARY			
	0779	*****			
	0780	*****			

SPL/3 VERSION 08/28/80  
IF DO LINE

01 0771 \*

0772 \* THE FOL

0773 BILLOS

0774 TUB

14	37 *	LINKAGE = CALLED BY MAIN STORAGE IPL PHASE 3, *MSIPL	00380000	14
	38 *		00390000	
	39 *	INPUT =	00400000	
	40 *		00410000	
15	41 *	OUTPUT =	00420000	15
	42 *		00430000	
	43 *	EXIT-NORMAL = TO COMMAND PROCESSOR RESIDENT ROUTINE.	00440000	
16	44 *		00450000	16
	45 *	EXIT-ERROR =	00460000	
	46 *		00470000	
17	47 *	EXTERNAL-REFERENCE = N/A	00480000	17
	48 *		00490000	
	49 *	ROUTINES = N/A	00500000	
18	50 *		00510000	18
	51 *	DATA AREAS =	00520000	
	52 *		00530000	
19	53 *	CONTROL BLOCKS =	00540000	19
	54 *		00550000	
	55 *	TABLES =	00560000	
20	56 *		00570000	20

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5	DATE 81/12/08
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SPL/3	VERSION 08/28/80	PAGE 51	TIME 02:15	DATE 81/12/08
IF DO	LINE	SOURCE		
	2751	*****		
	2752	*18 * * * * *		
	2753	* @KR1 * @KR2 * * @ARR * @IAR *		
	2754	*****		
	2755	*20 * * * * *		
	2756	* PWR * PSR * R * Q * * @INL1 * @INL2 * @INL3 * @INL4 *		
	2757	*****		
	2758	*28 * * * * *		
	2759	* TSSN * BEGL * * MSS12 * RGS12 * SPOOL *		
	2760	*****		
	2761	*30 * * * * *		
	2762	* * * * *		
	2763	*****		
	2764	*38 * * * * *		
	2765	* * * * * ATRS * * * * *		
	2766	*****		
	2767	*40 * * * * *		
	2768	* * * * *		
	2769	*****		
	2770	*48 * * * * *		
	2771	* * * * *		
	2772	*****		
	2773	*50 * * * * *		
	2774	* TTC * TWA * * * * * MSMA * LDREL *		
	2775	*****		
	2776	*58 * * * * *		
	2777	* LODSK * INCT * * * * * ASGQ * EXIT *		
	2778	*****		
	2779	*60 * * * * *		
	2780	* * * * * TQE * * * * *		
	2781	*****		
	2782	*68 * * * * *		
	2783	* SDCIT * LCRK * SSTED * TSKID * * * * * PRIQ * STAT4 * STAT5 *		
	2784	*****		
	2785	*70CMT * * * * *		
	2786	* INCT * CNT * * * * * RESCT * * * * * CUCIT * IQCIT * INCT * STAT6 *		
	2787	*****		
	2788	*78 * * * * *		
	2789	* BWT * SUSPS * SWEPT * * * * * TWST * X * * * *		
	2790	*****		
	2791	EJECT		
	2792	***** THE FOLLOWING FIELDS ARE ORDER DEPENDENT *****		
	2793	TCBSSTAT1 EQU 0 TCBS STATUS BYTE 1		
	2794	SPACE 1		
	2795	TCBSWAIT EQU X'00" - TASK IS NOT ON READY QUEUE		
	2796	TCBSWPO EQU X'40" - TASK IS SHIPPED TO DESK.		
	2797	TCBSFORD EQU X'20" - TASK FORCED TO SHIPP* (DISPATCHABLE)		
	2798	TCBSLQSH EQU X'10" - TASK IS QUEUED - TCBSWAIT = 0		
	2799	TCBSWP EQU X'00" - TASK HAS SHIP OUT LAD IN PROGRESS		
	2800	TCBSLSTN EQU X'04" - SET ON WHEN TASK SHIPPED IN.		
	2801	TCBSWSP EQU X'04" - SET ON WHEN TASK FULLY SHIPPED OUT.		
	2802	TCBSLQHD EQU X'02" - NO LAD REQ. FOR SHIP INDICATOR		
	2803	TCBSWSP EQU X'01" - TASK IS NEVER SHIPPABLE		
	2804	SPACE 1		
	2805	TCBSSTAT2 EQU TCBSSTAT1+1 TCBS STATUS BYTE 2		

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SPL/3	VERSION 08/28/80	
IF DO	LINE	
	2806	SPACE
	2807	TCBSWAIT EQU X
	2808	TCBSWAIT EQU X
	2809	TCBSWAIT EQU X
	2810	TCBSWAIT EQU X
	2811	TCBSWAIT EQU X
	2812	TCBSWAIT EQU X
	2813	TCBSUSP EQU X
	2814	* * * * *
	2815	* * * * *
	2816	TCBSWBY EQU X
	2817	SPACE 1
	2818	TCBSWASK EQU X
	2819	SPACE 1
	2820	TCBSWAIT EQU X
	2821	TCBSWAIT EQU X
	2822	TCBSWAS EQU X
	2823	TCBSWAIT EQU X
	2824	TCBSWAIT EQU X
	2825	* NOTE: THE AB
	2826	* * * * *
	2827	* * * * *
	2828	TCBSWAIT EQU X
	2829	TCBSWAIT EQU X
	2830	TCBSWAIT EQU X
	2831	SPACE 1
	2832	TCBSWASK EQU X
	2833	SPACE 1
	2834	TCBSWAIT EQU X
	2835	TCBSWAIT EQU X
	2836	TCBSWAIT EQU X
	2837	TCBSWAIT EQU X
	2838	TCBSWAIT EQU X
	2839	TCBSWAIT EQU X
	2840	TCBSWAIT EQU X
	2841	* * * * *
	2842	SPACE 1
	2843	TCBSSTAT1 EQU X
	2844	SPACE 1
	2845	TCBSWAIT EQU X
	2846	TCBSWAIT EQU X
	2847	TCBSWAIT EQU X
	2848	TCBSWAIT EQU X
	2849	TCBSWAIT EQU X
	2850	TCBSWSP EQU X
	2851	TCBSWSP EQU X
	2852	TCBSWSP EQU X
	2853	SPACE 1
	2854	TCBSWAIT EQU X
	2855	SPACE 1
	2856	TCBSWAIT EQU X
	2857	TCBSWAIT EQU X
	2858	TCBSWAIT EQU X
	2859	TCBSWAIT EQU X
	2860	TCBSWAIT EQU X

5	DATE 81/12/08
01	
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SPL/3	VERSION 08/28/80	PAGE 15	TIME 02:15	DATE 81/12/08
IF DO	LINE	SOURCE		
	0771	*		
	0772	* THE FOLLOWING 16 WORDS ARE THE CURRENT LOADER PRIORITY VALUES		
	0773	DLISSS EQU DLSTRPT+1 HIGH AND MIDDLE BYTE OF DS FIELD		

SPL/3	VERSION 08/28/80	
IF DO	LINE	
	0826	*
	0827	*****
	0828	* SYSTEM FLAG
	0829	*****



	0008	99	ARR	EQU	8	ADDRESS RECALL REGISTER	01000000
14	0010	100	TAR	EQU	16	INSTRUCTION ADDRESS REGISTER	01010000
	0001	101	IOB	EQU	1	IOB POINTER	01020000
	0002	102	DTF	EQU	2	DTF POINTER	01030000
		103	*				01040000
15	0000	104	#	EQU	0	ALTERABLE CODE	01050000
	0000	105	##	EQU	0	ALTERABLE CODE	01060000
	0002	106	@	EQU	2	LENGTH OF ADDRESSES	01070000
16		107	*				01080000
	0040	108	BLANK	EQU	C'	BLANK CHARACTER	01090000
	0000	109	ZERO	EQU	0	**	01100000
17	0001	110	ONE	EQU	1	**	01110000
	0002	111	TWO	EQU	2	**	01120000
	0003	112	THREE	EQU	3	**	01130000
18	0004	113	FOUR	EQU	4	**	01140000
	0005	114	FIVE	EQU	5	** SELF DEFINING TERMS	01150000
	0006	115	SIX	EQU	6	**	01160000
19	0007	116	SEVEN	EQU	7	**	01170000
	0008	117	EIGHT	EQU	8	**	01180000
20	0009	118	NINE	EQU	9	**	01190000

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01	IF DO	LINE	SOURCE
		2861	TCBPREM EQU X'F3' 3270 EMULATION PRIORITY
		2862	TCBPREXT EQU X'F0' EXTENDED TRACE PRIORITY
02		2863	TCBPRITH EQU X'F4' BCS PRIORITY FOR 3270 I/H
		2864	TCBPRSDP EQU X'F8' SDLC PRIORITY (PRIMARY)
		2865	TCBPRSDS EQU X'F9' SDLC PRIORITY (SECONDARY)
03		2866	TCBPRSN1 EQU X'F0' SNA 1 PRIORITY
		2867	TCBPRSNR EQU X'F0' SNA 2 PRIORITY
		2868	TCBPBOLD EQU X'F0' REBUILD PRIORITY
04		2869	TCBPBSRJ EQU X'F0' SRJE PRIORITY
		2870	TCBPBSNF EQU X'F0' SNAF SUBSYSTEM PRIORITY
		2871	TCBPAPER EQU X'F0' SNA PEER SUBSYSTEM PRIORITY
05		2872	TCBPACCP EQU X'F0' CCP SUBSYSTEM PRIORITY
		2873	TCBPACIC EQU X'F0' CICS SUBSYSTEM PRIORITY
		2874	TCBPRIHS EQU X'F0' IHS SUBSYSTEM PRIORITY
06		2875	TCBPBDEL EQU X'F0' BSCCL SUBSYSTEM PRIORITY
		2876	TCBPBINT EQU X'F0' INTRA SUBSYSTEM PRIORITY
		2877	TCBPBPTS EQU X'F0' BSC 3270 PRIORITY
07		2878	TCBPBACE EQU X'F0' PLCA CONTROLLER CHECK ERROR ROUTINE
		2879	TCBPBSHF EQU X'F8' SHF PRIORITY
		2880	TCBPBDF EQU X'F1' SOURCE DIFF PRIORITY "KEEP UNIQUE"
08		2881	TCBPBSMT EQU X'00' SHF WAIT TASK PRIORITY
		2882	TCBPBWHN EQU X'00' USER DEFINED HIGH PRIORITY
		2883	TCBPBWHN EQU X'01' MEDIUM PRIORITY
09		2884	* USE TCBPBWHN FOR THE SMCPRIO (COMP) SVC. IN THE TCB, THE VALUE IN
		2885	* TCBPBWHN WILL BE TCBPBWHN AND BIT TCBPBWHN WILL BE SET IN TCBNT.
		2886	TCBPBWHN EQU X'00' CONVERSATIONAL PRIORITY
10		2887	TCBPBWHN EQU X'00' BATCH PRIORITY
		2888	* NORMAL (DEFAULT) USER TASK PRIORITY IS TCBPBWHN DYNAMICALLY
		2889	* CHANGED TO/FROM TCBPBWHN BY THE SYSTEM SUPERVISOR.
11		2890	TCBPBWHN EQU X'00' LOW PRIORITY
		2891	SPACE 1
		2892	TCBPTIME EQU TCBPBWHN+1 TASK RESIDUAL TIME INTERVAL.
12		2893	SPACE 1
		2894	TCBPBQNT EQU TCBPTIME+1 QUEUE COUNTER
		2895	TCBPBPLQ EQU TCBPBQNT+2 TASK EVENT CONTROL QUEUE HEADER
13		2896	*XXXXXXXXXXXX THE ABOVE FIELDS ARE ORDER DEPENDENT XXXXXXXXXXXXXXX
		2897	SPACE 1
		2898	TCBPBUSH EQU TCBPBPLQ+2 PUSH ELEMENT @-HEADER
14		2899	TCBPBWHN EQU TCBPBUSH+2 SYSTEM EXISTENCE QUEUE CHAINING FIELD
		2900	TCBPBWHN EQU TCBPBWHN+2 SYSTEM READY QUEUE CHAINING FIELD
		2901	TCBPBWHN EQU TCBPBWHN+2 SYSTEM READY QUEUE SPECIAL EQUIP
15		2902	TCBPBWHN EQU TCBPBWHN+2 SYSTEM TRANSFER QUEUE CHAINING FIELD
		2903	TCBPBWHN EQU TCBPBWHN+2 JOB ADDRESS OF REQUESTOR
		2904	SPACE 1
16		2905	*XXXXXXXXXXXX THE FOLLOWING FIELDS ARE ORDER DEPENDENT XXXXXXXXXXXXXXX
		2906	TCBPBWHN EQU TCBPBWHN+2 ADDRESS OF TASK JOB CONTROL BLOCK
		2907	TCBPBWHN EQU TCBPBWHN+2 CURRENT REQUEST BLOCK POINTER
17		2908	TCBPBWHN EQU TCBPBWHN+1 REGISTER SHARE ELEMENT (LEFT BYTE)
		2909	TCBPBWHN EQU TCBPBWHN+2 - CURRENT JIB1
		2910	TCBPBWHN EQU TCBPBWHN+2 - CURRENT JIB2
18		2911	TCBPBWHN EQU TCBPBWHN+2 - CURRENT JIBR
		2912	TCBPBWHN EQU TCBPBWHN+2 - CURRENT JIBR
		2913	TCBPBWHN EQU TCBPBWHN+2 - CURRENT PWB/PSR
19		2914	TCBPBWHN EQU TCBPBWHN+2 - CURRENT R AND Q BYTES
		2915	TCBPBWHN EQU TCBPBWHN+1 - INLINE PWB/PSR

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01	IF DO	LINE	SOURCE
		0881	01D10000 EQU 01D10000 ADDR OF MAIN STG ELEMENT SCHEDULER JOB.
		0882	01D10000 EQU 01D10000 ADDR OF MAIN STG RELOCATING LOADER JOB
02		0885	01D10000 EQU 01D10000+1 ADDR OF MAIN STORAGE SWAP PAGE.

01	IF DO	LINE	SOURCE
		2916	TCB...
		2917	TCB...
02		2918	TCB...
		2919	TCB...
		2920	**
03		2921	**
		2922	**
		2923	TCB...
04		2924	TCB...
		2925	TCB...
		2926	TCB...
05		2927	TCB...
		2928	**
		2929	**
06		2930	TCB...
		2931	TCB...
		2932	TCB...
07		2933	TCB...
		2934	TCB...
08		2935	TCB...
		2936	TCB...
		2937	TCB...
09		2938	TCB...
		2939	TCB...
		2940	TCB...
10		2941	TCB...
		2942	TCB...
		2943	TCB...
		2944	TCB...
11		2945	TCB...
		2946	TCB...
		2947	TCB...
12		2948	TCB...
		2949	TCB...
		2950	TCB...
13		2951	TCB...
		2952	TCB...
		2953	TCB...
14		2954	TCB...
		2955	*
		2956	*
15		2957	TCB...
		2958	TCB...
16		2959	TCB...
		2960	TCB...
		2961	TCB...
17		2962	TCB...
		2963	TCB...
		2964	TCB...
		2965	TCB...
18		2966	TCB...
		2967	TCB...
		2968	TCB...
19		2969	TCB...
		2970	TCB...

01000000	0002	153	\$FNDMSRC EQU X'02'	SOURCE MODULE	01540000		
01010000	0001	154	\$FNDMPRC EQU X'01'	PROCEDURE	01550000		0011
01020000	0008	155	\$FNDONM8 EQU \$FNDOTYP+8	8 CHARACTER MEMBER NAME	01560000		0008
01030000							0040
01040000	0009	157	\$FNDOPR EQU \$FNDONM8+1	OPERATION SWITCHES	01580000		0012
01050000	0080	158	\$FNDMYSYS EQU X'80'	JUST SEARCH SYSTEM LIBRARY, SKIP SEARCH OF USER LIBRARY.	01590000		
01060000					01600000		
01070000	0040	160	\$FNDMLDR EQU X'40'	BUILD LOADER PARM LIST - DO NOT MOVE ENTIRE DIR ENTRY.	01610000		
01080000	161	*			01620000		
01090000	0020	162	\$FNDMUSE EQU X'20'	JUST SEARCH USER LIBRARY, SKIP SEARCH OF SYSTEM LIBRARY.	01630000		
01100000					01640000		
01110000	0010	164	\$FNDMULB EQU X'10'	SEARCH USER LIBRARY IN \$FNDOF1A INSTEAD OF DESIGNATED USER LIB.	01650000		
01120000	165	*			01660000		
01130000	0008	166	\$FNDMPR1 EQU X'08'	RETURN LIB F1 ADDR OF MEMBER.	01670000		
01140000	167	*		ONLY WITH REGULAR CALL. THE START ADDR FIELD IS OVERLAID	01680000		
01150000	168	*			01690000		
01160000	0004	169	\$FNDMNQ EQU X'04'	DO NOT ENQ OR DEQ LIBR DIR - CALLER DOING ENQ AND DEQ.	01700000		0001
01170000	170	*			01710000		0003
01180000	0008	171	\$FNDOF1A EQU \$FNDOPR+2	FORMAT 1 ADDR OF GIVEN USER LIB	01720000		0005
01190000							0006

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SPL/3	VERSION 08/28/80	PAGE 54	TIME 02:15	DATE 81/12/08
IF DO	LINE	SOURCE		
01	2916	TCB0INL2 EQU	TCB0INL+1	. INLINE PARM 2
	2917	TCB0INL3 EQU	TCB0INL2+1	. INLINE PARM 3
02	2918	TCB0INL4 EQU	TCB0INL3+1	. INLINE PARM 4
	2919	TCR0SE EQU	TCR0R0+16	CURRENT REGISTER SAME ELEMENT
03	2920	*XXXXXXXXXX THE ABOVE FIELDS ARE ORDER DEPENDENT *XXXXXXXXXXXXXXX		
	2921	SPACE 1		
	2922	*XXXXXXXXXX THE FOLLOWING FIELDS ARE ORDER DEPENDENT *XXXXXXXXXXXXXXX		
04	2923	TCBTSSN EQU	TCR0SE+3	TASK DISK ADDR IN SWAP AREA.
	2924	TCB0EGL EQU	TCBTSSN+1	LOGICAL PROGRAM BEGIN ATR NUMBER.
	2925	TCB0EGLW EQU	TCB0EGL	FOUR BYTE ECH FOR CP USGS FAILURES
05	2926	TCB0SSIZ EQU	TCB0EGL+1	CURRENT SIZE OF MAIN STORE ALLOCATED.
	2927	TCB0SSIZ EQU	TCB0SSIZ+1	TASK REGION SIZE (MAX. TCB0SSIZ)
	2928	*XXXXXXXXXX THE ABOVE FIELDS ARE ORDER DEPENDENT *XXXXXXXXXXXXXXX		
	2929	SPACE 1		
06	2930	TCB0SPOOL EQU	TCB0SSIZ+2	SPOOL WORK AREA ADDR
	2931	TCB0ECHR EQU	TCB0SPOOL	SPECIAL ECH FOR CP ERRORS.
	2932	TCB0SPOH EQU	TCB0SPOOL	USED AS SPECIAL SYSTEM Q HEADER.
07	2933	TCB0TRS EQU	TCB0SPOOL+32	ATR STACK SAVE AREA
	2934	TCB0TTC EQU	TCB0TRS+2	TASK-TASK COMMUNICATIONS AREA
08	2935	TCB0TMA EQU	TCB0TTC+2	DISK ADDRESS OF TASK WORK AREA
	2936	TCB0TMA EQU	TCB0TMA+2	DISK ADDRESS OF SESSION WORK AREA
	2937	TCB0LREL EQU	TCB0TMA+2	TASK RELOCATION FACTOR FOR LOADER
09	2938	TCB0TMC EQU	TCB0LREL	ATEMPT ENR PIC
	2939	TCB0DISK EQU	TCB0LREL+3	TASK ABSOLUTE DISK ADDR FOR LOADER
	2940	TCB0STAR EQU	TCB0DISK-1	SAVE LAR ON ATEMPT
10	2941	TCB0INACT EQU	TCB0DISK+1	TASK INVITE COMMAND
	2942	TCB0SQR EQU	TCB0INACT+2	ASSIGNED ELEMENTS QUEUE
	2943	TCB0EXIT EQU	TCB0SQR+2	ASYNCHRONOUS EXIT ADDRESS.
11	2944	TCB0FAIL EQU	TCB0EXIT	CP ASSTN FAILURE INDICATOR BYTES
	2945	TCB0QRE EQU	TCB0EXIT+8	TIMER QUEUE ELEMENT.
	2946	TCB0SACT EQU	TCB0QRE+1	COUNT OF SECTOR QUEUE REQUESTS
	2947	TCB0LREQ EQU	TCB0SACT+1	COUNT OF LOCK REQUESTS
12	2948	TCB0LCKM EQU	X'80'	INTERLOCK FOR MEDIUM
	2949	TCB0LCKS EQU	X'40'	INTERLOCK FOR SCHEDULER
	2950	TCB0LCKV EQU	X'20'	INTERLOCK FOR VNIC
13	2951	TCB0LCK5 EQU	X'10'	INTERLOCK FOR PRIORITY 5
	2952	TCB0LCKP EQU	X'80'	INTERLOCK FOR PNIC NAME
	2953	TCB0LCKH EQU	X'04'	INTERLOCK FOR HISTORY FILE
14	2954	TCB0LCKSP EQU	X'02'	INTERLOCK FOR SPINL FILE
	2955	*	EQU X'01'	INTERLOCK FOR RESEARC
15	2956	SPACE 1		
	2957	TCB0SST0 EQU	TCB0LCKM+1	SHARED STORAGE TASK DISK BYTES
	2958	SPACE 1		
16	2959	TCB0SKID EQU	TCB0SST0+1	TASK ID
	2960	SPACE 1		
	2961	TCB0INACT EQU	X'E4'	INTERNAL TASK ID 6
17	2962	TCB0INACT EQU	X'E5'	ISC IN FOR 3270 EMULATION TASK ID
	2963	TCB0INACT EQU	X'E6'	ISC 3270 SUBSYSTEM TASK ID
	2964	TCB0INACT EQU	X'E7'	SNA 3270 SUBSYSTEM TASK ID
18	2965	TCB0INACT EQU	X'E8'	MUDA CONTROLLER CHECK ERROR TASK ID
	2966	TCB0INACT EQU	X'E9'	SNAF SUBSYSTEM TASK ID
	2967	TCB0INACT EQU	X'EA'	SNA PEER SUBSYSTEM TASK ID
19	2968	TCB0INACT EQU	X'EB'	CCP SUBSYSTEM TASK ID
	2969	TCB0INACT EQU	X'EC'	CICS SUBSYSTEM TASK ID
	2970	TCB0INACT EQU	X'ED'	IMS SUBSYSTEM TASK ID

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01	IF DO	LINE	SOURCE	
		2971	TCB0BEL EQU	
02		2972	TCB0DINT EQU	
		2973	TCB0DCP EQU	
		2974	*	EQU
03		2975	TCB0DJ EQU	
		2976	TCB0SFS EQU	
		2977	TCB0DMR EQU	
04		2978	TCB0BSC EQU	
		2979	TCB0SDP EQU	
		2980	TCB0SDS EQU	
05		2981	TCB0SML EQU	
		2982	TCB0SMLR EQU	
		2983	TCB0BLD EQU	
06		2984	TCB0SLJ EQU	
		2985	TCB0IBS EQU	
		2986	TCB0S44 EQU	
07		2987	TCB0BLD EQU	
		2988	TCB0WKID EQU	
		2989	SPM	
08		2990	TCB0PRTQ EQU	
		2991	SPM	
		2992	TCB0STAT4 EQU	
09		2993	SPM	
		2994	TCB0SARC EQU	
		2995	TCB0ATCH EQU	
10		2996	TCB0SSTH EQU	
		2997	TCB0STIN EQU	
		2998	TCB0ZACS EQU	
11		2999	TCB0LFD EQU	
		3000	TCB0INCL EQU	
		3001	TCB0INPT EQU	
12		3002	TCB0VPPD EQU	
		3003	SPM	
		3004	TCB0STAT5 EQU	
13		3005	SPM	
		3006	TCB0BIT EQU	
		3007	TCB0KRPD EQU	
14		3008	TCB0KRPD EQU	
		3009	TCB0KRPD EQU	
		3010	TCB0KRPD EQU	
15		3011	TCB0KRPD EQU	
		3012	TCB0KRPD EQU	
		3013	TCB0KRPD EQU	
16		3014	SPM	
		3015	TCB0KRPD EQU	
		3016	TCB0KRPD EQU	
17		3017	TCB0KRPD EQU	
		3018	TCB0KRPD EQU	
		3019	TCB0KRPD EQU	
18		3020	TCB0KRPD EQU	
		3021	SPM	
		3022	TCB0KRPD EQU	
19		3023	SPM	
		3024	TCB0KRPD EQU	
		3025	TCB0KRPD EQU	

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IF DO	LINE	SOURCE		
	0997	*		(#) = SECTOR ADDRESS (CL) OF TRACE FILE
	0998	*		(#) = SIZE OF TRACE BUFFER (#)
02	0998	DLIBSSM EQU	DLIBSSM+1	SECTOR ADDRESS OF TRACE FILE (CL, #)

01	IF DO	LINE	SOURCE	
		0999	*	
		1000	*	ENTRY POINT
02		1000	*	



01550000	0011 208 \$FNDDCOM EQU \$FNDDTOT+1	RESULTS OF FIND	02090000
01560000	0080 209 \$FNDSYR EQU X'80'	FOUND IN SYSTEM LIBRARY	02100000
	0040 210 \$FNDMUSR EQU X'40'	FOUND IN USER LIBRARY	02110000
01580000	0012 211 \$FNLEN EQU \$FNDDCOM+1	LENGTH OF PARM LIST	02120000
01590000	212 * END OF EXPANSION OF \$FNDD		02130000
01600000	213 *** END OF EXPANSION **		02140000
01610000	214 * ACE		02150000
01620000	215 *****		02160000
01630000	216 * 1* 3* 5* 6* 7*		02170000
01640000	217 * CHAIN * IAR * MAB * PARM1 * PARM2 *		02180000
01650000	218 *****		02190000
01660000	219 * 8* 9* B* D* F*		02200000
01670000	220 * PARM3 * TYPE * XR1 * XR2 * TCB *		02210000
01680000	221 *****		02220000
01690000	222 *		02230000
01700000	0001 223 ACECHAIN EQU 1	CHAIN TO NEXT ACTION CONTROL ELEMENT	02240000
01710000	0003 224 ACEIAR EQU ACECHAIN+2	CALLERS IAR VALUE	02250000
01720000	0005 225 ACEMAB EQU ACEIAR+2	MAB ADDRESS (CONTROL STORAGE ACE)	02260000
	0006 226 ACEPARM1 EQU ACEMAB+1	FIRST IN-LINE PARM	02270000

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01		01	IF DO LINE		01	IF DO LINE
			2971 TCBIDBEL EQU X'EE'	BSCCL SUBSYSTEM TASK ID		3026 TCBIDBEL EQU X'EE'
			2972 TCBIDINT EQU X'EF'	INTRA SUBSYSTEM TASK ID		3027 TCBIDINT EQU X'EF'
		02	2973 TCBIDCP EQU X'FO'	COMMAND PROCESSOR TASK ID	02	3028 TCBIDCP EQU X'FO'
			2974 * EQU X'F1'	RESERVED		3029 TCBIDCP EQU X'F1'
			2975 TCBIDJQ EQU X'F2'	JOB QUEUE TASK ID		3030 TCBIDJQ EQU X'F2'
		03	2976 TCBIDSF5 EQU X'F3'	SNA FINANCE SUPPORT ID	03	3031 TCBIDSF5 EQU X'F3'
			2977 TCBIDNR EQU X'F4'	NRJE TASK ID		3032 TCBIDNR EQU X'F4'
			2978 TCBIDNSC EQU X'F5'	BSC TASK ID		3033 TCBIDNSC EQU X'F5'
		04	2979 TCBIDSDP EQU X'F6'	SOLC TASK ID	04	3034 TCBIDSDP EQU X'F6'
			2980 TCBIDSDS EQU X'F8'	SOLC TASK ID		3035 TCBIDSDS EQU X'F8'
			2981 TCBIDSM1 EQU X'F7'	SNA TASK ID		3036 TCBIDSM1 EQU X'F7'
		05	2982 TCBIDSMR EQU X'F8'	SNA TASK ID	05	3037 TCBIDSMR EQU X'F8'
			2983 TCBIDBLD EQU X'F9'	REBUILD TASK ID		3038 TCBIDBLD EQU X'F9'
			2984 TCBIDSLJ EQU X'FA'	SLJE TASK ID		3039 TCBIDSLJ EQU X'FA'
		06	2985 TCBIDTBS EQU X'FD'	INTERACTIVE BSC TASK ID	06	3040 TCBIDTBS EQU X'FD'
			2986 TCBID544 EQU X'FC'	SNA 44 TASK ID		3041 TCBID544 EQU X'FC'
			2987 TCBIDGA EQU X'FE'	GAIQT TASK ID		3042 TCBIDGA EQU X'FE'
		07	2988 TCBINKID EQU X'EO'	MAXIMUM USER ID	07	3043 TCBINKID EQU X'EO'
			2989	SPACE 1		3044 TCBINKID EQU X'EO'
		08	2990 TCBPRIQ EQU TCBTSKID+2	TCB PRIORITY QUEUE CHAINING FIELD	08	3045 TCBPRIQ EQU TCBTSKID+2
			2991	SPACE 1		3046 TCBPRIQ EQU TCBTSKID+2
			2992 TCBSTAT4 EQU TCBPRIQ+1	ADDITIONAL TCB STATUS		3047 TCBSTAT4 EQU TCBPRIQ+1
			2993	SPACE 1		3048 TCBSTAT4 EQU TCBPRIQ+1
		09	2994 TCBSDMC EQU X'80'	SHUTDOWN RETURN CODE DELIVERED	09	3049 TCBSDMC EQU X'80'
			2995 TCBNTCH EQU X'40'	ATTACH YES		3050 TCBNTCH EQU X'40'
			2996 TCBSYSTEM EQU X'20'	SYSTEM TASK - NOT SUSPENDABLE		3051 TCBSYSTEM EQU X'20'
		10	2997 TCBNTM EQU X'10'	TASK IS IN ABNORMAL TERMINATION	10	3052 * TCBNTM EQU X'10'
			2998 TCBZPCS EQU X'08'	RECURSIVE TERMINATION DUE TO SVC 22		3053 * TCBZPCS EQU X'08'
			2999 TCBKLPD EQU X'04'	CANCEL PENDING		3054 TCBKLPD EQU X'04'
		11	3000 TCBKPLC EQU X'04'	C.P. CALLED FOR TUN RECOVERY	11	3055 * TCBKPLC EQU X'04'
			3001 TCBKMPY EQU X'02'	ERROR ON DUMP - PARTIAL DUMP TAKEN		3056 * TCBKMPY EQU X'02'
			3002 TCBKPPD EQU X'01'	DUMP PENDING ON CANCEL		3057 * TCBKPPD EQU X'01'
		12	3003	SPACE 1	12	3058 TCBKPPD EQU X'01'
			3004 TCBSTAT5 EQU TCBSTAT+1	STATUS BYTE 5		3059 * TCBSTAT5 EQU TCBSTAT+1
			3005	SPACE 1		3060 * TCBSTAT5 EQU TCBSTAT+1
		13	3006 TCBKBIT EQU X'80'	TASK HAS BEEN IN TERMINATION	13	3061 TCBKBIT EQU X'80'
			3007 TCBKBPD EQU X'40'	2 OPTION CANCEL PENDING		3062 TCBKBPD EQU X'40'
			3008 TCBKPPD EQU X'20'	3 OPTION CANCEL PENDING		3063 TCBKPPD EQU X'20'
		14	3009 TCBKBNM EQU X'10'	TASK IS IN ABNORMAL TERMINATION	14	3064 * TCBKBNM EQU X'10'
			3000 TCBKBNFL EQU X'08'	2 OPTION-FLUSH PASC		3065 TCBKBNFL EQU X'08'
			3001 TCBKBNM EQU X'04'	2 OPTION-CONTINUE PASC		3066 TCBKBNM EQU X'04'
		15	3002 TCBKBNED EQU X'02'	TAKE ASYNC EXIT ON ERROR ONLY	15	3067 * TCBKBNED EQU X'02'
			3003 TCBKBNM EQU X'01'	DISKETTE ORDER HAS BEEN PROCESSED		3068 TCBKBNM EQU X'01'
			3004	SPACE 1		3069 * TCBKBNM EQU X'01'
		16	3005 TCBKBNCT EQU TCBSTAT5+1	ALLOCATED WORK SHUTDOWN COUNT	16	3070 * TCBKBNCT EQU TCBSTAT5+1
			3006 TCBKBNM EQU TCBKBNCT	CURRENT ACTIVE TERMINAL COUNT		3071 * TCBKBNM EQU TCBKBNCT
			3007 TCBKBNM EQU TCBKBNCT+1	CURRENT ACTIVE TERMINAL VARIABLE		3072 * TCBKBNM EQU TCBKBNCT+1
		17	3008 TCBKBNM EQU TCBKBNM+1	NOT UNKNOWN REQUESTS ALLOWED	17	3073 * TCBKBNM EQU TCBKBNM+1
			3009 TCBKBNM EQU TCBKBNM+1	NOT SUSPENDABLE COMMAND		3074 * TCBKBNM EQU TCBKBNM+1
			3000 TCBKBNM EQU TCBKBNM+1	NOT CANCELABLE COUNT		3075 * TCBKBNM EQU TCBKBNM+1
		18	3001	SPACE 1	18	3076 * TCBKBNM EQU TCBKBNM+1
			3002 TCBKBNM EQU TCBKBNM+1	NOT SUSPENDABLE COUNT		3077 * TCBKBNM EQU TCBKBNM+1
			3003	SPACE 1		3078 * TCBKBNM EQU TCBKBNM+1
		19	3004 TCBKBNCT EQU TCBKBNCT+1	ACTIVE REQUESTOR COUNT	19	3079 * TCBKBNCT EQU TCBKBNCT+1
			3005 TCBKBNM EQU TCBKBNCT+1	STATUS BYTE 6		3080 * TCBKBNM EQU TCBKBNCT+1

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01		01	IF DO LINE		01	IF DO LINE
			0992	*****		1046 *****
		02	0993 * ENTRY POINTS FOR ROUTINES IN THE FIRST SEGMENT OF CONTROL STORAGE *			1047 *****
			0995	*****		1048 *****

02070000	200	PROCESSOR ALERTS. USE OF THE WORKAREA SHOULD FOLLOW RECOMMENDED	02610000	0002 3
02090000	261 *	AND EXPECTED USE (SEE BELOW) WHERE POSSIBLE.	02620000	
02100000	262 *		02630000	
02110000	263 *	3. THE TOTAL WORKAREA CAN BE USED AS LONG AS ANY INPUT THAT	02640000	0080 3
02120000	264 *	REQUIRES LOGGING HAS BEEN LOGGED (CMCU CALLED) AND THE STATIC	02650000	0040 3
02130000	265 *	PORTION OF THE WORKAREA IS SAVED AND RESTORED	02660000	0040 3
02140000	266 *		02670000	0020 3
02150000	267 *	*****	02680000	0020 3
02160000	0000	269 CPWRK EQU 0 START OF WORK AREA	02700000	0010 3
02170000	00FF	270 CPWRKEND EQU 255 END OF WORK AREA	02710000	0008 3
02180000	272	***** WSDM PARAMETER LIST AREA *****	02730000	0008 3
02190000	273 *	RECOMMENDED * THIS PART OF THE WORKAREA IS USED TO DO WORKSTN I/O *	02740000	0006 3
02200000	274 *	USE * AND INTERFACE WITH WORKSTN DATA MANAGEMENT.	02750000	0004 3
02210000	275	*****	02760000	0002 3
02220000	277 *	WSPL WSDM PARAMETER LIST EQUATES	02780000	0001 3
02230000				3
02240000				
02250000				
02260000				
02270000	279 *		02800000	0003 3

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SPL/3	VERSION 08/28/80	PAGE 56	TIME 02:15	DATE 81/12/08
IF DO	LINE	SOURCE		
01	3026	SPACE 1		
02	3027	TCBATNS EQU X'80'	TASK ATTACHED NON-SUMPPABLE	
	3028	TCBOSKTR EQU X'40'	DISKETTE CANCEL RECURSION INDICATOR	
	3029	TCBDUMP EQU X'20'	DUMP SHOULD BE TAKEN INDICATOR	
03	3030	TCBSFTLK EQU X'10'	SECURITY-INITIATOR INTERLOCK.	
	3031	TCBDUMP EQU X'08'	NO DUMP WAS TAKEN FOR ERROR CONDITION	
	3032	TCBSFTLK EQU X'04'	WORKSTATION QUEUE SPACE INTERLOCK	
04	3033	TCBSHNRQ EQU X'02'	SNA REQUIRED	
	3034	TCBDEDQ EQU X'01'	DEDICATION OVERRIDE INDICATOR.	
	3035	SPACE 1		
05	3036	TCBAT EQU TCBSTAT6+1	BATCH ACTIVE TIMEOUT COUNT	
	3037	TCBDUMPR EQU X'80'	MEDIUM PRIORITY (SEE TCBPRIO)	
	3038	BATCOUNT EQU 5	NUMBER OF TIMEOUTS ALLOWED.	
	3039		* ONLY BITS 1-7 APPLY TO BATCOUNT.	
06	3040	SPACE 1		
	3041	TCBSUSPS EQU TCBAT+1	SUSPENSION STATUS INDICATOR	
	3042	SPACE 1		
07	3043	TCBSPLNK EQU X'80'	TASK SUSPENDED DUE TO UNLOCK	
	3044	TCBSOTSD EQU X'40'	TASK SUSPENDED DUE TO SYSTEM OPERATOR	
	3045	TCBINQSP EQU X'20'	TASK SUSPENDED DUE TO INQUIRY	
08	3046	TCBSPLSP EQU X'10'	TASK SUSPENDED DUE TO SPOOL SUS/RES	
	3047	TCBSOTAC EQU X'02'	TASK SUSPENDED DUE TO ADDRESS COMPARE	
	3048	TCBINOSP EQU X'01'	TASK SUSPENDED DUE TO I/O ERROR	
09	3049	SPACE 1		
	3050	TCBINFLG EQU TCBUSPS+1	WSM INITIALIZATION STATUS.	
	3051	SPACE 1		
10	3052		* SEE TUB INCD (BYTE TUBINFLG) FOR BIT DEFINITIONS WITHIN TCBINFLG.	
	3053	SPACE 1		
	3054	TCBSHPT EQU TCBINFLG+2	SIF POINTER	
11	3055		* THE FOLLOWING EQUATE IS USED TO SET ON THE X'80' BIT IN THE HIGH	
	3056		* BYTE OF THE SIF POINTER FIELD. CURRENTLY THIS FIELD IS USED AS	
	3057		* A SHIP-IN COUNTER INSTEAD OF AN ADDRESS FIELD.	
12	3058	TCBSHPT EQU X'80'	SIF HAS PROCESSED THIS TCB	
	3059		*	
	3060	SPACE 1		
13	3061	TCBK EQU TCBHPT+1	AMOUNT OF TASK SHIPPED OUT	
	3062	SPACE 1		
	3063	TCBSTAT7 EQU TCBK+1	TCB STATUS BYTE 7	
	3064		*	
	3065	TCBSPLWR EQU X'80'	SPOOL WRITER ID	
	3066	TCBSPLSR EQU X'40'	SPOOL TERMINATION	
15	3067	SPACE 1		
	3068	TCBLEN EQU TCBSTAT7+2	LENGTH OF TCB + EXPANSION.	
	3069		*** END OF EXPANSION ***	
16	3070		TUB	01080000
	3071		*****	
	3072		*	
17	3073		TERMINAL UNIT BLANK FOR TERMINALS	
	3074		*	
	3075		*****	
18	3076		* 00 * 01 * 02 * 03 * 04 * 05 * 06 * 07 *	
	3077		* ECH * COMPL * FLAG * COND * COND * UNIT * UNIT *	
	3078		*****	
19	3079		* 08 * 09 * 0A * 0B * 0C * 0D * 0E * 0F *	
	3080		* COUNT * SENSE BYTES *	

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IF DO	LINE	
01	3081	*****
02	3082	* 10 * 11
	3083	* TCBA
	3084	*****
03	3085	* 18 * 19
	3086	* ERAID * MI
	3087	*****
04	3088	* 20 * 21
	3089	* ID * WS
	3090	*****
05	3091	* 28
	3092	*
	3093	*****
06	3094	* 30 * 31
	3095	* OPST * JC
	3096	*****
07	3097	* 38 * 39
	3098	* ATTR4 * ATTR5
	3099	*****
08	3100	* 40 * 41
	3101	* ASGNL
	3102	*****
09	3103	* 48 * 49
	3104	* ATTR9 * RF
	3105	*****
10	3106	* 50 * 51
	3107	* CYSK * FFSK
	3108	*****
11	3109	* 58 * 59
	3110	* ATTR * TUNGT
	3111	*****
12	3112	EJECT
	3113	*****
	3114	*
	3115	*
13	3116	*
	3117	*****
14	3118	* 00 * 01
	3119	* ECH * COMPL
	3120	*****
15	3121	* 08 * 09
	3122	* COUNT
	3123	*****
16	3124	* 10 * 11
	3125	* TCBA
	3126	*****
17	3127	* 18 * 19
	3128	* ERAID * MI
	3129	*****
18	3130	* 20 * 21
	3131	* ID * CFC
	3132	*****
19	3133	* 28
	3134	* FORMS
	3135	*****

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SPL/3	VERSION 08/28/80	PAGE 20	TIME 02:15	DATE 81/12/08
IF DO	LINE	SOURCE		
01	1046	*** END OF EXPANSION ***		
	1047	*		
02	1048	ECHPART EQU 0	PART BYTE OFFSET	00960000

SPL/3	VERSION 08/28/80	
IF DO	LINE	
01	1049	*
	1049	ECHPART EQU 0
02	1049	*

02610000	0002 311 WDOPM EQU WDRTC+1	EXTERNAL OP-CODE MODIFIER	03120000	0012
02620000				0017
02640000				0013
02650000	0000 313 WDSYS EQU X'80'	SYSTEM REQUEST	03140000	001A
02660000	0040 314 WDOVR EQU X'40'	VERRIDE REQUEST	03150000	0045
02670000	0040 315 WDFMHD EQU X'40'	FUNCTION MANAGEMENT HEADER	03160000	0041
02680000	0020 316 WDRDL EQU X'20'	ROLL REQUEST	03170000	0032
	0020 317 WDPHT EQU X'20'	PASS THRU MODIFIER	03180000	0020
02700000	0010 318 WDUNF EQU X'10'	UNFORMATTED REQUEST	03190000	0025
02710000	0008 319 WDPRT EQU X'08'	PRINT REQUEST	03200000	0021
	0008 320 WDRDSN EQU X'08'	READ SCREEN MODIFIER	03210000	0010
02730000	0006 321 WDMTR EQU X'06'	WRITE ERROR OPERATION	03220000	0015
02740000	0004 322 WDSAVE EQU X'04'	SAVE REQUEST	03230000	0011
02750000	0004 323 WDRWD EQU X'04'	READ MODIFIED IMMEDIATE	03240000	00E0
02760000	0002 324 WDRSTR EQU X'02'	RESTORE REQUEST	03250000	00E8
	0001 325 WDRPRF EQU X'01'	PUT FOR READ UNDER FORMAT	03260000	00F0
02780000	326 *		03270000	00F8
				00FF
				000B
02800000	0003 328 WDOPC EQU WDOPM+1	EXTERNAL OP-CODE	03290000	

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01	IF DO LINE SOURCE				01	IF DO LINE
	3081 *****					3136 * 30
	3082 * 10 * 11 * 12 * 13 * 14 * 15 * 16 * 17 *					3137 * TUBPSUBC
02	3083 * TCBA * CHAIN * DEVID * QDR * ERPCT * ERBFG *					3138 ***OPTIONAL AD
	3084 *****					3139 * 38 * 39
	3085 * 18 * 19 * 1A * 1B * 1C * 1D * 1E * 1F *					3140 * RESERVED
03	3086 * ERAND * NIC * OPTS * SIOCT * ERNCT * US- *					3141 ***OPTIONAL AD
	3087 *****					3142 EJECT
	3088 * 20 * 21 * 22 * 23 * 24 * 25 * 26 * 27 *					3143 *****
04	3089 * ID * USAN * TCB * AID * CPAID * RESVD *					3144 *
	3090 *****					3145 *****
	3091 * 28 * 2F *					3146 SPACE
05	3092 * USER ID *					3147 *****
	3093 *****					3148 *
	3094 * 30 * 31 * 32 * 33 * 34 * 35 * 36 * 37 *					3149 *****
06	3095 * OPST * JCBA * TUBTUB * ATTR1 * ATTR2 * ATTR3 *					3150 SPACE
	3096 *****					3151 *
	3097 * 38 * 39 * 3A * 3B * 3C * 3D * 3E * 3F *					3152 *
07	3098 * ATTR4 * ATTR5 * ATTR6 * CTSW * APINT * PSCCT *					3153 *
	3099 *****					3154 SPACE
	3100 * 40 * 41 * 42 * 43 * 44 * 45 * 46 * 47 *					3155 TUBECH EQU
08	3101 * ASGNL * ASGND * ATTR7 * ATTR8 * HELPM *					3156 SPACE
	3102 *****					3157 TUBSKIP EQU
	3103 * 48 * 49 * 4A * 4B * 4C * 4D * 4E * 4F *					3158 TUBREAL EQU
09	3104 * ATTR9 * NFSS * NFI * NFCS * NFDSP * TUBCHK ... *					3159 TUBSNO EQU
	3105 *****					3160 * EQU
	3106 * 50 * 51 * 52 * 53 * 54 * 55 * 56 * 57 *					3161 * EQU
10	3107 * CYSK * FYSK * DEXTA * ATTR10 * PEGID * TUBPATX *					3162 * EQU
	3108 *****					3163 * EQU
	3109 * 58 * 59 * 5A * 5B * 5C * 5D * 5E * 5F *					3164 * EQU
11	3110 * ATTR11 * TUBDGTUB * ATTR12 * RESERVED *					3165 SPACE
	3111 *****					3166 TUBCONPL EQU
	3112 EJECT					3167 SPACE
12	3113 *****					3168 TUBACTV EQU
	3114 *					3169 TUBCONPL EQU
	3115 * TERMINAL UNIT BLOCK FOR PRINTERS *					3170 * EQU
13	3116 *					3171 * EQU
	3117 *****					3172 * EQU
	3118 * 00 * 01 * 02 * 03 * 04 * 05 * 06 * 07 *					3173 TUBSEND EQU
14	3119 * ECH * CONPL * FLAG * CND * CND * UNITA * UNITB *					3174 * EQU
	3120 *****					3175 TUBERR EQU
	3121 * 08 * 09 * 0A * 0B * 0C * 0D * 0E * 0F *					3176 TUBACTV EQU
15	3122 * CONRT * SENSE BYTES *					3177 SPACE
	3123 *****					3178 TUBFLAG EQU
	3124 * 10 * 11 * 12 * 13 * 14 * 15 * 16 * 17 *					3179 SPACE
16	3125 * TCBA * CHAIN * DEVID * QDR * ERPCT * ERBFG *					3180 TUBRMP EQU
	3126 *****					3181 TUBRNDZ EQU
	3127 * 18 * 19 * 1A * 1B * 1C * 1D * 1E * 1F *					3182 TUBRSTOR EQU
17	3128 * ERAND * NIC * OPTS * SIOCT * ERNCT * US- *					3183 TUBDWN EQU
	3129 *****					3184 TUBDNL EQU
	3130 * 20 * 21 * 22 * 23 * 24 * 25 * 26 * 27 *					3185 TUBRTSU EQU
18	3131 * ID * USAN * TCB * AID * CPAID * RESVD *					3186 TUBRNDCH EQU
	3132 *****					3187 TUBDPTCS EQU
	3133 * 28 * 29 * 2A * 2B * 2C * 2D * 2E * 2F *					3188 SPACE
19	3134 * FRONTS NUMBER * ENLIN * CHLIN * FRONP * FRONST *					3189 TUBDND EQU
	3135 * OPTIONAL ADDITION BELOW * OPTIONAL ADDITION BELOW *					3190 SPACE

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01	IF DO LINE SOURCE				01	IF DO LINE
	1101 * EQU 0					1156 *****
	1102 * SENDERR EQU X'0F'					1157 *
02	1103 *					1158 *

03120000	0022 361 WDFPH EQU X'22'	PUT END OF FILE	03620000
	0017 363 WDFPH EQU X'17'	PFM INVITE	03640000
03140000	0013 364 WDFPH EQU X'13'	PFM GET	03650000
03150000	001A 365 WDFPH EQU X'1A'	PUT END OF TRANSACTION	03660000
03160000	0045 366 WDFPH EQU X'45'	REQ. CHANGE DIR. INVITE	03670000
03170000	0041 367 WDFPH EQU X'41'	REQ. CHANGE DIR. GET	03680000
03180000	0032 368 WDFPH EQU X'32'	PUT FAIL RESPONSE	03690000
03190000	0020 369 WDFPH EQU X'20'	NEGATIVE RESPONSE	03700000
03200000	0025 370 WDFPH EQU X'25'	NEGATIVE RESPONSE INVITE	03710000
03210000	0021 371 WDFPH EQU X'21'	NEGATIVE RESPONSE GET	03720000
03220000	0010 372 WDFPH EQU X'10'	CANCEL	03730000
03230000	0015 373 WDFPH EQU X'15'	CANCEL INVITE	03740000
03240000	0011 374 WDFPH EQU X'11'	CANCEL GET	03750000
03250000	00E0 375 WDFPH EQU X'E0'	NORMAL END OF STEP	03760000
03260000	00E8 376 WDFPH EQU X'E8'	NORMAL END OF JOB	03770000
03270000	00F0 377 WDFPH EQU X'F0'	ABNORMAL END OF STEP	03780000
	00F8 378 WDFPH EQU X'F8'	ABNORMAL END OF JOB	03790000
	00FF 379 WDFPH EQU X'FF'	ICSSQS ASSIGN FAILURE	03800000
03290000	0008 380 WDFPH EQU X'08'	SET TIMER	03810000

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ME 02:15	DATE 81/12/08	SPL/3	VERSION 08/28/80	PAGE 58	TIME 02:15	DATE 81/12/08	SPL/3	VERSION 08/28/80
		01	IF DO				01	IF DO
			3136 * 30 * 32 33 * 34 * 35 * 37 *					3191 TUBSDA
			3137 * TUBPSUBC * TUBPGTUB * PATRI * PLPI * RESERVED *					3192 TUBSPNAV
		02	3138 ***OPTIONAL ADDITION ABOVE*****OPTIONAL ADDITION ABOVE*****				02	3193 TUBSEXEC
			3139 * 38 * 39 * 3A * 3B * 3C * 3D * 3E * 3F *					3194 TUBSPOLL
			3140 * RESERVED RESERVED RESERVED *					3195 TUBSTDL
		03	3141 ***OPTIONAL ADDITION ABOVE*****OPTIONAL ADDITION ABOVE*****				03	3196 TUBSCNCL
			3142 EJECT					3197 TUBREXEC
			3143 *****					3198 TUBRPOLL
		04	3144 * TERMINAL UNIT BLOCK (TUB) *				04	3199 TUBRCNCL
			3145 *****					3200 TUBMLOCL
			3146 SPACE 2					3201 TUBPSUB
		05	3147 *****				05	3202 TUBDEVIC
			3148 * COMMON SECTION OF THE TUB *					3203
			3149 *****					3204 TUBCYD
		06	3150 SPACE				06	3205
			3151 *					3206 TUBSPWI
			3152 * TERMINAL I/O / PRINTER DCB					3207 TUBSOUP
		07	3153 *				07	3208 TUBSSAVE
			3154 SPACE					3209 TUBSSAWS
			3155 TUBECH EQU 0 EVENT CONTROL MASK					3210 TUBSDSN
		08	3156 SPACE				08	3211 TUBSDIN
			3157 TUBSKIP EQU X'80' . NO SKIP BIT					3212 TUBSTR
			3158 TUBREAL EQU X'40' . DATA ADDRESS IS REAL					3213 TUBSRPD
		09	3159 TUBINTO EQU X'20' . NON I/O EVENT				09	3214
			3160 * EQU X'10' . RESERVED (MUST BE ZERO)					3215 TUBUNITA
			3161 * EQU X'08' . RESERVED (MUST BE ZERO)					3216 TUBDATAD
		10	3162 * EQU X'04' . RESERVED (MUST BE ZERO)				10	3217 TUBCOUNT
			3163 * EQU X'02' . RESERVED (MUST BE ZERO)					3218
			3164 * EQU X'01' . RESERVED (MUST BE ZERO)					3219 TUBSENSO
		11	3165 SPACE				11	3220
			3166 TUBCNPL EQU TUBECH+1 I/O COMPLETION CODE					3221 * DATA STR
			3167 SPACE					3222 *
		12	3168 TUBACTV EQU X'80' . I/O REQUEST ACTIVE				12	3223 * US LONTR
			3169 TUBCNPL EQU X'40' . I/O REQUEST COMPLETE					3224 *
			3170 * EQU X'20' . RESERVED (MUST BE ZERO)					3225 * RESOURC
		13	3171 * EQU X'10' . RESERVED (MUST BE ZERO)				13	3226 *
			3172 * EQU X'08' . NOT USED					3227 *
			3173 TUBSGND EQU X'04' . INPUT BUFFER ASSIGNED					3228 *
		14	3174 * EQU X'02' . RESERVED FOR PRINTER				14	3229 *
			3175 TUBERR EQU X'01' . ERROR FOUND INDICATOR					3230 *
			3176 TUBACTV EQU X'00' . WRITE ACTIVE					3231 *
		15	3177 SPACE				15	3232 *
			3178 TUBFLAG EQU TUBCNPL+1 FLAG BYTE					3233
			3179 SPACE					3234 TUBSENSI
		16	3180 TUBNSIP EQU X'80' . INDICATES USER DEFINED ENP				16	3235
			3181 TUBERR2 EQU X'40' . NO RETURN ON PERMANENT ERROR					3236 * SCREEN
			3182 TUBNSIP EQU X'20' . HARD INPUT BUFFER ASSIGNMENT					3237 *
		17	3183 TUBNSIP EQU X'10' . TUB NOT ALLOWED OFF VERTICAL TERMINAL				17	3238 *
			3184 TUBNSIP EQU X'08' . DEVICE ONLINE					3239 *
			3185 TUBNSIP EQU X'04' . READ INPUT ISSUED TO TUB					3240 *
		18	3186 TUBNSIP EQU X'02' . READ INPUT NOT COMPLETE				18	3241 *
			3187 TUBNSIP EQU X'01' . DATA IN CONTROL STORE					3242 *
			3188 SPACE					3243 *
		19	3189 TUBNSIP EQU TUBFLAG+1 I/O COMMAND BYTE				19	3244 *
			3190 SPACE					3245

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		01	IF DO				01	IF DO
			1156 *****					1211 * #0000
			1157 *					1212
		02	1158 *				02	1213

03620000	0011	409	WDLNE	EQU	WDLNE+1	END LINE NUMBER FOR ROLL	04100000	0014	463
03630000	0012	410	WDVSLN	EQU	WDLNE+1	VARIABLE START LINE NUMBER	04110000		464
03640000	0014	411	WDINDA	EQU	WDLN+2	ADDRESS OF OVERRIDE INDICATORS	04120000	0016	465
03650000	0016	412	WDFMTN	EQU	WDIND+2	FORMAT INDEX ENTRY ADDRESS	04130000	0017	466
03660000	0017	413	WDLLEN	EQU	WDFMTN+1	PARAMETER LIST LENGTH	04140000	0018	467
03670000		414	****	END OF EXPANSTION **			04150000	0019	468
03680000	0016	415	CPMSDM	EQU	CPMRK+WDLN-1	WSDM PARAMETER LIST AREA	04160000	001A	469
03690000								001B	470
03700000		417	*****	MESSAGE RETRIEVE PARAMETER LIST *****			04180000	001C	471
03710000		418	*	RECOMMENDED * THIS PART OF THE WORKAREA IS USED TO INTERFACE *			04190000	001D	472
03720000		419	*	USE * WITH THE MESSAGE RETRIEVE FUNCTION.			04200000	001E	473
03730000		420	*****				04210000	001F	474
03740000								0020	475
03750000	000F	422	CPMRTV	EQU	0+15	MSG RETRIEVE PLIST	04230000	0021	476
03760000								0022	477
03770000		424	*****	COMMAND OPERAND TABLE *****			04250000	0023	478
03780000		425	*	EXPECTED * THIS PART OF THE WORKAREA CONTAINS A TABLE OF *			04260000	0024	479
03790000		426	*	USE * OPERAND ADDRESSES USED BY ALL COMMAND XIENTS.			04270000	0025	480
03800000		427	*****				04280000	0026	481
03810000								0027	482
	0017	429	CPOPLN1	EQU	CPMSDM+1	OPERAND 1 LENGTH-1	04300000	0028	483

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15	DATE 81/12/08	SPL/3	VERSION 08/28/80	PAGE 59	TIME 02:15	DATE 81/12/08	SPL/3	VERSION 08/28/80
01		IF DO	LINE	SOURCE			01	IF DO
			3191	TUB90A EQU X'CO'	. LOCAL WORKSTATION DEVICE ADDRESS			3246
			3192	TUB9PWA EQU X'EO'	. NATIVE PRINTER DEVICE ADDRESS			3247
02			3193	TUB9XEC EQU X'CO'	. EXEC I/O OPERATION CODE		02	3248 *
			3194	TUB9POLL EQU X'C1'	. EXEC INVITE OPERATION			3249 *
			3195	TUB9TLE EQU X'C2'	. QUITESCE			3250 *
03			3196	TUB9CNCL EQU X'C3'	. CANCEL INVITE OPERATION		03	3251 *
			3197	TUB9XEC EQU X'80'	. REMOTE EXEC I/O OPERATION CODE			3252 *
			3198	TUB9POLL EQU X'81'	. REMOTE INVITE OPERATION			3253 *
04			3199	TUB9CNCL EQU X'83'	. REMOTE CANCEL INVITE OPERATION		04	3254 *
			3200	TUB9LOCL EQU X'40'	. THIS TUB IS A LOCAL TUB			3255 *
			3201	TUB9SUB EQU X'CO'	. (OFF) IF OFF, THIS IS A SUB			3256 *
05			3202	TUB9DEVIC EQU TUB9CHND	DEVICE ADDRESS		05	3257 *
			3203	SPACE				3258 *
			3204	TUB9CHND EQU TUB9CHND+1	JOB COMMAND MODIFIER CODE			3259 *
06			3205	SPACE			06	3260 *
			3206	TUB9PUT EQU X'47'	. PUT WITH INVITE OPERATION			3261 *
			3207	TUB9SUPT EQU X'27'	. OUTPUT OPERATION			3262 *
07			3208	TUB9SAVE EQU X'02'	. SAVE TABLE OPERATION		07	3263
			3209	TUB9SAVS EQU X'06'	. SAVE SCREEN OPERATION			3264
			3210	TUB9INSH EQU X'62'	. READ SCREEN INPUT OPERATION			3265
08			3211	TUB9INDIN EQU X'42'	. READ INPUT FIELDS OPERATION		08	3266
			3212	TUB9INSTR EQU X'07'	. RESTORE OPERATION			3267
			3213	TUB9MOD EQU X'22'	. READ MODIFIED IMMEDIATE			3268 *
09			3214	SPACE			09	3269 *
			3215	TUB9UNITA EQU TUB9CHND+1	UNIT ADDRESS			3270
			3216	TUB9DATA EQU TUB9UNITA+2	DATA BUFFER ADDRESS			3271 *
10			3217	TUB9COUNT EQU TUB9DATA+2	DATA TRANSFER BYTE COUNT		10	3272 *
			3218	SPACE				3273 *
			3219	TUB9SEN0 EQU TUB9COUNT+1	SENSE BYTE 0			3274 *
11			3220	SPACE			11	3275 *
			3221	* DATA STREAM REJECT	* REFERENCE GROUP 1 IN TUB9SEN4			3276 *
			3222	* EQU X'80'	. DATA STREAM REJECT			3277 *
12			3223	* US CONTROL FIELD ERROR	* REFERENCE GROUP 2 IN TUB9SEN4		12	3278 *
			3224	* EQU X'40'	. US CONTROL FIELD ERROR			3279 *
			3225	* RESOURCES NOT AVAILABLE	* REFERENCE GROUP 3 IN TUB9SEN4			3280 *
13			3226	* EQU X'20'	. RESOURCES TEMPORARILY NOT AVAILABLE		13	3281 *
			3227	* EQU X'10'	. US CONTROLLER BDD/UDI PARITY CHECK			3282 *
			3228	*	* REFERENCE GROUP 4 IN TUB9SEN4			3283 *
14			3229	* EQU X'08'	. OPERATION CHECK		14	3284 *
			3230	* EQU X'04'	. US CONTROLLER STORAGE PARITY CHECK			3285 *
			3231	* EQU X'02'	. RESERVED			3286
15			3232	* EQU X'01'	. US CONTROLLER LONG TIME OUT		15	3287 *
			3233	SPACE				3288 *
			3234	TUB9SEN1 EQU TUB9SEN0+1	SENSE BYTE 1			3289
16			3235	SPACE			16	3290 *
			3236	* SCREEN FORMAT ERROR	* REFERENCE GROUP 5 IN TUB9SEN4			3291 *
			3237	* EQU X'80'	. SCREEN FORMAT ERROR			3292 *
17			3238	* EQU X'40'	. NO RESPONSE TIME OUT		17	3293 *
			3239	* EQU X'20'	. IMMEDIATE ACTIVITY CHECK			3294
			3240	* EQU X'10'	. ACTUATOR COMMAND FAILURE			3295 *
18			3241	* EQU X'08'	. RECEIVE PARITY CHECK		18	3296 *
			3242	* EQU X'04'	. RECEIVE LENGTH CHECK			3297
			3243	* EQU X'02'	. NOT USED			3298 *
19			3244	* EQU X'01'	. REWIND TIME OUT		19	3299
			3245	SPACE				3300 *

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15	DATE 81/12/08	SPL/3	VERSION 08/28/80	PAGE 23	TIME 02:15	DATE 81/12/08	SPL/3	VERSION 08/28/80
01		IF DO	LINE	SOURCE			01	IF DO
			3266	* PREFERENCE WAS SPECIFIED				3266 *
			3267	SPACE				3267 *
			3268	* THE FOLLOWING				3268 *

0410000	0014	463	ERRDFF	EQU	X'14'	. SIGN OFF DUE TO I/O ERROR	04640000	0002
04110000		464	*	EQU	X'15'	. UNUSED	04650000	
04120000	0016	465	ERRCNCL	EQU	X'16'	. I/O ERROR CONSOLE REBUILD REQUEST	04660000	
04130000	0017	466	ERRCNCL	EQU	X'17'	. I/O ERROR CANCEL REQUEST	04670000	0001
04140000	0018	467	ERRRESM	EQU	X'18'	. I/O ERROR INQUIRY RESUME REQUEST	04680000	
04150000	0019	468	TIMESTAT	EQU	X'19'	. TIMER STATUS REQUEST (DEVELOPMENT)	04690000	0027
04160000	001A	469	INDOPT1	EQU	X'1A'	. INQUIRY OPTION ONE REQUEST	04700000	0028
	001B	470	SETDUMP	EQU	X'1B'	. SETDUMP COMMAND CODE	04710000	0080
04180000	001C	471	ACDMSG	EQU	X'1C'	. DISPLAY ADDRESS COMPARE DUMP MSG	04720000	0040
04190000	001D	472	CNCLSVK	EQU	X'1D'	. CANCEL SVC CODE	04730000	
04200000	001E	473	ACDERR	EQU	X'1E'	. ADDR COMPARE DUMP ERRS TO CONSOLE	04740000	
04210000	001F	474	ACDRESUM	EQU	X'1F'	. ADDR COMPARE DUMP AUTO RESUME	04750000	
	0020	475	ACDEND	EQU	X'20'	. END ADDRESS COMPARE DUMP	04760000	0020
04230000	0021	476	ACDUPDTE	EQU	X'21'	. UPDATE ADDRESS COMPARE DUMP	04770000	
	0022	477	CLRMENU	EQU	X'22'	. END THE MENU, BUT NO I/O	04780000	0010
04250000	0023	478	IDDELETE	EQU	X'23'	. IDDELETE COMMAND CODE	04790000	
04260000	0024	479	OFFOCL	EQU	X'24'	. OFF OCL STATEMENT	04800000	
04270000	0025	480	CPICALL	EQU	X'25'	. CPIQ CALL	04810000	
04280000	0026	481	CPONCALL	EQU	X'26'	. CPON CALL	04820000	
	0027	482	CMICALL	EQU	X'27'	. CMCI CALL	04830000	0028
04300000	0028	483	STOPJOB	EQU	X'28'	. CALL TO AUTOMATICALLY STOP JOB, ALL	04840000	002A

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01	IF DO	LINE	SOURCE					
		3246	TUBSENS2 EQU TUBSENS1+1	SENSE BYTE 2				
		3247	SPACE					
		3248 *	EQU X'80'	. DEVICE HUNG BUSY				
		3249 *	EQU X'40'	. LINE PARITY CHECK				
		3250 *	EQU X'20'	. UNIT NOT AVAILABLE (PRINTER ONLY)				
		3251 *	EQU X'10'	. OUTSTANDING STATUS				
		3252 *		EXCEPTION STATUS EQUATES START				
		3253 *	EQU X'0E'	. NO STATUS (ALL BITS OFF)				
		3254 *	EQU X'02'	. NULL OR ATTRIBUTE ERROR				
		3255 *	EQU X'04'	. INVALID ACTIVATE				
		3256 *	EQU X'06'	. RESERVED				
		3257 *	EQU X'08'	. INVALID COMMAND OR DEVICE ID				
		3258 *	EQU X'0A'	. INPUT QUEUE OR STORAGE OVERRUN				
		3259 *	EQU X'0C'	. INVALID REGISTER VALUE				
		3260 *	EQU X'0E'	. POWER ON TRANSITION				
		3261 *		EXCEPTION STATUS EQUATES END				
		3262 *	EQU X'01'	. EVEN/ODD RESPONSE LEVEL				
		3263	SPACE					
		3264	TUBSENS3 EQU TUBSENS2+1	SENSE BYTE 3				
		3265	SPACE					
		3266	TUBSENS4 EQU TUBSENS3+1	SENSE BYTE 4 - ERROR CODES				
		3267	SPACE					
		3268 *		GROUP 1 - DATA STREAM REJECT ERRORS				
		3269 *		( REFERENCE TUBSENS0 BIT0 )				
		3270	SPACE					
		3271 *	EQU X'01'	. PREMATURE END OF DATA STREAM				
		3272 *	EQU X'02'	. INVALID ROW/COLUMN ADDRESS				
		3273 *	EQU X'03'	. RA ADDRESS IS LESS THAN PRESENT VALUE				
		3274 *		OF THE ADDRESS COUNTER				
		3275 *	EQU X'04'	. ESCAPE CHARACTER MISSING OR INVALID				
		3276 *		COMMAND CODE				
		3277 *	EQU X'05'	. INVALID START FIELD LENGTH				
		3278 *	EQU X'06'	. INVALID START FIELD ADDRESS				
		3279 *	EQU X'07'	. MESSAGE ISSUED TO MISSING DISPLAY STATION				
		3280 *	EQU X'08'	. INPUT FIELD PAST END OF SCREEN				
		3281 *	EQU X'09'	. FORMAT TABLE OVERFLOW				
		3282 *	EQU X'0A'	. DATA WRITTEN PAST END OF SCREEN				
		3283 *	EQU X'0B'	. START OF MEMBER LENGTH = 3				
		3284 *	EQU X'0C'	. NULL PARAMETER ERROR				
		3285 *	EQU X'0D'	. TOO MANY FORMAT CONTROL WORDS DEFINED				
		3286	SPACE					
		3287 *		GROUP 2 - VS CONTROL FIELD ERRORS				
		3288 *		( REFERENCE TUBSENS0 BIT1 )				
		3289	SPACE					
		3290 *	EQU X'01'	. INVALID COMMAND MODIFIER				
		3291 *	EQU X'02'	. INVALID BYTE COUNT (0 OR 4096)				
		3292 *	EQU X'03'	. DEVICE ADDRESS NOT FOUND				
		3293 *	EQU X'04'	. BYTE COUNT = ACTUALLY TRANSFERRED				
		3294	SPACE					
		3295 *		GROUP 3 - RESOURCES TEMPORARILY NOT AVAILABLE ERRORS				
		3296 *		( REFERENCE TUBSENS0 BIT2 )				
		3297	SPACE					
		3298 *	EQU X'01'	. PRINTER BUSY DURING WRITE ATTEMPT				
		3299	TUBSENS0 EQU X'02'	. VS UN ERROR NAME				
		3300 *	EQU X'03'	. DEVICE OFFLINE ERROR				

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SPL/3	VERSION	08/28/80	PAGE	24	TIME	02:15	DATE	81/12/08
01	IF DO	LINE	SOURCE					
		1206 *						
		1207 *		THE FOLLOWING FIELDS ARE ONLY SUPPORTED IN THE MFA FORMAT-1				
		1321						
		1322		FINDLSTK EQU				

04650000	13	0002	518	CMCUSUB	EQU	X'02'	. 0=NO MSG SUBSTITUTION	05190000	13	570
04660000			517 *				. 1=INCLUDE INPUT LINE IN ROLL	05180000		571 *
04670000	14	0001	520	CMCUBDC	EQU	X'01'	. 0=THIS IS NOT A BROADCAST	05200000	14	572 *
04680000			521 *				. 1=THIS IS A MSG BROADCAST	05220000		573 *
04700000	15	0027	523	CMCMIC	EQU	CMCMIC*2	MIC NUMBER TO BE LOGGED/DISPLAYED	05240000	15	574 *
04710000		0028	524	CMCUSW2	EQU	CMCMIC*1	SWITCH BYTE 2	05250000		575 *
04720000	16	0080	525	CMCUNINV	EQU	X'80'	. 0=INVITE WORK STATION	05260000	16	576 *
04730000			526 *				. 1=DO NOT INVITE WORK STATION	05270000		577 *
04740000	17	0040	527	CMCUNIO	EQU	X'40'	. 0=ISSUE WSDM OUTPUT	05280000	17	579 *****
04750000			528 *				. 1=DO NOT ISSUE WSDM OUTPUT	05290000		580 * EX!
04760000	18	0020	529	CMCUCOND	EQU	X'20'	. 0=DO NOT ROUTE ONLY TO CONSOLE	05300000	18	581 * !
04770000			530 *				. 1=ROUTE OUTPUT ONLY TO CONSOLE	05310000		582 *****
04780000	19	0010	531	CMCUSTAT	EQU	X'10'	. 0=IGNORE THIS BIT IF OFF	05320000	19	007D 584 CPFIRE
04790000			532 *				. 1=IF CMCUINP IS ON THEN DO NOT	05330000		007F 585 CPFIRE
04800000	20		533 *				UPDATE STATUS, IF CMCUINP IS OFF	05340000	20	587 *****
04810000			534 *				THEN UPDATE STATUS	05350000		588 * EXP
04820000	19		535 *				. BITS 4 - 7 RESERVED	05360000	19	589 * L
04830000		0028	536	CMCUNLEN	EQU	CMCUSW2	LENGTH OF OUTPUT TO *CPOC	05370000		590 *****
04840000	20	002A	537	CMCUMSG	EQU	CMCUSW2+2	ADDRESS OF IN CORE MESSAGE TEXT	05380000	20	

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DATE 81/12/88	SPL/3	VERSION 08/28/80	IF DO	LINE	SOURCE	PAGE 61	TIME 02:15	DATE 81/12/88
	01		3301 *	EQU X'04'	. PRINTER NEEDS INITIALIZATION			
	02		3302	TUBSRPD EQU X'05'	. NOT READY DUE TO OPERATOR ERROR MODE			
			3303 *		OR SYS REQ MODE			
			3304	TUBSRDAK EQU X'06'	. READ ISSUED TO UNLOCKED KEYBOARD ERROR			
	03		3305	TUBSPOFF EQU X'07'	. WS IS POWERED OFF			
			3306 *	EQU X'08'	. RESERVED			
			3307 *	EQU X'09'	. SAVE OR RESTORE ERROR			
	04		3308	SPACE				
			3309 *	GROUP 4 - OPERATION CHECK ERRORS				
			3310 *	( REFERENCE TUBSEN0 BIT4 )				
	05		3311	SPACE				
			3312 *	EQU X'01'	. SERDES TIME OUT			
			3313 *	EQU X'02'	. TIME OUT ON CYCLE STEAL DATA			
	06		3314 *	EQU X'05'	. ATOM NOT PROCESSING KEYSTROKES			
			3315	SPACE				
			3316 *	GROUP 5 - SCREEN FORMAT ERRORS				
			3317 *	( REFERENCE TUBSEN1 BIT0 )				
	07		3318	SPACE				
			3319 *	EQU X'01'	. INVALID FIELD LENGTH ERROR			
			3320 *	EQU X'02'	. RESEQUENCE ERROR IN FORMAT TABLE			
	08		3321 *	EQU X'03'	. CHECK DIGIT ERROR			
			3322	SPACE				
	09		3323	TUBSEN5 EQU TUBSEN5+1	SENSE BYTE 5			
			3324 *	EQU X'08'				
			3325	TUBSEN6 EQU TUBSEN6+6	SENSE BYTES			
	10		3326	TUBTCB EQU TUBSENSE+2	TCB ADDRESS FOR DATA BUFFER ATRIS			
			3327	SPACE				
			3328 *					
	11		3329 *	ERROR RECOVERY BLOCK (END)				
			3330 *					
			3331	SPACE				
	12		3332	TUBCHAIN EQU TUBTCB+2	TUB CHAIN FIELD			
			3333	SPACE				
			3334	TUBDEVID EQU TUBCHAIN+1	TUB DEVICE ID FOR EIP			
			3335	SPACE				
	13		3336	TUBDTRZ EQU X'E0'	. 5211 LINE PRINTER			
			3337	TUBDTRW EQU X'E1'	. 5256 WORKSTATION SERIAL PRINTER			
			3338	TUBDTRD EQU X'E2'	. 620 LPA LINE PRINTER			
	14		3339	TUBDTRR EQU X'E3'	. PAPER PRINTER			
			3340	TUBDTRP EQU X'E0'	. KEYBOARD DISPLAY WORKSTATION			
			3341	SPACE				
	15		3342	TUBDTRR EQU TUBDEVID+1	QUEUE NUMBER POINTER FOR PRINTER			
			3343	SPACE				
	16		3344	TUBDTRCT EQU TUBDTRR+1	EIP CONTROL BYTE			
			3345	SPACE				
			3346 *					
	17		3347 *	SEE THE ENDDCTL FIELD OF THE END RECORD FOR ASSOCIATED MESSAGES.				
			3348 *					
			3349	SPACE				
	18		3350	TUBDTRNG EQU TUBDTRCT+1	END FLAG BYTE			
			3351	SPACE				
			3352 *					
	19		3353 *	SEE THE ENDDFLG FIELD OF THE END RECORD FOR ASSOCIATED MESSAGES.				
			3354 *					
			3355	SPACE				

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DATE 81/12/88	SPL/3	VERSION 08/28/80	IF DO	LINE	SOURCE	PAGE 25	TIME 02:15	DATE 81/12/88
	01		13721	SPACE				
			13722	FINDLSTR EQU FINDREC+4	SSS/D OF NEXT KEY			

IN ROLL	05170000	13
IN ROLL	05180000	
IN ROLL	05190000	
BE PERFORMED	05200000	
BE PERFORMED	05210000	14
BE PERFORMED	05220000	
PLAYED	05240000	15
PLAYED	05250000	
STATION	05260000	
STATION	05270000	16
STATION	05280000	
OUTPUT	05290000	
SOLE	05300000	17
CONSOLE	05310000	
EN DO NOT	05320000	18
UIIMP IS OFF	05330000	
	05340000	
	05350000	
	05360000	19
	05370000	
TEXT	05380000	20

	570 *	NOTE: CPIO CAN DISPLAY ANY OF THE	05710000	13
	571 *	FOLLOWING DISPLAYS:	05720000	
	572 *	COMMAND DISPLAY	05730000	
	573 *	CONSOLE DISPLAY	05740000	14
	574 *	STANDBY DISPLAY	05750000	
	575 *	SRT INQUIRY DISPLAY	05760000	
	576 *	MRT INQUIRY DISPLAY	05770000	15
	577 *		05780000	
	579 *****	STATUS FIRE FIELD SAVEAREA *****	05800000	
	580 *	EXPECTED * THIS PART OF THE WORKAREA IS USED BY STATUS *	05810000	16
	581 *	USE * COMMAND TO GET THE FIRE CONTROL CHARACTER(S). *	05820000	
	582 *****	*****	05830000	
	007D	584 CPFIREL EQU CPWRKR+1 START OF FIRE FIELD SAVEAREA	05850000	17
	007F	585 CPFIRER EQU CPFIREL+2 END OF FIRE FIELD SAVEAREA	05860000	
	587 *****	ACCEPT INPUT BUFFER *****	05880000	18
	588 *	EXPECTED * THIS PART OF THE WORKAREA IS USED TO ACCEPT *	05890000	
	589 *	USE * AND LOG INPUT FROM A WORKSTN (*CPRT AND *CMCU). *	05900000	19
	590 *****	*****	05910000	

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SPL/3	VERSION 08/28/80	PAGE 62	TIME 02:15	DATE 81/12/08
IF DO	LINE	SOURCE		
	3356	TUBERAID EQU TUBERBFG+1 ERROR AID FLAG BYTE		
	3357	TUBMIC EQU TUBERAID+2 ERP MESSAGE ID CODE		
	3358	SPACE		
	3359	TUBOPTS EQU TUBMIC+1 ERP MESSAGE OPTIONS		
	3360	SPACE		
	3361 *			
	3362 *	SEE THE ERBOOPT FIELD OF THE ERB MACRO FOR ASSOCIATED MASKS.		
	3363 *			
	3364	SPACE		
	3365 *			
	3366 *	MISCELLANEOUS DATA		
	3367 *			
	3368	SPACE		
	3369	TUBSIOCT EQU TUBOPTS+2 START IO COUNT		
	3370	TUBERRCT EQU TUBSIOCT+1 ERROR RETRY COUNT		
	3371	TUBMSID EQU TUBERRCT+2 LOGICAL ID OF THE TERMINAL OR PRINTER		
	3372	TUBMSMA EQU TUBMSID+2 SS OF WORK STATION WORK AREA		
	3373	TUBPCFG EQU TUBMSMA SS OF PRINTER CONFIGURATION RECORD		
	3374	TUBTCB EQU TUBPCFG+2 TUB OWNER TCB ADDRESS AND ...		
	3375 *	PRINTER QNDR		
	3376	TUBCONV EQU TUBTCB END OF COMMON PORTION OF TUB		
	3377	SPACE 4		
	3378	*****		
	3379 *	DEVICE DEPENDENT SECTION OF THE TUB *		
	3380	*****		
	3381	SPACE 2		
	3382 *			
	3383 *	DISPLAY DATA		
	3384 *			
	3385	SPACE		
	3386	TUBAID EQU TUBCONV+1 AID BYTE (CENTER, REC ADV, ETC.) (DISPLAYS)		
	3387	TUBCPAID EQU TUBAID+1 AID BYTE (INQUIRY, SYS REQ) (DISPLAYS)		
	3388	TUBRESV EQU TUBCPAID+1 RESERVED BYTE		
	3389	TUBUSER EQU TUBRESV+8 OPERATOR ID		
	3390	TUBOPSTS EQU TUBUSER+1 OPERATOR STATUS		
	3391	TUBJOB EQU TUBOPSTS+2 ADDRESS OF JOB		
	3392	TUBJOB EQU TUBJOB+2 TUBJOB FOR SYS REQ AND INQUIRY		
	3393	SPACE		
	3394	TUBATTR1 EQU TUBJOB+1 ATTRIBUTE BYTE 1		
	3395	SPACE		
	3396	TUBCON EQU X'80" - MASTER CONSOLE		
	3397	TUBCON EQU X'40" - ALTERNATE CONSOLE		
	3398	TUBCON EQU X'20" - COPY/END TERMINAL/END-DATA TERM/OFF)		
	3399	TUBCON EQU X'10" - TERMINAL SIGNED ON		
	3400	TUBTSQ EQU X'08" - TEST REQUEST NAME		
	3401	TUBSTPJ EQU X'04" - JOB INITIATION NOT ALLOWED		
	3402	TUBLDFR EQU X'02" - USMA FORWARDED WITH LID DISPLAY		
	3403	TUBFCBL EQU X'01" - CONSOLE NAME FORCED BY LID ERROR		
	3404	SPACE		
	3405	TUBATTR2 EQU TUBATTR1+? TERMINAL NAME AND DISPLAY		
	3406	SPACE		
	3407	*****		
	3408 *	TERMINAL NAME INDICATORS *		
	3409	*****		
	3410 *	UNEX - STANDBY NAME * ONOR - INITIAL NAME *		

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SPL/3	VERSION 08/28/80	PAGE 62	TIME 02:15	DATE 81/12/08
IF DO	LINE	SOURCE		
	3411			
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05710000	0009	624	CXTRX	EQU	10	INTERNAL TIMER MASTER	06260000
05720000	000A	625	CXTIX	EQU	10	5211 PRINTER ERP XIENT	06270000
05730000	000B	626	CXNUTEID	EQU	11	5256 PRINTER ERP XIENT	06280000
05740000	000C	627	CXNUBEID	EQU	12	CTL PROCESSOR LOGGING XIENT	06290000
05750000	000D	628	CXNUELID	EQU	13	SET TRACE INDICATORS	06300000
05760000	000E	629	CXTRACE	EQU	14	DATA COMM BSCA LOGGING XIENT	06310000
05770000	000F	630	CXNUBLID	EQU	15	DATA COMM SOLC LOGGING XIENT	06320000
05780000	0010	631	CXNUSLID	EQU	16	I/O -- ERROR COUNTER LOGGING XIENT	06330000
	0011	632	CXNUGLID	EQU	17	A/D INITIALIZE ROUTINE	06340000
05800000	0012	633	CXADINIT	EQU	18	FDIOS ERROR RECOVERY	06350000
05810000	0013	634	CXFERP	EQU	19	CONCURRENT MAINTENANCE	06360000
05820000	0014	635	CXCONPNT	EQU	20	PRINTER/DISPLAY ERROR ROUTER	06370000
05830000	0015	636	CXNUPD	EQU	21	1295 ERROR TRANSIENT	06380000
	0016	637	CXNRE	EQU	22	I/O ERROR TRANSIENT	06390000
05850000	0017	638	CXNUIOE	EQU	23	REMOTE W/S LOGGING XIENT	06400000
05860000	0018	639	CXNULID	EQU	24	SET ADDR. COMP. REGISTERS XIENT	06410000
	0019	640	CXACDUMP	EQU	25	SYSTEM MEASURE FACILITY XIENT	06420000
05880000	001A	641	CXNUSHF	EQU	26	3262 PRINTER ERP XIENT	06430000
05890000	001B	642	CXNUNEID	EQU	27	1295 TRANSIENT #2	06440000
05900000	001C	643	CXNRLD	EQU	28	NON-SWAPPABLE GET PAGE XIENT	06450000
05910000	001D	644	CXNUGETP	EQU	29	FAST MATRIX PRINTER ERP XIENT	06460000
	001E	645	CXNUTEID	EQU	30		

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SPL/3	VERSION 08/28/80	PAGE 63	TIME 02:15	DATE 81/12/08
01	IF DO LINE	SOURCE		
	3411 *	OOXX - CONSOLE MODE *	0101 - DATA MODE *	
	3412 *	0110 - COMMAND MODE *	0111 - INTERRUPT MODE *	
02	3413	*****		
	3414	TUBMSTDY EQU X'80'	. TERMINAL IN STANDBY MODE (ON)	
	3415	TUBMCHSL EQU X'40'	. TERMINAL IN CONSOLE MODE (OFF)	
03	3416	TUBMSTN EQU X'40'	. TERMINAL IN WORKSTN MODE (ON)	
	3417	TUBMCHD EQU X'20'	. TERMINAL IN COMMAND MODE (ON)	
	3418	TUBMDATA EQU X'10'	. TERMINAL IN DATA MODE (ON)	
04	3419	TUBMOME EQU X'70'	. TERMINAL IN DATA MODE ESCAPE (ON)	
	3420	TUBMINIT EQU X'30'	. TERMINAL IN INITIAL MODE (OFF)	
	3421	SPACE		
05	3422	TUBMENMA EQU X'08'	. MENU DISPLAY ACTIVE	
	3423	TUBSTAT4 EQU X'04'	. STATUS DISPLAY ACTIVE	
	3424	TUBINPA EQU X'02'	. SYSIN/SYSLOG DISPLAY ACTIVE	
06	3425	TUBMSGA EQU X'01'	. MSG DISPLAY ACTIVE	
	3426	SPACE		
	3427	TUBATTR3 EQU TUBATTR2+1	INVITE INDICATORS	
07	3428	SPACE		
	3429	TUBIIS EQU X'80'	. INVITE SCHEDULED TO TUB	
	3430	TUBIPI EQU X'40'	. IMPLICIT INVITE TO TUB	
08	3431	TUBIPS EQU X'20'	. TUB INVITED VIA PRUF	
	3432	TUBIANF EQU X'10'	. AUTO RUF INVITE	
	3433	TUBIIS EQU X'08'	. SAME FOR TUBIIS STATUS	
09	3434	TUBIPI EQU X'04'	. SAME FOR TUBIPI STATUS	
	3435	TUBIPS EQU X'02'	. SAME FOR TUBIPS STATUS	
	3436	TUBIANF EQU X'01'	. SAME FOR TUBIANF STATUS	
10	3437	SPACE		
	3438	TUBATTR4 EQU TUBATTR3+1	INQUIRY/SYS REQ AND MISC	
	3439	SPACE		
11	3440	TUBHQ EQU X'80'	. TUB ON HORIZONTAL QUEUE	
	3441	TUBHQ1 EQU X'40'	. INQUIRY1 TUB	
	3442	TUBHQ2 EQU X'20'	. INQUIRY2 TUB	
12	3443	TUBIQP EQU X'10'	. INQUIRY MENU IS PENDING	
	3444	TUBHST1 EQU X'08'	. RESTORE SCREEN - INQ OR SYS REQ	
	3445	TUBHST2 EQU X'04'	. RESTORE SCREEN - MSG OR SYSLOG	
13	3446	TUBILOS EQU X'02'	. SYSIN/SYSLOG DISPLAY HAS BEEN SAVED	
	3447	TUBDEL EQU X'01'	. I DELETE FUNCTION IS ACTIVE	
	3448	SPACE		
14	3449	TUBATTR5 EQU TUBATTR4+1	RELEASE INDICATORS	
	3450	SPACE		
15	3451	TUBRY EQU X'80'	. RESTORE-Y ON OCL STATEMENT	
	3452	TUBRH EQU X'40'	. RESTORE-R ON OCL STATEMENT	
	3453	TUBLOP EQU X'20'	. LAST OP TO THE TUB WAS A PUT	
16	3454	TUBRSW EQU X'10'	. RELEASE STOP INV SUCCEEDED	
	3455	TUBRSF EQU X'08'	. RELEASE STOP INV FAILED	
	3456	TUBREL EQU X'04'	. TUB HAS BEEN RELEASED	
	3457	TUBSRQ EQU X'02'	. SRT HAS RELEASED REQUESTOR	
17	3458	TUBRTN EQU X'01'	. CALL TERMINATOR PRIOR TO RELEASE	
	3459	SPACE		
	3460	TUBATTR6 EQU TUBATTR5+1		
18	3461	SPACE		
	3462	TUBRSH EQU X'80'	. USER DISPLAY IS UP	
	3463	TUBRSSV EQU X'40'	. USER DISPLAY SAVED	
19	3464	TUBRSLST EQU X'20'	. SYSLIST DISPLAY UP	
	3465	TUBRSLCT EQU X'10'	. BRANCHLIST FAILURE	

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SPL/3	VERSION 08/28/80
01	IF DO LINE
	3466 TUBMROTA EQU X'
	3467 TUBSRILK EQU X'
02	3468 TUBHPND EQU X'
	3469 TUBKBULK EQU X'
	3470 SPACE
03	3471 TUBCTSAV EQU X'
	3472 TUBAPRNT EQU X'
	3473 TUBMSGCT EQU X'
04	3474 TUBMSGRT EQU X'
	3475 TUBMSGR2 EQU X'
	3476 TUBASGNL EQU X'
05	3477 TUBASGNB EQU X'
	3478 SPACE
	3479 TUBATTR7 EQU X'
06	3480 SPACE
	3481 TUBSRQPD EQU X'
	3482 TUBIOERR EQU X'
07	3483 TUBLIQDS EQU X'
	3484 TUBIOCRJ EQU X'
	3485 TUBREADY EQU X'
08	3486 TUBILOER EQU X'
	3487 TUBILOIP EQU X'
	3488 TUBRDYIP EQU X'
09	3489 SPACE
	3490 TUBATTR8 EQU X'
10	3491 SPACE
	3492 TUBMLM EQU X'
	3493 TUBLOFF EQU X'
11	3494 TUBSGENT EQU X'
	3495 TUBMROTA EQU X'
	3496 * EQU X'
	3497 * EQU X'
12	3498 * EQU X'
	3499 * EQU X'
	3500 SPACE
13	3501 TUBHELPH EQU X'
	3502 TUBGCHNR EQU X'
	3503 SPACE
14	3504 TUBATTR9 EQU X'
	3505 SPACE
15	3506 TUBMAGE EQU X'
	3507 TUBMGO EQU X'
	3508 TUBMCF2 EQU X'
16	3509 TUBMRTSC EQU X'
	3510 TUBSMD EQU X'
	3511 TUBSVERL EQU X'
17	3512 TUBSVER2 EQU X'
	3513 TUBMDDP EQU X'
	3514 SPACE
	3515 *
18	3516 TUBMPCSS EQU X'
	3517 TUBMPCN EQU X'
19	3518 TUBMPCSS EQU X'
	3519 TUBMPCSP EQU X'
	3520 *

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SPL/3	VERSION 08/28/80	PAGE 27	TIME 02:15	DATE 81/12/08
01	IF DO LINE	SOURCE		
	1451	QMDT300 EQU X'46'	TEB READY QUEUE	(TEB)
	1452	QMDTTC EQU X'46'	TASK-TASK COMP	(QMDT)

SPL/3	VERSION 08/28/80
01	IF DO LINE
	1486 *
	1487 *

06260000	13	678 *	CONSTANT SPLIT INTO A LEFT BYTE AND RIGHT BYTE FOR THE LI	*	06790000	13
06270000		679 *	INSTS.	*	06800000	
06280000		680	*****		06810000	
06290000	14					14
06300000		682	*****		06830000	
06310000		683 *	'NON-CONSTANT' NUCLEUS TRANSIENT AREA WORKSPACE.	*	06840000	
06320000	15	684 *	THESE EIGHT WORDS MUST START AT THE FIRST WORD IN THE DIRECT AREA	*	06850000	15
06330000		685 *	BECAUSE THEY ARE ALSO COMMON TO THE IMPL WRAP ROUTINES	*	06860000	
06340000		686	*****		06870000	
06350000	16	0000	687 D1NUXNTO EQU 0	XIENT WORK SPACE # 0	06880000	16
06360000		0001	688 D1NUXNT1 EQU D1NUXNTO+1	XIENT WORK SPACE # 1	06890000	
06370000		0002	689 D1NUXNT2 EQU D1NUXNT1+1	XIENT WORK SPACE # 2	06900000	
06380000	17	0003	690 D1NUXNT3 EQU D1NUXNT2+1	XIENT WORK SPACE # 3	06910000	17
06390000		0004	691 D1NUXNT4 EQU D1NUXNT3+1	XIENT WORK SPACE # 4	06920000	
06400000		0005	692 D1NUXNT5 EQU D1NUXNT4+1	XIENT WORK SPACE # 5	06930000	
06410000	18	0006	693 D1NUXNT6 EQU D1NUXNT5+1	XIENT WORK SPACE # 6	06940000	18
06420000		0007	694 D1NUXNT7 EQU D1NUXNT6+1	XIENT WORK SPACE # 7	06950000	
06430000		695 *			06960000	
06440000	19	0000	696 D1DSKTAB EQU D1NUXNTO	DISK EXTENT TABLE (USED BY IPL ONLY)	06970000	19
06450000		0004	697 D1DSKTBL EQU 4	LENGTH OF A DISK EXTENT TABLE ENTRY	06980000	
06460000	20	698 *			06990000	20

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		01	IF DO LINE	SOURCE			01	IF DO LINE
			3466 TUBMROTA EQU X'08'	. MRT PROC WITH DATA ENTERED				3521 TUBCH
			3467 TUBSRTLK EQU X'04'	. SAVE/RESTORE INTERLOCK				3522 TUBCH
		02	3468 TUBHPND EQU X'02'	. HELP FUNCTION PENDING			02	3523 TUBCH
			3469 TUBKBULK EQU X'01'	. KEYBOARD UNLOCKED				3524 TUBCH
			3470 SPACE					3525 TUBCH
		03	3471 TUBCTSAW EQU TUBATTR6+2	SAVEAREA FOR TUBCOUNT			03	3526 TUBCH
			3472 TUBAPRINT EQU TUBCTSAW+2	ID OF ASSOCIATED PRINTER				3527 TUBCH
			3473 TUBMSGCT EQU TUBAPRINT+1	MESSAGE COUNT				3528 TUBCH
		04	3474 TUBMSGRT EQU X'80'	. LEVEL 0 INQ MSG HAS BEEN REROUTED(REL4)			04	3529 TUBCH
			3475 TUBMSGR2 EQU X'40'	. LEVEL 1 INQ MSG HAS BEEN REROUTED(REL4)				3530 TUBCH
			3476 TUBASGNL EQU TUBMSGCT+2	ASSIGNED BUFFER LENGTH				3531 TUBCH
		05	3477 TUBASGNB EQU TUBASGNL+2	ASSIGNED BUFFER ADDRESS			05	3532 TUBCH
			3478 SPACE					3533 TUBCH
			3479 TUBATTR7 EQU TUBASGNB+1	ATTRIBUTE BYTE 7				3534 TUBCH
		06	3480 SPACE				06	3535 TUBCH
			3481 TUBSQPD EQU X'80'	. SYS REQ IS PENDING				3536 TUBCH
			3482 TUBIOERR EQU X'40'	. PERMANENT I/O ERROR ON THIS TUB				3537 TUBCH
		07	3483 TUBINQDS EQU X'20'	. INQUIRY DISABLED ON THIS TUB			07	3538 TUBCH
			3484 TUBCYDRJ EQU X'10'	. COMMAND REJECT ON THIS TUB				3539 TUBCH
			3485 TUBREADY EQU X'08'	. TUB IN READY MODE				3540 TUBCH
		08	3486 TUBLDER EQU X'04'	. LOGICAL I/O ERROR			08	3541 TUBCH
			3487 TUBLDIP EQU X'02'	. LOGICAL I/O IN PROGRESS				3542 TUBCH
			3488 TUBRDYIP EQU X'01'	. READY FUNCTION IN PROGRESS				3543 TUBCH
		09	3489 SPACE				09	3544 TUBCH
			3490 TUBATTR8 EQU TUBATTR7+1	ATTRIBUTE BYTE 8				3545 TUBCH
			3491 SPACE					3546 TUBCH
		10	3492 TUBALRM EQU X'80'	. SOUND ALARM AND TURN ON LIGHT			10	3547 TUBCH
			3493 TUBLTUFF EQU X'40'	. TURN OFF MESSAGE LIGHT				3548 TUBCH
			3494 TUBMSGRT EQU X'20'	. ALARM HAS BEEN SENT				3549 TUBCH
		11	3495 TUBMODTA EQU X'10'	. MODIFIED DATA TAG			11	3550 TUBCH
			3496 * EQU X'08'	. RESERVED FOR USE/IOCH				3551 TUBCH
			3497 * EQU X'04'	. RESERVED FOR USE/IOCH				3552 TUBCH
		12	3498 * EQU X'02'	. RESERVED FOR USE/IOCH			12	3553 TUBCH
			3499 * EQU X'01'	. RESERVED FOR USE/IOCH				3554 TUBCH
			3500 SPACE					3555 TUBCH
		13	3501 TUBHELPM EQU TUBATTR8+2	HELP KEY FUNC AREA			13	3556 *
			3502 TUBCONR EQU TUBHELPM	OR QALJI CHARACTER ON AIO REQUEST				3557 *
			3503 SPACE					3558 TUBCH
		14	3504 TUBATTR9 EQU TUBHELPM+1	ATTRIBUTE BYTE 8			14	3559 * ID
			3505 SPACE					3560 *
			3506 TUBRDGE EQU X'80'	. THIS TUB HAS BRIDGE SECURITY				3561 *
		15	3507 TUB900 EQU X'40'	. THIS TUB IS FOR A 900 CNDR SCREEN			15	3562 TUBCH
			3508 TUBDISP2 EQU X'20'	. DISPLAY PAGE 2 OF RECD ON 900				3563 TUBCH
			3509 TUBDISP3 EQU X'10'	. PUT SECURITY SWITCH				3564 TUBCH
		16	3510 TUBSNDI EQU X'08'	. REJECT IN READY FUNCTION			16	3565 TUBCH
			3511 TUBSNDRI EQU X'04'	. ERROR DURING SHARE - STATUS OR CNDR SYSLG				3566 TUBCH
			3512 TUBSNDR2 EQU X'02'	. ERROR DURING SHARE - SYS REQ OR INQUIRY				3567 *
		17	3513 TUBRDYIP EQU X'01'	. READY TASK IS PENDING			17	3568 *
			3514 SPACE					3569 TUBCH
			3515 * REJECT FILE INDEX					3570 TUBCH
		18	3516 TUBRFPSS EQU TUBATTR9+2	REJECT FILE - SS			18	3571 TUBCH
			3517 TUBRFPN EQU TUBRFPSS+1	REJECT FILE - NUMBER SECTIONS				3572 TUBCH
			3518 TUBRFPSS EQU TUBRFPN+1	REJECT FILE - COMMENT SECTOR				3573 TUBCH
		19	3519 TUBRFPDIP EQU TUBRFPSS+1	REJECT FILE - RELATIVE DISPLACEMENT			19	3574 TUBCH
			3520 *					3575 TUBCH

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		01	IF DO LINE	SOURCE			01	IF DO LINE
			1486 *	I C F				1541 *
			1487 *					1542 *

LI *	06790000	732 *	0000	732 *	* 0 - THE DUMP FILE IS NOT PROTECTED	07330000	13
*	06800000	733 *		733 *	* 1 - THE DUMP FILE IS PROTECTED	07340000	
*****	06810000	0040	734 DMPINPRG EQU X'40'	734 *	STORAGE DUMP CURRENTLY IN PROGRESS	07350000	14
		735 *		735 *	* 0 - NO DUMP IN PROGRESS	07360000	
*****	06830000	736 *		736 *	* 1 - STORAGE DUMP IN PROGRESS	07370000	
*	06840000	0020	737 DMPUSAC EQU X'20'	737 *	SUSPEND TASK FOR ADDRESS COMPARE DUMP 3	07380000	15
AREA *	06850000	738 *		738 *	* 0 - DONT SUSPEND TASK FOR DUMP 3	07390000	
*	06860000	739 *		739 *	* 1 - SUSPEND TASK AFTER DUMP 3	07400000	
*****	06870000	740 *	EQU X'10'	740 *	UNUSED	07410000	16
	06880000	0008	741 MPIOBERR EQU X'08'	741 *	MULTI-PURPOSE IOB ERROR INDICATOR	07420000	
	06890000	742 *		742 *	* 0 - NO ERROR IN MULTI-PURPOSE IOB	07430000	
	06900000	743 *		743 *	* 1 - PERM DISK ERROR IN M.P. IOB	07440000	
	06910000	0004	744 PS1PLF1 EQU X'04'	744 *	IPL FROM DISK INDICATOR	07450000	17
	06920000	0002	745 PS1PL11 EQU X'02'	745 *	IPL FROM DISKETTE INDICATOR	07460000	
	06930000	0001	746 MLCA32K EQU X'01'	746 *	MLCA 32K CONTROLLER 8	07470000	18
	06940000	747	*****	747 *	*****	07480000	
	06950000	748 *		748 *	* CONTROL STORAGE SIZE IN SECTORS (LOW BYTE)	07490000	
	06960000	749	*****	749 *	*****	07500000	19
/)	06970000	750 *		750 *		07510000	
y	06980000	751	*****	751 *	*****	07520000	19
	06990000	752 *		752 *	* 'CONSTANT' POINTERS TO CONTROL STORAGE ITEMS	07530000	20

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		01	IF DO LINE	SOURCE			01	IF DO LINE
			3521 TUBCYSK1 EQU TUBRFDSP+1	FIRST COMMAND KEY MASK BYTE				3576 TUBATTR
			3522 TUBCMD8 EQU X'80'	ENABLE COMMAND KEY 8				3577
		02	3523 TUBCMD7 EQU X'40'	ENABLE COMMAND KEY 7			02	3578 TUBKPL
			3524 TUBCMD6 EQU X'20'	ENABLE COMMAND KEY 6				3579 TUBKKB
			3525 TUBCMD5 EQU X'10'	ENABLE COMMAND KEY 5				3580 TUBKCAN
		03	3526 TUBCMD4 EQU X'08'	ENABLE COMMAND KEY 4			03	3581 TUBGAJ
			3527 TUBCMD3 EQU X'04'	ENABLE COMMAND KEY 3				3582 TUBRJFO
			3528 TUBCMD2 EQU X'02'	ENABLE COMMAND KEY 2				3583 *
		04	3529 TUBCMD1 EQU X'01'	ENABLE COMMAND KEY 1			04	3584 *
			3530 TUBCYSK2 EQU TUBCYSK1+1	SECOND COMMAND KEY MASK BYTE				3585 *
			3531 TUBCMD12 EQU X'80'	ENABLE COMMAND KEY 12				3586 TUBOGTU
		05	3532 TUBCMD11 EQU X'40'	ENABLE COMMAND KEY 11			05	3587 *
			3533 TUBCMD10 EQU X'20'	ENABLE COMMAND KEY 10				3588 TUBATTR
			3534 TUBCMD9 EQU X'10'	ENABLE COMMAND KEY 9				3589
		06	3535 TUBCMD24 EQU X'08'	ENABLE COMMAND KEY 24			06	3590 TUBOILG
			3536 TUBCMD23 EQU X'04'	ENABLE COMMAND KEY 23				3591 TUBOUNG
			3537 TUBCMD22 EQU X'02'	ENABLE COMMAND KEY 22				3592 TUBORFF
		07	3538 TUBCMD21 EQU X'01'	ENABLE COMMAND KEY 21			07	3593 TUB2NF
			3539 TUBCYSK3 EQU TUBCYSK2+1	THIRD COMMAND KEY MASK BYTE				3594 TUB2IG
			3540 TUBCMD20 EQU X'80'	ENABLE COMMAND KEY 20				3595 TUB2UG
		08	3541 TUBCMD19 EQU X'40'	ENABLE COMMAND KEY 19			08	3596 TUBWHEL
			3542 TUBCMD18 EQU X'20'	ENABLE COMMAND KEY 18				3597 TUBLOPT
			3543 TUBCMD17 EQU X'10'	ENABLE COMMAND KEY 17				3598 TUBWPER
		09	3544 TUBCMD16 EQU X'08'	ENABLE COMMAND KEY 16			09	3599 TUBSVD
			3545 TUBCMD15 EQU X'04'	ENABLE COMMAND KEY 15				3600 TUBLEN
			3546 TUBCMD14 EQU X'02'	ENABLE COMMAND KEY 14				3601
		10	3547 TUBCMD13 EQU X'01'	ENABLE COMMAND KEY 13			10	3602 *
			3548 TUBCYSK EQU TUBCYSK3	COMMAND KEY MASK				3603 *****
			3549 TUBCYSK EQU TUBCYSK+1	FUNCTION KEY MASK				3604 *
		11	3550 TUBPR1 EQU X'80'	ENABLE PRINT KEY			11	3605 *****
			3551 TUBRL1 EQU X'40'	ENABLE ROLL UP KEY				3606 *
			3552 TUBRL2 EQU X'20'	ENABLE ROLL DOWN KEY				3607
		12	3553 TUBCLR EQU X'10'	ENABLE CLEAR KEY			12	3608 TUBPXTA
			3554 TUBHELP EQU X'08'	ENABLE HELP KEY				3609 TUBPRES
			3555 TUBCRK EQU X'04'	ENABLE RECORD BACKSPACE KEY				3610 TUBPFRD
		13	3556 *	RESERVED			13	3611 TUBPFLA
			3557 *	RESERVED				3612 TUBPCLA
			3558 TUBEX10 EQU TUBCYSK+2	REWRITE INDICATORS TUB (CONST)				3613 TUBPFRP
		14	3559 *	NOTE: THE ABOVE EQUATE IS THE DISPLAY STATION TUB POINTER			14	3614 TUBPFRS
			3560 *	TO THE IAS TUB. SEE PRINTER EQUATES FOR THE PRINTER				3615 TUBPFRP
			3561 *	TUB'S POINTER TO THE IAS TUB.				3616 TUBPFRS
		15	3562 TUBATTN EQU TUBEX10+1	ATTRIBUTE BYTE 10			15	3617 TUBEXTO
			3563 TUBCLRD EQU X'80'	- CLEAR AIDS				3618 *
			3564 TUBCLCK EQU X'40'	- LOCK CONTROL				3619 *
		16	3565 TUBOFF EQU X'20'	- OFF OCL STATEMENT RECEIVED			16	3620 *
			3566 TUBHOLD EQU X'10'	- HOLD PARAMETER FOR OFF COMMAND COND				3621 *
			3567 *	NOTE THAT IF THIS BIT IS SET ON				3622 *
		17	3568 *	IT INDICATES THE DUMP PARAMETER			17	3623 TUBPLEN
			3569 TUBSCHK EQU X'08'	- SUBCONSILE INDICATION				3624 *****
			3570 TUBSCHK EQU X'04'	- ENTER HAS BEEN PRESSED AT THE SUBCONSIL				3625 *
		18	3571 TUBSCHK EQU X'02'	- ADDRESS INDIC ACTIVE ON THIS DEVICE			18	3626 *****
			3572 TUBSCHK EQU X'01'	- PERFORM BEAD MODIFIED				3627 TUBSCHK
			3573 TUBSCHK EQU TUBATTN+1	NEXT REPLY ID TO USE AT SUBCONSILE				3628 TUBSCHK
		19	3574 TUBSCHK EQU TUBSCHK+2	ADDRESS OF SUBCONSILE NUMBER			19	3629 *
			3575	SPACE				3630 TUBPFRD

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		01	IF DO LINE	SOURCE			01	IF DO LINE
			ES41 *	EQU X'04'	RESERVED			ES41 JCBM
			ES42 *	EQU X'02'	RESERVED			ES42 JCBM

07320000	13	785	UNDEF BYTE	UNUSED.	07880000	13
07330000		0040 787 DSPRGRST EQU X'80'	TASK REGISTER RESTORE REQUIRED.	07880000		
07340000		0020 788 XAREAREF EQU X'20'	TRANSIENT AREA REFRESHABLE.	07890000		
07350000	14	0010 789 DSPADACT EQU X'10'	DISABLE TASK DISP, ALTER/DISPLAY ACTIVE.	07900000	14	
07360000		0008 790 DSPFCUR EQU X'08'	FORCE SNAPOUT OF CURRENT TASK.	07910000		
07370000				07920000		
3 07380000	15	0004 791 DSPRPND EQU X'04'	DISABLE TASK DISP, MSP ERR PENDING	07930000	15	
3 07390000		0002 792 DSPHOLD EQU X'02'	TEMPORARY REQUEST TO HOLD DISPATCHING	07940000		
3 07400000		0001 793 DSPEXAM EQU X'01'	EXAM INDICATOR 6	07950000		
07410000		794 * LOW BYTE		07960000	16	
07420000	16	795 *		07970000		
07430000		796 *****		07980000		
07440000		797 * ALTER/DISPLAY CONTROL WORD *		07990000	17	
07450000	17	798 *****		08000000		
07460000		0025 799 DIADCNTL EQU D10SPFLG+1	ALTER/DISPLAY CONTROL WORD	08010000		
8 07470000		800 *		08020000	18	
**** 07480000	18	801 * HIGH BYTE	CONTROL BITS	08030000		
* 07490000		802 *		08040000		
**** 07500000	19	0080 803 ADEXIT EQU X'80'	EXIT ALTER/DISPLAY.	08050000	19	
07510000		0040 804 ADSYSMP EQU X'40'	ALTER/DISPLAY SYSTEM DUMP REQUEST.	08060000		
**** 07520000		0020 805 ADINQRY EQU X'20'	DISPLAY A/D OPTION MENU.	08070000	20	
* 07530000	20	0010 806 ADTRACE EQU X'10'	INSTRUCTION TRACE,STEP, ADDRESS COMPARE			

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		01	IF DO LINE	SOURCE		01
			3576 TUBATTRB EQU TUBDMATX+1	ATTRIBUTE BYTE 11		
			3577	SPACE		
		02	3578 TUBKOPLY EQU X'80'	. IGC CAPABLE DISPLAY		02
			3579 TUBKICBD EQU X'40'	. IGC CAPABLE KEYBOARD		
			3580 TUBKCANJ EQU X'20'	. THIS SESSION IN IGC MODE		
		03	3581 TUBGAIJD EQU X'10'	. EXTD PROCESSING ON		03
			3582 TUBRJFOV EQU X'08'	. FILE OVERFLOW OF THE REJECT FILE		
			3583 * EQU X'04'	. RESERVED		
		04	3584 * EQU X'02'	. RESERVED		04
			3585 * X'01'	. RESERVED		
			3586 TUBOGTUB EQU TUBATTRB+2	DISPLAY STATION POINTER TO GAIJI TUB		
		05	3587 *	REFERENCE GEXTB MNCRD FOR DESCRIPTION		05
			3588 TUBATTRC EQU TUBOGTUB+1	ATTRIBUTE BYTE 12		
			3589	SPACE		
		06	3590 TUBOILGJ EQU X'80'	. 0 OPTION TAKEN ON INVALID EXTN CHAR		06
			3591 TUBOUNGJ EQU X'40'	. 0 OPTION ON AN UNDEFINED EXTN CHAR		
			3592 TUBONPFL EQU X'20'	. 0 OPTION ON A RMI FULL ERROR		
		07	3593 TUBZNF EQU X'10'	. 2 OPTION TAKEN ON A RMI FULL ERROR		07
			3594 TUBZIG EQU X'08'	. 2 OPTION ON AN INVALID EXTN CHAR		
			3595 TUBZUG EQU X'18'	. 2 OPTION ON AN UNDEFINED EXTN CHAR		
		08	3596 TUBHLP EQU X'04'	. HIGH LEVEL HELP AID IN PROGRESS		08
			3597 TUBLOPT EQU X'02'	. 1 OPTION TAKEN ON ABOVE ERROR		
			3598 TUBMVER EQU X'01'	. SET OFF WSGS INTLK ON LONG RMI ERROR		
		09	3599 TUBMSVD EQU TUBATTRC+4	RESERVED		09
			3600 TUBLEN EQU TUBMSVD+1	LENGTH OF A DISPLAY TUB		
			3601	SPACE 4		
		10	3602 *			10
			3603 *****			
			3604 * PRINTER UNIQUE PORTION OF THE TUB *			
		11	3605 *****			11
			3606 *			
			3607	SPACE		
		12	3608 TUBPEXTD EQU TUBCOMD+2	DEVOTE MONKSTATION TUB ADDRESS (PRINTERS)		12
			3609 TUBPRESV EQU TUBPEXTD+1	RESERVED BYTE		
			3610 TUBPFND EQU TUBPRESV+4	FOUNTS NUMBER		
		13	3611 TUBPFLEN EQU TUBPFND+1	FOUNTS LENGTH (LINES/PAGE)		13
			3612 TUBPCOLA EQU TUBPFLEN+1	CURRENT LINE		
			3613 TUBPPPP EQU TUBPCOLA+1	FORK PRINT POSITION (HORIZONTAL)		
		14	3614 TUBPST EQU TUBPPPP+1	PRINTER STATUS BYTE		14
			3615 TUBPUSV EQU X'80'	. POST USER ON ERROR MESSAGE		
			3616 TUBPST EQU X'40'	. PRINTER PUST READY		
		15	3617 TUBEXTD EQU X'20'	. THIS PRINTER TUB WAS AN ADDITION		15
			3618 * EQU X'10'	. RESERVED		
			3619 * EQU X'08'	. RESERVED		
		16	3620 * EQU X'04'	. RESERVED		16
			3621 * EQU X'02'	. RESERVED		
			3622 * EQU X'01'	. RESERVED		
		17	3623 TUBPLEN EQU TUBPST+1	LENGTH OF A BASIC PRINTER TUB		17
			3624 *****			
			3625 * PRINTER TUB ADDITION *			
		18	3626 *****			18
			3627 TUBPSMIC EQU TUBPLEN+1	SHARPCONSOLE LOGICAL ID		
		19	3628 TUBPSTUB EQU TUBPSMIC+2	PRINTER TO GAIJI TUB (PRINTERS)		19
			3629 *	REFERENCE GEXTB MNCRD FOR DESCRIPTION		
			3630 TUBPSTUB EQU TUBPSTUB+1	PRINTER ATTRIBUTE BYTE ONE		

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		01	IF DO LINE	SOURCE		01
			3596 JACOMPTWA EQU X'20'	FIRST SYSTEM RECORDS IN TWA		
			3597 JACOMPLC EQU X'10'	FLASH UTILITY CONTROL STATEMENTS		
			3652 JSDOCAL			

07860000	13	0004	839 EXAM	EQU X'04'	EXAM INDICATOR FOR MS GETP XIENT 6	08400000	13
07870000			840 *	EQU X'02'	UNUSED.	08410000	
07880000			841 *	EQU X'01'	UNUSED.	08420000	
07890000			842 *	LOW BYTE		08430000	
07900000	14		843 *	EQU X'80'	UNUSED.	08440000	14
07910000			844 *	EQU X'40'	UNUSED.	08450000	
07920000			845 *	EQU X'20'	UNUSED.	08460000	
07930000	15		846 *	EQU X'10'	UNUSED.	08470000	15
07940000			847 *	EQU X'08'	UNUSED.	08480000	
07950000			848 *	EQU X'04'	UNUSED.	08490000	
07960000	16		849 *	EQU X'02'	UNUSED.	08500000	16
07970000			850 *	EQU X'01'	UNUSED.	08510000	
07980000			851 *			08520000	
07990000	17	0027	852 DIASRFLG	EQU DISYSFLG+1	ASSIGN RECOVERY FLAG	08530000	17
08000000		0080	853 ASGNERR	EQU X'80'	PERMANENT ASSIGN FAILURE HAS OCCURRED.	08540000	
08010000		0040	854 AFINPROG	EQU X'40'	ASSIGN RECOVERY IN PROGRESS.	08550000	
08020000	18	0020	855 ASGNSEQ	EQU X'20'	ASSIGN RECOVERY SEQUENCE HAS BEEN STARTED	08560000	18
08030000		0010	856 ASGNPAGE	EQU X'10'	A PAGE HAS BEEN ASSIGNED.	08570000	
08040000		0008	857 ASGNMTR	EQU X'08'	ASR WAITER OUTSTANDING MUST RECOVER	08580000	
08050000	19	000F	858 ASGNRTRY	EQU X'0F'	MAXIMUM NUMBER OF RELOOPS	08590000	19
08060000			859 *	LOW BYTE	USED FOR A COUNTER	08600000	
08070000	20		860 *			08610000	20

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IF DO	LINE	IF DO	LINE	SOURCE	IF DO	LINE	IF DO	LINE
	3631		TUBKPNTR EQU X'80'	. IGC CAPABLE PRINTER		3686		*
	3632		TUBGATJUP EQU X'40'	. EXTD PROCESSING ON FOR THIS PRINTER		3687		*
	3633		* EQU X'20'	. RESERVED		3688		* COMPA
	3634		* EQU X'10'	. RESERVED		3689		*
	3635		* EQU X'08'	. RESERVED		3690		TUAMNUS
	3636		* EQU X'04'	. RESERVED		3691		TUAMSCO
	3637		* EQU X'02'	. RESERVED		3692		*
	3638		* EQU X'01'	. RESERVED		3693		TUAMPEN
	3639		TUPLPI EQU TUBPATR1+1	LINES PER INCH		3694		TUAMPQO
	3640		* EQU X'01'	LEFT NIBBLE = LAST VALUE SENT		3695		*
	3641		* EQU X'01'	RIGHT NIBBLE = DEFAULT VALUE		3696		TUAMPUR
	3642		TUBPERES EQU TUBPLPI+10	RESERVED AREA		3697		TUAMPSC
	3643		TUBPELEN EQU TUBPERES+1	LENGTH OF A PRINTER TUB WITH ADDITION		3698		TUAMPNS
	3644		*			3699		TUAMPSS
	3645		*** END OF EXPANSION **			3700		TUAMPSTA
	3646		* EQU X'01'	TUNEQ	01090000	3701		TUAMPERP
	3647		*			3702		*
	3648		* GENERAL TASK WORK AREA ACCESS EQUATES			3703		TUAMPSCN
	3649		*			3704		*
	3650		TUINPUT EQU X'01'	PUT TO TASK WORK AREA		3705		*
	3651		TUINGET EQU X'00'	GET FROM TASK WORK AREA		3706		* TUIN E
	3652		TUINYS EQU X'02'	SYSTEM REQUEST (XRL = TCB a)		3707		*
	3653		TUINUSR EQU X'04'	USE WORKSTATION WORK AREA		3708		TUINWIP
	3654		TUINTRA EQU X'00'	USE ALLOCATED TASK WORK AREA		3709		TUINWIP
	3655		TUINRNL EQU X'40'	DATA AREA IN REAL STORAGE		3710		TUINWEX
	3656		TUINRNL EQU X'00'	DATA AREA IN TRANSLATED STORAGE		3711		TUINWSS
	3657		*			3712		TUINW
	3658		* WORKSTATION WORK AREA - ONE PER COMMAND WORKSTATION			3713		TUINWLEN
	3659		*			3714		END
	3660		TUINW0 EQU 0	TAG 0 - SHARE AREA FOR DD EDV		3715		*
	3661		TUINW1 EQU 1	TAG 1 - PROCEDURE FROM SHARE AREA		3716		*****
	3662		TUINW2 EQU 2	TAG 2 - PROCEDURE FROM SHARE AREA		3717		*****
	3663		TUINW3 EQU 3	TAG 3 - PROCEDURE FROM SHARE AREA		3718		*****
	3664		TUINW4 EQU 4	TAG 4 - PROCEDURE FROM SHARE AREA		3719		*****
	3665		TUINW5 EQU 5	TAG 5 - PROCEDURE FROM SHARE AREA		3720		*****
	3666		TUINW6 EQU 6	TAG 6 - PROCEDURE FROM SHARE AREA		3721		*****
	3667		TUINW7 EQU 7	TAG 7 - PROCEDURE FROM SHARE AREA		3722		*****
	3668		TUINW8 EQU 8	TAG 8 - PROCEDURE FROM SHARE AREA		3723		* GENER
	3669		TUINW9 EQU 9	TAG 9 - LOCAL AREA		3724		*****
	3670		TUINW10 EQU 10	TAG 10 - SYSTEM SHARE AREA		3725		NEWOFF
	3671		TUINW11 EQU 11	TAG 11 - REAL DATA SHARE AREA		3726		NEWOFF
	3672		TUINW12 EQU 12	TAG 12 - SHARE/RESERVE AREA (LENGTH=33)		3727		NEWOFF
	3673		TUINW13 EQU 13	- USER SHARE AREA (12-22)		3728		NEWOFF
	3674		TUINW14 EQU 14	- INQUIRY SHARE AREA (23-33)		3729		NEWOFF
	3675		TUINW15 EQU 15	- LOGICAL I/O RESERVED AREA (34-40)		3730		NEWOFF
	3676		*	TAG 40 - END OF SHARE/RESERVE AREAS		3731		NEWOFF
	3677		TUINW16 EQU 16	TAG 45 - WORK STATION CONFIGURATION		3732		NEWOFF
	3678		TUINW17 EQU 17	TAG 46 - COMMUNICATIONS CONFIGURATION		3733		NEWOFF
	3679		TUINW18 EQU 18	TAG 47 - SYSLOG RESPONSE DATA		3734		NEWOFF
	3680		TUINW19 EQU 19	TAG 48 - SYSLOG COMMUNICATIONS TO CONSOLE		3735		NEWOFF
	3681		TUINW20 EQU 20	TAG 49 - TASK MESSAGE QUEUE AREA		3736		NEWOFF
	3682		*	TAG 50 - END OF MESSAGE QUEUE AREA		3737		* SYSSTE
	3683		TUINW21 EQU 21	TAG 55 - ORCL COMMAND SHARE AREA		3738		NEWOFF
	3684		TUINW22 EQU 22	TAG 56 - TRANSLATE TABLE AREA		3739		NEWOFF
	3685		TUINW23 EQU 23	TAG 57 - DUAL MESSAGE ROUTING AREA		3740		NEWOFF

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IF DO	LINE	IF DO	LINE	SOURCE	IF DO	LINE	IF DO	LINE
	1652		JCHDRLEB EQU JCHDRLEB+2	CURRENT LIBRARY #11 PRINTER		1700		JCHDRLEB

08400000	13	0037	894	DISTKSAV EQU	DIGPFLAG+1	STACK POINTER SAVE AREA	08940000	13	0
08420000		0038	895	DIQHSAVE EQU	DISTKSAV+1	SAVE AREA IN QUEUE ROUTINE FOR Q HEADER	08960000		0
08430000		0039	896	DITPIOB@ EQU	DIQHSAVE+1	ADDR OF IPL IOB (VALID DURING IPL)	08970000		0
08440000	14	0039	897	DITRACE@ EQU	DITPIOB@	ADDR OF DISK TRACE ACE (VALID FOR TRACE)	08980000	14	0
08450000		003A	898	DITRIOB@ EQU	DITPIOB@+1	ADDR OF TRACE IOB	08990000		0
08460000		003B	899	DITRACE@ EQU	DITRIOB@+1	ADDR OF MS INTERVAL TIMER ACE	09000000		0
08470000	15	900	*				09010000	15	0
08480000		901	*			*****	09020000		0
08490000		902	*	'CONSTANT' AND 'NON-CONSTANT' POINTERS TO MAIN STORAGE ITEMS	*		09030000		0
08500000	16	903	*			*****	09040000	16	0
08510000		003C	904	DIFRCTCB EQU	DITRACE@+1	FORCE OUT CURRENT TASK TCB ADDRESS	09050000		0
08520000		003D	905	DIDSPTCB EQU	DIFRCTCB+1	CURRENT MAIN STORAGE TCB ADDRESS	09060000		0
08530000	17	003E	906	DICURJCB EQU	DIDSPTCB+1	CURRENT JOB CONTROL BLOCK ADDRESS	09070000	17	0
08540000		003F	907	DIQUEUE@ EQU	DICURJCB+1	QUEUE HEADER START ADDRESS	09080000		0
08550000		0040	908	DIRTTABL EQU	DIQUEUE@+1	RESOURCE TABLE ADDRESS IN MAIN STORE	09090000		0
08560000	18	909	*				09100000	18	0
08570000		910	*			*****	09110000		0
08580000		911	*	'NON-CONSTANT' POINTERS TO MAIN STORAGE ITEMS	*		09120000		0
08590000	19	912	*			*****	09130000	19	0
08600000		0041	913	D1L5WRK EQU	DIRTTABL+1	WORK AREA FOR USE ON IL5	09140000		0
08610000	20	0042	914	DISAVEIN EQU	D1L5WRK+1	POST ROUTINE INPUT SAVE AREA	09150000	20	0

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IF DO	LINE	SOURCE						
	3687	* 58	TAG 58- RESERVED THRU 59					
	3688	* COMMAND PROCESSOR TAGS						
	3689	*						
	3690	TWMPUSE EQU 00	TAG 00- NOT USED					
	3691	TWMPSCO1 EQU 01	TAG 01- SYSTEM CONSOLE IMAGE					
	3692	* 07	TAG 07- END					
	3693	TWMPEND EQU 20	NUMBER OF IMAGES					
	3694	TWMPQ01 EQU 08	TAG 08- MESSAGE QUEUE					
	3695	* 13	TAG 13- END OF MESSAGE QUEUE TAGS					
	3696	TWMPURI EQU 14	TAG 14- CURRENT SYSTEM PRINTER IMAGE					
	3697	TWMPSCSV EQU 15	TAG 15- SYSTEM CONSOLE SAVE/RESTORE AREAS					
	3698	TWMPCONSL EQU 15	CONSOLE SAVE AREA (15-26)					
	3699	TWMPSSA EQU 27	WORKSTATION SAVE AREA (27-38)					
	3700	TWMPSTAT EQU 39	STATUS SAVE AREA (39-50)					
	3701	TWMPERS EQU 51	TAG 51- I/O ERP SAVE AREA FOR PEG BUILD					
	3702	* 52	TAG 52- RESERVED THRU 59					
	3703	TWMPCSIQ EQU 60	TAG 60- CONSOLE SYSLOG MESSAGE QUEUE.					
	3704	* 119	TAG 119- END OF CONSOLE MESSAGE QUEUE.					
	3705	*						
	3706	* TWA EXTENSION ELEMENT EQUATES						
	3707	*						
	3708	TWMPWP EQU 02	TWA AVAILABLE TRACKS WWP					
	3709	TWMPWPL EQU 03	LENGTH OF WWP FIELD					
	3710	TWMPNEXT EQU TWMPWP+2	CHAIN FIELD					
	3711	TWMPSS EQU TWMPNEXT+2	DISK ADDRESS OF THIS ELEMENT					
	3712	TWMPN EQU TWMPSS+1	CONTAINS LENGTH OF WWP FIELD					
	3713	TWMPLEN EQU TWMPN+1	LENGTH OF TWA					
	3714	*** END OF EXPANSION ***						
	3715	* JUREQ	TRANSIENT RIB VALUE EQUATES			01100000		
	3716	*****						
	3717	*****						
	3718	*** MAIN STORAGE TRANSIENT AND TRANSFER CONTROL RIB EQUATES ***						
	3719	*****						
	3720	*****						
	3721	SPACE 2						
	3722	*****						
	3723	* GENERAL EQUATES FOR TRANSIENT/TRANSFER TABLE ENTRIES	*					
	3724	*****						
	3725	WEMWHD EQU X'00"	EMR ID TRANSFER ROUTINE					
	3726	WEMWFF EQU X'00"	SET EM CYCLE ALARM OFF INDICATOR					
	3727	WEMWFF EQU X'20"	SET EB CYCLE ALARM OFF INDICATOR					
	3728	WEMWFF EQU X'30"	TRANSFER CONTROL ROUTINE					
	3729	WEMWFF EQU X'20"	PREFERRED TRANSFER					
	3730	WEMWFF EQU X'00"	FIRST SECTOR IN TRANSFER AREA (HIGH)					
	3731	WEMWFF EQU X'0F"	LAST SECTOR IN TRANSFER AREA (HIGH)					
	3732	WEMWFF EQU X'00"	TWR TRANSLATION ON					
	3733	WEMWFF EQU X'04"	SET EM ON TRANSFER CONTROL					
	3734	WEMWFF EQU X'02"	SET EB ON TRANSFER CONTROL					
	3735	WEMWFF EQU X'00"	SET ON WRITE PROTECTION-PREFERRED					
	3736	*****						
	3737	* 'SYSTEM' TRANSFER CONTROL EQUATES (I.E., IMPLICIT) (DISK ADDR., LENGTH)	*					
	3738	*****						
	3739	WEMWHD EQU X'00"	RESERVED					
	3740	WEMWHD EQU X'01"	FIND					

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IF DO	LINE	SOURCE						
	3741	ROPEN						
	3742	RCLOSE						
	3743	REQJ						
	3744	RSLOG						
	3745	RSLIST						
	3746	RSIN						
	3747	RSGET						
	3748	RSPSG						
	3749	RLIBRY						
	3750	RVTCCFD						
	3751	RALLOC						
	3752	RADLOC						
	3753	RSALOC						
	3754	RINFO						
	3755	RVTORD						
	3756	RSNMP						
	3757	RPGLT						
	3758	RPICALL						
	3759	RPVALGN						
	3760	RCPT						
	3761	RLOPEN						
	3762	RAISON						
	3763	RSASON						
	3764	RFINDLIB						
	3765	RIFA						
	3766	RSPool						
	3767	RSPALL						
	3768	RCPEAR						
	3769	RTTC						
	3770	RCPTC						
	3771	RSETX						
	3772	RABOB						
	3773	RSWR						
	3774	RABDG						
	3775	RABDF						
	3776	RABDO						
	3777	RABDA						
	3778	RDIFFLINE						
	3779	RABDI						
	3780	RABDI						
	3781	RANCP						
	3782	RPWZ						
	3783	RCBP						
	3784	RCBERR						
	3785	RCBEND						
	3786	RCBPNT						
	3787	RCBPPT						
	3788	RCBPIC						
	3789	RCBDA						
	3790	RCBDB						
	3791	RCBDC						
	3792	RCBDF						
	3793	RCBDR						
	3794	RCBDR						
	3795	RCBDBL						

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IF DO	LINE	SOURCE						
	1766	SPACE						
	1767	JACBAPFF EQU JACBASIC+1	NUMBER OF FORMATS FOUND					
	1768	*****						

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IF DO	LINE	SOURCE						
	1766	*****						
	1767	*****						

08940000	13	0056	948	D1XR1	EQU	D1CURTRB+1	XR1	09480000	13
08950000		0057	949	D1XR2	EQU	D1XR1+1	XR2	09500000	
08960000									
08970000		0058	950	D1ARR	EQU	D1XR2+1	ARR	09510000	
08980000	14	0059	951	D1IAR	EQU	D1ARR+1	IAR	09520000	14
08990000		005A	952	D1PMRPSR	EQU	D1IAR+1	PMR AND PSR	09530000	
09000000		005B	953	D1RQ	EQU	D1PMRPSR+1	R AND Q BYTES	09540000	
09010000	15	005C	954	D1INL12	EQU	D1RQ+1	INLINE PARAMETERS 1 2	09550000	15
09020000		005D	955	D1INL34	EQU	D1INL12+1	INLINE PARAMETERS 3 4	09560000	
09030000		956	*					09570000	
09040000	16	957	*****					09580000	16
09050000		958	*	IL5 WORK AREAS FOR HPIOCH			*	09590000	
09060000		959	*****					09600000	
09070000	17	005E	960	D1UNUSSE	EQU	D1INL34+1	>>>> UNUSED <<<<	09610000	17
09080000		005F	961	D1IL5PCR	EQU	D1UNUSSE+1	CMR/PCR SAVE AREA.	09620000	
09090000		0060	962	D1HPCSDA	EQU	D1IL5PCR+1	MSP CONTROL STATUS - CHNL DEVICE ADDR	09630000	
09100000	18	0080	963	HPASGERR	EQU	X'80'	ASSIGN FAILURE HAS OCCURRED.	09640000	18
09110000		0040	964	HPSTART	EQU	X'40'	START THE MSP BEFORE EXIT	09650000	
09120000		0020	965	HP12SVCA	EQU	X'20'	POST SVC FROM IL2 IS IN PROCESS	09660000	
09130000	19	0010	966	HPCSSVC	EQU	X'10'	CS SVC REQUEST	09670000	19
09140000		0008	967	HPNOTBSY	EQU	X'08'	MSP NG: BUSY (NO TASK AVAILABLE)	09680000	
09150000	20	0004	968	HPWAITING	EQU	X'04'	MSP WAITING FOR START KEY	09690000	20

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IF DO	LINE	SOURCE						
01	3741	ROPEN EQU X'02'	OPEN					
	3742	RCLOSE EQU X'03'	CLOSE					
02	3743	REQJ EQU X'04'	END-OF-JOB					
	3744	RSLOG EQU X'05'	SYSLOG					
	3745	RSLIST EQU X'06'	SYSLIST					
03	3746	RSIN EQU X'07'	SYSLIST					
	3747	RSGET EQU X'08'	SOURCE GET					
	3748	RSMSG EQU X'09'	MESSAGE RETRIEVE					
04	3749	RLIBRY EQU X'0A'	LIBRARY OPEN/CLOSE					
	3750	RVTOCFD EQU X'0B'	VTOC READ/WRITE FD					
	3751	RALLOC EQU X'0C'	ALLOCATE					
05	3752	RDELOC EQU X'0D'	DEALLOCATE					
	3753	RSALOC EQU X'0E'	SPECIAL ALLOCATE					
	3754	RINFO EQU X'0F'	RETRIEVE SYSTEM INFORMATION					
06	3755	RVTORO EQU X'10'	VTOC READ/WRITE RD					
	3756	RSNAP EQU X'11'	SNAP DUMP					
	3757	RPGHLT EQU X'12'	RPG HALT					
07	3758	RDMCALL EQU X'13'	DATA MNGEMENT CONTROLLER					
	3759	RPRALGN EQU X'14'	PRINTER ALIGNMENT					
	3760	RCPRT EQU X'15'	COMMAND PROCESSOR ROUTER					
08	3761	RLOPEN EQU X'16'	LIMITS OPEN					
	3762	RUSDM EQU X'17'	USER USDM REQUEST					
	3763	RSUSDM EQU X'18'	SYSTEM USDM REQUEST					
09	3764	RFINDLIB EQU X'19'	USER LIBRARY FIND REQUEST					
	3765	RNFA EQU X'1A'	NFA ACCESS TRANSIENT					
	3766	RSPDOL EQU X'1B'	SPOOL INTERCEPT REQUEST					
10	3767	RSPALC EQU X'1C'	SPOOL ALLOCATE REQUEST					
	3768	RCPEER EQU X'1D'	COMMAND PROCESSOR I/O ERROR					
	3769	RTTC EQU X'1E'	TASK-TASK COMMUNICATORS					
11	3770	RCPTC EQU X'1F'	COMMAND PROCESSOR TASK-TASK					
	3771	RSETX EQU X'20'	SET EXIT					
	3772	RUDOB EQU X'21'	USDM TRANSIENT					
12	3773	RSWR EQU X'22'	..					
	3774	RUDOG EQU X'23'	..					
	3775	RUDWF EQU X'24'	..					
13	3776	RUDOD EQU X'25'	..					
	3777	RUDWA EQU X'26'	..					
	3778	RUOFFLINE EQU X'27'	OFFLINE PW DATA MGMT.					
14	3779	RUDOH EQU X'28'	USDM TRANSIENT					
	3780	RUDOQ EQU X'29'	..					
	3781	RUDOP EQU X'2A'	..					
15	3782	RUPWZ EQU X'2B'	SECURITY					
	3783	RCPO EQU X'2C'	COMMAND OCL INTERFACE					
	3784	RUDERR EQU X'2D'	I/O ERROR TRANSIENT					
16	3785	REXTND EQU X'2E'	ENF EXTEND TRANSIENT					
	3786	RUPDAT EQU X'2F'	ENF UPDATE TRANSIENT					
	3787	RUDOPT EQU X'30'	CHECKPOINT TRANSIENT					
17	3788	RSPNOC EQU X'31'	SPOOL TRANSIENT					
	3789	RUCDA EQU X'32'	ICF (CNC)	4				
	3790	RUCDB EQU X'33'	ICF (CNC)	4				
18	3791	RUCDC EQU X'34'	ICF (CNC)	4				
	3792	RSWTK EQU X'35'	TRA EXTENSION	3				
	3793	RSWRT EQU X'36'	SWRT TRANSIENT	4				
19	3794	REXTRA EQU X'37'	EXTENDED TRACE	4				
	3795	RUDOL EQU X'38'	USDM TRANSIENT					

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IF DO	LINE	SOURCE						
01	3762	SPACE 1						

09400000	13	000E 1001 D1RDCS EQU D1RDCS+1 Q/R BYTES TO READ INTO MAIN STG	10020000
09490000		006D 1002 D1RDCS EQU D1RDCS+1 Q/R BYTES TO READ INTO CTRL STG	10030000
09500000		1003 *	10040000
09510000		006E 1004 D1WRMS EQU D1WRCS+1	10050000
09520000	14	006F 1005 D1WRCS EQU D1WRMS+1 Q/R BYTES TO WRITE FROM MAIN STG	10060000
09530000		1006 *	10070000
09540000		0070 1007 D1DSTIME EQU D1WRCS+1 DISPATCHER/ SWAP TIME INTERVALS	10080000
09550000	15	1008 * >> TASK TIMER INTERVAL: <<	10090000
09560000		003D 1009 RC:MINT EQU 61 >> 61 TIMER UNITS = 499.712 MSEC. <######	10100000
09570000		1010 *	10110000
09580000	16	1011 *****	10120000
09590000		1012 * NON CONSTANTS FOR MSP ERROR RETRY STORAGE CORRECTION *	10130000
09600000		1013 *****	10140000
09610000		1014 *	10150000
09620000	17	0071 1015 D1HCSTG@ EQU D1DSTIME+1 FAILING MS ADDRESS	10160000
09630000		1016 *	10170000
09640000	18	0072 1017 D1HCSTG@ EQU D1HCSTG@+1 CORRECTION FLAG / CORRECTED DATA	10180000
09650000		1018 *	10190000
09660000		1019 *****	10200000
09670000	19	1020 * ALTER/DISPLAY WORDS FOR ADDRESS COMPARE/VERIFY FUNCTION *	10210000
09680000		1021 *****	10220000
09690000	20	1022 *	10230000

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01	IF DO LINE	SOURCE		
	3796 RGLFR EQU X'39'	GLF TRANSIENT	5	
	3797 RGLFAC EQU X'3A'	GLF TRANSIENT	5	
02	3798 REXTNP EQU X'3B'	EXTENDED PRINT	6	
	3799 RSMFC EQU X'3C'	SNF COMPL. DATA COLLECTION	6	
	3800 RUCDD EQU X'3D'	PEER MULTIPOINT	6	
03	3801 RMDDU EQU X'3E'	WSDM XIENT		
	3802 RMDDT EQU X'3F'	"		
	3803 RWEGE EQU X'40'	"		
04	3804 RRDDM EQU X'41'	ROOM TTC XIENT CALL		
	3805 RMDHH EQU X'42'	WSDM XIENT		
	3806 RSPQMG EQU X'43'	SPOOL QUEUE MGMT XIENT		
05	3807 RXTEND EQU RSPQMG	LAST VALID ENTRY		
	3808 SPACE			
	3809 XFLENBYT EQU RXTEND*4+4	LENGTH OF XFER TABLE (BYTES)		
06	3810 XFLENWRD EQU RXTEND*2+2	LENGTH OF XFER TABLE (WORDS)		
	3811 *** END OF EXPANSION **			
	3812 @ENDGEN;		01110000	
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01	IF DO LINE	SOURCE		
	1816 *			
	1817 * 0370 DISKETTE ERROR ACE	0010	16	WUBI FEACE *



14	0001 1059 ECMASK EQU 1	ECM - EVENT CONTROL MASK OFFSET	10600000
	0080 1060 ECMACTV EQU X'80'	. EVENT ACTIVE	10610000
	0040 1061 ECMCMPL EQU X'40'	. ECB COMPLETE	10620000
15	1062 * EQU X'20'	. RESERVED	10630000
	0010 1063 ECMLOCK EQU X'10'	. LOCK BIT	10640000
	1064 * EQU X'08'	*	10650000
16	1065 * EQU X'04'	* COMPLETION CODE	10660000
	1066 * EQU X'02'	*	10670000
	1067 * EQU X'01'	*	10680000
17	0003 1068 ECMGM EQU 3	ECM - GENERAL WAIT MASK FIELD	10690000
	0080 1069 PREEMPT EQU X'80'	. DO NOT PREEMPT BIT	10700000
	0040 1070 PLIFO EQU X'40'	. LIFO QUEUE REQUEST	10710000
18	1071 *** END OF EXPANSION **		10720000
	1072 * ERB		10730000
	0001 1073 ERBDCHN EQU 1	CHAIN FIELD	10740000
19	1074 * EQU X'01'		10750000
	0002 1075 ERBDV1 EQU ERBDCHN+1	DEVICE ID	10760000
20	0000 1076 ERBD1SKT EQU X'D0'	DISKETTE; DEVICE ID 12/6/79 RJB	10770000

D01

14	0008 1113 EQU X'08'		11140000
	0004 1114 EQU X'04'		11150000
15	1115 * EQU X'02'		11160000
	0003 1116 EQU X'01'		11170000
16	0002 1118 EQU X'02'		11190000
	0001 1119 EQU X'01'		11200000
17	1121 * EQU X'01'		11220000
	0001 1123 EQU X'01'		11240000
18	1125 * EQU X'01'		11260000
19	0001 1127 EQU X'01'		11280000
	1129 * EQU X'01'		11300000
20	0006 1130 EQU X'06'		11310000

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01	IF DO	SOURCE		
	3813	MSCPRINT;	01120000	
	3814	PROC OPTIONS(CNDSAVE, ID=(IDN=MSCPR, ATTR=E09100, RLD=0, MOD=0,	01130000	
02	3815	CORE=08), START=NUMXIENT);	01140000	
	3816	/*	*/ 01150000	
	3817	/*	*/ 01160000	
03	3818	/* GET SPACE FOR A JOB CONTROL BLOCK. IT WILL BE USED BY SPOOL.	*/ 01170000	
	3819	/* JOB QUEUE, AND HISTORY OVERFLOW INITIALIZATION ROUTINES.	*/ 01180000	
	3820	/*	*/ 01190000	
04	3821	/*	*/ 01200000	
	3822	GEN; /* GET SPACE FOR A JCB	*/ 01210000	
	3823	* ASSGN LEN-JCBLLNTH	01220000	
05	3824	SVC SVCASSGN,0 ASSIGN REQUEST		
	3825	DC AL2(JCBLLNTH) ASSIGN LENGTH		
	3826	DC AL1(1+0) ATTRIBUTES		
06	3827	*** END OF EXPANSION **		
	3828	RENDGEN;	01230000	
	3829	REG(XR2)=SCADMTUB(1:2); /* GET CONSOLE TUB JCB ADDRESS */	01240000	
07	3830	REG(XR2)=XR2->TUBJCB(1:2); /*	*/ 01250000	
	3831	XR1->JCBLLNTH-1(1:112)=XR2->VAR(JCBLLNTH-1); /* COPY TO NEW JCB */	01260000	
	3832	NUMPCB+TCBJCB(1:2)=REG(XR1); /* STORE JCB ADDRESS IN CP TCB */	01270000	

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01	IF DO	SOURCE		
	3833	GENCTITLE 'MAIN'		
	3834	/*		
02	3835	/*		
	3836	/* FILE REBUILD, *		
	3837	/* A SEPARATE TASK		
03	3838	/*		
	3839	/* A SYSTEM COMMUN		
	3840	/* SET ON TO INDIC		
04	3841	/* THAT IPL IS IN		
	3842	/*		
	3843	/* MSBILD WILL RUN		
05	3844	/* STARTED UNTIL IS		
	3845	/*		
	3846	/*		
06	3847	REG(XR1)=ADDR(NUM		
	3848	XR1->SCASYS1=ONK		
	3849	XR1->SCASYS2=ONK		
07	3850	XR1->SCAIPLWK+1(1		
	3851	/*		
	3852	/*		
08	3853	/* DEALLOCATE TUB		
	3854	/* TO INSURE THAT		
	3855	/*		
09	3856	/*		
	3857	NIPWORK=XR1->SCAS		
	3858	NIPWORK=NIPWORK-X		
10	3859	REG(XR2)=NIPWORK;		
	3860	GEN;		
11	3861	* DTUNL QUE-A		
	3862	USING DTUNL		
	3863	LA DTUNL		
12	3864	ST DTUNL		
	3865	LA DTUNL		
	3866	DTUNL0005 PWC DTUNL		
13	3867	DTUNL0010 PWT DTUNL		
	3868	DTUNL0020 CLC DTUNL		
	3869	JE DTUNL		
14	3870	ALC DTUNL		
	3871	ALC DTUNL		
	3872	BNL DTUNL		
15	3873	A DTUNL		
	3874	SLC DTUNL		
	3875	BN DTUNL		
16	3876	L DTUNL		
	3877	B DTUNL		
	3878	DTUNL0030 SON DTUNL		
17	3879	* GPOST PWC		
	3880	SVC SWSOP		
	3881	DC ALACT		
18	3882	DC ALACT		
	3883	*** END OF EXPANSION **		
	3884	J DTUNL		
19	3885	DTUNL0040 DS CLS		
	3886	DTUNL0050 EQU DTUNL		
	3887	DTUNL0060 EQU DTUNL		
20	3888	DTUNL0070 EQU DTUNL		

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01	IF DO	SOURCE		
	1871	* EQU X'01'		
02	1872	MULTIAXL EQU MULTIPTCB+MULTIPTCB TASK WORK AREA INDEX (LEFT)		
	1873	MULTIAXL EQU 35 (LENGTH OF AREA)(280 ENTRIES)		
	1874	MULTIAXR EQU MULTIAXL-MULTIAXL-1 TASK WORK AREA INDEX (RIGHT)		
03	1875	* EQU X'01'		
	1876	* NOTE: TASK WORK AREA SPACE IS INDICATED BY 8 TRACK PER		

SPL/3	VERSION 08/28/80	PAGE 35	TIME 02:15	DATE 81/12/08
01	IF DO	SOURCE		
	1926	* EQU X'01'		
02	1927	MULTIAXL EQU MULTIPTCB+MULTIPTCB TASK WORK AREA INDEX (LEFT)		
	1928	MULTIAXL EQU 35 (LENGTH OF AREA)(280 ENTRIES)		
	1929	* EQU X'01'		
03	1930	MULTIAXR EQU MULTIAXL-MULTIAXL-1 TASK WORK AREA INDEX (RIGHT)		
	1931	* EQU X'01'		

14	0008 1113 ERBPOST EQU X'08'	TUB POSTED COMPLETE WITH ERROR (CP ONLY)	11130000
14	0004 1114 ERBMIRCY EQU X'04'	THIS ERB IS IN RETRY MODE	11140000
15	1115 *	THE FOLLOWING TWO BITS (X'02' AND X'01' ARE ENCODED TO DEFINE 3 ERROR CONDITIONS. THE 4TH CONDITION IS UNUSED.	11160000
15	0003 1117 ERBMIRRR EQU 3	RESOURCES UNAVAILABLE	11180000
16	0002 1118 ERBMIRRR EQU 2	HARDWARE ERROR	11190000
16	0001 1119 ERBMIRRR EQU 1	PROGRAMMING ERROR	11200000
16	1120 *	EQU 0 UNUSED	11210000
17	1121 *		11220000
17	1122 *	DISK, DISKETTE, AND 1255 ERROR RECOVERY	11230000
17	0001 1123 ERBPTASK EQU X'01'	POST TASK HAVING I/O ERROR TO CALL THE	11240000
18	1124 *	I/O ERROR TRANSIENT BACK INTO STORAGE.	11250000
18	1125 *		11260000
18	1126 *	MLCA ERROR RECOVERY	11270000
19	0001 1127 ERBCELOG EQU X'01'	IF ON LOG TO CE TRACE AREA	11280000
19	1128 *	IF OFF LOG TO USER TRACE AREA	11290000
19	1129 *		11300000
20	0006 1130 ERBDPCA EQU ERBDPLG+1	C P AID (OLD EQUATE VALUE)	11310000

14	0008 1168 FIADDA		
15	0008 1170 FIADSD		
16	000C 1172 FIADTY		
16	0040 1174 FIAMCO		
17	0020 1175 FIAMDI		
17	0010 1176 FIAMRD		
18	0008 1177 FIAMPE		
18	0004 1178 FIAMTE		
18	0002 1179 FIAMJO		
19	0001 1180 FIAMSC		
19	000D 1182 FIADSF		
20	1184 *****		

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DATE 81/12/08	SPL/3	VERSION 08/28/80	PAGE 72	TIME 02:15	DATE 81/12/08
01	IF DO	LINE	SOURCE		
		3833	GENCTITLE 'MAIN STORAGE IPL - START FILE REBUILD, #MSBLD';	01280000	
		3834	/*	*/ 01290000	
02		3835	*****	*/ 01300000	
		3836	/* FILE REBUILD, #MSBLD, IS CONSIDERED AS PART OF IPL, BUT RUNS AS	*/ 01310000	
		3837	/* A SEPARATE TASK AND NOT UNDER THE COMMAND PROCESSOR AS IPL DOES. */	*/ 01320000	
03		3838	/*	*/ 01330000	
		3839	/* A SYSTEM COMMUNICATION AREA FLAG 'SCAMRBLD' IN BYTE 'SCASYS1' IS	*/ 01340000	
04		3840	/* SET ON TO INDICATE TO ANY ROUTINES THAT WILL BE CALLED BY #MSBLD */	*/ 01350000	
		3841	/* THAT IPL IS IN PROGRESS.	*/ 01360000	
		3842	/*	*/ 01370000	
		3843	/* #MSBLD WILL RUN AS A DEDICATED TASK, THEREFORE NO JOBS CAN BE	*/ 01380000	
		3844	/* STARTED UNTIL IS HAS COMPLETED.	*/ 01390000	
05		3845	*****	*/ 01400000	
		3846	/*	*/ 01410000	
		3847	REG(XR1)=ADDR(NUBSCA); /* XR1 --> SCA	*/ 01420000	
06		3848	XR1->SCASYS2=ONKSCAMRBLD; /* SET FILE REBUILD CALLED	*/ 01430000	
		3849	XR1->SCASYS2=ONKSCAMRBLD+SCAMIPUP; /*SET HIGH LEVEL DEDICATION	*/ 01440000	
07		3850	XR1->SCAIPLUK+1(1:1)=0; /* RESET STARTUP FLAG	*/ 01450000	
		3851	/*	*/ 01460000	
		3852	*****	*/ 01470000	
08		3853	/* DEALLOCATE TWA TRACK THAT WAS SAVED DURING IPL. TRACK WAS SAVED	*/ 01480000	
		3854	/* TO INSURE THAT THERE IS ENOUGH TASK WORK AREA TO RUN REBUILD.	*/ 01490000	
		3855	*****	*/ 01500000	
09		3856	/*	*/ 01510000	
		3857	NIPWRK=XR1->SCASSTWA+XR1->SCATWASZ; /* CALCULATE TWA TRACK SS	*/ 01520000	
		3858	NIPWRK=NIPWRK-XR1->SCADTKSZ; /*	*/ 01530000	
10		3859	REG(XR2)=NIPWRK; /* XR2 CONTAINS TWA TRACK SS	*/ 01540000	
		3860	GEN; /* DEALLOCATE TWA TRACK	*/ 01550000	
		3861 *	DTWAL QUE=NO	01560000	
11		3862	USING DTW#0005,1 USE AS A BASE REGISTER		
		3863	LA DTW#0005,1 LOAD BASE REGISTER VALUE		
		3864	ST DTW#0005,1,2 STORE SS ALLOCATED		
12		3865	LA NUBTWRK,2 POINT TO INDEX START		
		3866	DTW#0005 MAC DTW#0005(1),5C,2) MOVE IN FIRST ELEMENT		
		3867	DTW#0010 FWI DTW#0030+1C,1,X'01' INIT. Q-CODE TO FIRST TRACK		
13		3868	DTW#0020 CLC DTW#0030(2,1),DTW#SS(,1) UP TO TRACK TO FREE ?		
		3869	JE DTW#0030 YES, FREE UP TRACK		
14		3870	ALC DTW#SS(2,1),NUBSCA+SCADTKSZ ADD SECTORS/TRACK		
		3871	HL C DTW#0030+1C(1,1),DTW#0030+1C,1) DOUBLE Q-CODE		
		3872	BNOL DTW#0020C,1) CHECK NEXT TRACK		
		3873	A DTW#(,1),2 POINT TO NEXT INDEX BYTE		
15		3874	SLC DTW#BYT(1,1),DTW#0010+1C,1) DECR. INDEX LENGTH		
		3875	BH DTW#0010C,1) CHECK NEXT BYTE		
		3876	L DTW#MAC(,1),2 XR2-> NEXT ELEMENT		
16		3877	B DTW#0005C,1) CHECK NEXT ELEMENT		
		3878	DTW#0030 SBN 0C,2,0) MARK TRACK FREE		
		3879 *	GPOST TASK-TCBSTART POST IN CASE TASK WAITING		
17		3880	SVC SVCPOST,0		
		3881	DC AL1(CBSTART)		
		3882	DC AL1(C)		
18		3883	**** END OF EXPANSION **		
		3884	J DTW#END JUMP AROUND CONSTANT		
		3885	DTW#ELM DS CLS SAVED ELEMENT		
19		3886	DTW#CHAIN EQU DTW#ELM-3 CHAIN ADDRESS		
		3887	DTW#SS EQU DTW#CHAIN+2 SS VALUE		
		3888	DTW#BYT EQU DTW#SS+1 #BYTES OF INDEX		

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01	IF DO	LINE	SOURCE		
		3889	DTW#CM DS CL2		
02		3890	DTW#FF DC XL2'FFFF'		
		3891	DTW#END EQU *		
		3892	DROP 1		
03		3893	*** END OF EXPANSION **		
		3894	#ENDGEN;		
		3895	/*		
		3896	*****		
04		3897	/* ATTACH A TCB TO RUN F		
		3898	/* DEDICATED STATE.		
		3899	*****		
05		3900	/*		
		3901	GEN;		
		3902 *	ASSGN LEN=BATLEN		
06		3903	SVC SVCASSGN,0		
		3904	DC AL2CBATLEN		
		3905	DC AL1C1+X'00		
07		3906	*** END OF EXPANSION **		
		3907	#ENDGEN;		
		3908	XR1->BATLEN-1(1:25)		
08		3909	REG(XR2)=ADDR(NUBSCA)		
		1 3910	DO UNTIL XR2->TUBCH		
		1 3911	REG(XR2)=XR2->TUBCH		
09		2 1 3912	IF XR2->TUBDEVID=0		
		2 1 3913	IF XR2->TUBATTR=0		
		3 1 3914	IF XR2->TUBATTR=0		
10		3 1 3915	XR1->BATUBK(1:2)=0		
		3 1 3916	ELSE		
		2 1 3917	XR1->BATUBK(1:2)		
11		3918	END;		
		3919	REG(XR2)=SCADPUBK(1:		
		3920	XR2->CPTUB(1:2)=XR1-		
12		3921	XR2->CPIPOTE=BLANK;		
		3922	XR2->CPIPOTE-1(1:11		
		3923	XR2->CPIPOTE+7(1:8)		
13		3924	XR2->CPIPOTE+16(1:8		
		3925	REG(XR2)=REG(XR2)+CP		
		3926	XR1->BATUBK(1:2)=0		
14		3927	REG(XR2)=XR1->BATUBK		
		3928	XR2->TUBATTR-OFFCX'		
		3929	XR2->TUBATTR=ONCTUB		
15		1 3930	IF SCADPSS(1:1)=ONK		
		1 1 3931	DO;		
		1 1 3932	REG(XR2)=XR2->TUBJ		
16		2 1 3933	IF *ZERO,REG(XR1)=0		
		2 1 3934	XR2->JCBUPSI=ONK		
		1 3935	END;		
17		3936	GEN;		
		3937	SVC SACKEMT,0		
		3938	DC AL2ONPSSA		
18		3939	#ENDGEN;		
		3940	GENCTITLE '#MSBLD - CO		
		3941	/*		
		3942	*****		
19		3943	/* WAIT FOR FILE REBUILD		

CO2

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01	IF DO	LINE	SOURCE		
		1926 *			
02		1927	NUBTRFBL EQU 3048	MS TRANSIENT AREA	
		1928	NUBTRFBL EQU 2048	* (LENGTH OF AREA)	
		1929 *			
		1930	NUBTRFBL EQU 256	LENGTH OF TRACE BUFFER	
		1931	NUBTRFBL EQU NUBTRFBL-NUBTRFBL TRACE (DEFAULT BUFFER		

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01	IF DO	LINE	SOURCE		
		1981	PPSSBLF EQU #PPSSBLF		
02		1982	PPSSBLP EQU #PPSSBLP		
		1983	SPACE		
		1984	PPSUPS1 EQU #PPSSGUP		
		1985	SPACE		
		1986	PPCPNAME EQU #PPSSUPR		

11140000	14	0008 1168 FIADDATE EQU	FIADLABL+3	CREATION DATE	11690000	14	0011
11160000							
11170000	15	0008 1170 FIADSDIR EQU	FIADDATE	LIBRARY - START OF DIRECTORY	11710000	15	0012
11180000							
11190000		000C 1172 FIADTYPE EQU	FIADDATE+1	FILE TYPE	11730000		0015
11200000	16	0080 1173 FIAMINDX EQU	X'80'	BIT ON = INDEXED FILE	11740000	16	
11210000		0040 1174 FIAMCONS EQU	X'40'	BIT ON = CONSECUTIVE FILE	11750000		0015
11220000		0020 1175 FIAMPDRC EQU	X'20'	BIT ON = DIRECT FILE	11760000		
11230000	17	0010 1176 FIAMPDRL EQU	X'10'	BIT ON = 11 UNIT, BIT OFF = F1 UNIT	11770000	17	0015
11240000		0008 1177 FIAMPERM EQU	X'08'	BIT ON = PERMANENT FILE ('P')	11780000		
11250000		0004 1178 FIAMTEMP EQU	X'04'	BIT ON = TEMPORARY FILE ('T')	11790000		
11260000	18	0002 1179 FIAMPJOB EQU	X'02'	BIT ON = JOB FILE ('J')	11800000	18	0018
11270000		0001 1180 FIAMSCR EQU	X'01'	BIT ON = SCRATCH FILE ('S')	11810000		
11280000							0018
11290000	19	0000 1182 FIADSLG EQU	FIADTYPE+1	FLAG BYTE	11830000	19	001D
11300000							
11310000	20	1184	*****		11850000	20	

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01	IF DO LINE	SOURCE		
	3889 DTWACH DS CL2	SS ADDRESS TO FREE		
	3890 DTWFF DC XL2'FFFF'	CONSTANT OF -1		
02	3891 DTWEND EQU *			
	3892 DROP 1	DROP BASE REGISTER USAGE		
03	3893 *** END OF EXPANSION **			
	3894 BENDGEN;		01570000	
	3895 /*		01580000	
	3896 /*****		01590000	
04	3897 /* ATTACH A TCB TO RUN FILE REBUILD, #MSBLD. IT WILL RUN IN A		01600000	
	3898 /* DEDICATED STATE.		01610000	
	3899 /*****		01620000	
05	3900 /*		01630000	
	3901 GEN;	/* GET SPACE FOR ATTACH PARMS	01640000	
	3902 * ASSGN LEN=8ATLENG,QUEUE-YES		01650000	
06	3903 SVC SVCASSGN,0	ASSIGN REQUEST		
	3904 DC AL2(8ATLENG+4)	LENGTH + 4 FOR QUEUEING		
	3905 DC AL1(1+X'80')	ATTRIBUTES		
07	3906 *** END OF EXPANSION **			
	3907 BENDGEN;		01660000	
	3908 XR1->8ATLENG-1(1:25)=VARCNIPATCH+8ATLENG-1(1:25); /*MOVE PARM	*/	01670000	
08	3909 REG(XR2)=ADDR(NUBACEQH+1+QHDUB-TUBCHAIN); /* XR1-> TUB CHAIN	*/	01680000	
	1 3910 DO UNTIL (XR2->TUBCHAIN-1=QHDNULL); /* GET CONSOLE TUB LOOP	*/	01690000	
	1 3911 REG(XR2)=XR2->TUBCHAIN(1:2); /* XR2 --> TUB	*/	01700000	
09	1 3912 IF XR2->TUBDEVID=TUBSKBOP THEN /* DISPLAY STATION TUB? AND..	*/	01710000	
	2 1 3913 IF XR2->TUBATTR1=ONKTUBSGN+TUBMCN) THEN /* SIGNED ON CONSOLE?	*/	01720000	
	3 1 3914 IF XR2->TUBATTR2=ONKTUBMSTN) THEN /* AND WORK STATION?	*/	01730000	
10	3 1 3915 XR1->8ATTUB(1:2)=REG(XR2); /* YES, SAVE IN PARM LIST	*/	01740000	
	3 1 3916 ELSE		01750000	
	2 1 3917 XR1->8ATTUB(1:2)=XR2->TUBTUB; /* NO, SAVE HORIZONTAL TUB	*/	01760000	
11	3918 END;		01770000	
	3919 REG(XR2)=SCADCPMB(1:2); /* GET WORK AREA ADDRESS	00145*/	01780000	
12	3920 XR2->CPTUB(1:2)=XR1->8ATTUB; /* STORE TUB ADDRESS	*/	01790000	
	3921 XR2->CPINPOTE=BLANK; /* INITIALIZE DATA AREA	00145*/	01800000	
	3922 XR2->CPINPOTE-1(1:119)=XR2->CPINPOTE; /*	00145*/	01810000	
	3923 XR2->CPINPOTE+7(1:8)=C'@IPLPROC'; /* REBUILD PROCEDURE	00145*/	01820000	
13	3924 XR2->CPINPOTE+16(1:8)=VARCNIPSTART+7(1:8); /* STARTUP	00145*/	01830000	
	3925 REG(XR2)=REG(XR2)+CPINPOTE; /* SET DATA ADDRESS	00145*/	01840000	
	3926 XR1->8ATDATA(1:2)=REG(XR2); /*	00145*/	01850000	
14	3927 REG(XR2)=XR1->8ATTUB(1:2); /* XR2 PTR TUB	00145*/	01860000	
	3928 XR2->TUBATTR2=OFF(X'FO'); /* SET DATA MODE IN TUB	00145*/	01870000	
	3929 XR2->TUBATTR2= ONKTUBDATA+TUBMSTN); /*	00145*/	01880000	
15	1 3930 IF SCADCP2(1:1)=ONKSCAMPMBL) THEN /* REBUILD REQUEST?	00145*/	01890000	
	1 1 3931 DO;	/* YES, SET JCB UPSI	00145*/	01900000
	1 1 3932 REG(XR2)=XR2->TUBJCB(1:2); /* GET JCB ADDRESS	00145*/	01910000	
16	2 1 3933 IF ^ZERO,REG(XR1)=REG(XR1)+X00 THEN /* ADDRESS OK?	00145*/	01920000	
	2 1 3934 XR2->JCBUPSI=ONKX'91'; /* YES, SET UPSI SWITCH	00145*/	01930000	
	1 3935 END;		01940000	
17	3936 GEN;	/* CALL ATTACH TRANSIENT #SWAT	01950000	
	3937 SVC SVCXIENT,OREFRESH		01960000	
	3938 DC AL2(CNIPSSATC)		01970000	
18	3939 BENDGEN;		01980000	
	3940 GENCTITLE 'MISCP - COMMAND PROCESSOR WAIT ROUTINE';		01990000	
	3941 /*		02000000	
19	3942 /*****		02010000	
	3943 /* WAIT FOR FILE REBUILD TO COMPLETE. AT THAT TIME OTHER TASKS CAN	*/	02020000	

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01	IF DO LINE	SOURCE		
	1981 PPSSEBUF EQU PPSSECR+2	SOURCE-GET CURRENT BUFFER ADDRESS		
02	1982 PPSSELEN EQU PPSSEBUF+1	SOURCE-GET LENGTH OF RECORD		
	1983 SPACE			
	1984 PPSUPSI EQU PPSSELEN+1	UPSI SWITCHES		
	1985 SPACE			
03	1986 PPSNAME EQU PPSUPSI+8	PREPETHRE NAME		

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01	IF DO LINE	SOURCE		
	3944 /* BE INITIA			
	3945 /* 1. JOB QU			
02	3946 /* 2. AUTO S			
	3947 /*			
	3948 /* NOTE: IN			
03	3949 /*			
	3950 /*****			
	3951 /*			
04	1 3952 DO UNTIL (			
	1 3953 REG(XR1)=			
	1 3954 GEN;			
05	1 3955 * WAIT			
	1 3956 SVC			
	1 3957 *** END OF EXI			
06	1 3958 BEND			
	1 1 3959 IF SCADCF			
	2 1 3960 IF XR1->			
07	2 2 3961 DO;			
	2 2 3962 GEN;			
	2 2 3963 SVC			
08	2 2 3964 DC			
	2 2 3965 BEND			
	2 1 3966 END;			
09	2 1 3967 ELSE			
	2 2 3968 DO;			
	2 2 3969 GEN;			
10	2 2 3970 SVC			
	2 2 3971 DC			
	2 2 3972 BEND			
11	1 1 3973 END;			
	1 1 3974 ELSE			
	1 3975 WIPSWITCH			
12	3976 END;			
	3977 IF SCATPLA			
	1 3978 VARCNUP			
13	1 1 3979 DO;			
	1 1 3980 GEN;			
	1 1 3981 SVC			
14	1 1 3982 DC			
	1 1 3983 BEND			
	1 3984 END;			
	3985 REG(XR2)=NO			
15	1 3986 IF XR2->SCA			
	1 3987 XR2->SCAD			
16	3988 XR2->SCASYS			
	3989 /*			
	3990 /*****			
17	3991 /* BUILD TTC			
	3992 /*****			
	3993 /*			
18	3994 REG(XR1)=NO			
	3995 GEN;			
	3996 * PIQ			
19	3997 SVC			
	3998 DC			

11690000	14	0011 1222 FIADLBOU EQU	FIADRECL+2	LIBRARY - OWNER QUEUE POINTER	12230000	14	0020 127
11710000	15	0012 1224 FIADLBUS EQU	FIADLBOU+1	LIBRARY - COUNT OF CURRENT USERS	12250000	15	0021 127
11730000	16	0015 1226 FIADLSTR EQU	FIADRECH+3	RELATIVE RECORD NUMBER OF NEXT RECORD	12270000	16	0022 127
11740000							0080 127
11750000							0040 128
11760000							0020 128
11770000	17	0015 1230 FIADRFSST EQU	FIADLSTR	START SSS OF RESERVED AREA FREE SPACE	12310000	17	128
11780000							0010 128
11790000							128
11800000	18	0018 1233 FIADSTDA EQU	FIADLSTR+3	SSS OF START OF DATA	12340000	18	0008 128
11810000							128
11830000	19	0018 1235 FIADENDA EQU	FIADSTDA+3	SSS OF END OF EXTENT	12360000	19	0004 128
11850000	20	001D 1237 FIADVTOC EQU	FIADENDA+2	RELATIVE S/D OF VTOC ENTRY	12380000	20	128
							0002 128
							0001 129

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	01	IF DO	LINE	SOURCE	
			3944	/* BE INITIALIZED FOR AUTO START:	*/ 02030000
			3945	/* 1. JOB QUEUE	*/ 02040000
	02		3946	/* 2. AUTO SPOOL WRITER	*/ 02050000
			3947	/*	*/ 02060000
	03		3948	/* NOTE: INDEX REGISTERS 1 & 2 WILL BE DESTROYED IF OP-END ROUTER	*/ 02070000
			3949	/* (*CPRT) IS CALLED, (DESTROYED BY *SVAT).	*/ 02080000
			3950	/*	*/ 02090000
			3951	/*	*/ 02100000
	04		1 3952	DO UNTIL (NIPSWTCH(1:1)=ON(WAITEND)); /* WAIT FOR REBUILD	*/ 02110000
			1 3953	REG(XR1)=0; /* SET FOR GENERAL WAIT	*/ 02120000
			1 3954	GEN; /* WAIT FOR *MSBLD TO COMPLETE	*/ 02130000
	05		1 3955	/* WAIT Q-QXLOFF	02140000
			1 3956	SVC SVCMWAIT,QXLOFF WAIT ON SPECIFIED EVENT	
			1 3957	*** END OF EXPANSION **	
	06		1 3958	ENDGEN;	02150000
			1 3959	IF SCADCFG1(1:1)=OFF(SCAIPJQFM) THEN /* POST FROM REBUILD DETATCH?*/	02160000
	07		2 1 3960	IF XR1->ECHPARM=ON(ECMTTC) THEN /* NO, IS IT TTC?	*/ 02170000
			2 2 3961	DO; /* YES,	*/ 02180000
			2 2 3962	GEN; /* CALL I/O ERROR PROCESSOR	*/ 02190000
	08		2 2 3963	SVC SVCXFER,QREFRESH	02200000
			2 2 3964	DC AL1(CRPTC)	02210000
			2 2 3965	ENDGEN;	02220000
	09		2 1 3966	END;	02230000
			2 1 3967	ELSE	02240000
			2 2 3968	DO; /* NO,	*/ 02250000
	10		2 2 3969	GEN; /* CALL INPUT OP-END ROUTER	*/ 02260000
			2 2 3970	SVC SVCXFER,QREFRESH	02270000
			2 2 3971	DC AL1(CRPT)	02280000
	11		2 2 3972	ENDGEN;	02290000
			1 1 3973	END;	02300000
			1 1 3974	ELSE	02310000
	12		1 3975	NIPSWTCH(1:1)=ON(WAITEND); /* REBUILD DONE, SET FLAG	*/ 02320000
			3976	END;	02330000
			3977	IF SCAIPLW+1(1:1)=01 /* STARTUP ABENDED? OR ...	*/ 02340000
	13		1 3978	VAR(NIURACEQH+QIDWSC)(1:1)=0 THEN /* WSTOCH POST PENDING?	*/ 02350000
			1 1 3979	DO; /* YES, HONOR CP POST	*/ 02360000
			1 1 3980	GEN; /* CALL I/O ERROR PROCESSOR	*/ 02370000
	14		1 1 3981	SVC SVCXFER,QREFRESH	02380000
			1 1 3982	DC AL1(CRPTC)	02390000
			1 1 3983	ENDGEN;	02400000
	15		1 3984	END;	02410000
			3985	REG(XR2)=ADDR(NIURSCA); /* XR2 PTR SCA	*/ 02420000
			1 3986	IF XR2->SCASYS1=OFF(SCAOVER) THEN /* REFORMAT JOB QUEUE?	*/ 02430000
	16		1 3987	XR2->SCADCFG1=OFF(SCAIPJQFM); /* YES, RESET FLAG	*/ 02440000
			3988	XR2->SCASYS1=OFF(SCAIPJQFM+SCAOVER); /*RESET FILE REBUILD CALLED	*/ 02450000
			3989	/*	*/ 02460000
	17		3990	/*	*/ 02470000
			3991	/* BUILD TTC ACE.	*/ 02480000
			3992	/*	*/ 02490000
	18		3993	/*	*/ 02500000
			3994	REG(XR1)=ADDR(NIURSCA); /*XR1 PTR TCB TTC	*/ 02510000
			3995	GEN; /* BUILD ACE	*/ 02520000
	19		3996	/* PIQ DEV-QDITTC	02530000
			3997	SVC SVCPQSWC,QND+QXLOFF	
	20		3998	DC AL1(QDITTC+0)	

CD4

DATE 81/12/08	SPL/3	VERSION 08/28/80	PAGE 38	TIME 02:15	DATE 81/12/08
	01	IF DO	LINE	SOURCE	
			2036	#AMPLATCH EQU X'02'	ATTACH FAILED.
	02		2037	#AMPLRES EQU X'03'	NO RESOURCES.
			2038	#AMPLXIS EQU X'04'	CONDITION EXISTS.
			2039	#AMPLSUC EQU X'05'	SUCCESSFUL AND PRINTER.
	03		2040	#AMPLSUC EQU X'06'	SUCCESSFUL AND DISPLAY.
			2041	#AMPLSUC EQU X'07'	SUCCESSFUL AND NOT INITIATED.

12210000	14	0020 1273 FIADATT1 EQU	FIADFCM+1	ATTRIBUTE BYTE ONE	12740000	14	0039 1327 FIAL
12230000		0080 1274 FIADXTND EQU	X'80'	EXTEND CAPABLE FILE	12750000		
12250000	15	0021 1276 FIADCONT EQU	FIADATT1+1	COUNT OF CURRENT USERS	12770000	15	0012 1329 FIAL
12270000		0022 1278 FIADATTR EQU	FIADCONT+1	ATTRIBUTE BYTE THREE	12790000		1331 ****
12290000	16	0080 1279 FIADOTAD EQU	X'80'	BIT ON = FILE OPENED AS OUTPUT OR ADD	12800000	16	1332 *
		0040 1280 FIAMPBPR EQU	X'40'	BIT ON = KEY BUCKET HAS BEEN PRIMED	12810000		1333 *
12310000	17	0020 1281 FIAMINFR EQU	X'20'	BIT ON = INDEXED PORTION OF F1 HAS BEEN	12820000	17	1334 *
12320000		1282 *		FREED BY ALLOCATE	12830000		1335 *
12340000	18	0010 1283 FIAMKAS EQU	X'10'	BIT ON = HIGH KEY BUCKET ASSIGNED	12840000	18	1336 ****
		1284 *		(NOT TO BE USED BY TERMINATION)	12850000		0038 1338 FIAL
12360000	19	0008 1285 FIAMNREC EQU	X'08'	BIT ON = NON-FORMATTED FILE	12860000	19	003D 1340 FIAL
		1286 *		(VALID IN THE VTDC)	12870000		003F 1341 FIAL
12380000	20	0004 1287 FIAMDIMG EQU	X'04'	BIT ON = INVALID DATA AREA	12880000	20	0028 1343 FIAL
		1288 *		(VALID IN THE VTDC)	12890000		
		0002 1289 FIAMRFIL EQU	X'02'	BIT ON = FILE ALLOCATED IN RESERVE AREA	12900000		
		0001 1290 FIAMDLMV EQU	X'01'	BIT ON = OFF-LINE MULTI-VOLUME FILE	12910000		

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DATE 81/12/08	SPL/3	VERSION 08/28/80	PAGE 75	TIME 02:15	DATE 81/12/08
01	IF DO	LINE	SOURCE		
		3999	*** END OF EXPANSION **		
02	1	4000	BENDGEN;	02540000	
	1	4001	IF XR2->SCADCFG2=OFF(SCAMSPOL+SCAMJOBQ) THEN /*CALL SPOOL OR JQ? */	02550000	
	1	4002	DO; /* YES, CALL IPL ROUTINE */	02560000	
03	1	4003	GEN;	02570000	
	1	4004	SVC SVCKIENT,QREFRESH CALL SPOOL/JQ IPL ROUTINE	02580000	
	1	4005	DC AL2(NIPSP IPL) ADDRESS OF PARM LIST	02590000	
04	1	4006	BENDGEN;	02600000	
	1	4007	END;	02610000	
	1	4008	IF XR2->SCADCP51 =ON(SCAMALL) THEN /* STOP COMMAND? */	02620000	
05	1	4009	DO; /* YES, CALL TTC ROUTINE */	02630000	
	1	4010	GEN;	02640000	
	1	4011	SVC SVCKFER,QREFRESH CALL *CPTC	02650000	
06	1	4012	DC AL1(RCPTC) RTB	02660000	
	1	4013	BENDGEN;	02670000	
	1	4014	END;	02680000	
07	1	4015	/*	02690000	
	1	4016	/*	02700000	
	1	4017	/* PROCESS FOR HISTORY FILE WRAP FEATURE.	02710000	
	1	4018	/*	02720000	
08	1	4019	/*	02730000	
		4020	GEN; /* CALL HISTORY INIT TRANSIENT */	02740000	
09		4021	SVC VCKTENT,QREFRESH	02750000	
		4022	DC AL2(NIPSSHF1)	02760000	
		4023	BENDGEN;	02770000	
10	1	4024	REG(XR1)=VAR(NUMCPTC+TCBJCB+1:2); /* GET INITIALIZATION JCB */	02780000	
	1	4025	IF *ZERO,REG(XR1)=REG(XR1)+X00 THEN /* VALID ADDRESS? */	02790000	
	1	4026	DO; /* YES, FREE JCB */	02800000	
11	1	4027	NUMCPTC+TCBJCB+1:2)=X00; /* RESET POINTER */	02810000	
	1	4028	GEN; /* FREE JCB */	02820000	
	1	4029 *	FREE LEN-JCBLLNTH	02830000	
12	1	4030	SVC SVCFREE,Q0 ISSUE FREE REQUEST		
	1	4031	DC AL2(JCBLLNTH) LENGTH OF AREA TO FREE		
	1	4032	DC AL1(0+1) FREE FUNCTION BYTE		
13	1	4033	*** END OF EXPANSION **		
	1	4034	BENDGEN;	02840000	
	1	4035	END;	02850000	
14	1	4036	IF XR2->SCADCFG3=ON(SCAMOTTD) THEN /* NEED TO START AUTOCALL TASK? */	02860000	
	1	4037	IF XR2->SCADLIN=OFF(SCAMPACU1+SCAMPACU2+SCAMPACU3+SCAMPACU4) THEN	02870000	
	2	4038	NIPACU01;	02880000	
15	2	4039	DO; /* YES, START IT */	02890000	
	2	4040	/*	02900000	
	2	4041	/*	02910000	
16	2	4042	/* GET SPACE FOR A JOB CONTROL BLOCK. IT WILL BE USED IN ATTACH OF */	02920000	
	2	4043	/* AUTOCALL TASK AND AS A WORK AREA FOR AUTOCALL TASK FIND.	02930000	
	2	4044	/*	02940000	
17	2	4045	/*	02950000	
	2	4046	GEN; /* GET SPACE FOR A JCB */	02960000	
	2	4047 *	ASSGN LEN-JCBLLNTH	02970000	
18	2	4048	SVC SVCSSEN0 ASSIGN REQUEST		
	2	4049	DC AL2(JCBLLNTH) ASSIGN LENGTH		
	2	4050	DC AL1(1+0) ATTRIBUTES		
19	2	4051	*** END OF EXPANSION **		
	2	4052	BENDGEN;	02980000	
	2	4053	XR1->JCBLLNTH-1(1:112)=XR1->VAR(JCBLLNTH-1)(1:112)	02981000	

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01	IF DO	LINE	SOURCE		
02		2091	SCAM56K EQU X'30'	X'30' - 96K MAIN STORAGE	
		2092	SCAM56K EQU X'20'	X'20' - 64K MAIN STORAGE	
		2093	SCAM54K EQU X'18'	X'18' - 48K MAIN STORAGE	
		2094	SCAM52K EQU X'10'	X'10' - 32K MAIN STORAGE	
		2095	*		
03		2146	SCADSIZE EQU	SCADSI	
		2147	SCAM56K EQU X'04'		
		2148	*		
		2149	SCADCFG1 EQU	SCADCF	
		2150	SCAMPED EQU	SCAMP	

12740000	14	0039 1327 FIADHOKY EQU	FIADLSTP+4	SSS/D OF HIGHEST KEY IN OVERFLOW AREA	13280000	14	0000 1380
12750000							0080 1381
12770000	15	0012 1329 FIALZVTA EQU	FIADHOKY-FLAEDFQ	LENGTH OF THE SECOND VTOC AREA	13300000	15	0040 1382
12790000		1331	*****		13320000		0010 1383
12800000		1332 *			13330000		0090 1385
12810000	16	1333 *	THE FOLLOWING FIELDS ARE ONLY SUPPORTED IN THE AFA FORMAT-1		13340000	16	0080 1386
12820000		1334 *	FOR INDEXED FILES		13350000		1387
12830000		1335 *			13360000		1388
12840000	17	1336	*****		13370000	17	1389
12850000							1390
12860000	18	0038 1338 FIADKBT EQU	FIADHOKY+2	KEY BUCKET POINTER	13390000	18	1391
12870000							1392
12880000		003D 1340 FIADPCBQ EQU	FIADKBT+2	FILE POSITION CONTROL BLOCK POINTER	13410000		1393
12890000	19	003F 1341 FIADRES3 EQU	FIADPCBQ+2	RESERVED FOR FUTURE USE	13420000	19	0000 1394
12900000							0002 1395
12910000	20	0028 1343 FIALLGCD EQU	FLAEDFQ+1	LENGTH OF A FORMAT-1 FOR CONSECUTIVE AND	13440000	20	0004 1396
							0006 1397

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	01	IF DO LINE	SOURCE			01	IF DO LINE
		2 1 4054	-XR1->VAR(JCBLMTH-1); /* RESET JCB @B478*/ 02982000				3 2 4109
		4 1 4055	IF XR2->SCADSSPF=ONKSCAM21) THEN /* X.21 FEATURE? @B478*/ 02983000				3 2 4110
		4 1 4056	IF XR2->SCADSP3=ONKSCAM21S) THEN /* AND SWITCHED? @B478*/ 02984000				3 2 4111
		4 1 4057	NIPFNDAC+\$FNDONPB(1:8)=NIP*GC21; /* YES, CHANGE TASK NAME @B478*/ 02985000				3 2 4112
		4 1 4058	/* 02990000				3 2 4113
		4 1 4059	*****				3 2 4114
		4 1 4060	/* FIND AUTOCALL TASK. IF TASK MODULE IS NOT FOUND, TERMINATE THE /* 03010000				3 2 4115
		4 1 4061	/* AUTOCALL FUNCTION. /* 03020000				3 2 4116
		4 1 4062	*****				3 2 4117
		4 1 4063	/* 03040000				4 2 4118
		2 1 4064	REG(XR2)=REG(XR1); /* XR2-> JCB AREA - FIND PARM /* 03050000				4 3 4119
		2 1 4065	XR2->\$FNDLEN-1(1:18)=VAR(NIPFNDAC+\$FNDLEN-1)(1:18); /* PARM LIST /* 03060000				4 3 4120
		2 1 4066	XR2->JCBOPROG(1:8)=XR2->\$FNDONPB; /* SAVE NAME IN JCB @B478*/ 03065000				4 2 4121
		2 1 4067	GENKSV C SWCFER, QREFRESH); /* FIND AUTOCALL TASK /* 03070000				4 2 4122
		2 1 4068	GENKDC AL1(CF IND)); /* /* 03080000				4 3 4123
		3 1 4069	IF XR2->\$FNDTOT=0 THEN /* AUTOCALL TASK FOUND? /* 03090000				4 3 4124
		3 1 4070	NIPACU02; 03100000				4 3 4125
		3 2 4071	DO; /* YES, CONTINUE /* 03110000				4 3 4126
		3 2 4072	/* 03120000				3 2 4127
		3 2 4073	*****				3 1 4128
		3 2 4074	/* INIT ATTACH PARAMETER LIST FROM FIND PARAMETER LIST. /* 03140000				3 1 4129
		3 2 4075	*****				3 2 4130
		3 2 4076	/* 03160000				3 2 4131
		3 2 4077	NIPACTSK+\$ATJCB(1:2)=REG(XR2); /* JCB ADDRESS /* 03170000				2 1 4132
		3 2 4078	NIPACTSK+\$ATLOAD(1:12)=XR2->\$FNDOLDA; /* LOADER PARM LIST /* 03180000				2 4133
		3 3 4079	DO WHILE (PLUS, XR2->\$FNDCCRS=XR2->\$FNDCCRS-X8); /* REGION SIZE /* 03190000				2 4134
		3 3 4080	NIPACTSK+\$ATPSSIZ(1:1)=VAR(NIPACTSK+\$ATPSSIZ)(1:1)*X1; /* /* 03200000				1 4135
		3 2 4081	END; 03210000				1 4136
		3 2 4082	/* 03220000				1 4137
		3 2 4083	*****				1 1 4138
		3 2 4084	/* INITIALIZE JCB. /* 03240000				1 1 4139
		3 2 4085	*****				1 1 4140
		3 2 4086	/* 03260000				1 1 4141
		3 2 4087	XR2->\$FNDLEN-1(1:18)=XR2->VAR(\$FNDLEN-1)(1:18) 03270000				1 1 4142
		3 2 4088	-XR2->VAR(\$FNDLEN-1); /* RESET FIND @B478*/ 03280000				1 1 4143
		3 2 4089	XR2->JCBDINIT=JCBDPRNG; /* INITIALIZE JCB DEFAULTS /* 03300000				1 1 4144
		3 2 4090	XR2->JCBDSCH2=JCBDPRNT; /* /* 03310000				1 1 4145
		3 2 4091	XR2->JCBDSCH3=JCBDPRP; /* /* 03320000				1 1 4146
		3 2 4092	XR2->JCBDJOBK(1:3)=NIP*INI; /* /* 03330000				1 1 4147
		3 2 4093	XR2->JCBDJOB(1:2)=XR2->JCBDJOB; /* /* 03340000				1 4148
		3 2 4094	XR2->JCBDJFRG(1:2)=VAR(NIPACTSK+\$ATPSSIZ)(1:1); /* /* 03350000				
		3 2 4095	XR2->JCBDJRSZ=XR2->JCBDJFRG; /* STORE REGION SIZE /* 03360000				
		3 2 4096	REG(XR1)=SCADNTUB(1:2); /* STORE JOB ID NUMBER IN JCB /* 03370000				
		3 2 4097	XR2->JCBDJOB(1:2)=XR1->TUBJSD; /* /* 03380000				
		3 2 4098	/* 03390000				
		3 2 4099	*****				
		3 2 4100	/* ATTACH A TCB FOR THE AUTOCALL TASK. /* 03410000				
		3 2 4101	*****				
		3 2 4102	/* 03430000				
		3 2 4103	GEN; /* ASSIGN ATTACH PARM LIST /* 03440000				
		3 2 4104 *	ASSGN LEN= \$ATLENG, QUEUE=YES 03450000				
		3 2 4105	SVC SWOSEN, 0 ASSIGN REQUEST				
		3 2 4106	DC AL2(\$ATLENG+4) LENGTH + 4 FOR QUEUEING				
		3 2 4107	DC AL1(C+'X'80') ATTRIBUTES				
		3 2 4108	*** END OF EXPANSION **				

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DATE 81/12/08	SPL/3	VERSION 08/28/80	PAGE 40	TIME 02:15	DATE 81/12/08	SPL/3	VERSION 08/28/80
	01	IF DO LINE	SOURCE			01	IF DO LINE
		2146	SCANSIZE EQU SCADP3ND+1 1 CONTROL STORAGE CONFIGURATION				2201
		2147	SCANSIZE EQU X'04" - X'04" - 16K CONTROL STORAGE				2202
		2148	*				2203
		2149	SCADCFER EQU SCANSIZE+1 1 SPOOL AND JOB INDICATORS				2204
		2150	SCADWRTD EQU X'00" - X'00" - AUTO WRITER SUPPORTED				2205

AREA	13280000	14	0020 1379 DEQUEUE EQU X'20'	DEQUEUE REQUEST	13800000	14
			0000 1380 QUEUE EQU X'00'	QUEUE REQUEST	13810000	
			0080 1381 PRIOR EQU X'80'	MASK FOR PRIORITY QUEUEING	13820000	
AREA	13300000	15	0040 1382 SYS EQU X'40'	SYSTEM QUEUE HEADER REQUEST	13830000	
			0010 1383 LIFO EQU X'10'	MASK FOR LIFO QUEUEING	13840000	15
*****	13320000		0000 1384 FIFO EQU X'00'	MASK FOR FIFO QUEUEING	13850000	
	13330000		0090 1385 PRIORL EQU PRIOR+LIFO	MASK FOR LIFO PRIORITY QUEUEING	13860000	
AT-1 *	13340000	16	0080 1386 PRIORF EQU PRIOR+FIFO	MASK FOR FIFO PRIORITY QUEUEING	13870000	16
	13350000		1387 *		13880000	
	13360000		1388 ** THE FOLLOWING QUEUE HEADERS ARE OFFSETS FROM LOCATION X'0100'		13890000	
*****	13370000	17	1389 ** IN MAIN STORE. THE QUEUE HEADERS HAVE VARIOUS FUNCTIONS		13900000	17
			1390 ** DEPENDENT ON THEIR USERS REQUIREMENTS. ANY USER OF THESE QUEUE		13910000	
	13390000		1391 ** HEADERS MUST ALSO BE AWARE THAT CONTROL STORE MAY ALSO ACCESS		13920000	
		18	1392 ** THE HEADER ASYNCHRONOUSLY.		13930000	18
	13410000		1393 *		13940000	
TER	13420000	19	0000 1394 QHDFD EQU X'00'	DISK IOS (ACE)	13950000	19
			0002 1395 QHDIO EQU X'02'	DISKETTE IOCS (ACE)	13960000	
			0004 1396 QHDPT EQU X'04'	PRINTER IOCH (ACE)	13970000	
TIVE AND	13440000	20	0006 1397 QHDWSC EQU X'06'	WORKSTATION IOCH (ACE)	13980000	20

D07

TIME 02:15	DATE 81/12/08	SPL/3	VERSION 08/28/80	PAGE 77	TIME 02:15	DATE 81/12/08	SPL/3	VERSION 08
		01	IF DO LINE SOURCE				01	IF DO LINE
			3 2 4109 MVC \$ATLENG-1(25,XR1),NIPACTSK+\$ATLENG-1 /* MOVE PARMLIST */ 03460000					4149
			3 2 4110 MVC \$FNDLDAC2,XR1,\$FNDOLNK,XR1) /* SET LOAD ADDR @B478*/ 03470000					4150 /*
		02	3 2 4111 CLC JCBOPROG(8,XR2),NIPMGC21 /* X.21 TASK? @B478*/ 03472000				02	4151 /*
			3 2 4112 JNE NIPACU04 /* JUMP IF NOT @B478*/ 03474000					4152 /*
			3 2 4113 SBN \$ATFLAGC,XR1,\$ATREAL /* X.21,SET LOGICAL=REAL @B478*/ 03476000					4153 /*
		03	3 2 4114 NIPACU04 SVC SVXCIENT,QREFRESH /* ATTACH AUTOCALL/X.21 @B478*/ 03480000				03	4154 /*
			3 2 4115 DC AL2(NIPSSATC) /* */ 03490000					4155 R
			3 2 4116 \$ENDGEN; 03500000					4156 X
		04	3 2 4117 NIPWORK=REG(XR1); /* STORE RETURN CODE */ 03510000				04	4157 X
			4 2 4118 IF NIPWORK(1:1) = 0 THEN /* DID ATTACH FAIL? */ 03520000					4158 I
			4 3 4119 DO; /* YES, ERROR CONDITION EXISTS */ 03530000					2 4159
		05	4 3 4120 SCADCFG3(1:1)=OFF(SCAMPDITO); /* RESET AUTOCALL SUPPORT */ 03540000				05	2 4160
			4 2 4121 END; 03560000					2 1 4161 /*
			4 2 4122 ELSE 03570000					2 1 4162 /*
		06	4 3 4123 DO; /* OKAY INIT FOR AUTOCALL TASK */ 03580000				06	2 1 4163 /*
			4 3 4124 NUB*LBFI+FIADLBUS(1:1)=VAR(NUB*LBFI+FIADLBUS)(1:1)-X1; /*USE CNTR*/ 03590000					2 1 4164 /*
			4 3 4125 XR1->TCBSTAT6=ON(TCBDEDO); /* DEDICATED OVERRIDE FLAG */ 03600000					2 1 4165 /*
		07	4 3 4126 SCADCTUT(1:1)=SCADCTUT(1:1)-X1; /* DECREMENT USER TASK COUNT */ 03610000				07	2 1 4166
			3 2 4127 END; 03620000					2 1 4167
		08	3 1 4128 END NIPACU02; 03630000				08	2 1 4168
			3 1 4129 ELSE 03640000					2 1 4169
			3 2 4130 DO; /* AUTOCALL TASK NOT FLUND */ 03650000					2 1 4170
		09	3 2 4131 SCADCFG3(1:1)=OFF(SCAMPDITO); /* RESET AUTOCALL SUPPORT */ 03660000				09	2 1 4171
			2 1 4132 END; 03680000					2 1 4172 /*
			2 4133 END NIPACU01; 03690000					2 1 4173 /*
			2 4134 ELSE 03700000					2 1 4174 /*
		10	1 4135 XR2->SCADCFG3=OFF(SCAMPDITO); /* RESET AUTOCALL SUPPORT */ 03710000				10	2 1 4175 /*
			1 4136 NIPSSPF; 03740000					2 1 4176 /*
			1 4137 IF SCADSSPF(1:1)=ON(SCAMKCKF) THEN /* NEED TO START *GAML TASK? */ 03750000					2 1 4177
		11	1 1 4138 DO; /* YES, START IT */ 03760000				11	2 1 4178
			1 1 4139 /* */ 03770000					2 1 4179
			1 1 4140 /****** */ 03780000					2 1 4180
		12	1 1 4141 /* CALL *MSKCK TO START *GAML TASK. */ 03790000				12	2 1 4181
			1 1 4142 /****** */ 03800000					2 1 4182
			1 1 4143 /* */ 03810000					2 1 4183
		13	1 1 4144 GEN; /* CALL START TRANSIENT */ 03820000				13	2 1 4184
			1 1 4145 SVC SVXCIENT,QREFRESH 03830000					2 4185
			1 1 4146 DC AL2(MSKCKSSND) 03840000					4186 XR
		14	1 1 4147 \$ENDGEN; 03850000				14	4187 XR
			1 4148 END; 03860000					4188 XR
		15					15	4189 XR
								4190 /*
								4191 /*
		16					16	4192 /*
								4193 /*
								4194 /*
								4195 /*
		17					17	4196 /*
								1 4197 IF
		18					18	1 1 4198 D
								1 1 4199
								1 1 4200
		19					19	1 1 4201
								1 1 4202
								1 2 4203
		20					20	1 2 4204

D07

TIME 02:15	DATE 81/12/08	SPL/3	VERSION 08/28/80	PAGE 41	TIME 02:15	DATE 81/12/08	SPL/3	VERSION
		01	IF DO LINE SOURCE				01	IF DO LINE
			22001 SCAML4TR EQU X'80'	EXTENDED TRACE LINE#4 (R6)				2256 SC
			22002 SCAML3TR EQU X'40'	EXTENDED TRACE LINE#3 (R6)				2257 SC
		02	22003 SCAML2TR EQU X'20'	EXTENDED TRACE LINE#2 (R4)			02	2258 *
			22004 SCAML1TR EQU X'00'	EXTENDED TRACE LINE#1 (R4)				2259 SC
			22005 SCAML4TR EQU X'08'	TRACE COMMUNICATIONS LINE # (R6)				2260 *





14	0082 1460 QHDSQS EQU X'82'	SYSTEM QUEUE SPACE (FQE)	14610000
	1461 * ---- THRU ----		14620000
	1462 * EQU X'BE'	RESERVED	14630000
15	0090 1463 QHINDEX EQU X'90'	INQUIRY EXIT QUEUE (ACE)	14640000
	0092 1464 QHQUAL EQU X'92'	QUEUED ACQUIRE INTERFACE LIST (PL)	14650000
	0094 1465 QHPRPT EQU X'94'	REMOTE PRINTER QUEUE (ACE)	14660000
16	0096 1466 QHDSCT EQU X'96'	SUBSYSTEM CONFIGURATION TABLE (PL)	14670000
	0098 1467 QHDTWAF1 EQU X'98'	TWA EXTENSION F1 CHAIN (F1)	14680000
	009A 1468 QHDEXTRA EQU X'9A'	EXTENDED TRACE (PL)	14690000
17	009C 1469 QHDSUBCN EQU X'9C'	SUBCONSOLE SYSLOG (PL)	14700000
	009E 1470 QHDSUBRA EQU X'9E'	SUBCONSOLE REASSIGN (PL)	14710000
	00A0 1471 QHDEIB EQU X'A0'	ERROR INFORMATION BLOCK (EIB)	14720000
18	00A2 1472 QHNSACE EQU X'A2'	NS GET PAGE ACE (ACE)	14730000
	00A4 1473 QHGLF EQU X'A4'	GENERAL LOGGING FACILITY PARMLIST (PL)	14740000
	00A6 1474 QHDEXAM EQU X'A6'	EXAM QUEUE (NAS)	14750000
19	00A8 1475 QHDMTT EQU X'A8'	MRT TERMINATION INTERLOCK	14760000
	00AA 1476 QHDPOLH EQU X'AA'	MULT SNA LINE INTERLOCK (ACE)	14770000
	00AC 1477 QHDSPLK EQU X'AC'	SPOOL FILE INTERLOCK (ACE)	14780000
20	00AE 1478 QHDX21 EQU X'AE'	MCLA X.21 (ACE)	14790000

14	000C 1514 ICAD00		
	1515 *		
	000E 1516 ICADTR		
	1517 *		
15	000F 1518 ICADTR		
	1519 * NOTE		
16	1520 *		
	1521 *		
17	1522 *		
	1524 *		
	1525 *		
18	1526 *		
	1527 *		
	001E 1528 ICADTR		
	1529 *		
19	002A 1530 ICADIC		
	1531 *		
20	002C 1532 ICADXT		

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01	IF DO	LINE	SOURCE		
	1	4205	END;	04430000	
02	2	4206	IF ZERO,REG(XR1)=REG(XR1)+X00 THEN /* TCB FOUND? @0145*/ 04440000		
	3	4207	IF XR1->TCBSTAT2= TCBWAIT THEN /* AND ITS WAITING? @0145*/ 04450000		
	3	4208	DO; /* YES, START IT UP @0145*/ 04460000		
03	3	4209	XR1->TCBSTATID=VAR(NUBCPTCB+TCBNSCNT)(1:1); /*SET TASK ID @0145*/ 04470000		
	3	4210	GEN;	04480000	
	3	4211	* TPOST MASK-TCBWAIT /* POST STARTUP TASK @0145 04490000		
04	3	4212	SVC SVCTPOST,0		
	3	4213	DC AL1(TCBWAIT)		
	3	4214	*** END OF EXPANSION **		
05	3	4215	BENDGEN;	04500000	
	3	4216	END;	04510000	
	1	4217	END;	04520000	
06	4218	GEN;	04530000		
	4219	SVC SVCEXIT,00 /* EXIT TO COMMAND PROCESSOR */ 04540000			
	4220	BENDGEN;	04550000		
07	4221	MSCPRENT;	04560000		
	4222	PROC OPTIONS (NOFALL,NOSAVE);	04570000		
08	1	4223	DO WHILE (SCASYS2(1:1)=ONKSCAMPUP); /* STARTUP IN PROCESS? @0145*/ 04580000		
	1	4224	IF SCASYS2(1:1)=ONKSCAMPBLD THEN /* AND REBUILD? @0145*/ 04590000		
	1	4225	DO; /* YES, WAIT FOR IPL @0145*/ 04600000		
	1	4226	GEN; /* SET OFF SSP ATTRIBUTES */ 04610000		
09	1	4227	* TCB@ R-XR1 /* XR1 --> TCB */ 04620000		
	1	4228	L 321,XR1 GET TCB ADDRESS.		
	1	4229	*** END OF EXPANSION **		
10	1	4230	LPRR IARX+PRV /* SET OPERANDS REAL */ 04630000		
	1	4231	SBF TCBSTAT4(XR1),TCBSYTH /* RESET SYSTEM TASK FLAG */ 04640000		
	1	4232	LPRR IARX+OP1+OP2+PRV /* RESET PIR TO ORIGINAL STATE */ 04650000		
11	1	4233	* TWA FUNC-GET,TAG-TWMP512,BUFF-MSCPREND,N-1,XL-YES,AREA-USA 04660000		
	1	4234	LA MSCPREND,2 LOAD USER'S BUFFER ADDRESS		
	1	4235	SVC 81,0 ISSUE TWA REQUEST		
12	1	4236	DC AL1(0+0+4) FUNCTION BYTE		
	1	4237	DC AL1(TWMP512) TAG		
	1	4238	DC AL1(1) LENGTH (IN SECTORS)		
	1	4239	*** END OF EXPANSION **		
13	1	4240	SBF PPSFLAG1(XR2),PPSCPBIT /* RESET SSP FLAG */ 04670000		
	1	4241	MVI PPSUP51C,XR2,0 /* RESET EXTERNAL INDICATORS */ 04680000		
14	1	4242	* TWA FUNC-PUT,TAG-TWMP512,N-1,XL-YES,AREA-USA 04690000		
	1	4243	SVC 81,0 ISSUE TWA REQUEST		
	1	4244	DC AL1(1+0+4) FUNCTION BYTE		
15	1	4245	DC AL1(TWMP512) TAG		
	1	4246	DC AL1(1) LENGTH (IN SECTORS)		
	1	4247	*** END OF EXPANSION **		
	1	4248	BENDGEN;	04700000	
16	1	4249	SCNDF51(1:1)=ONKSCAMPUPD; /* SET REBUILD COMPLETE @0145*/ 04710000		
	2	4250	IF SCAMPUP+1(1:1)=0 THEN /* NEED TO SET STARTUP FLAG? */ 04720000		
	2	4251	SCAMPUP+1(1:1)=SCAMPUP; /* YES, SET FLAG */ 04730000		
17	1	4252	REG(XR1)=ADDR(NUBCPTCB+TCBTTTC-1); /* XR1 PTR C.P. TTC @0145*/ 04740000		
	1	4253	GEN;	04750000	
18	1	4254	* POST DEV-QUITC,PREPPT-ID /*INDICATE REBUILD DONE @0145*/ 04760000		
	1	4255	SVC SWPOST,00		
	1	4256	DC AL1(QUITTC)		
	1	4257	DC AL1(PREPPT+0+0)		
19	1	4258	*** END OF EXPANSION **		
	1	4259	* TWAIT MASK-TCBWAIT,0-0 /* WAIT FOR IPL COMPLETE @0145*/ 04770000		

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01	IF DO	LINE	SOURCE		
	23011	SCAMP2PM EQU X'20'	X'20' - 2 SIDED - FM RECORDING		
	23012	SCAMP1PM EQU X'30'	X'30' - 1 SIDED - FM RECORDING		
02	23013	SCAMP024 EQU X'08'	X'08' - RECORD SIZE = 3024		
	23014	SCAMP512 EQU X'04'	X'04' - RECORD SIZE = 512		
	23015	SCAMP256 EQU X'02'	X'02' - RECORD SIZE = 256		



15140000	0000 1567 JCBINIT EQU 0	INITIATOR SWITCH BYTE	15680000		
15150000	0080 1568 JCBINTRA EQU X'80'	IN INTRA MODE (LOAD STATEMENT RECEIVED)	15690000		
15160000	0040 1569 JCBMTRNG EQU X'40'	PROGRAM RUNNING (BETWEEN RUN STATEMENT AND TERMINATION)	15700000		
15170000	1570 *		15710000		
15180000	0020 1571 JCBMTR EQU X'20'	IN INTER MODE (BETWEEN TERMINATION AND LOAD STATEMENT)	15720000		
15190000	1572 *		15730000		
15200000	0010 1573 JCBMTR EQU X'10'	IGNORE NO-HIST PROCEDURE ATTRIBUTE	15740000		
15210000	0008 1574 JCBMTR EQU X'08'	THIS IS A PRT JOB	15750000		
15220000	0004 1575 JCBMTR EQU X'04'	NO SOURCE REQUIRED	15760000		
	0002 1576 JCBMTR EQU X'02'	LOAD STAT RECEIVED THIS SESSION	15770000		
	0001 1577 JCBMTR EQU X'01'	LOAD STAT RECEIVED THIS JOB	15780000		
15240000					
15250000					
15260000	0001 1579 JCBINIT EQU JCBINIT+1	INITIATOR SWITCH BYTE TWO	15800000		
15270000	0080 1580 JCBMTR EQU X'80'	JOB REGION RECEIVED	15810000		
15280000	0040 1581 JCBMTR EQU X'40'	LOCAL DATA AREA IS IN STORAGE	15820000		
15290000	0030 1582 JCBMTR EQU X'30'	HIGH PRIORITY HAS BEEN SPECIFIED	15830000		
15300000	0020 1583 JCBMTR EQU X'20'	MEDIUM PRIORITY HAS BEEN SPECIFIED	15840000		
15310000	0010 1584 JCBMTR EQU X'10'	LOW PRIORITY HAS BEEN SPECIFIED	15850000		
15320000	1585 *	X'30' BITS OFF = NORMAL PRIORITY	15860000		
15330000	0008 1586 JCBMTR EQU X'08'	IN A PROCEDURE	15870000		

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SPL/3	VERSION 08/28/80	PAGE 81	TIME 02:15	DATE 81/12/08
01	IF DO LINE	SOURCE		
	4315	SATSPool EQU	SATCREAT+SATREAL+SATNONPM+SATPRIV	START SPOOL
	4316	SATBATCH EQU	SATCREAT+SATNONPM	START BATCH
02	4317	SATMSSIZ EQU	SATFLAG+1	*2K BLOCKS OF MAIN STORAGE
	4318	SATPRIOR EQU	SATMSSIZ+1	PRIORITY OF NEW TASK
	4319	SATTUB EQU	SATPRIOR+2	TUB ADDRESS
03	4320	SATJCB EQU	SATTUB	JCB ADDRESS
	4321	SATSSN EQU	SATTUB+4	SSSN VALUE OF NEXT TRANSIENT
	4322	SATFLAG1 EQU	SATSSN+1	SECOND FLAG BYTE
04	4323	SATFRSH EQU	X'80'	REFRESH UNCOND. IF ATACH SUCC.
	4324	SATCOMMON EQU	X'40'	PROG. HAS COMMON
	4325	SATQINT EQU	X'20'	PASS CONTROL TO INITIATOR
05	4326	SATINCJ EQU	X'10'	INCREMENT JOB COUNT
	4327	SATSYSTK EQU	X'08'	SYSTEM TASK
	4328	SATNRTUB EQU	X'04'	REQ. TUB, BUT NOT OWNER
06	4329	SATNCINQ EQU	X'02'	DISALLOW CANCEL OR INQ
	4330	SATACHER EQU	X'01'	ATTACHER(MRJE) INDICATOR
	4331	SATTSKID EQU	SATFLAG1+1	TASK ID OF TASK ATACHED
07	4332	SATDATA EQU	SATTSKID+2	ADDRESS OF DATA TO PUT
	4333	SATLENG EQU	SATDATA+1	LENGTH OF ATACH PARMLIST
	4334	*		
08	4335	*		ERROR RETURN CODES IN XR1 IN FORMAT 00XX, WHERE XX:
	4336	*		IF ATACH WAS SUCCESSFUL, XR1 RETURNS WITH ATTACHED TASKS TCB
	4337	*		ADDRESS.
09	4338	*		
	4339	SATERRO1 EQU	X'01'	NOT ENOUGH STORAGE
	4340	SATERRO2 EQU	X'02'	TASK NON-SWAPPABLE, AND NOT
10	4341	*		ENOUGH STORAGE
	4342	SATERRO3 EQU	X'03'	TASK NON-SWAPPABLE, AND ITS
	4343	*		STORAGE REQUIREMENTS WILL
11	4344	*		PUT A SWAPPABLE TASK TO SLEEP
	4345	SATERRO4 EQU	X'04'	ASSIGN FAILURE ON TCB
	4346	SATERRO5 EQU	X'05'	ASSIGN FAILURE ON RB
12	4347	SATERRO6 EQU	X'06'	ALLOCATE FAILURE FOR SWAP AREA
	4348	SATERRO7 EQU	X'07'	ALLOCATE FAILURE FOR WSWA
	4349	***		END OF EXPANSION **
13	4350	*		
	4351	*IPACTSK ATACH CREATE=YES,MSSIZ=1,SWAP=YES,PRIV=YES,REFRESH=YES,	04920000	
	4352	* DATA=NO,NAME=Y,TASKID=TCBIDACT,TUB=NO,	04930000	
14	4353	* PRIOR=TCBPRBLD,SYS=Y,V=DC	04940000	
	4354	NIPACTSK EQU *	04950000	
	4355	DC	4RL1'00'	SSSN OF MODULE
15	4356	DC	AL2(C)	LINK EDIT ADDRESS
	4357	DC	AL2(C)	START CONTROL ADDRESS
	4358	DC	ZRL1'00'	RLD OFFSET/ TOTAL SECTORS
16	4359	DC	AL2(C)	LOAD ADDRESS
	4360	DC	AL1(C)'80'+X'00'+X'00'+X'00'+X'00'+X'04'+X'00'+X'01')	
	4361	DC	AL1(C)	*2K BLOCKS MAIN STORAGE
17	4362	DC	AL1(TCBPRBLD)	PRIORITY ONLY IF NEW TASK
	4363	DC	AL2(C)	TUB ADDRESS
	4364	DC	XL4'0'	SSSN VALUE OF NEXT TRANSIENT
18	4365	DC	AL1(C)'80'+X'00'+X'00'+X'10'+X'08'+X'00'+X'00'+X'00')	
	4366	DC	AL1(TCBIDACT)	TASK ID ONLY IF NEW TASK
	4367	DC	AL2(C)	ADDRESS OF REQUEST DATA
19	4368	***		END OF EXPANSION **
	4369	*		
			04960000	

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01	IF DO LINE	
	4370	*IPFNDC \$FNDC
	4371	SPACE
02	4372	* PARAMETER L
	4373	SPACE
	4374	NIPFNDC EQU
03	4375	DC
	4376	DC
	4377	DC
04	4378	*
	4379	DC
	4380	* END OF EXPA
05	4381	*** END OF EXPA
	4382	*IPFNDC21 \$FNDC
	4383	SPACE
06	4384	* PARAMETER L
	4385	SPACE
	4386	NIPFNDC21 EQU
07	4387	DC
	4388	DC
	4389	DC
08	4390	*
	4391	DC
	4392	* END OF EXPA
09	4393	*** END OF EXPA
	4394	NIPMGC21 DC
	4395	*
10	4396	***
	4397	*****
	4398	***** MISC EQU
11	4399	*****
	4400	***
	4401	*
12	4402	X8 DC
	4403	ORG
	4404	X800 DC
13	4405	ORG
	4406	X000 DC
	4407	ORG
14	4408	X001 DC
	4409	ORG
	4410	X00 DC
15	4411	ORG
	4412	X01 DC
	4413	ORG
16	4414	X1 DC
	4415	ORG
	4416	X100 DC
17	4417	*
	4418	NIPSWTCH DC
	4419	WAITEND EQU
18	4420	*
	4421	***
	4422	*****
19	4423	***** REPROTE
	4424	*****

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01	IF DO LINE	SOURCE		
	2421	SCANDLMP EQU	SCANDLMP+1	1 COMMUNICATIONS CONFIGURATION
	2422	*		
02	2423	*		NOTE: THIS BYTE DESCRIBES HOW THE COMMUNICATION HARDWARE IS
	2424	*		DEFINED. BITS 0-3 DESCRIBE COMMUNICATION LINKS. BITS 4-7

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01	IF DO LINE	
	2476	*
	2477	SCANDLMP EQU
02	2478	*
	2479	SCANDLMP EQU

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0001 1621 JCBMDSRC EQU X'01'	TERMINATION - DISPLAY RETURN CODE	16220000
0005 1623 JCBDMNK EQU JCBDSCH3+1	SCHEDULER INTERLOCK BYTE	16240000
0080 1624 JCBMSLOG EQU X'80'	SYSLOG TRANSIENT CALLED	16250000
0040 1625 JCBMYSYN EQU X'40'	SYSIN TRANSIENT CALLED	16260000
0020 1626 JCBMDKAL EQU X'20'	DISKETTE FILE ALLOCATED, BUT NOT CLOSED	16270000
0010 1627 JCBMVDVC EQU X'10'	DISKETTE VTDC ON DISK	16280000
0008 1628 JCBMVDVU EQU X'08'	DISKETTE VTDC UPDATED	16290000
0004 1629 JCBMRC5M EQU X'04'	RESUME - CALL #CSIM	16300000
0002 1630 JCBMSELT EQU X'02'	AUTO-LOADER DISKETTE SELECTED	16310000
0001 1631 JCBMRSST EQU X'01'	RESET STATEMENT RECEIVED	16320000
0006 1633 JCBMUPS1 EQU JCBDMNK+1	UPSI SWITCH BYTE	16340000
0080 1634 JCBMUPS1 EQU X'80'	UPSI SWITCH ONE	16350000
0040 1635 JCBMUPS2 EQU X'40'	UPSI SWITCH TWO	16360000
0020 1636 JCBMUPS3 EQU X'20'	UPSI SWITCH THREE	16370000
0010 1637 JCBMUPS4 EQU X'10'	UPSI SWITCH FOUR	16380000
0008 1638 JCBMUPS5 EQU X'08'	UPSI SWITCH FIVE	16390000
0004 1639 JCBMUPS6 EQU X'04'	UPSI SWITCH SIX	16400000
0002 1640 JCBMUPS7 EQU X'02'	UPSI SWITCH SEVEN	16410000

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IF DO	LINE	SOURCE		
	4370	*IPFNDAC \$FNDP V-DC,TYPE-O,NAME=#GCAC,SKIP-USER	04970000	
	4371	SPACE		
	4372	* PARAMETER LIST FOR SYSTEM FIND		
	4373	SPACE		
	4374	NIPFNDAC EQU *		
	4375	DC AL1(8) MEMBER TYPE		
	4376	DC CL8'#GCAC' MEMBER NAME		
	4377	DC AL1(128) SEARCH SYS LIBR AND		
	4378	* RETURN DIRECTORY ENTRY		
	4379	DC XL8'0' OUTPUT BY SYSTEM FIND		
	4380	* END OF EXPANSION OF \$FNDP		
	4381	*** END OF EXPANSION **		
	4382	*IPFND21 \$FNDP V-DC,TYPE-O,NAME=#GC21,SKIP-USER	04973000	
	4383	SPACE		
	4384	* PARAMETER LIST FOR SYSTEM FIND		
	4385	SPACE		
	4386	NIPFND21 EQU *		
	4387	DC AL1(8) MEMBER TYPE		
	4388	DC CL8'#GC21' MEMBER NAME		
	4389	DC AL1(128) SEARCH SYS LIBR AND		
	4390	* RETURN DIRECTORY ENTRY		
	4391	DC XL8'0' OUTPUT BY SYSTEM FIND		
	4392	* END OF EXPANSION OF \$FNDP		
	4393	*** END OF EXPANSION **		
	4394	NIP#GC21 DC CL8'#GC21' X.21 TASK NAME	04976000	
	4395	*	04980000	
	4396	***	04990000	
	4397	*****	05000000	
	4398	***** MISC EQUATES AND CONSTANTS	05010000	
	4399	*****	05020000	
	4400	***	05030000	
	4401	*	05040000	
	4402	X8 DC XL1'08' CONSTANT OF 8	05050000	
	4403	ORG *-1	05060000	
	4404	X800 DC XL2'0800' CONSTANT OF X'0800' (ZIC)	05070000	
	4405	ORG *-1	05080000	
	4406	X000 DC XL3'00' CONSTANT OF ZERO	05090000	
	4407	ORG *-1	05100000	
	4408	X001 DC XL3'000001' CONSTANT OF ONE	05110000	
	4409	ORG *-3	05120000	
	4410	X00 DC XL2'0000' CONSTANT OF ZERO	05130000	
	4411	ORG *-1	05140000	
	4412	X01 DC XL2'0001' CONSTANT OF ONE	05150000	
	4413	ORG *-1	05160000	
	4414	X1 DC XL1'01' CONSTANT OF 1	05170000	
	4415	ORG *-1	05180000	
	4416	X100 DC XL2'0100' CONSTANT OF X'100'	05190000	
	4417	*	05200000	
	4418	NIPSWTCH DC XL1'00' IPL SWITCH BYTE	05210000	
	4419	WALTERND EQU 128 REBUILD COMPLETE FLAG	05220000	
	4420	*	05230000	
	4421	***	05240000	
	4422	*****	05250000	
	4423	***** REPUTE WORK STATION DATA AREAS	05260000	
	4424	*****	05270000	

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IF DO	LINE	SOURCE		
	2476	* O - DON'T REFORMAT OVERFLOW FILE		
	2477	SCW#ALC EQU X'20' HISTORY-ALLOCATE OVERFLOW FILE		
	2478	* AFTER IPL		
	2479	SCW#ELC EQU X'10' HISTORY-RELEASE OVERFLOW FILE		

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IF DO	LINE
	4425 ***
	4426 *
	4427 NIPAWISB EQU
	4428 NIPAWISG DC
	4429 OR
	4430 DC
	4431 OR
	4432 DC
	4433 OR
	4434 DC
	4435 OR
	4436 SP
	4437 NIPAVPRB EQU
	4438 NIPAVPRM DC
	4439 OR
	4440 DC
	4441 OR
	4442 * EQUATES F
	4443 NIPSTART EQU
	4444 NIPSTRTE EQU
	4445 *
	4446 *****
	4447 *
	4448 *****
	4449 NIPPATCH EQU
	4450 DS
	4451 OR
	4452 *****
	4453 *
	4454 *****
	4455 NIPMINI DC
	4456 SPA
	4457 NIPWORK DS
	4458 OR
	4459 DC
	4460 NIPACUCU EQU
	4461 DC
	4462 DC
	4463 DC
	4464 SPA
	4465 DC
	4466 NIPARLAY EQU
	4467 DC
	4468 DC
	4469 DC
	4470 SPA
	4471 DC
	4472 NIPSSATC EQU
	4473 DC
	4474 DC
	4475 DC
	4476 SPA
	4477 DC
	4478 NIPSSBLD EQU
	4479 DC

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IF DO	LINE
	2531 SCW#MISZ
	2532 SCW#MISB
	2533 SCW#MISD
	2534 *

16210000	0001 1674 JCBPXT0 EQU	X'01'	FILE EXTENSION IN PROGRESS	16750000	0080 17
16240000	002A 1676 JCBDRGSZ EQU	JCBDRSTAT+1	REGION SIZE (STEP)	16770000	0020 17
16250000	002B 1678 JCBDCYAG EQU	JCBDRGSZ+1	CURRENT TAG IN PPSA	16790000	0010 17
16260000	002D 1680 JCBDSLOB EQU	JCBDCYAG+2	SYSLIST IOB ADDRESS	16810000	0008 17
16270000	002F 1682 JCBDRTCO EQU	JCBDSLOB+2	RETURN CODE (MIC)	16830000	17
16280000	0031 1684 JCBDEXT@ EQU	JCBDRTCO+2	JCB EXTENSION ADDRESS	16850000	17
16290000	0033 1686 JCBDRPG1 EQU	JCBDEXT@+2	RELATIVE SS OF PROGRAM1 MESSAGE MEMBER	16870000	0063 17
16300000	0035 1687 JCBDRPG2 EQU	JCBDRPG1+2	RELATIVE SS OF PROGRAM2 MESSAGE MEMBER	16880000	0080 17
16310000	0037 1688 JCBDRSR1 EQU	JCBDRPG2+2	RELATIVE SS OF USER1 MESSAGE MEMBER	16890000	0040 17
16320000	0039 1689 JCBDRSR2 EQU	JCBDRSR1+2	RELATIVE SS OF USER2 MESSAGE MEMBER	16900000	0020 17
16330000	003B 1690 JCBDRPG1L EQU	JCBDRSR2+2	PROGRAM1 LIBRARY FORMAT-1 ADDRESS	16910000	0008 17
16340000	003D 1691 JCBDRPG2L EQU	JCBDRPG1L+2	PROGRAM2 LIBRARY FORMAT-1 ADDRESS	16920000	0002 17
16350000	003F 1692 JCBDRSR1L EQU	JCBDRPG2L+2	USER1 LIBRARY FORMAT-1 ADDRESS	16930000	0001 17
16360000	0041 1693 JCBDRSR2L EQU	JCBDRSR1L+2	USER2 LIBRARY FORMAT-1 ADDRESS	16940000	0065 17
16370000					
16380000					
16390000					
16400000					
16410000					

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SPL/3 VERSION 08/28/80		PAGE 83		TIME 02:15		DATE 81/12/08	
IF DO	LINE	SOURCE		IF DO	LINE	SOURCE	
01	4425 ***			01	4480	DC	
	4426 *				4481	DC	
02	4427 NIPAVMSB EQU *			02	4482	DC	
	4428 NIPAVMSG DC XL8'00'		AUTO VARY MESSAGE PARMLIST		4483	DC	
03	4429 ORG NIPAVMSB+CNCUSM1-CPCMCU			03	4484	NIPSP1PL EQU	
	4430 DC AL1(CNCUIRL+CNCUSW5+CNCULOG+CNCUROL+CNCUOUT)				4485	DC	
	4431 ORG NIPAVMSB+CNCUSM2-CPCMCU SWITCH 2				4486	DC	
04	4432 DC AL1(CNCUCOND)			04	4487	DC	
	4433 ORG NIPAVMSB+CNCUM1C-CPCMCU-1 MIC				4488	SPACE 2	
	4434 DC XL2'5900'				4489	DC	
05	4435 ORG			05	4490	NIPSSHFI EQU *	
	4436 SPACE				4491	DC	
	4437 NIPAVPRB EQU *		AUTO VARY PARAM LIST		4492	DC	
06	4438 NIPAVPRM DC XL8'00'			06	4493	DC	
	4439 ORG NIPAVPRB+RWPLREQ				4494	SPACE 2	
	4440 DC AL1(RWPLAUT)		REQUEST BYTE		4495	DC	
07	4441 ORG			07	4496	MSKCKSSN EQU *	
	4442 * EQUATES FOR SAVE OF STARTUP PROCEDURE				4497	DC	
	4443 NIPSTART EQU NIPRDI0B+48		STARTUP PROCEDURE SAVE AREA		4498	DC	
08	4444 NIPSTRTE EQU NIPSTART+7			08	4499	DC	
	4445 *				4500	MSCPREND EQU *	
	4446 *****				4501	*/^ .END CHANGE A	
09	4447 * MAINTENANCE AREA			09	4502	RENDGEN	
	4448 *****				4503	END MSCPRENT;	
	4449 NIPPATCH EQU *		PATCH AREA	10			0 STATEMENTS FLAGGED DURING
10	4450 DS CL50		PATCH AREA				YOU USED 2175 SYMBOLS OUT OF 4
	4451 ORG *,256,190			11			
	4452 *****			12			
11	4453 * WHERE-TO-GO TABLE			13			
	4454 *****			14			
	4455 NIPMINI DC XL2'FFFF'		WTG TABLE IDENTIFER	15			
12	4456 SPACE			16			
	4457 NIPWORK DS CL2		WORK AREA	17			
	4458 ORG *-2			18			
13	4459 DC CL4'CMCU'		* MESSAGE ROUTER	19			
	4460 NIPACMCU EQU *			20			
	4461 DC XL3'00'		MODULE SSS				
14	4462 DC AL1(CO)		NUMBER OF TEXT SECTORS				
	4463 DC AL1(CO)		RLD DISPLACEMENT				
	4464 SPACE 2						
15	4465 DC CL4'RWBY'		* AUTO VARY TRANSIENT				
	4466 NIPARWBY EQU *						
	4467 DC XL3'00'		MODULE SSS				
16	4468 DC AL1(CO)		NUMBER OF TEXT SECTORS				
	4469 DC AL1(CO)		RLD DISPLACEMENT				
	4470 SPACE 2						
17	4471 DC CL4'SWRT'		* ATTACH				
	4472 NIPSSATC EQU *						
	4473 DC XL3'00'		MODULE SSS				
18	4474 DC AL1(CO)		NUMBER OF TEXT SECTORS				
	4475 DC AL1(CO)		RLD DISPLACEMENT				
	4476 SPACE 2						
19	4477 DC CL4'YSBL'		* FILE REBUILD #YSBLD				
	4478 NIPSSBLD EQU *						
	4479 DC XL3'00'		MODULE SSS				

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SPL/3 VERSION 08/28/80		PAGE 47		TIME 02:15		DATE 81/12/08	
IF DO	LINE	SOURCE		IF DO	LINE	SOURCE	
01	2531	SCMBDRB2 EQU	SCMBDRB2+5	01	2586	*	
	2532	SCMBDRB1 EQU	SCMBDRB2+7	02	2587	SCMBDFG6 EQU	
02	2533	SCMBDRB0 EQU	SCMBDRB1		2588	* NOTE: THIS	
	2534	*					

16750000	13	0080 1728 JCBMSYLB EQU X'80'	SEARCH SYSTEM LIBRARY ONLY	17290000	1782 *****
16770000		0040 1729 JCBMSLHG EQU X'40'	SYSLIST END MESSAGE REQUIRED	17300000	1783 *****
16790000	14	0020 1730 JCBMLIST EQU X'20'	LIST RPG	17310000	1784 * 0000
		0010 1731 JCBMNEXT EQU X'10'	SYSLIST 'NDEXTN' SPECIFIED	17320000	1785 *
16810000	15	0008 1732 JCBM1SCP EQU X'08'	15 CPI SPECIFIED ON FORMS STATEMENT	17330000	1786 * 0100
		1733 * EQU X'04'		17340000	1787 *
		1734 * EQU X'02'		17350000	1788 * 0100
		1735 * EQU X'01'		17360000	1789 *
16830000	16	0063 1737 JCBDSCH4 EQU JCBDLANG+1	SCHEDULER BYTE FOUR	17380000	1790 * 0100
16850000		0080 1738 JCBMPLK EQU X'80'	JCB TERMINATION INTERLOCK	17390000	1791 *
		0040 1739 JCBMPLIS EQU X'40'	FLUSH INLINE SOURCE	17400000	1792 * 0200
16870000	17	0020 1740 JCBMPLIS EQU X'20'	PROGRAM HAS INLINE SOURCE	17410000	1793 *
16880000		0010 1741 JCBMINTK EQU X'10'	INITIATOR DID NOT INITIATE THIS TASK	17420000	1794 * 0280
16890000		0008 1742 JCBMSRAL EQU X'08'	SECURED RESOURCE ALLOCATED BY THIS MRT	17430000	1795 *
16900000	18	0004 1743 JCBMEVPR EQU X'04'	EVOKED PROCEDURE	17440000	1796 * 02A3
16910000		0002 1744 JCBMSPCK EQU X'02'	SET SPOOL FILE EOF AT LAST CHECK POINT	17450000	1797 *
16920000		0001 1745 JCBMETBB EQU X'01'	ERROR INFORMATION BLOCK PRESENT (EIB)	17460000	1798 * 02A8
16930000	19				1799 *
16940000		0065 1747 JCBDCSBP EQU JCBDSCH4+2	CSB CHAIN POINTER	17480000	1800 * 02E0
	20				1801 *
					1802 * 0300

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DATE 81/12/08	SPL/3	VERSION 08/28/80	PAGE 84	TIME 02:15	DATE 81/12/08	4500 SYMBOL VERSTON OF THE AS
	01	IF DO LINE	SOURCE			YOU USED 2231 SYMBOLS.
		4480 DC AL1(C)	NUMBER OF TEXT SECTORS	05830000		
		4481 DC AL1(C)	RLD DISPLACEMENT	05840000		
	02	4482 SPACE 2		05850000		
		4483 DC CL4'MSSP'	SPOOL IPL TRANSIENT	05860000		
		4484 NIPSP1PL EQU *		05870000		LENGTH OF MODULE IS 1279
	03	4485 DC XL3'00'	MODULE SSS	05880000		
		4486 DC AL1(C)	NUMBER OF TEXT SECTORS	05890000		
		4487 DC AL1(C)	RLD DISPLACEMENT	05900000		
	04	4488 SPACE 2		05910000		
		4489 DC CL4'MSHF'	HISTORY FILE INITIALIZE	05920000		
		4490 NIPSSHFI EQU *		05930000		
	05	4491 DC XL3'00'	MODULE SSS	05940000		
		4492 DC AL1(C)	NUMBER OF TEXT SECTORS	05950000		
		4493 DC AL1(C)	RLD DISPLACEMENT	05960000		
	06	4494 SPACE 2		05970000		
		4495 DC CL4'MSKK'	#GAML START TRANSIENT	05980000		
		4496 MSKKSSEN EQU *		05990000		
	07	4497 DC XL3'00'	MODULE SSS	06000000		
		4498 DC AL1(C)	NUMBER OF TEXT SECTORS	06010000		
		4499 DC AL1(C)	RLD DISPLACEMENT	06020000		
	08	4500 MSCPREND EQU *+1	END OF #MSCPR	06030000		
		4501 */*.END CHANGE ACTIVITY - #MSCPR		06040000		
		4502 BENDGEN;		06050000		
	09	4503 END MSCPRENT;		06060000		
	10	0 STATEMENTS FLAGGED DURING COMPILATION				
		YOU USED 2175 SYMBOLS OUT OF 4000				
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					

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DATE 81/12/08	SPL/3	VERSION 08/28/80	PAGE 48	TIME 02:15	DATE 81/12/08	SPL/3	VERSION 08/28/80
	01	IF DO LINE	SOURCE			01	IF DO LINE
		2586 *					2641 *
		2587 SCANDCFG6 EQU SCANDCFG5+1	CONFIGURATION BYTE 6	(R4)			2642 *
	02	2588 * NOTE: THIS BYTE CONTAINS THE SAME BIT MASKS AS SYSTEM CONFIGURATION					2643 *** END OF EXPANSION ***







18360000	0220	1885	NUMLDF1 EQU	NUMJOB+NUMJOB	* (LENGTH OF AREA)	18860000	13
18370000	0020	1886	NUMLDF1 EQU	NUMJOB+NUMJOB	* (LENGTH OF AREA)	18870000	13
18380000	1887	*				18880000	1000 13
18390000	0300	1888	NUMTRAC EQU	NUMLDF1+NUMLDF1	TRAC LOGOUT ACE	18890000	14
18400000	0010	1889	NUMLACE EQU	16	* (LENGTH OF AN ACE)	18900000	1000 14
18410000	1890	*				18910000	1000 14
18420000	0310	1891	NUMERACE EQU	NUMTRAC+NUMLACE	ALTERNATE SECTOR ACE	18920000	15
18430000	1892	*				18930000	2000 15
18440000	0320	1893	NUMLGACE EQU	NUMERACE+NUMLACE	STATISTICAL LOGGING ACE	18940000	16
18450000	1894	*				18950000	19
18460000	0330	1895	NUMTIACE EQU	NUMLGACE+NUMLACE	INTERVAL TIMER ACE	18960000	16
18470000	1896	*				18970000	19
18480000	0340	1897	NUMSPACE EQU	NUMTIACE+NUMLACE	MSP PROC CHECK ERROR HANDLER ACE	18980000	17
18490000	1898	*				18990000	19
18500000	0350	1899	NUMSWACE EQU	NUMSPACE+NUMLACE	ACE FOR SWAP JOB	19000000	17
18510000	1900	*				19010000	19
18520000	0360	1901	NUMKACE EQU	NUMSWACE+NUMLACE	ACE FOR MS XIENT SCHEDULER	19020000	18
	1902	*				19030000	0000 19
	0370	1903	NUMTEACE EQU	NUMKACE+NUMLACE	ACE FOR DISKETTE ERP	19040000	19
	1904	*				19050000	0001 19
	0380	1905	NUMCSETC EQU	NUMTEACE+NUMLACE	CS TASK-TASK ERROR ACE	19060000	0080 19
	1906	*				19070000	0040 19

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MSCPR MSCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION PAGE 2 09/11/81 12/08/81 02:16

MSCPR MSCPR - MAIN STORAGE

00020000	01	ERR LOC OBJECT CODE	ADDR	STMT	SOURCE STATEMENT
	02			3	*****
	03			4	* MODULE NAME = MSCPR *
	04			5	* * * * *
	05			6	* DESCRIPTIVE NAME = MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION *
	06			7	* * * * *
	07			8	* COPYR * * * * *
	08			9	*/* COPYRIGHT= 5726-SS1 COPYRIGHT IBM CORP 1977, 1981 */*
	09			10	*/* LICENSED MATERIAL - PROGRAM PROPERTY OF IBM */*
	10			11	*/* REFER TO COPYRIGHT INSTRUCTIONS FORM NUMBER G120-2083.*/
	11			12	* ** END OF EXPANSION ** * * * * *
	12			13	* * * * *
	13			14	* STATUS = RELEASE 08 * * * * *
	14			15	* * * * *
	15			16	* FUNCTION = 1. EXECUTE FILE REBUILD * * * * *
	16			17	* 2. INITIALIZE FOR REMOTE WORK STATIONS * * * * *
	17			18	* * * * *
	18			19	* NOTES = * * * * *
	19			20	* * * * *
	20			21	* RESTRICTIONS = * * * * *
	21			22	* * * * *
	22			23	* PATCH LABEL = NIPATCH * * * * *
	23			24	* * * * *
	24			25	* MODULE-TYPE = LOAD (0) MODULE * * * * *
	25			26	* * * * *
	26			27	* PROCESSOR = SPL * * * * *
	27			28	* * * * *
	28			29	* MODULE-SIZE = 2048 BYTES * * * * *
	29			30	* * * * *
	30			31	* ATTRIBUTES = REUSABLE * * * * *
	31			32	* * * * *
	32			33	* ENTRY-POINT = MSCPRINT * * * * *
	33			34	* * * * *
	34			35	* PURPOSE = CONTINUE MAIN STORAGE IPL * * * * *
	35			36	* * * * *
	36			37	* LINKAGE = CALLED BY MAIN STORAGE IPL PHASE 3, MSC IPL * * * * *
	37			38	* * * * *
	38			39	* INPUT = * * * * *
	39			40	* * * * *
	40			41	* OUTPUT = * * * * *
	41			42	* * * * *
	42			43	* EXIT-NORMAL = TO COMMAND PROCESSOR RESIDENT ROUTINE. * * * * *
	43			44	* * * * *
	44			45	* EXIT-ERROR = * * * * *
	45			46	* * * * *
	46			47	* EXTERNAL-REFERENCE = N/A * * * * *
	47			48	* * * * *
	48			49	* ROUTINES = N/A * * * * *
	49			50	* * * * *
	50			51	* DATA AREAS = * * * * *
	51			52	* * * * *
	52			53	* CONTROL BLOCKS = * * * * *
	53			54	* * * * *
	54			55	* TABLES = * * * * *
	55			56	* * * * *

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SPL/3 VERSION 08/28/80

01	IF	DD	LINE	SOURCE
			2751	*****
			2752	*18 * * * * *

01	IF	DD	LINE	SOURCE
			2806	*****
			2807	TCPMATTD EQU *****

01	IF	DD	LINE	SOURCE
			2806	*****
			2807	TCPMATTD EQU *****

18860000	13	1939 *****	19400000	13
18870000		1940 *	19410000	
18880000		1000 1941 NUMANUC EQU NUMKIENT*NUMKIENT MAIN STORAGE NUCLEUS - VARIABLE AREA	19420000	
18890000	14	1942 *	19430000	14
18900000		1000 1943 NUMISSQS EQU NUMANUC FIXED NUCLEUS FREE AREA #2	19440000	
18910000		1000 1944 NUMISSQS EQU 40% DEFAULT LENGTH FREE AREA #2	19450000	
18920000		1945 *	19460000	
18930000	15	2000 1946 NUMLOADI EQU NUMISSQS+NUMISSQS LOAD ADDRESS WHEN IPL DISKETTE	19470000	15
18940000		1947 *	19480000	
18950000		1948 *** END OF EXPANSION **	19490000	
18960000	16	1949 * PPSEQ	19500000	16
18970000		1950 *****	19510000	
18980000		1951 *	19520000	
18990000	17	1952 * THE PROCEDURE PARAMETER SAVE AREA *	19530000	17
19000000		1953 *	19540000	
19010000		1954 *****	19550000	
19020000	18	0000 1956 PPSTAGID EQU 0 SECTOR TAG FOR TWAG/TWAP	19570000	18
19030000				
19040000				
19050000	19	0001 1958 PPSFLAG1 EQU PPSTAGID*1 FLAG BYTE	19590000	19
19060000		0080 1959 PPSCPBIT EQU X'80' PROCEDURE IS SCP	19600000	
19070000	20	0040 1960 PPSEOFSG EQU X'40' EOF RECEIVED FROM SOURCE GET	19610000	20

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*****	00040000	01
*	00050000	02
*	00060000	
FUNCTION *	00070000	03
*	00080000	
*	00090000	
*/	00100000	04
*/	00110000	
120-2083.*/	00120000	05
*	00130000	
*	00140000	06
*	00150000	
*	00160000	07
*	00170000	
*	00180000	08
*	00190000	
*	00200000	09
*	00210000	
*	00220000	10
*	00230000	
*	00240000	11
*	00250000	
*	00260000	12
*	00270000	
*	00280000	13
*	00290000	
*	00300000	14
*	00310000	
*	00320000	15
*	00330000	
*	00340000	16
*	00350000	
*	00360000	17
*	00370000	
*	00380000	18
*	00390000	
*	00400000	19
*	00410000	
*	00420000	20
*	00430000	
*	00440000	
*	00450000	
*	00460000	
*	00470000	
*	00480000	
*	00490000	
*	00500000	
*	00510000	
*	00520000	
*	00530000	
*	00540000	
*	00550000	
*	00560000	
*	00570000	

MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 3	V09/11/81	12/08/81	02:16
ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	
02		57	*/	CHANGE ACTIVITY - MISCPR	
		58	*	00145 INCR - P10402 ICS	00580000
		59	*	00478 INCR - P10807 X.21 FEATURE	00590000
03		60	*		00600000
		61	*	MESSAGES-INITIATED =	00610000
04		62	*		00620000
		63	*	*****	00630000
					00640000

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19400000	13	0047 1993 PPSWARD4 EQU PPSWARD3+8	VARIABLE 4	19940000	13	
19410000						
19420000		004F 1995 PPSWARD5 EQU PPSWARD4+8	VARIABLE 5	19960000		
19430000	14	0057 1997 PPSWARD6 EQU PPSWARD5+8	VARIABLE 6	19980000	14	
19440000						
19450000		005F 1999 PPSWARD7 EQU PPSWARD6+8	VARIABLE 7	20000000		
19460000	15	0067 2001 PPSWARD8 EQU PPSWARD7+8	VARIABLE 8	20020000	15	
19470000						
19480000		006F 2003 PPSWARD9 EQU PPSWARD8+8	VARIABLE 9	20040000	16	
19490000	16	0077 2005 PPSWARD10 EQU PPSWARD9+8	VARIABLE 10	20060000	17	
19500000						
19510000		007F 2007 PPSWARD11 EQU PPSWARD10+8	VARIABLE 11	20080000	18	
19520000	17					
19530000						
19540000						
19550000	18	2009 *** END OF EXPANSION **		20100000	18	
19570000		2010 * RML		20110000		
		2011 * REMOTE WORKSTATION TUB PROCESSOR TRANSIENT PARAMETER LIST		20120000		
19590000	19			20130000	19	
19600000				20140000		
19610000	20	2013 * 00 * 01 * 02 * 03 * 04 * 05 * 06 * 07 *		20150000	20	
		2014 * REQ * RCD *--- WSTD ---->* CUID ----->* LINE *				

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MISCPR #MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION				PAGE 4 V09/11/81 12/08/81 02:16			
ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	ERR LOC	OBJECT CODE
	*	00580000	65	*****			00660000
	0B145 *	00590000	66	*	STORAGE MAP - #MISCPR	*	00670000
	0B478 *	00600000	67	*****			00680000
	*	00610000	68	* 0000	FIXED NUCLEUS	*	00690000
	*	00620000	69	*		*	00700000
	*	00630000	70	*		*	00710000
	*****	00640000	71	*		*	00720000
			72	*		*	00730000
			73	* 0800	TRANSIENT AREA (#MISCPR)	*	00740000
			74	*		*	00750000
			75	*		*	00760000
			76	*		*	00770000
			77	*		*	00780000
			78	* 1000	VARIABLE NUCLEUS	*	00790000
			79	*		*	00800000
			80	*		*	00810000
			81	*		*	00820000
			82	*		*	00830000
			83	*		*	00840000
			84	*		*	00850000
			85	*	ASSIGN/FREE	*	00860000
			86	*		*	00870000
			87	*		*	00880000
			88	*	USER AREA	*	00890000
			89	*		*	00900000
			90	*		*	00910000
			91	*		*	00920000
			92	*		*	00930000
			93	*		*	00940000
			94	*	#EQU	GENERAL EQUATES	00950000
			95	*			00960000
			0001	96 XR1	EQU 1	REGISTER ONE	00970000
			0002	97 XR2	EQU 2	REGISTER TWO	00980000
			0004	98 PSR	EQU 4	PROGRAM STATUS REGISTER	00990000
			0008	99 ARR	EQU 8	ADDRESS RECALL REGISTER	01000000
			0010	100 IAR	EQU 16	INSTRUCTION ADDRESS REGISTER	01010000
			0001	101 IOB	EQU 1	IOB POINTER	01020000
			0002	102 DTF	EQU 2	DTF POINTER	01030000
			103	*			01040000
			0000	104 #	EQU 0	ALTERABLE CODE	01050000
			0000	105 ##	EQU 0	ALTERABLE CODE	01060000
			0002	106 @	EQU 2	LENGTH OF ADDRESSES	01070000
			107	*			01080000
			0040	108 BLANK	EQU C	BLANK CHARACTER	01090000
			0000	109 ZERO	EQU 0	**	01100000
			0001	110 ONE	EQU 1	**	01110000
			0002	111 TWO	EQU 2	**	01120000
			0003	112 THREE	EQU 3	**	01130000
			0004	113 FOUR	EQU 4	**	01140000
			0005	114 FIVE	EQU 5	**	01150000
			0006	115 SIX	EQU 6	**	01160000
			0007	116 SEVEN	EQU 7	**	01170000
			0008	117 EIGHT	EQU 8	**	01180000
			0009	118 NINE	EQU 9	**	01190000

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TIME 02:15	DATE 01/12/08	SPL/3 VERSION 08/28/80	PAGE 53	TIME 02:15	DATE 01/12/08	SPL/3 VERSION 08/28/80
01	IF DO LINE	SOURCE				01
	Z061 TCBPREM EQU X'93'	3270 EMULATION PRIORITY				Z916 TCBINL2
	Z062 TCBPREKT EQU X'90'	EXTENDED TRACE PRIORITY				Z917 TCBINL2

19940000	13
19960000	14
19980000	15
20000000	16
20020000	17
20040000	18
20060000	19
20080000	20
20100000	
20110000	
LIST	
*****	
07 *	
LINE *	

0003 2047	RWPLSID EQU	RWPLSID+2	WORKSTATION ID.	20480000
0004 2049	RWPLATTR EQU	RWPLSID+1	ATTRIBUTES (FOR GET ATTRIBUTES)	20500000
0006 2051	RWPLTUBB EQU	RWPLSID+3	TUB ADDRESS (RETURNED ON 'BUILD OFFLINE PRINTER TUB')	20520000 20530000
0006 2054	RWPLCUID EQU	RWPLSID+3	CONTROL UNIT ID.	20550000
0007 2056	RWPLLINE EQU	RWPLCUID+1	LINE NUMBER.	20570000
2057 *	EQU	X'80'	RESERVED	20580000
2058 *	EQU	X'40'	RESERVED	20590000
2059 *	EQU	X'20'	RESERVED	20600000
2060 *	EQU	X'10'	RESERVED	20610000
0008 2061	RWPLSLM4 EQU	X'08'	LINE 4	20620000
0004 2062	RWPLSLM3 EQU	X'04'	LINE 3	20630000
0002 2063	RWPLSLM2 EQU	X'02'	LINE 2	20640000
0001 2064	RWPLSLM1 EQU	X'01'	LINE 1	20650000
0008 2066	RWPLLEN EQU	RWPLLINE+1	LENGTH OF PLST	20670000
2068 ***	END OF EXPANSION **			20690000

2070 *		
000 2102	SCAMPYS EQU	SCAM
2103 *		
2104 *		
2105 *		
000 2106	SCAMPYK EQU	SCAM
2107 *		
000 2108	SCAMPWG EQU	SCAM
2109 *		
000 2110	SCASDISK EQU	SCAM
000 2111	SCASDIAL EQU	X'80'
000 2112	SCASPIN EQU	X'80'
000 2113	SCASPIN EQU	X'20'
000 2114	SCASPIN EQU	X'10'
000 2115	SCASCYG EQU	X'40'
2116 *		
2117 *		
2118 *****		
2119 *	THE FOLLOWING DISK	
2120 *	CAPACITY DISK, ON	
2121 *****		
000 2122	SCASDISK EQU	X'80'

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PAGE 4	V09/11/81	12/08/81	02:16
*****	00660000		
*	00670000		
*****	00680000		
*	00690000		
*	00700000		
*	00710000		
*	00720000		
-----*	00730000		
*	00740000		
*	00750000		
*	00760000		
*	00770000		
-----*	00780000		
*	00790000		
*	00800000		
*	00810000		
*	00820000		
*	00830000		
*	00840000		
-----*	00850000		
*	00860000		
*	00870000		
-----*	00880000		
*	00890000		
*	00900000		
*	00910000		
*	00920000		
*	00930000		
*****	00940000		
00950000			
00960000			
00970000			
00980000			
00990000			
01000000			
01010000			
01020000			
01030000			
01040000			
01050000			
01060000			
01070000			
01080000			
01090000			
01100000			
01110000			
01120000			
01130000			
01140000			
01150000			
01160000			
01170000			
01180000			
01190000			

MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION				PAGE 5	V09/11/81	12/08/81	02:16
ERR LOC	OBJECT CODE	ADDR	SYMT	SOURCE STATEMENT			
02		119 *			01200000		
		0010 120	TRUE EQU	X'10'	TRUE CONDITION CODE	01210000	
03		0090 121	FALSE EQU	X'90'	FALSE CONDITION CODE	01220000	
		0087 122	UNCOND EQU	X'87'	UNCONDITIONAL CONDITION CODE	01230000	
		123 *				01240000	
04		0080 124	NOOP EQU	X'80'	NEVER BRANCH	01250000	
		0000 125	NOBIT EQU	X'00'	NO BITS MASK	01260000	
		000F 126	NUMBITS EQU	X'0F'	NUMERIC BITS ONLY MASK	01270000	
		00F0 127	ZONEBITS EQU	X'F0'	ZONE BITS ONLY MASK	01280000	
05		00FF 128	ALLBIT EQU	X'FF'	ALL BITS MASK	01290000	
		0080 129	BIT0 EQU	X'80'	MASK FOR BIT 0 - X.....	01300000	
		0040 130	BIT1 EQU	X'40'	MASK FOR BIT 1 - ..X.....	01310000	
06		0020 131	BIT2 EQU	X'20'	MASK FOR BIT 2 - ...X.....	01320000	
		0010 132	BIT3 EQU	X'10'	MASK FOR BIT 3 - ....X....	01330000	
		0008 133	BIT4 EQU	X'08'	MASK FOR BIT 4 - .....X...	01340000	
07		0004 134	BIT5 EQU	X'04'	MASK FOR BIT 5 - .....X..	01350000	
		0002 135	BIT6 EQU	X'02'	MASK FOR BIT 6 - .....X.	01360000	
		0001 136	BIT7 EQU	X'01'	MASK FOR BIT 7 - .....X	01370000	
08		137 *				01380000	
		0008 138	IARX EQU	X'08'	IAR TRANSLATED	01390000	
		0004 139	OP2 EQU	X'04'	OP2 TRANSLATED	01400000	
09		0002 140	OP1 EQU	X'02'	OP1 TRANSLATED	01410000	
		0000 141	PRV EQU	X'00'	TASK PRIVILEGED	01420000	
		0001 142	NPRV EQU	X'01'	TASK NOT PRIVILEGED	01430000	
10		0080 143	DSABL EQU	X'80'	DISPATCHING DISABLED	01440000	
		144 ***	END OF EXPANSION **			01450000	
		145 *	SFNDP			01460000	
11		147 *	PARAMETER LIST FOR SYSTEM FIND			01480000	
12		149 *****	FIND INPUT PARAMETER LIST *****			01500000	
		0000 150	SFNDTYP EQU	0	LIBRARY TYPE	01510000	
		0008 151	SFNDLDB EQU	X'08'	LOAD MODULE	01520000	
13		0004 152	SFNDYSB8 EQU	X'04'	SUBROUTINE	01530000	
		0002 153	SFNDYSRC EQU	X'02'	SOURCE MODULE	01540000	
		0001 154	SFNDYPRC EQU	X'01'	PROCEDURE	01550000	
14		0008 155	SFNDYPRB EQU	SFNDTYP+8	8 CHARACTER MEMBER NAME	01560000	
		0009 157	SFNDOPR EQU	SFNDYPRB+1	OPERATION SWITCHES	01580000	
15		0080 158	SFNDYSYS EQU	X'80'	JUST SEARCH SYSTEM LIBRARY.	01590000	
		159 *			SKIP SEARCH OF USER LIBRARY.	01600000	
		0040 160	SFNDLDR EQU	X'40'	BUILD LONDER PARAM LIST - DO NOT	01610000	
16		161 *			REMOVE ENTIRE DIR ENTRY.	01620000	
		0020 162	SFNDYUSE EQU	X'20'	JUST SEARCH USER LIBRARY.	01630000	
		163 *			SKIP SEARCH OF SYSTEM LIBRARY.	01640000	
17		0010 164	SFNDYULB EQU	X'10'	SEARCH USER LIBRARY IN SFNDYFLA	01650000	
		165 *			INSTEAD OF DESIGNATED USER LIB.	01660000	
		0008 166	SFNDYWF1 EQU	X'08'	RETURN LIB F1 ADDR OF MEMBER.	01670000	
18		167 *			ONLY WITH REGULAR CALL. THE	01680000	
		168 *			START ADDR FIELD IS OVERLAPD	01690000	
		0004 169	SFNDYMQ EQU	X'04'	DO NOT ENQ OR DEQ LIBR DIR -	01700000	
19		170 *			CALLER DOING ENQ AND DEQ.	01710000	
		0008 171	SFNDYFLA EQU	SFNDYOPR+2	FORMAT 1 ADDR OF GIVEN USER LIB	01720000	

MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION							
ERR LOC	OBJECT CODE	ADDR	SYMT	SOURCE STATEMENT			
02		173 *****	FIND				
		0002 174	SFNDYDR EQU	SF			
03		175 *					
		0003 176	SFNDYDMS EQU	SF			
		177 *					
04		178 *					
		0005 179	SFNDYDLK EQU	SF			
		0005 180	SFNDYDMS EQU	SF			
05		0007 181	SFNDYDST EQU	SF			
		0007 182	SFNDYDIF EQU	SF			
		183 *					
06		0008 184	SFNDYDLD EQU	SF			
		186 *****	IF LONDR				
		187 *****	IN THE				
07		188 *****	IN FIELDS				
		0009 189	SFNDYDYS EQU	SF			
		0008 190	SFNDYDLD EQU	SF			
08		191 *****	END OF				
		193 *****	REPRIND				
09		0009 194	SFNDYDYS EQU	SF			
		000C 195	SFNDYDWT EQU	SF			
10		000A 196	SFNDYDWT EQU	SF			
		000B 197	SFNDYDWT EQU	SF			
		000C 198	SFNDYDWT EQU	SF			
		000D 199	SFNDYDWT EQU	SF			
11		200 *					
		000E 201	SFNDYDML EQU	SF			
12		010 202	SFNDYTOT EQU	SF			
		203 *					
		204 *					
13		205 *					
		206 *					
14		011 208	SFNDYDOP EQU	SF			
		008D 209	SFNDYSYR EQU	X'4'			
		004D 210	SFNDYDNR EQU	X'4'			
15		0112 211	SFNDYENL EQU	SF			
		212 **	END OF EXPANSION				
		213 **	END OF EXPANSION				
16		214 *	ACE				
		215 *****					
17		216 *	1*				
		217 *	CHAIN *				
		218 *****					
		219 *	g*	g*			
18		220 *	PARMS * TYPE *				
		221 *****					
		222 *					
19		001 223	ACECHAIN EQU	1			
		001 224	ACEIPR EQU	ACE			
		005 225	ACEYMB EQU	ACE			
20		006 226	ACEYPM1 EQU	ACE			

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01	IF	DD	LINE	SOURCE
			2936	TCORNL2 EQU TCORNL2+1 - INLINE PARAM 2
			2937	TCORNL3 EQU TCORNL2+1 - INLINE PARAM 3

01	IF	DD	LINE	SOURCE
			2936	TCORNL2 EQU TCORNL2+1 - INLINE PARAM 2
			2937	TCORNL3 EQU TCORNL2+1 - INLINE PARAM 3

01	IF	DD	LINE	SOURCE
			2936	TCORNL2 EQU TCORNL2+1 - INLINE PARAM 2
			2937	TCORNL3 EQU TCORNL2+1 - INLINE PARAM 3

20480000	2101 *	21020000							
13	000C 2102 SCAM2KYS EQU SCADCF52+1	21030000	1	NUMBER OF AVAILABLE 2K BLOCKS MS	21030000	13			
20500000	2103 *	21040000		(MAIN STORAGE SIZE MINUS NUMBER	21040000				
	2104 *	21050000		OF BND 2K BLOCKS)	21050000				
20520000	2105 *	21060000			21060000	14			
20530000	000D 2106 SCAM5*2K EQU SCAM2KYS+1	21070000	1	2K BLOCKS OF USER STORAGE	21070000				
	2107 *	21080000			21080000				
20550000	000E 2108 SCAMWRG EQU SCAM5*2K+1	21090000	1	SWAPPABLE TASK REGION SIZE	21090000	15			
	2109 *	21100000			21100000				
20570000	000F 2110 SCASDISK EQU SCAMWRG+1	21110000	1	DISK CONFIGURATION	21110000				
20580000	000B 2111 SCADUAL EQU X'80'	21120000	.	MULTIPLE SPINDLE DISK (R7)	21120000	16			
20590000	000B 2112 SCAS2SPIN EQU X'80'	21130000	.	2 SPINDLE DISK (R7)	21130000				
20600000	002D 2113 SCAS3SPIN EQU X'20'	21140000	.	3 SPINDLE DISK (R7)	21140000				
20610000	001D 2114 SCAS4SPIN EQU X'10'	21150000	.	4 SPINDLE DISK (R7)	21150000	17			
20620000	004D 2115 SCADCFG EQU X'40'	21160000	.	DISK CONFIG FLAG (R3)	21160000				
20630000	2116 *	21170000	.	0 - SMALL CAPACITY DISK	21170000				
20640000	2117 *	21180000	.	1 - LARGE CAPACITY DISK	21180000	18			
20650000	2118 *****	21190000			21190000				
	2119 * THE FOLLOWING DISK CONFIGURATION FLAGS ARE VALID ONLY FOR A SMALL *	21200000			21200000				
20670000	2120 * CAPACITY DISK, ONE WITH 60 SECTORS PER TRACK. *	21210000			21210000	19			
	2121 *****	21220000			21220000				
20690000	0081 2122 SCANDSKS EQU X'81'	21230000	.	DISK STATUS BITS	21230000	20			

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11/81 12/08/81 02:16	01	01200000	02	01210000	03	01220000	04	01230000	05	01240000	06	01250000	07	01260000	08	01270000	09	01280000	10	01290000	11	01300000	12	01310000	13	01320000	14	01330000	15	01340000	16	01350000	17	01360000	18	01370000	19	01380000	20	01390000	01400000	01410000	01420000	01430000	01440000	01450000	01460000	01480000	01500000	01510000	01520000	01530000	01540000	01550000	01560000	01580000	01590000	01600000	01610000	01620000	01630000	01640000	01650000	01660000	01670000	01680000	01690000	01700000	01710000	01720000
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MISCP R MISCP R - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 6 V09/11/81 12/08/81 02:16	
ERR LOC OBJECT CODE	ADDR	SYMT SOURCE STATEMENT	
	173	***** FIND OUTPUT PARAMETER LIST *****	01740000
	0002 174	\$FNDDADR EQU \$FNDDTYP+2 DISK ADDRESS OF REQUESTED	01750000
	175 *	LIBRARY MODULE	01760000
	0003 176	\$FNDDONS EQU \$FNDDADR+1 FOR TYPE O-NUMBER OF TEXT SEC	01770000
	177 *	FOR TYPE R-CATEGORY	01780000
	178 *	FOR TYPE S OR P-RECORD SIZE	01790000
	0005 179	\$FNDDLNK EQU \$FNDDONS+2 LINK-EDIT ADDRESS	01800000
	0005 180	\$FNDDNST EQU \$FNDDONS+2 NUMBER OF STATEMENTS FOR S OR P	01810000
	0007 181	\$FNDDSCT EQU \$FNDDLNK+2 ENTRY POINT OF MODULE	01820000
	0007 182	\$FNDDPFI EQU \$FNDDLNK+2 LIB F1 ADDR OF FOUND MEMBER	01830000
	183 *	SET IF REQUESTED BY \$FNDDPFI.	01840000
	0008 184	\$FNDDRLD EQU \$FNDDSCT+1 DISP OF RLDS IN LAST TEXT SEC	01850000
	186	***** IF LOADER=YES IS SPECIFIED, THE TOTAL NUMBER OF SECTORS *****	01870000
	187	***** IN THE LOAD MODULE IS PLACED AFTER \$FNDDRLD AND NO MORE *****	01880000
	188	***** FIELDS ARE MOVED FROM THE DIRECTORY. *****	01890000
	0009 189	\$FNDDTNS EQU \$FNDDRLD+1 TOTAL NO. SECTORS IN MODULE	01900000
	0008 190	\$FNDDOLA EQU \$FNDDTNS+2 LOAD ADDRESS - SET BY CALLER	01910000
	191	***** END OF LOADER PARAM LIST *****	01920000
	193	***** REMAINDER OF OUTPUT PARAMETER FOR A REGULAR CALL *****	01940000
	0009 194	\$FNDDCRS EQU \$FNDDOLA+1 SIZE OF PROGRAM (IN SECTORS)	01950000
	000C 195	\$FNDDACT EQU \$FNDDCRS+3 3 ATTRIBUTE BYTES OF MEMBER	01960000
	000A 196	\$FNDDAT1 EQU \$FNDDACT-2 FIRST ATTRIBUTE BYTE	01970000
	000B 197	\$FNDDAT2 EQU \$FNDDACT-1 SECOND ATTRIBUTE BYTE	01980000
	000C 198	\$FNDDAT3 EQU \$FNDDACT THIRD ATTRIBUTE BYTE	01990000
	000D 199	\$FNDDPRT EQU \$FNDDACT+1 FOR TYPE O - MRTMAX COUNT	02000000
	200 *	FOR TYPE P - X'FF' => MRT PROC	02010000
	000F 201	\$FNDDREL EQU \$FNDDPRT+1 RELEASE LEVEL OF MODULE	02020000
	001D 202	\$FNDDTOT EQU \$FNDDREL+2 TOTAL SIZE OF MODULE (IN SEC)	02030000
	203 *	MUST BE ZERO BEFORE CALL, IF	02040000
	204 *	ZERO ON RETURN => NOT FOUND.	02050000
	205 *	FOR A LOADER REQUEST CONTROL	02060000
	206 *	IS NOT RETURNED ON A NO FIND.	02070000
	0011 208	\$FNDDCOM EQU \$FNDDTOT+1 RESULTS OF FIND	02090000
	008D 209	\$FNDDSYR EQU X'80' FOUND IN SYSTEM LIBRARY	02100000
	004D 210	\$FNDDUSR EQU X'40' FOUND IN USER LIBRARY	02110000
	0012 211	\$FNDDLEN EQU \$FNDDCOM+1 LENGTH OF PARAM LIST	02120000
	212 *	END OF EXPANSION OF \$FNDDP	02130000
	213	*** END OF EXPANSION ***	02140000
	214 *	ACE	02150000
	215	*****	02160000
	216 *	1* 3* 5* 6* 7*	02170000
	217 *	CHAIN * IAR * * PWB * PWB1 * PWB2 *	02180000
	218	*****	02190000
	219 *	8* 9* B* D* F*	02200000
	220 *	PWB3 * TYPE * XRL * * XRL2 * TCB *	02210000
	221	*****	02220000
	222 *		02230000
	0001 223	ACECHAIN EQU 1 CHAIN TO NEXT ACTION CONTROL ELEMENT	02240000
	0003 224	ACEIAR EQU ACECHAIN+2 CALLERS IAR VALUE	02250000
	0005 225	ACEPWB EQU ACEIAR+2 PWB ADDRESS (CONTROL STORAGE ACE)	02260000
	0006 226	ACEPWB1 EQU ACEPWB+1 FIRST IN-LINE PWB	02270000

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21070000	0008 2174 SCAPLQND EQU X'08'	(REFORMAT SPOOL FILE AT IPL)	21590000	2208 *
21080000	0004 2156 SCAPLQND EQU X'04'	X'04' - HOLD JOB QUEUE	21570000	2209 *
21090000	2157 *	(DO NOT START AT IPL)	21580000	2211 *
21090000	0002 2158 SCAPLQFH EQU X'02'	X'02' - REFORMAT JOBQ AT IPL	21590000	2212 *
21060000	2159 *	IF NOT IPL, INPUT JOB QUEUE	21600000	2213 *
21070000	2160 *	HAS BEEN POSTED	21610000	2214 *
21080000	0001 2161 SCAPSPB EQU X'01'	X'01' - ALLOCATE FILE ON 'B'	21620000	001A 2215 SCASP
21090000	2162 *		21630000	001C 2216 SCATN
21100000	0013 2163 SCADCFG2 EQU SCADCFG1+1	1 SSP CONFIGURATION OPTIONS	21640000	2217 *
21110000	0080 2164 SCAPCMAT EQU X'80'	COMMAND LANGUAGE	21650000	001E 2218 SCAPV
21120000	0040 2165 SCAPMSF EQU X'40'	PASSWORD SECURITY	21660000	0020 2219 SCAPV
21130000	0020 2166 SCAPLQND EQU X'20'	JOB QUEUE	21670000	2220 *
21140000	0010 2167 SCAPSPOL EQU X'10'	SPOOL	21680000	0022 2221 SCATV
21150000	0008 2168 SCAPMDK EQU X'08'	DISPLAY STATION DM TRANSIENT	21690000	0023 2222 SCATV
21160000	0004 2169 SCAPMDR EQU X'04'	DISPLAY STATION DM RESIDENT	21700000	2223 *
21170000	2170 *	NOTE: IF 'WORK MDNR' BOTH =1'	21710000	0025 2224 SCASIS
21180000	2171 *	THEN RESIDENT/TRANSIENT	21720000	0027 2225 SCALG
21190000	2172 *	VERSION OF DSM SELECTED.	21730000	2226 *
21200000	0002 2173 SCAPMSG EQU X'02'	KEEP INFO. MESSAGES AT EQU (R4)	21740000	0029 2227 SCADS
21210000	0001 2174 SCAPMDE EQU X'01'	COMMAND LANGUAGE IS ENGLISH	21750000	002B 2228 SCADS
21220000	2175 *		21760000	002D 2229 SCADS
21230000	0014 2176 SCADCFG3 EQU SCADCFG2+1	1 COMMUNICATIONS FEATURES (R3)	21770000	2230 *

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ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT		ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	
01				01MISPR 01MISPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION	PAGE 7 V09/11/81 12/08/81 02:16	01				01MISPR 01MISPR - MAIN STORAGE IPL - COM	
02	01740000	0007	227	ACEPARM2 EQU ACEPARM1+1	SECOND IN-LINE PARM	02280000				280 *	
	01750000	0008	228	ACEPARM3 EQU ACEPARM2+1	THIRD IN-LINE PARM	02290000				281 *	
	01760000	0009	229	ACETYPE EQU ACEPARM3+1	TYPE OF ACE (CTRL OR MAIN STORAGE)	02300000				282 *	
	01770000	0080	230	ACEISCL EQU X'80'	INDICATOR FOR MAIN STORAGE ACE	02310000					
	01780000	0000	231	ACECSCL EQU X'00'	INDICATOR FOR CONTROL STORE ACE	02320000					
	01790000	0040	232	ACEPRIV EQU X'40'	INDICATOR FOR PRIVILEGED ACE	02330000				0001	284 WDR
	01800000	0020	233	ACEIOCHN EQU X'20'	CHAINED IOB INDICATOR	02340000					
	01810000	0010	234	ACELOG EQU X'10'	INDICATOR FOR SYSLOG CALLED	02350000					
	01820000	0010	235	ACECPERR EQU X'10'	INDICATOR FOR ASYNC ERROR ACE.	02360000				0000	286 WDR
	01830000	0008	236	ACEPMAT EQU X'08'	MULTIPLE WAIT INDICATOR	02370000				0001	287 WDR
	01840000	0008	237	ACEINUSE EQU X'08'	WS ACE IN USE.	02380000				0002	288 WDR
	01850000	238 *		NOTE: THE FOLLOWING EQUATE MUST BE THE SAME AS QXLOFF IN SVEQU		02390000				0006	289 WDR
		0004	239	ACEXLOFF EQU X'04'	INDICATOR FOR IOB IS IN REAL STORAGE	02400000				0008	290 WDR
	01870000	0001	240	ACEQUIES EQU X'01'	INCREMENT QUIESCE COUNTER VALUE	02410000				0011	291 WDR
	01880000	00FE	241	ACEPMASK EQU X'FE'	MASK TO TURN OFF ALL EXCEPT QUIESCE	02420000				0014	292 WDR
	01890000	0008	242	ACEXR1 EQU ACETYPE+2	CALLERS XR1 VALUE	02430000				0018	293 WDR
	01900000	0000	243	ACEXR2 EQU ACEXR1+2	CALLERS XR2 VALUE	02440000				0024	294 WDR
	01910000	000F	244	ACECTCB EQU ACEXR2+2	TCB ADDRESS	02450000				0028	295 WDR
	01920000	0010	245	ACELEN EQU ACECTCB+1	LENGTH OF ACE	02460000				0032	296 WDR
		246 ***		END OF EXPANSION **		02470000				0034	297 WDR
	01940000	247 *		CPWRK		02480000				0038	298 WDR
	01950000	248 *		DATE LAST CHANGED - 02/12/81 K.S.EIKENHORST DEPT47E *		02490000				0040	299 WDR
	01960000	249		*****		02500000				0044	300 WDRS
	01970000	250 *				02510000				0045	301 WDR
	01980000	251 *		COMMAND PROCESSOR WORKAREA *		02520000				0046	302 WDR
	01990000	252 *				02530000				0048	303 WDR
	02000000	253		*****		02540000				0050	304 WDR
	02010000	254		*****		02550000				0051	305 WDR
	02020000	255 *				02560000				0052	306 WDR
	02030000	256 *		1. THE COMMAND PROCESSOR WORKAREA IS A NUCLEUS RESIDENT *		02570000				0056	307 WDRS
	02040000	257 *		WORKAREA (256 BYTES) WHICH CAN ONLY BE USED BY CP XIENTS. *		02580000				0080	308 WDR
	02050000	258 *				02590000				0084	309 WDR
	02060000	259 *		2. THE WORKAREA CAN BE USED IN ANY MANNER DESIRED BY THE COMMAND *		02600000					
	02070000	260 *		PROCESSOR XIENTS. USE OF THE WORKAREA SHOULD FOLLOW RECOMMENDED *		02610000					
		261 *		AND EXPECTED USE (SEE BELOW) WHERE POSSIBLE. *		02620000					
	02090000	262 *				02630000				0002	311 WDR
	02100000	263 *		3. THE TOTAL WORKAREA CAN BE USED AS LONG AS ANY INPUT THAT *		02640000					
	02110000	264 *		REQUIRES LOGGING HAS BEEN LOGGED (*MDCU CALLED) AND THE STATIC *		02650000				0080	313 WDRS
	02120000	265 *		PORTION OF THE WORKAREA IS SAVED AND RESTORED *		02660000				0040	314 WDR
	02130000	266 *				02670000				0040	315 WDR
	02140000	267		*****		02680000				0020	316 WDR
	02150000									0020	317 WDR
	02160000	0000	269	CPWRK EQU 0	START OF WORK AREA	02700000				0010	318 WDR
	02170000	00FF	270	CPWRKEND EQU 255	END OF WORK AREA	02710000				0008	319 WDR
	02180000	272		***** USM PARAMETER LIST AREA *****		02730000				0008	320 WDR
	02190000	273 *		RECOMMENDED * THIS PART OF THE WORKAREA IS USED TO DO WORKSTN I/O *		02740000				0006	321 WDR
	02200000	274 *		USE * AND INTERFACE WITH WORKSTN DATA MANAGEMENT. *		02750000				0004	322 WDR
	02210000	275		*****		02760000				0002	324 WDRS
	02220000									0001	325 WDR
	02230000	277 *		USPL USM PARAMETER LIST EQUATES		02780000					326 *
	02240000										
	02250000										
	02260000										
	02270000	279 *				02800000				0003	328 WDR

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21590000	2209 *	THE FOLLOWING FIELDS DESCRIBE THE DISK ADDRESS (SS) AND	22100000	2262 *
21570000	2210 *	SIZE (SECTORS) OF VARIOUS WORK AREAS ON THE DISK. WHERE	22110000	0053 2263 SCAD
21580000	2211 *	POSSIBLE THE SS HAS BEEN DEFINED AS A 2 BYTE FIELD. THESE	22120000	2264 *
21590000	2212 *	FIELDS ARE ORDER DEPENDENT AND DESCRIBE A ONE-TO-ONE	22130000	0055 2265 SCAD
21600000	2213 *	RELATIONSHIP WITH THE SYSTEM CONFIGURATION RECORD, PART-1.	22140000	2266 *
21610000	2214 *		22150000	0057 2267 SCAD
21620000	001A 2215 SCASSTNA EQU	SCADCPTR*2 2 SS OF TASK WORK AREA	22160000	0059 2268 SCAD
21630000	001C 2216 SCATWSZ EQU	SCASSTAP*2 2 SIZE OF TASK WORK AREA	22170000	0059 2269 SCAT
21640000	2217 *		22180000	2270 *
21650000	001E 2218 SCAFTVOC EQU	SCATVMSZ*2 2 SECTOR ADDRESS OF DISK VTOC	22190000	005A 2271 SCAD
21660000	0020 2219 SCAFTVON EQU	SCAFTVOC*2 2 SIZE OF DISK VTOC	22200000	00E0 2272 SCAP
21670000	2220 *		22210000	0010 2273 SCAP
21680000	0022 2221 SCAIVTOC EQU	SCAFTVON*2 2 SS OF DISKETTE VTOC WORK AREA	22220000	2274 *
21690000	0023 2222 SCAIVTON EQU	SCAIVTOC*1 1 SIZE OF DISKETTE VTOC WORK AREA	22230000	0058 2275 SCAS
21700000	2223 *		22240000	0080 2276 SCAP
21710000	0025 2224 SCASIOSS EQU	SCAIVTON*2 2 SS OF SIO TABLE DIRECTORY	22250000	0040 2277 SCAP
21720000	0027 2225 SCALOGSS EQU	SCASIOSS*2 2 SS OF ERROR TABLE DIRECTORY	22260000	0020 2278 SCAD
21730000	2226 *		22270000	0010 2279 SCAP
21740000	0029 2227 SCADSSIS EQU	SCALOGSS*2 2 SS OF MAIN STORAGE DUMP AREA	22280000	0008 2280 SCAP
21750000	0028 2228 SCADSSCS EQU	SCADSSIS*2 2 SS OF CONTROL STORAGE DUMP AREA	22290000	0004 2281 SCAP
21760000	0020 2229 SCADSSIO EQU	SCADSSCS*2 2 SS OF I/O PROCESSOR DUMP AREA	22300000	0002 2282 SCAP
21770000	2230 *		22310000	0001 2283 SCAP
				2284 *

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ERR LOC	OBJECT CODE	ADDR	SYMT	SOURCE	STATEMENT	
02280000	02	280 *			PARAMETER LIST EQUATES FOR	02810000
02290000		281 *			SYSTEM REQUESTS TO WORK STATION DATA MANAGEMENT	02820000
02300000		282 *				02830000
02310000	03					0001 330 WDR
02320000						0002 331 WDR
02330000						0003 332 WDR
02340000	04	0001 284	WDRTC	EQU	0+1 EXTERNAL RETURN CODE	02850000
02350000						0004 333 WDR
02360000						0005 334 WDR
02370000	05	0000 286	WDRCK	EQU	X'00' OPERATION SUCCESSFUL	02870000
02380000		0001 287	WDRACC	EQU	X'01' ACCEPT SUCCESSFUL TO REQUESTOR	02880000
02390000		0002 288	WDRSTP	EQU	X'02' STOP REQUESTED BY SYSTEM OPERATR	02890000
02400000	06	0006 289	WDRSTD	EQU	X'06' STOP REQUESTED WITH DATA AVAIL.	02900000
02410000		0008 290	WDRADD	EQU	X'08' ACQUIRE OK TO OWNED TERMINAL	02910000
02420000		0011 291	WDRACR	EQU	X'11' ACCEPT REJECTED- NO INVITES	02920000
02430000	07	0014 292	WDRKBD	EQU	X'14' INPUT REJECTED-KEYBOARD DISABLED	02930000
02440000		0018 293	WDRAFW	EQU	X'18' ACQUIRE FAILED TEMPORARILY	02940000
02450000		0024 294	WDRANW	EQU	X'24' WORK STATION RELEASED HIMSELF	02950000
02460000	08	0028 295	WDRREL	EQU	X'28' RELEASE OF SRT REQUESTOR-REJECT	02960000
02470000		0032 296	WDRAFS	EQU	X'32' ACQUIRE FAILED-SECURITY	02970000
02480000		0034 297	WDRIRJ	EQU	X'34' INPUT REJECTED-BUFFER TOO SMALL	02980000
02490000	09	0038 298	WDRAFN	EQU	X'38' ACQUIRE FAILED-NON-WAITABLE	02990000
02500000		0040 299	WDRDFL	EQU	X'40' WORK STATION OFFLINE	03000000
02510000		0044 300	WDRSPF	EQU	X'44' STOP INVITE FAILED-DATA AVAIL.	03010000
02520000	10	0045 301	WDRPGE	EQU	X'45' INVALID GJTI DURING PRINT OP.	03020000
02530000		0046 302	WDRPUN	EQU	X'46' PRINT ISSUED FROM UNLOCKED KBD.	03030000
02540000		0048 303	WDRPAL	EQU	X'48' PRINTER ALLOCATED ON PRINT OP	03040000
02550000	11	0050 304	WDRGRF	EQU	X'50' 2 OPT TAKEN ON GJI RAM FULL COND	03050000
02560000		0051 305	WDRGI	EQU	X'51' 2 OPT TAKEN ON INVALID GJI CODE	03060000
02570000		0052 306	WDRGU	EQU	X'52' 2 OPT TAKEN ON UNDEF. GJI CODE	03070000
02580000	12	0056 307	WDRSCJ	EQU	X'56' READ SCREEN CMD REJECT. GJI	03080000
02590000		0080 308	WDRPE	EQU	X'80' PERMANENT I/O ERROR OCCURRED	03090000
02600000		0084 309	WDRPEP	EQU	X'84' PERM. I/O ERROR ON PUT-NO-WAIT	03100000
02610000	13					0042 360 WDRP
02620000						0022 361 WDRP
02630000		0002 311	WDRPM	EQU	WDRTC*1 EXTERNAL OP-CODE MODIFIER	03120000
02640000	14					0017 363 WDRP
02650000						0013 364 WDRP
02660000		0080 313	WDRSYS	EQU	X'80' SYSTEM REQUEST	03140000
02670000	15	0040 314	WDRWR	EQU	X'40' OVERRIDE REQUEST	03150000
02680000		0040 315	WDRFHD	EQU	X'40' FUNCTION MANAGEMENT HEADER	03160000
02700000	16	0020 316	WDRDL	EQU	X'20' ROLL REQUEST	03170000
02710000		0020 317	WDRPH	EQU	X'20' PASS THRU MODIFIER	03180000
02720000		0010 318	WDRNF	EQU	X'10' UNFORMATTED REQUEST	03190000
02730000	17	0008 319	WDRPT	EQU	X'08' PRINT REQUEST	03200000
4.2740000		0008 320	WDRDGN	EQU	X'08' READ SCREEN MODIFIER	03210000
02750000		0006 321	WDRATER	EQU	X'06' WRITE ERROR OPERATION	03220000
02760000	18	0004 322	WDRSWE	EQU	X'04' SWE REQUEST	03230000
02770000		0004 323	WDRMID	EQU	X'04' READ MODIFIED IMMEDIATE	03240000
02780000	19	0002 324	WDRSTR	EQU	X'02' RESTORE REQUEST	03250000
		0001 325	WDRPLF	EQU	X'01' PUT FOR READ UNDER FORMAT	03260000
		326 *				03270000
02800000	20	0003 328	WDRPC	EQU	WDRPM*1 EXTERNAL OP-CODE	03290000
						0008 378 WDRP
						00FF 379 WDRP
						0008 380 WDRP

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22630000	2316 *				23170000	2370 *
22640000	0068 2317 SCADKLR EQU SCADKLR+4	4	DISKETTE VOLUME LRC CHARACTERS		23180000	2371 *
22650000	2318 *			23190000	007A 2372 S	
22660000	0060 2319 SCAPLAK EQU SCADCTUT	.	IPL WORK AREA (START)	23200000	2373 *	
22670000	0068 2320 SCAPLUT EQU SCADKLR	.	IPL WORK AREA (END)	23210000	007B 2374 S	
22680000	2321 *			23220000	007D 2375 S	
22690000	0060 2322 SCADMTUB EQU SCADKLR+2	2	MASTER CONSOLE TUB ADDRESS	23230000	007E 2376 S	
22700000	006F 2323 SCADPTUB EQU SCADPTUB+2	2	SYSTEM PRINTER TUB ADDRESS	23240000	007F 2377 S	
22710000	2324 *			23250000	0080 2378 S	
22720000	2325 *	COMMAND PROCESSOR	DISPLACEMENTS AND BIT MASKS	23260000	0082 2379 S	
22730000	2326 *			23270000	2380 *	
22740000	0070 2327 SCADCP51 EQU SCADPTUB+1	1	SWITCH BYTE ONE	23280000	0084 2381 S	
22750000	0080 2328 SCADCP1 EQU X'80'	.	STOP COMPLETE MESSAGE SENT	23290000	2382 *	
22760000	0040 2329 SCAPALL EQU X'40'	.	NO JOBS CAN BE INITIATED	23300000	0085 2383 S	
22770000	0020 2330 SCAP5JE EQU X'20'	.	SPOOL WRITER/JOBQ EDJ REQUIRED	23310000	008A 2384 S	
22780000	0010 2331 SCAP5SE EQU X'10'	.	USDM SEND EDJ COMPLETION CODE	23320000	2385 *	
22790000	0008 2332 SCAP5ST EQU X'08'	.	SPOOL WRITER HAS BEEN STARTED	23330000	008B 2386 S	
22800000	0004 2333 SCAP5QS EQU X'04'	.	JOBQ HAS BEEN STARTED	23340000	2387 *	
22810000	0002 2334 SCAP5EC EQU X'02'	.	SECURITY IS ACTIVE	23350000	008C 2388 S	
22820000	0001 2335 SCAP5EP EQU X'01'	.	CALL I/O ERP TRANSIENT	23360000	008D 2389 S	
22830000	2336 *			23370000	0040 2390 S	
22840000	0071 2337 SCADCP52 EQU SCADCP51+1		SWITCH BYTE TWO	23380000	2391 *	
22850000	0080 2338 SCAPKEYS EQU X'80'	.	KEY SORT ALL FILES AT SHUT DOWN	23390000	0010 2392 S	

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ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	ERR LOC	OBJECT CODE	ADDR	STMT
02		0005	382	WDOUTL	EQU WDOPC+2	03830000	02	0019	430
		0005	383	WDEFFL	EQU WDOUTL	03840000		001A	431
03		0007	384	WDRECA	EQU WDEFFL+2	03850000	03	001C	432
		0009	385	WDTUB	EQU WDRECA+2	03860000		001D	433
		0008	386	WD960	EQU WDTUB+2	03870000		001F	434
		000C	387	WDAID	EQU WD960+1	03880000		0020	435
		000D	388	WDIOPC	EQU WDAID+1	03890000		0022	436
								0022	437
05		00FF	390	WDCPHLP	EQU X'FF'	03910000	05	0023	439
								0024	441
06		000D	392	WDSRCT	EQU WDIOPC	03930000	06		
								0001	443
07		00C1	394	WDSR01	EQU X'01'	03950000	07	0002	444
		0002	395	WDSR02	EQU X'02'	03960000		0003	445
		0003	396	WDSR03	EQU X'03'	03970000		0004	446
08		0008	397	WDSRCN	EQU X'08'	03980000	08	0005	447
		0009	398	WDSRCM	EQU X'09'	03990000		0006	448
		000A	399	WDSRCW	EQU X'0A'	04000000		0007	449
								0007	450
								0008	451
								0009	452
10		000E	401	WDRUPD	EQU WDIOPC+1	04020000	10	000A	453
								0008	454
								000C	455
11		0080	403	WDRUP	EQU X'80'	04040000	11	000D	456
		0040	404	WDRDN	EQU X'40'	04050000		000E	457
		0020	405	WDRCL	EQU X'20'	04060000		000F	458
								0010	459
12		000F	407	WDPLNE	EQU WDRUPD+1	04080000	12	0011	460
		0010	408	WDSLNE	EQU WDPLNE+1	04090000		0012	461
13		0011	409	WDELNE	EQU WDSLNE+1	04100000	13	0013	462
		0012	410	WDVSLN	EQU WDELNE+1	04110000		0014	463
		0014	411	WDIND0	EQU WDVSLN+2	04120000		464	
14		0016	412	WDFHTN	EQU WDIND0+2	04130000	14	0016	465
		0017	413	WDLLEN	EQU WDFHTN+1	04140000		0017	466
								0018	467
15		0016	415	CPUSDM	EQU CPUNK+WDLLEN-1	04150000	15	0019	468
								001A	469
								001B	470
16		417	***** MESSAGE RETRIEVE PARAMETER LIST *****			04180000	16	001C	471
		418	* RECOMMENDED * THIS PART OF THE WORKAREA IS USED TO INTERFACE *			04190000		001D	472
		419	* USE * WITH THE MESSAGE RETRIEVE FUNCTION. *			04200000		001E	473
		420	*****			04210000		001F	474
17		000F	422	CPHRTV	EQU 0+15	04230000	17	0020	475
								0021	476
								0022	477
18		424	***** COMMAND OPERAND TABLE *****			04250000	18	0023	478
		425	* EXPECTED * THIS PART OF THE WORKAREA CONTAINS A TABLE OF *			04260000		0024	479
		426	* USE * OPERAND ADDRESSES USED BY ALL COMMAND XIENTS. *			04270000		0025	480
		427	*****			04280000		0026	481
19		0017	429	CPDPLN1	EQU CPUSDM+1	04300000	19	0027	482
								0028	483

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0082 2379 SCANDPAB EQU SCANDPAB+2 2 CONTROL STORE ALLOCATE TABLE
0085 2383 SCANDSLY EQU SCANDSAB+1 1 12 SLOT NUMBER (HEX) IR31
008A 2384 SCANDSLOT EQU SCANDSLY+5 5 12 SLOT NUMBER DECIMAL IR31
008B 2386 SCANDQNT EQU SCANDSLOT+1 1 MESSAGE Q COUNT
008C 2388 SCANDCSP1 EQU SCANDQNT+1 1 CSP -----> MSP INTERFACE BYTE
008D 2389 SCAND1255 EQU X'80' . MICR ATTACHMENT ON SYSTEM IR21
0040 2390 SCANDMNR EQU X'40' . 12 DISKETTE ATTACHMENT IR31
2391 * EQU X'20' . RESERVED FOR ADDR COMPARE DUMP
0010 2392 SCANDCOV EQU X'10' . ERROR ON DUMP - PARTIAL DUMP TAKEN

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#MPCPR #MPCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION			
ERR LOC OBJECT CODE	ADDR	SYMT	SOURCE STATEMENT
0019	430	CPOPADR1 EQU	CPOPLN1+2 OPERAND 1 RIGHT-HAND ADDRESS
001A	431	CPOPLN2 EQU	CPOPADR1+1 OPERAND 2 LENGTH-1
001C	432	CPOPADR2 EQU	CPOPLN2+2 OPERAND 2 RIGHT-HAND ADDRESS
001D	433	CPOPLN3 EQU	CPOPADR2+1 OPERAND 3 LENGTH-1
001F	434	CPOPADR3 EQU	CPOPLN3+2 OPERAND 3 RIGHT-HAND ADDRESS
0020	435	CPOPLN4 EQU	CPOPADR3+1 OPERAND 4 LENGTH-1
0022	436	CPOPADR4 EQU	CPOPLN4+2 OPERAND 4 RIGHT-HAND ADDRESS
0022	437	CPOPS EQU	CPOPADR4 END OF OPERAND ENTRIES
0023	439	CPOPCNT EQU	CPOPADR4+1 NUMBER OF COMMAND OPERANDS
0024	441	CPCODE EQU	CPOPCNT+1 COMMAND ROUTING CODE
0001	443	MENU EQU	X'01' . MENU COMMAND CODE
0002	444	MSG EQU	X'02' . MSG COMMAND CODE
0003	445	PRTY EQU	X'03' . PRTY COMMAND CODE
0004	446	OFF EQU	X'04' . OFF COMMAND CODE
0005	447	OFFMENU EQU	X'05' . CANCEL MENU FUNCTION
0006	448	BLDJCB EQU	X'06' . BUILD JCB REQUEST
0007	449	SPECIAL EQU	X'07' . AID BYTE FUNCTION REQUEST
0007	450	KEYREQ EQU	X'07' . AID BYTE FUNCTION REQUEST
0008	451	RSTREQ EQU	X'08' . RESTORE SCREEN REQUEST
0009	452	MODE EQU	X'09' . MODE COMMAND CODE
000A	453	CNRS EQU	X'0A' . CONSOLE COMMAND CODE
000B	454	CNCLINQ EQU	X'0B' . CANCEL FROM INQUIRY MENU
000C	455	TIME EQU	X'0C' . TIME COMMAND
000D	456	JOBQIN EQU	X'0D' . INPUT JOBQ INITIATION CALL
000E	457	FND EQU	X'0E' . FIND COMMAND CODE
000F	458	STATEND EQU	X'0F' . END AND DEQUEUE STATUS
0010	459	SGNPL EQU	X'10' . SIGNON CALL FROM IPL
0011	460	STRTPRT EQU	X'11' . START PRT CALL FROM START SYSTEM
0012	461	AUTOSTAT EQU	X'12' . AUTOMATIC UPDATE STATUS CALL
0013	462	STOPDONE EQU	X'13' . STOP SYSTEM HAS COMPLETED
0014	463	ERROFF EQU	X'14' . SIGN OFF DUE TO I/O ERROR
464 *			X'15' . UNUSED
0016	465	ERRCNCL EQU	X'16' . I/O ERROR CONSOLE REBUILD REQUEST
0017	466	ERRCNCL EQU	X'17' . I/O ERROR CANCEL REQUEST
0018	467	ERRRESM EQU	X'18' . I/O ERROR INQUIRY RESUME REQUEST
0019	468	TIMESTAT EQU	X'19' . TIMER STATUS REQUEST (DEVELOPMENT)
001A	469	INDOPT1 EQU	X'1A' . INQUIRY OPTION ONE REQUEST
001B	470	SETDUMP EQU	X'1B' . SETDUMP COMMAND CODE
001C	471	ACDPG EQU	X'1C' . DISPLAY ADDRESS COMPARE DUMP MSG
001D	472	CNCLSVL EQU	X'1D' . CANCEL SVC CODE
001E	473	ACDERR EQU	X'1E' . ADDR COMPARE DUMP ERRS TO CONSOLE
001F	474	ACDRESUM EQU	X'1F' . ADDR COMPARE DUMP AUTO RESUME
0020	475	ACDEND EQU	X'20' . END ADDRESS COMPARE DUMP
0021	476	ACDUPOTE EQU	X'21' . UPDATE ADDRESS COMPARE DUMP
0022	477	CLIMENU EQU	X'22' . END THE MENU, BUT NO I/O
0023	478	IDDELETE EQU	X'23' . IDDELETE COMMAND CODE
0024	479	OFFOCL EQU	X'24' . OFF OCL STATEMENT
0025	480	CPIQCALL EQU	X'25' . CPIQ CALL
0026	481	CPONCALL EQU	X'26' . CPON CALL
0027	482	CPCICALL EQU	X'27' . CPCICALL
0028	483	STOPJOB EQU	X'28' . CALL TO AUTOMATICALLY STOP JOB, ALL

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SPL/3 VERSION 08/28/80	PAGE 60	TIME 02:15	DATE 81/12/80	
IF DO	LINE	SOURCE	IF DO	LINE
	3246	TUENSE2 EQU TUENSE1+1 SENSE BYTE 2		3301
	3247	SPACE		3302
	3248 *	EQU X'80' . DEVICE HUNG BUSY		3303
	3249 *	EQU X'40' . LINE PARITY CHECK		3304
	3250 *	EQU X'20' . UNIT NOT AVAILABLE (PRINTER ONLY)		3305
	3251 *	EQU X'10' . OUTSTANDING STATUS		3306
	3252 *	EXCEPTION STATUS EQUATES START		3307
	3253 *	EQU X'0E' . NO STATUS (ALL BITS OFF)		3308
	3254 *	EQU X'02' . NULL OR ATTRIBUTE ERROR		3309
	3255 *	EQU X'04' . INVALID ACTIVATE		3310
	3256 *	EQU X'01' . UNEXPECTED		3311

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ADDRESS	23800000
00000000	23810000
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(R3)	23840000
(R3)	23850000
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00000000	23870000
00000000	23880000
00000000	23890000
00000000	23900000
(R3)	23910000
00000000	23920000
00000000	23930000

0040 2433 SCANLIN2 EQU X'08'	. COMMUNICATIONS ON LINE 2	(R3)	24370000
0020 2434 SCANLIN3 EQU X'10'	. COMMUNICATIONS ON LINE 3	(R6)	24380000
0010 2435 SCANLIN4 EQU X'10'	. COMMUNICATIONS ON LINE 4	(R6)	24390000
2436 *			24370000
0008 2437 SCANLIN1 EQU X'08'	. AUTO CALL ON LINE 1	(R6)	24380000
0004 2438 SCANLIN2 EQU X'04'	. AUTO CALL ON LINE 2	(R6)	24390000
0002 2439 SCANLIN3 EQU X'02'	. AUTO CALL ON LINE 3	(R6)	24400000
0001 2440 SCANLIN4 EQU X'01'	. AUTO CALL ON LINE 4	(R6)	24410000
2441 *			24420000
0008 2442 SCANLIN1 EQU X'08'	. X.21 ON LINE 1	(R6)	24430000
0044 2443 SCANLIN2 EQU X'44'	. X.21 ON LINE 2	(R6)	24440000
0022 2444 SCANLIN3 EQU X'22'	. X.21 ON LINE 3	(R6)	24450000
0011 2445 SCANLIN4 EQU X'11'	. X.21 ON LINE 4	(R6)	24460000
2446 *			24470000

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ADDRESS	04310000		
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04510000	04520000		
04530000	04540000		
04550000	04560000		
04570000	04580000		
04590000	04600000		
SYSTEM	04610000		
ALL	04620000		
04630000	04640000		
04650000	04660000		
REQUEST	04670000		
REQUEST	04680000		
(DEVELOPMENT)	04690000		
IT	04700000		
04710000	04720000		
DUMP MSG	04730000		
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CONSOLE	04760000		
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05690000	05700000		
05710000	05720000		
05730000	05740000		
05750000	05760000		
05770000	05780000		
05790000	05800000		
05810000	05820000		
05830000	05840000		
05850000	05860000		
05870000	05880000		
05890000	05900000		
05910000	05920000		
05930000	05940000		
05950000	05960000		
05970000	05980000		
05990000	06000000		

MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION				PAGE 12	V09/11/81	12/08/81	02:16
ERR LOC	OBJECT CODE	ADDR	SYMT	SOURCE STATEMENT			
02		0029	484	WRT EQU X'29'	. WRITER COMMAND CODE	04850000	
		0001	485	JOBQ EQU C'J'	. JOBQ COMMAND CODE	04860000	
03		0004	486	STATUS EQU C'D'	. STATUS COMMAND CODE	04870000	
		0003	487	CANCEL EQU C'C'	. CANCEL COMMAND CODE	04880000	
		0005	488	VARY EQU C'V'	. VARY COMMAND CODE	04890000	
04		0009	489	REPLY EQU C'R'	. REPLY COMMAND CODE	04900000	
		0007	490	STOP EQU C'P'	. STOP COMMAND CODE	04910000	
		0002	491	START EQU C'S'	. START COMMAND CODE	04920000	
05		0003	492	RESTART EQU C'T'	. RESTART COMMAND CODE	04930000	
		0001	493	ASSIGN EQU C'A'	. ASSIGN COMMAND CODE	04940000	
		0007	494	CHANGE EQU C'G'	. CHANGE COMMAND CODE	04950000	
06		0008	495	HOLD EQU C'H'	. HOLD COMMAND CODE	04960000	
		0003	496	RELEASE EQU C'L'	. RELEASE COMMAND CODE	04970000	
07		498		***** MCMCU AND MPOC PARAMETER LIST *****		04990000	
		499	*	EXPECTED * THIS PART OF THE WORKAREA IS USED WHEN INTERFACING *		05000000	
		500	*	USE * WITH THE COMMAND PROCESSOR CLEANUP XIENTS *		05010000	
		501		*****		05020000	
08		0025	503	MCMCU EQU C'CODE+1	MCMCU PARAMETER LIST AREA	05040000	
		0025	504	MCMCUI EQU C'CODE	SWITCH BYTE	05050000	
09		0080	506	MCMCUIOUT EQU X'80'	. 0=NO OUTPUT TO BE DISPLAYED	05070000	
		507	*		. 1=OUTPUT PROMPT TO BE DISPLAYED	05080000	
10		0040	508	MCMCUIINP EQU X'40'	. 0=NO INPUT INFORMATION AVAILABLE	05090000	
		509	*		. 1=INPUT INFORMATION AVAILABLE	05100000	
11		0020	510	MCMCUIROL EQU X'20'	. 0=DO NOT ROLL SCREEN BEFORE	05110000	
		511	*		. 1=ROLL SCREEN SPECIFIED # OF LINES	05120000	
		0010	512	MCMCUILOG EQU X'10'	. 0=DO NOT LOG INPUT OR OUTPUT INFO	05130000	
		513	*		. 1=LOG INPUT AND/OR OUTPUT INFO	05140000	
12		0008	514	MCMCUIWS EQU X'08'	. 0=SHOW MESSAGE ONLY TO W.S.	05150000	
		515	*		. 1=SHOW MESSAGE TO SYSTEM CON ALSO	05160000	
13		0004	516	MCMCUIRL EQU X'04'	. 0=DO NOT INCLUDE INPUT LINE IN ROLL	05170000	
		517	*		. 1=INCLUDE INPUT LINE IN ROLL	05180000	
		0002	518	MCMCUI SUB EQU X'02'	. 0=NO MSG SUBSTITUTION	05190000	
		519	*		. 1=MSG SUBSTITUTION TO BE PERFORMED	05200000	
14		0001	520	MCMCUIBDC EQU X'01'	. 0=THIS IS NOT A BROADCAST	05210000	
		521	*		. 1=THIS IS A MSG BROADCAST	05220000	
15		0027	523	MCMCUI MIC EQU MCMCUI+2	MIC NUMBER TO BE LOGGED/DISPLAYED	05240000	
		0028	524	MCMCUI SW EQU MCMCUI+1	SWITCH BYTE 2	05250000	
16		0080	525	MCMCUI INV EQU X'80'	. 0=INVITE WORK STATION	05260000	
		526	*		. 1=DO NOT INVITE WORK STATION	05270000	
		0040	527	MCMCUI WSDM EQU X'40'	. 0=ISSUE WSDM OUTPUT	05280000	
		528	*		. 1=DO NOT ISSUE WSDM OUTPUT	05290000	
17		0020	529	MCMCUI CON EQU X'20'	. 0=DO NOT ROUTE ONLY TO CONSOLE	05300000	
		530	*		. 1=ROUTE OUTPUT ONLY TO CONSOLE	05310000	
		0010	531	MCMCUI STAT EQU X'10'	. 0=IGNORE THIS BIT IF OFF	05320000	
		532	*		. 1=IF MCMCUI INP IS ON THEN DO NOT	05330000	
		533	*		UPDATE STATUS, IF MCMCUI INP IS OFF	05340000	
		534	*		THEN UPDATE STATUS	05350000	
		535	*		. BITS 4 - 7 RESERVED	05360000	
19		0028	536	MCMCUI LEN EQU MCMCUI+2	LENGTH OF OUTPUT TO MPOC	05370000	
		002A	537	MCMCUI ADDR EQU MCMCUI+2	ADDRESS OF IN CORE MESSAGE TEXT	05380000	

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VERSION	08/28/80
IF DO	LINE
3301	* EQU X'04'
3302	TUBSNDW EQU X'05'
3303	* EQU X'06'
3304	TUBSNDK EQU X'06'
3305	TUBSNDOFF EQU X'07'
3306	* EQU X'08'
3307	* EQU X'09'
3308	SPACE
3309	* GROUP 4 - OPERATION CHECK ERRORS
3310	* ( REFERENCE TUBSENSD0 BIT4 )

SPL/3 VERSION 08/28/80				PAGE 61	TIME 02:15	DATE 81/12/08
IF DO	LINE	SOURCE				
	3301	* EQU X'04'	. PRINTER NEEDS INITIALIZATION			
	3302	TUBSNDW EQU X'05'	. NOT READY DUE TO OPERATOR ERROR MODE			
	3303	* EQU X'06'	OR SYS REQ MODE			
	3304	TUBSNDK EQU X'06'	. READ ISSUED TO UNLOCKED KEYBOARD ERROR			
	3305	TUBSNDOFF EQU X'07'	. WS IS POWERED OFF			
	3306	* EQU X'08'	. RESERVED			
	3307	* EQU X'09'	. SAME OR RESTORE ERROR			
	3308	SPACE				
	3309	* GROUP 4 - OPERATION CHECK ERRORS				
	3310	* ( REFERENCE TUBSENSD0 BIT4 )				

VERSION	08/28/80
IF DO	LINE
3356	
3357	
3358	
3359	
3360	
3361	
3362	
3363	
3364	
3365	
3366	



24880000		00BF 2542 SCADRSPC EQU SCADRSPC+0 0 RESERVED	2541 *	25420000		0002 2595 SCAD
24890000	16		2543 *	25430000		0001 2596 SCAD
24900000				25440000		2597 *
24910000		00C0 2544 SCADCP54 EQU SCADRSPC+1 1 COMMAND PROCESSOR SWITCH 4 (R6)		25450000		00C6 2598 SCAD
24920000		00B0 2545 SCANWLD EQU X'80' . VERY HIGH LEVEL DEDICATION		25460000		2599 *
24930000	17		2546 * EQU X'40' . RESERVED	25470000		00CE 2600 SCAD
24940000			2547 * EQU X'20' . RESERVED	25480000		2601 *
24950000			2548 * EQU X'10' . RESERVED	25490000		00D6 2602 SCAD
24960000	18		2549 * EQU X'08' . RESERVED	25500000		00D5 2603 SCAD
24970000			2550 * EQU X'04' . RESERVED	25510000		00D3 2604 SCAD
24980000			2551 * EQU X'02' . RESERVED	25520000		00D1 2605 SCAD
24990000	19		2552 * EQU X'01' . RESERVED	25530000		00CF 2606 SCAD
25000000			2553 *	25540000		2607 *
25010000	20	00C2 2554 SCADRMTD EQU SCADCP54+2 2 EXT. ADDRESS MAPPING (EXAM) (R6)		25550000		2608 *

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DATE 12/08/81 02:16		MPCPR MPCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION				PAGE 14 009/11/81 12/08/81 02:16		MPCPR MPCPR - MAIN STORAGE IPL - CO	
ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT		ERR LOC	OBJECT CODE	ADDR	STMT SC
05390000	02	00B0	592	CPWSDMIN EQU CPFIRER+1	START OF INPUT AREA	05930000	001F	646	CK
05400000						05940000	0020	647	CK
05410000	03	00B0	594	CPINPDTA EQU CPWSDMIN	INPUT FIELD 1 START	05950000	648 *		
05430000		00F7	595	CPINPOTE EQU CPINPDTA+119	INPUT FIELD 1 END	05960000	649 **		
05440000		00FA	596	CPINPSTD EQU CPINPOTE+3	INPUT FIELD 2 - STATUS COMMAND	05970000	650 *		
05450000	04	00F8	597	CPINPEND EQU CPINPDTA+120	COMMAND DATA END + 1	05980000	651 **		
05460000		00FA	598	CPSTATB EQU CPINPSTD	STATUS QUEUE ELEMENT ADDRESS	05990000	652 **		
05480000	05	600		***** STATIC PORTION OF CPWR *****		06010000	653 **		
05490000		601 *		EXPECTED * THIS PART OF THE WORKAREA IS USED TO CONTAIN *		06020000	654 **		
05510000	06	602 *		USE * INFORMATION THAT MUST BE RETAINED. *		06030000	655 **		
05520000		603		*****		06040000			
05530000	07	00FC	605	CPTUB EQU CPINPSTD+2	TUB ADDRESS	06050000	657 **		
05540000		00FE	606	CPBTCB EQU CPTUB+7	TCB ADDRESS	06060000	658 *		
05550000		00FF	607	CPRSV EQU CPBTCB+1	RESERVED	06070000	659 *		
05560000		608		*** END OF EXPANSION **		06080000	660 *		
05570000	08	609 *		CXNT		06090000	661 *		
05580000		610		** CONTROL STORAGE TRANSIENT NUMBERS **		06100000	662 *		
05590000	09	0000	612	CXSSN EQU 0	TRANSIENT #1 BY SSN	06110000	663 *		
05600000		0001	613	CXNULX EQU 1	MAIN STORAGE RLD PROCESSOR	06120000	664 *		
05610000		0002	614	CXNULB EQU 2	ABNORMAL TAPE TERMINATION	06130000	665 *		
05620000	10	0003	615	CLLOAD EQU 3	IL2 = 00 CONTROL STORAGE LOADER	06140000	666 *		
05630000		0000	616	IL2LOAD EQU 0	IN-LINE PARM 2 IS 0 FOR LOADER FUNC.	06150000	667 *		
05640000		0003	617	CXASGB EQU 3	IL2 = 01 ASSIGN FROM BACK OF ASSIGN/FRE	06160000	668 *		
05650000		0001	618	IL2ASGB EQU 1	IN-LINE PARM 2 IS 1 FOR ASGB FUNC	06170000	669 *		
05660000	11	0004	619	CXIDERP EQU 4	DISKETTE ERPS	06180000	670 *		
05670000		0005	620	CXPSIPL EQU 5	PSEUDO CONTROL STORAGE IPL	06190000	671 *		
05680000		0006	621	CXSPCK2 EQU 6	MSP PROC CHECK ERROR HANDLER # 2	06200000	672 *		
05690000	12	0007	622	CXFAL3 EQU 7	ALTERNATE SECTOR ASSIGNMENT # 3	06210000	673 *		
05700000		0008	623	CXNAMEID EQU 8	W/S ERP XIENT	06220000	674 *		
05710000	13	0009	624	CXTIX1 EQU 9	INTERVAL TIMER # 1	06230000	675 *		
05720000		000A	625	CXTIX EQU 10	INTERVAL TIMER MASTER	06240000	676 *		
05730000		000B	626	CXNUTEID EQU 11	5211 PRINTER ERP XIENT	06250000	677 *		
05740000	14	000C	627	CXNUBEID EQU 12	5256 PRINTER ERP XIENT	06260000	678 *		
05750000		000D	628	CXNULID EQU 13	CTL PROCESSOR LOGGING XIENT	06270000	679 *		
05760000		000E	629	CXTRACE EQU 14	SET TRACE INDICATORS	06280000	680 **		
05770000	15	000F	630	CXNULID EQU 15	DATA COMM BSCA LOGGING XIENT	06290000	682 **		
05780000		0010	631	CXNUSLID EQU 16	DATA COMM SDLC LOGGING XIENT	06300000	683 *		
05800000		0011	632	CXNUGLID EQU 17	I/O -- ERROR COUNTER LOGGING XIENT	06310000	684 *		
05810000	16	0012	633	CXADINTP EQU 18	A/D INITIALIZE ROUTINE	06320000	685 *		
05820000		0013	634	CXFDERP EQU 19	FDIOS ERROR RECOVERY	06330000	686 **		
05830000		0014	635	CXCONPMT EQU 20	CONCURRENT MAINTENANCE	06340000	0000	687 D18	
05850000	17	0015	636	CXNUPD EQU 21	PRINTER/DISPLAY ERROR ROUTER	06350000	0001	688 D18	
05860000		0016	637	CXPRE EQU 22	1255 ERROR TRANSIENT	06360000	0002	689 D18	
05880000	18	0017	638	CXNULOE EQU 23	I/O ERROR TRANSIENT	06370000	0003	690 D18	
05890000		0018	639	CXNULID EQU 24	REMOTE W/S LOGGING XIENT	06380000	0004	691 D18	
05900000		0019	640	CXACDUMP EQU 25	SET ADDR. COMP. REGISTERS XIENT	06390000	0005	692 D18	
05910000	19	001A	641	CXNUSPF EQU 26	SYSTEM MEASURE FACILITY XIENT	06400000	0006	693 D18	
		001B	642	CXNULOE EQU 27	3262 PRINTER ERP XIENT	06410000	0007	694 D18	
		001C	643	CXPRALD EQU 28	1255 TRANSIENT #2	06420000	695 *		
		001D	644	CXNUGETP EQU 29	NON-SWAPPABLE GET PAGE XIENT	06430000	0000	696 D18	
	20	001E	645	CXNULOE EQU 30	FAST MATRIX PRINTER ERP XIENT	06440000	0004	697 D18	
						06450000	698 *		

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DATE 81/12/08		SPL/3 VERSION 08/28/80				PAGE 63 TIME 02:15		DATE 81/12/08	
IF DO	LINE	SOURCE				IF DO	LINE	SOURCE	
	3411 *	00CX - CONSOLE MODE	*	0101 - DATA MODE	*		3466	TUBRDTA EQU	X'08'
	3412 *	0110 - COMMAND MODE	*	0111 - INTERRUPT MODE	*		3467	TUBRDLK EQU	X'04'
	3413	*****					3468	TUBRPNL EQU	X'02'
	3414	TUBRSTBY EQU	X'80'			3469	TUBRDLK EQU	X'01'	
	3415	TUBRCONS EQU	X'40'			3470		SPACE	
	3416	TUBRWNSTN EQU	X'40'			3471	TUBRCSAV EQU	TUBAT	
	3417	TUBRCPND EQU	X'20'			3472	TUBRPRNT EQU	TUBCT	
	3418	TUBRDATA EQU	X'10'			3473	TUBRSGCT EQU	TUBAP	
	3419	TUBRDMPE EQU	X'70'			3474	TUBRSGRT EQU	X'80'	
	3420	TUBRDMIT EQU	X'30'			3475	TUBRSGRZ EQU	X'40'	
						3476	TUBRSPCL EQU		

25430000	0002 2595 SCADNRSF EQU X'02'	SPOOL FILE ACCESS	IR51	25960000	0002 26
25440000	0001 2596 SCADNRSF EQU X'01'	EXTENDED DISK DATA MAN.	IR61	25970000	0003 26
25450000	2597 *			25980000	0004 26
25460000	0006 2598 SCADNCSB EQU SCADCFG6+2	2 ICS COMMUNICATION AREA ADDR	IR41	25990000	0005 26
25470000	2599 *			26000000	0006 26
25480000	000E 2600 SCADRFR EQU SCADNCSB+8	8 RESERVED		26010000	0007 26
25490000	2601 *			26020000	0008 26
25500000	0006 2602 SCADUCFG EQU SCADRFR+8	8 UDT COMM CONFIGURATION	IR31	26030000	0009 26
25510000	0005 2603 SCADUDT1 EQU SCADUCFG-1	LINE 1 CONFIGURATION (BYTE 0)	IR31	26040000	000A 26
25520000	0003 2604 SCADUDT2 EQU SCADUCFG-3	LINE 2 CONFIGURATION (BYTE 0)	IR31	26050000	000B 26
25530000	0001 2605 SCADUDT3 EQU SCADUCFG-5	LINE 3 CONFIGURATION (BYTE 0)	IR61	26060000	000C 26
25540000	00CF 2606 SCADUDT4 EQU SCADUCFG-7	LINE 4 CONFIGURATION (BYTE 0)	IR61	26070000	000D 26
25550000	2607 *	NOTE ----->	SEE COMPRESSED UNIT DEFINITION TABLE (UDT)	26080000	000E 26
25560000	2608 *		DESCRIPTION FOR DEFINITION OF BITS	26090000	000F 26

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ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	ERR LOC	OBJECT CODE	ADDR
05930000	02	001F	646	CXNXLID EQU 31	AUTOCALL LOGGING XIENT	06470000		
		0020	647	CXNXLID EQU 32	X.21 LOGGING XIENT 8	06480000		
05950000	03	648 *				06490000		
05960000		649 ***		END OF EXPANSION **		06500000		0008
05970000		650 *		DRCT1		06510000		0009
05980000		651		*****		06520000		000A
05990000		652		*****		06530000		000B
		653 **		DIRECT STORAGE AREAS USED PRIMARILY BY THE CTRL STG NUCLEUS **		06540000		000C
06010000		654		*****		06550000		000D
06020000		655		*****		06560000		
06030000								
06040000								
06060000		657		*****		06580000		
06070000		658 *		NOTE: THE LABELING OF ITEMS AS 'CONSTANT', OR 'NON-CONSTANT IS		06590000		000E
06080000		659 *		EXACT AND MEANINGFUL. THAT IS, ITEMS IDENTIFIED AS 'CONSTANT'		06600000		
06090000		660 *		ARE EITHER INITIALIZED AT ASSEMBLY TIME OR ELSE FILLED IN AT		06610000		
06100000		661 *		IPL TIME AND ARE NOT MODIFIED BY ANY OTHER FUNCTION.		06620000		
06110000		662 *		ITEMS, IDENTIFIED AS 'NON-CONSTANT' MAY BE MODIFIED BY CTRL		06630000		
06120000		663 *		STG NUCLEUS FUNCTIONS OR I/O FUNCTIONS.		06640000		0080
06130000		664 *				06650000		
06140000		665 *		NOTE: THERE IS A 'TRADE-OFF' THAT CAN BE MADE AS TO WHERE TO PLACE		06660000		
06150000		666 *		A FULL WORD CONSTANT THAT IS REFERENCED ONLY ONCE:		06670000		000F
06160000		667 *				06680000		
06170000		668 *		1 CONSTANT CAN BE PLACED IN DIRECT AREA AND REFERENCED		06690000		
06180000		669 *		WITH A 'L' INST - THUS REQUIRING 2 CTRL STG WORDS TOTAL		06700000		
06190000		670 *				06710000		
06200000		671 *		2 CONSTANT CAN BE PLACED IN REG BY 2 IN-LINE 'LI' INSTS		06720000		0010
06210000		672 *		WHICH HAVE THE LEFT AND RIGHT BYTES OF THE CONSTANT		06730000		0010
06220000		673 *		EMBEDDED IN THEM - THUS REQUIRING 2 CTRL STG WORDS TOTAL		06740000		
06230000		674 *				06750000		
06240000		675 *		THE STRATEGY FOLLOWED IS TO ALWAYS USE ALTERNATIVE 1 (UNTIL		06760000		
06250000		676 *		DIRECT AREA IS EXCEEDED) SINCE THIS CONSIDERABLY SIMPLIFIES		06770000		
06260000		677 *		THE PROCESS AND ERROR RISKS REQUIRED TO GET AN ADDR		06780000		0030
06270000		678 *		CONSTANT SPLIT INTO A LEFT BYTE AND RIGHT BYTE FOR THE LI		06790000		
06280000		679 *		INSTS.		06800000		
06290000		680		*****		06810000		0040
06300000								
06310000		682		*****		06830000		
06320000		683 *		'NON-CONSTANT' NUCLEUS TRANSIENT AREA WORKSPACE.		06840000		0020
06330000		684 *		THESE EIGHT WORDS MUST START AT THE FIRST WORD IN THE DIRECT AREA		06850000		
06340000		685 *		BECAUSE THEY ARE ALSO COMMON TO THE IPL WRAP ROUTINES		06860000		
06350000		686		*****		06870000		
06360000		0000	687	DINDXNTO EQU 0	XIENT WORK SPACE # 0	06880000		0008
06370000		0001	688	DINDXNTO1 EQU DINDXNTO+1	XIENT WORK SPACE # 1	06890000		
06380000		0002	689	DINDXNTO2 EQU DINDXNTO1+1	XIENT WORK SPACE # 2	06900000		
06390000		0003	690	DINDXNTO3 EQU DINDXNTO2+1	XIENT WORK SPACE # 3	06910000		0004
06400000		0004	691	DINDXNTO4 EQU DINDXNTO3+1	XIENT WORK SPACE # 4	06920000		0002
06410000		0005	692	DINDXNTO5 EQU DINDXNTO4+1	XIENT WORK SPACE # 5	06930000		0001
06420000		0006	693	DINDXNTO6 EQU DINDXNTO5+1	XIENT WORK SPACE # 6	06940000		
06430000		0007	694	DINDXNTO7 EQU DINDXNTO6+1	XIENT WORK SPACE # 7	06950000		
06440000		695 *				06960000		
06450000		0000	696	DIDSKTAB EQU DINDXNTO	DISK EXTENT TABLE (USED BY IPL ONLY)	06970000		
06460000		0004	697	DIDSKTBL EQU 4	LENGTH OF A DISK EXTENT TABLE ENTRY	06980000		
		698 *				06990000		

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IF DO	LINE	SOURCE	IF DO	LINE	SOURCE
	3466	TUBNDDTA EQU X'08'		3521	TUBCM051 EQU
	3467	TUBSRILK EQU X'04'		3522	TUBCM08 EQU
	3468	TUBNPRD EQU X'02'		3523	TUBCM07 EQU
	3469	TUBNDRK EQU X'01'		3524	TUBCM06 EQU
	3470	SPACE		3525	TUBCM05 EQU
	3471	TUBCTSNW EQU TUBNDRG+2		3526	TUBCM04 EQU
	3472	TUBNPRINT EQU TUBCTSNW+2		3527	TUBCM03 EQU
	3473	TUBMSGCT EQU TUBNPRINT+1		3528	TUBCM02 EQU
	3474	TUBMSGRT EQU X'20'		3529	TUBCM01 EQU
	3475	TUBMSGZ EQU X'40'		3530	TUBCM02 EQU
	3476	TUBMSGZ EQU X'40'		3531	TUBCM01 EQU

25980000	16
25970000	16
25980000	16
25990000	16
26000000	17
26010000	17
26020000	17
26030000	18
26040000	18
26050000	18
26060000	19
26070000	19
26080000	19
26090000	20

0002 2699 SVCSM11 EQU X'02'	WH11	26510000
0003 2690 SVCPST EQU X'03'	POST	26510000
0004 2651 SVCKFER EQU X'04'	TRANSFER CONTROL/SYSTEM TRANSIENT	26520000
0005 2652 SVCSNSTK EQU X'05'	STACK MANIPULATION	26530000
0006 2653 SVCSASGN EQU X'06'	ASSTGN	26540000
0007 2654 SVCFREE EQU X'07'	FREE	26550000
0008 2655 SVCSISEC EQU X'08'	INCREMENT SYSTEM EVENT COUNTERS	26560000
0009 2656 SVCSNSSF EQU X'09'	SENSE CONSOLE DATA SWITCHES	26570000
000A 2657 SVCSASGN EQU X'0A'	ASSIGN SYSTEM QUEUE SPACE SVC	26580000
000B 2658 SVCPSPVC EQU X'0B'	PSEUDO DELAYED SVC POST ACM FUNCTION	26590000
000C 2659 SVCLDATR EQU X'0C'	LOAD ATRP	26600000
000D 2660 SVCPMR EQU X'0D'	ALTER PROGRAM MODE REGISTER (PMR)	26610000
000E 2661 SVCSQQUE EQU X'0E'	QUEUE / DEQUEUE SYSTEM CONTROL BLOCKS	26620000
000F 2662 SVCSCB EQU X'0F'	SYSTEM CONTROL BLOCK ACCESS	26630000

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15	V09/11/81	12/08/81	02:16
06470000	02		
06480000	02		
06490000	03		
06500000	03		
06510000	03		
06520000	04		
06530000	04		
06540000	04		
06550000	05		
06560000	05		
06580000	06		
06590000	06		
06600000	07		
06610000	07		
06620000	07		
06630000	08		
06640000	08		
06650000	08		
06660000	09		
06670000	09		
06680000	09		
06690000	10		
06700000	10		
06710000	10		
06720000	11		
06730000	11		
06740000	11		
06750000	12		
06760000	12		
06770000	12		
06780000	13		
06790000	13		
06800000	13		
06810000	14		
06830000	14		
06840000	15		
06850000	15		
06860000	15		
06870000	16		
06880000	16		
06890000	16		
06900000	17		
06910000	17		
06920000	17		
06930000	18		
06940000	18		
06950000	18		
06960000	19		
06970000	19		
06980000	19		
06990000	20		

MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 16	V09/11/81	12/08/81	02:16
ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	
		699		*****	07000000
		700	*	'UNUSED WORDS'	07010000
		701		*****	07020000
		0008	702	D1UNUS08 EQU D1UNXNT7+1 UNUSED	07030000
		0009	703	D1ASSAV0 EQU D1UNUS08+1 BEST FIT ASSIGN SAVE AREA	07040000
		000A	704	D1XAMSW1 EQU D1ASSAV0+1 EXAM SWAP IN CANDIDATE 6	07050000
		000B	705	D1CURX28 EQU D1XAMSW1+1 CURRENT (EXAM0 - 28) 6	07060000
		000C	706	D1WSCAF EQU D1CURX28+1 STORE FEATURE INFORMATION FOR ATOM @255	07070000
		000D	707	D1IOLDAR EQU D1WSCAF+1 SAVED LOGICAL DISKETTE DATA ADDRESS @184	07080000
		708	*		07090000
		709		*****	07100000
		710	*	POINTER TO SMF SID COUNTER AREA IN MAIN STORAGE	07110000
		711		*****	07120000
		000E	712	D1SMF0 EQU D1IOLDAR+1 ADDR OF SMF SID COUNTER AREA IN MAIN STG.	07130000
		713	*		07140000
		714		*****	07150000
		715	*	MAIN STORAGE SIZE AND BAD 2K PAGE COUNTER WORD	07160000
		716		*****	07170000
		717	*	THE FOLLOWING BIT IS SET IN THE HIGH BYTE IF NECESSARY	07180000
		0080	718	D1PGFULL EQU X'80' BAD 2K PAGE ELEMENT IN M.S. IS FULL	07190000
		719	*	NUMBER OF BAD 2K PAGES (HIGH BYTE)	07200000
		000F	720	D1MSIZE EQU D1SMF0+1 MAIN STORAGE SIZE IN 2K PAGES (LOW BYTE)	07210000
		721	*		07220000
		722		*****	07230000
		723	*	SYSTEM INDICATOR WORD FOR SEGMENT ONE	07240000
		724		*****	07250000
		0010	725	D1INDR1 EQU D1MSIZE+1 SYSTEM INDICATOR WORD FOR SEG 1	07260000
		0010	726	D1CSIZE EQU D1INDR1 CONTROL STORAGE SIZE (LOW BYTE)	07270000
		727	*		07280000
		728		*****	07290000
		729	*	SYSTEM INDICATOR WORD BIT EQUATES (HIGH BYTE)	07300000
		730		*****	07310000
		0030	731	DMPROTEC EQU X'80' DUMP FILE PROTECTED INDICATOR	07320000
		732	*	* 0 - THE DUMP FILE IS NOT PROTECTED	07330000
		733	*	* 1 - THE DUMP FILE IS PROTECTED	07340000
		0040	734	DMPINPRG EQU X'40' STORAGE DUMP CURRENTLY IN PROGRESS	07350000
		735	*	* 0 - NO DUMP IN PROGRESS	07360000
		736	*	* 1 STORAGE DUMP IN PROGRESS	07370000
		0020	737	DMPUSAC EQU X'20' SUSPEND TASK FOR ADDRESS COMPARE DUMP	07380000
		738	*	* 0 - DONT SUSPEND TASK FOR DUMP	07390000
		739	*	* 1 - SUSPEND TASK AFTER DUMP	07400000
		740	*	UNUSED	07410000
		0008	741	MPIOBERR EQU X'08' MULTI-PURPOSE IOB ERROR INDICATOR	07420000
		742	*	* 0 - NO ERROR IN MULTI-PURPOSE IOB	07430000
		743	*	* 1 - PERM DISK ERROR IN M.P. IOB	07440000
		0004	744	PSIPLF1 EQU X'04' IPL FROM DISK INDICATOR	07450000
		0002	745	PSIPLI1 EQU X'02' IPL FROM DISKETTE INDICATOR	07460000
		0001	746	MLCA32K EQU X'01' MLCA 32K CONTROLLER	07470000
		747		*****	07480000
		748	*	CONTROL STORAGE SIZE IN SECTORS (LOW BYTE)	07490000
		749		*****	07500000
		750	*		07510000
		751		*****	07520000
		752	*	'CONSTANT' POINTERS TO CONTROL STORAGE ITEMS	07530000

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TIME 02:15	DATE 81/12/08
03521	TUBCHSK1 EQU TUBMFOSP+1
03522	TUBCH08 EQU X'80'
03523	TUBCH07 EQU X'40'
03524	TUBCH06 EQU X'20'
03525	TUBCH05 EQU X'10'
03526	TUBCH04 EQU X'08'
03527	TUBCH03 EQU X'04'
03528	TUBCH02 EQU X'02'
03529	TUBCH01 EQU X'01'
03530	TUBCHSK2 EQU TUBCHSK1+1
03531	TUBCH00 EQU X'00'

SPL/3	VERSION 08/28/80	PAGE 65	TIME 02:15	DATE 81/12/08
IF DO	LINE	SOURCE		
	3521	TUBCHSK1 EQU TUBMFOSP+1	FIRST COMMAND KEY MASK BYTE	
	3522	TUBCH08 EQU X'80'	ENABLE COMMAND KEY 8	
	3523	TUBCH07 EQU X'40'	ENABLE COMMAND KEY 7	
	3524	TUBCH06 EQU X'20'	ENABLE COMMAND KEY 6	
	3525	TUBCH05 EQU X'10'	ENABLE COMMAND KEY 5	
	3526	TUBCH04 EQU X'08'	ENABLE COMMAND KEY 4	
	3527	TUBCH03 EQU X'04'	ENABLE COMMAND KEY 3	
	3528	TUBCH02 EQU X'02'	ENABLE COMMAND KEY 2	
	3529	TUBCH01 EQU X'01'	ENABLE COMMAND KEY 1	
	3530	TUBCHSK2 EQU TUBCHSK1+1	SECOND COMMAND KEY MASK BYTE	
	3531	TUBCH00 EQU X'00'	ENABLE COMMAND KEY 0	

SPL/3	VERSION 08/28/80
IF DO	LINE
	3576
	3577
	3578
	3579
	3580
	3581
	3582
	3583
	3584
	3585
	3586









16	0080 2833 TCBPTRWT EQU X'80'	. PRINTER ALLOCATE FAILURE	28340000	16	0000 2834 TCBLINMT EQU X'10'	. COMM. LINE ALLOCATE FAILURE	28350000
17	0020 2835 TCBDKWT EQU X'20'	. DISKETTE ALLOCATE FAILURE	28360000	17	0010 2836 TCBDKWT EQU X'10'	. DISK SPACE ALLOCATION FAILURE	28370000
18	0008 2837 TCBDEVMT EQU X'08'	. OTHER DEVICES ALLOCATION FAILURE	28380000	18	0004 2838 TCBICXMT EQU X'04'	. ICS TRANSIENT WAITOR	28390000
19	0002 2839 TCBASRMT EQU X'02'	. ASSIGN RECOVERY FORCED WAITER	28400000	19	2840 * EQU X'01'	. RESERVED	28410000
20	0004 2842 TCBSTAT3 EQU TCBWMSK2+1	TCB STATUS BYTE 3	28430000	20	0080 2844 TCBTERM EQU X'80'	. TASK IS IN TERMINATION	28450000

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ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	ADDRESS
02	08620000	0043	915	D1IARS	EQU DISAVEIN+1	SAVE AREA FOR INPUT IAR VALUE
03	08630000	0044	916	D1CURTCB	EQU D1IARS+1	ADDR OF MAIN STORAGE WORKING TCB
04	08640000	0045	917	D1XTCB@	EQU D1CURTCB+1	MS XIENT AREA OWNER.
05	08650000	0046	918	D1LDACE@	EQU D1XTCB@+1	ADDR OF ACTIVE M.S. LOADER ACE
06	08660000	0047	919	D1SWTCBI	EQU D1LDACE@+1	SWAPIN TCB ADDRESS.
07	08670000	0048	920	D1TWTCB@	EQU D1SWTCBI+1	TASK WORK AREA TCB ADDRESS (SHARED)
08	08680000	0048	921	D1LDTCB@	EQU D1TWTCB@	RELOCATING LOADER TCB ADDRESS (SHARED)
09	08690000	0049	922	D1LOGPT	EQU D1TWTCB@+1	ADDR OF NEXT TRACE LOG OUT ENTRY
10	08700000	00FF	923	LOGTFULL	EQU X'FF'	STORAGE TRACE TABLE FULL
11	08710000	924	*			(H) = X'FF' TRACE BUFFER IS FULL
12	08720000	004A	925	D1LOGLIN	EQU D1LOGPT+1	END ADDRESS OF TRACE BUFFER
13	08730000	004B	926	D1CURAQE	EQU D1LOGLIN+1	CURRENT AQE
14	08740000	004C	927	D1ASRTQE	EQU D1CURAQE+1	ASSIGN RECOVERY TQE ADDRESS.
15	08750000	004D	928	D1AQEWK	EQU D1ASRTQE+1	RESOURCE ENQUEUE/DEQUEUE WORK AREA
16	08760000	004E	929	D1QSAVE	EQU D1AQEWK+1	SAVE AREA FOR PAB IN QUEUE ROUTINE
17	08770000	930	*			930 *
18	08780000	931	*			*****
19	08790000	932	*			* 'NON-CONSTANT' DISK ADDRESS POINTERS
20	08800000	933	*			*****
01	08810000	004F	934	D1LOGSSH	EQU D1QSAVE+1	SECTOR ADDRESS OF TRACE FILE, BUFFER SIZE
02	08820000	935	*			(H) = SECTOR ADDRESS (L) OF TRACE FILE
03	08830000	936	*			(L) = SIZE OF TRACE BUFFER (H)
04	08840000	0050	937	D1LOGSS	EQU D1LOGSSH+1	SECTOR ADDRESS OF TRACE FILE (H,L)
05	08850000	0051	938	D1LOGSIZ	EQU D1LOGSS+1	TRACE FILE SIZE
06	08860000	0052	939	D1LOGUSD	EQU D1LOGSIZ+1	TRACE FILE CURRENT POINTER (OFFSET)
07	08870000	0053	940	D1CURXNT	EQU D1LOGUSD+1	DISK ADDR OF XIENT CURRENTLY IN MS AREA
08	08880000	0054	941	D1CSDUMP	EQU D1CURXNT+1	CONTROL STORAGE DUMP FILE SECTOR ADDRESS
09	08890000	0055	942	D1CURTRB	EQU D1CSDUMP+1	CURRENT REQUEST BLOCK
10	08900000	0055	943	D1PREVRB	EQU D1CURTRB	
11	08910000	944	*			944 *
12	08920000	945	*			*****
13	08930000	946	*			* MS. PROCESSOR REGISTER SAVE AREA
14	08940000	947	*			*****
15	08950000	0056	948	D1XR1	EQU D1CURTRB+1	XR1
16	08960000	0057	949	D1XR2	EQU D1XR1+1	XR2
17	08970000	0058	950	D1ARR	EQU D1XR2+1	ARR
18	08980000	0059	951	D1IAR	EQU D1ARR+1	IAR
19	08990000	005A	952	D1PMPRPSR	EQU D1IAR+1	PIR AND PSR
20	09000000	005B	953	D1RQ	EQU D1PMPRPSR+1	R AND Q BYTES
01	09010000	005C	954	D1IHL12	EQU D1RQ+1	INLINE PARAMETERS 1 2
02	09020000	005D	955	D1IHL34	EQU D1IHL12+1	INLINE PARAMETERS 3 4
03	09030000	956	*			956 *
04	09040000	957	*			*****
05	09050000	958	*			* ILS WORK AREAS FOR HPLOCH
06	09060000	959	*			*****
07	09070000	005E	960	D1UNUSSE	EQU D1IHL34+1	UNUSFD
08	09080000	005F	961	D1ILSPCR	EQU D1UNUSSE+1	CTRL/PCR SAVE AREA.
09	09090000	0060	962	D1HPCSDA	EQU D1ILSPCR+1	PSP CONTROL STATUS - CTRL DEVICE ADDR
10	09100000	0080	963	HPSGENR	EQU X'80'	ASSIGN FAILURE HNS OCCURRED.
11	09110000	0040	964	HPSTART	EQU X'40'	START THE PSP BEFORE EXIT
12	09120000	0020	965	HPZSNCA	EQU X'20'	POST SMC FROM IELZ IS IN PROCESS
13	09130000	0010	966	HPSSNVC	EQU X'10'	CS SMC REQUEST
14	09140000	0008	967	HPNOTBSY	EQU X'08'	PSP NOT BUSY (NO TASK AVAILABLE)
15	09150000	0004	968	HPWAITING	EQU X'04'	PSP WAITING FOR START KEY

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DATE	TIME	VERSION	DATE	TIME
81/12/88	02:16	08/28/80	81/12/88	02:15
01	3740	HPOPEN	01	3740
02	3742	HPCLOSE	02	3742
03	3743	HPENDJ	03	3743
04	3744	HPSLIB	04	3744
05	3745	HPSLIST	05	3745
06	3746	HPSTN	06	3746
07	3747	HPSET	07	3747
08	3748	HPMSG	08	3748
09	3749	HPLIBRY	09	3749
10	3750	HPTRNCFD	10	3750

28340000	16	0000 2886 TCBPRCH EQU X'CO' CONVERSATIONAL PRIORITY	28880000
28350000		2887 * NORMAL (DEFAULT) USER TASK PRIORITY IS TCBPRCH DYNAMICALLY	28880000
28360000		2888 * CHANGED TO/FROM TCBPRCH BE THE SYSTEM SUPERVISOR.	28900000
28370000	17	0080 2889 TCBPRUDL EQU X'BO' LOW PRIORITY	28900000
28380000			
28390000		0006 2891 TCBTTIME EQU TCBPRIOR+1 TASK RESIDUAL TIME INTERVAL.	28920000
28400000	18	0007 2893 TCBQCNT EQU TCBTTIME+1 QUIESCE COUNTER	28940000
28410000		0009 2894 TCBMPLQ EQU TCBQCNT+2 TASK EVENT CONTROL QUEUE HEADER	28950000
		2895 *AAAAAAAAAAAAAA THE ABOVE FIELDS ARE ORDER DEPENDENT AAAAAAAAAAAAAA:AAAA	28960000
28430000	19	0008 2897 TCBPUSH EQU TCBMPLQ+2 PUSH ELEMENT Q-HEADER	28980000
28450000	20	0000 2898 TCBCHAIN EQU TCBPUSH+2 SYSTEM EXISTENCE QUEUE CHAINING FIELD	28990000

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12/08/81 02:16		#MPCPR #MPCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 21	V09/11/81	12/08/81 02:16
ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	
09160000	02	0002	369	HPNDSTRT EQU X'02'	SUPPRESS START OF MSP	09700000
09170000		0001	970	HPERRPND EQU X'01'	ERROR PENDING, RECOVERY IN PROCESS	09710000
09180000	03	0000	971	HPHALTED EQU HPNDTBSY+HPWAITING+HPERRPND	DO NOT START MSP	09720000
09190000			972	*		09730000
09200000		0061	973	D1HPCSTI EQU D1HPCSDA+1	CURRENT STACK POINTER FOR CS SVCS FROM IL2	09740000
09210000		0062	974	D1HPSTK EQU D1HPCSTK+1	STACK POINTER FOR CS SVC REQUESTS FROM IL2	09750000
09220000	04		975	*		09760000
09230000		0063	976	D1RQNSAW EQU D1HPSTK+1	RESOURCE ENQUEUE/DEQUEUE SAME AREA	09770000
09240000			977	*****		09780000
09250000	05		978	* 'ACE' BUILD AREA	*	09790000
09260000			979	*****		09800000
09270000		0064	980	D1ACE1AR EQU D1RQNSAW+1	ACE 1AR VALUE	09810000
09280000	06	0065	981	D1ACE1AR EQU D1ACE1AR+1	ACE 1AR VALUE	09820000
09290000		0066	982	D1ACE1L EQU D1ACE1AR+1	IN-LINE PANTS 1 AND 2	09830000
09300000		0067	983	D1ACE1L EQU D1ACE1L+1	IN-LINE PANTS 3 AND 4	09840000
09310000	07	0068	984	D1ACE1R1 EQU D1ACE1L+1	ACE XR1 VALUE	09850000
09320000		0068	985	D1ACE1R2 EQU D1ACE1R1	ACE 1R2 VALUE	09860000
09330000		0069	986	D1ACE1R2 EQU D1ACE1R2+1	ACE 1R2 VALUE	09870000
09340000	08	0069	987	D1ACE1PL EQU D1ACE1R2	ACE PARAMETER LIST 0 VALUE	09880000
09350000		006A	988	D1ACE1CB EQU D1ACE1R2+1	TCB ADDRESS	09890000
09360000			989	*		09900000
09370000	09		990	*****		09910000
09380000			991	* ENTRY POINTS FOR ROUTINES IN THE FIRST SEGMENT OF CONTROL STORAGE *		09920000
09390000			992	*****		09930000
09400000	10	006B	993	D1SETSM EQU D1ACE1CB+1	SET ACTION CONTROL WORD ENTRY POINT	09940000
09410000			994	*		09950000
09420000			995	*****		09960000
09430000	11		996	* MISCELLANEOUS CONSTANTS	*	09970000
09440000			997	*****		09980000
09450000			998	*		09990000
09460000	12		999	* Q AND R BYTE PANTS FOR DISK READ/WRITE FUNCTIONS (USED BY MUD3)		10000000
09470000			1000	*		10010000
09480000		006C	1001	D1RQNSAW EQU D1SETSM+1	Q/R BYTES TO READ INTO MAIN STG	10020000
09490000	13	006D	1002	D1RQNSAW EQU D1RQNSAW+1	Q/R BYTES TO READ INTO CTRL STG	10030000
09500000			1003	*		10040000
09510000		006E	1004	D1RQNSAW EQU D1RQNSAW+1	Q/R BYTES TO WRITE FROM MAIN STG	10050000
09520000	14	006F	1005	D1RQNSAW EQU D1RQNSAW+1	Q/R BYTES TO WRITE FROM CTRL STG	10060000
09530000			1006	*		10070000
09540000		0070	1007	D1RQNSAW EQU D1RQNSAW+1	DISPATCHER/ SWAP TIME INTERVALS	10080000
09550000	15		1008	*	>> TASK TIMER INTERVAL: <<<	10090000
09560000		0070	1009	D1RQNSAW EQU 61	>> 61 TIMER UNITS = 409.712 MSEC. <<<	10100000
09570000			1010	*		10110000
09580000	16		1011	*****		10120000
09590000			1012	* NON CONSTANTS FOR MSP ERROR RETRY STORAGE CONNECTION	*	10130000
09600000			1013	*****		10140000
09610000	17		1014	*		10150000
09620000		0071	1015	D1RQNSAW EQU D1RQNSAW+1	FINISHING MS ADDRESS	10160000
09630000			1016	*		10170000
09640000	18	0072	1017	D1RQNSAW EQU D1RQNSAW+1	CONNECTION FLAG / CONNECTED DATA	10180000
09650000			1018	*		10190000
09660000			1019	*****		10200000
09670000	19		1020	* ALTER/DISPLAY WORDS FOR ADDRESS COMPARE/VERIFY FUNCTION	*	10210000
09680000			1021	*****		10220000
09690000	20		1022	*		10230000

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DATE 01/12/80	SPL/3	VERSION 08/28/80	PAGE 70	TIME 02:15	DATE 01/12/80
DF	ID	LINE	SOURCE		
01		3796	REGUPR EQU X'39'	GLF TRANSIENT	5
		3797	REGUPR EQU X'39'	GLF TRANSIENT	5
02		3798	REGUPR EQU X'3B'	EXTENDED PRINT	6
		3799	REGUPR EQU X'3C'	SME COMM. DATA COLLECTION	6
03		3800	RECCD EQU X'3D'	PREP MULTIPPOINT	6
		3801	RECCD EQU X'3E'	ASDP X'ENT	
		3802	RECCD EQU X'3F'	-	
		3803	RECCD EQU X'40'	-	
04		3804	RECCD EQU X'41'	ROOM TTC X'ENT CALL	
		3805	RECCD EQU X'42'	ASDP X'ENT	

16	0057 2937 TCBSINR EQU TCBLDTSK+1	TASK INVITE COUNT	29400000
	0058 2940 TCBINVCT EQU TCBLDTSK+1	TASK INVITE COUNT	29410000
	005D 2941 TCBSASNQ EQU TCBINVCT+2	ASSIGNED ELEMENTS QUEUE	29420000
	005F 2942 TCBEKIT EQU TCBSASNQ+2	ASYNCHRONOUS EXIT ADDRESS.	29430000
17	005F 2943 TCBAFAIL EQU TCBEKIT	CP ASSIGN FAILURE INDICATOR BYTES	29440000
	0067 2944 TCBTQE EQU TCBEKIT+8	TIMER QUEUE ELEMENT.	29450000
	0068 2945 TCBSQBCT EQU TCBTQE+1	COUNT OF SECTOR QUEUE REQUESTS	29460000
18	0069 2946 TCBLCKYK EQU TCBSQBCT+1	COUNT OF LOCK REQUESTS	29470000
	0080 2947 TCBLCKDI EQU X'80'	INTERLOCK FOR DEDICATION	29480000
	0040 2948 TCBLCKSI EQU X'40'	INTERLOCK FOR SCHEDULER	29490000
19	0020 2949 TCBLCKVI EQU X'20'	INTERLOCK FOR VTDC	29500000
	0010 2950 TCBLCKSI EQU X'10'	INTERLOCK FOR FORMAT 5	29510000
	0008 2951 TCBLCKPI EQU X'08'	INTERLOCK FOR PROC NAME	29520000
20	0004 2952 TCBLCKHI EQU X'04'	INTERLOCK FOR HISTORY FILE	29530000

0000 2993 TCBSY	0040 2994 TCBAI
0020 2995 TCBSY	0010 2996 TCBAI
0008 2997 TCBAI	0004 2998 TCBAI
0004 2999 TCBAI	0002 3000 TCBAI
0001 3001 TCBAI	006F 3003 TCBSY
0080 3005 TCBSY	0040 3006 TCBAI

E01

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	
02		0073 1023	D1ACVERD	EQU	D1HCSTGD+1	A/D ADDRESS COMPAGE VERIFY DATA 10240000
		0074 1024	D1ACTSKA	EQU	D1ACVERD+1	A/D ADDRESS COMPARE TASK ADDRESS 10250000
		0075 1025	D1ACCNTL	EQU	D1ACTSKA+1	A/D ADDRESS COMPARE CONTROL WORD 10260000
03		1026 *			HIGH BYTE	10270000
		0080 1027	ADCTASK	EQU	X'80'	STOP IF TASK ACTIVE 10280000
04		0040 1028	ADCREAL	EQU	X'40'	REAL VERIFY ADDRESS 10290000
		0020 1029	ADCVRFY	EQU	X'20'	VERIFY STOP 10300000
		0010 1030	ADCMATCH	EQU	X'10'	STOP IF DATA MATCHES 10310000
05		0008 1031	ADCTBN	EQU	X'08'	STOP IF BITS ARE ON 10320000
		0004 1032	ADCTBF	EQU	X'04'	STOP IF BITS ARE OFF 10330000
		0002 1033	ADCFND	EQU	X'02'	ADDRESS COMPARE FOUND ON ILS 10340000
06		0001 1034	ADCDMPRQ	EQU	X'01'	ADDRESS COMPARE DUMP REQUEST 3 10350000
		1035 *				10360000
		1036 *			EQUATE FOR SETTING OFF THE SOFTWARE ADDRESS COMPARE CONTROL BITS 3	10370000
07		00FC 1037	ADCRESET	EQU	ADCTASK+ADCREAL+ADCVRFY+ADCMATCH+ADCTBN+ADCTBF 3	10380000
		1038 *				10390000
		1039 *	LOW RYTE		TASK ATR ADDRESS OF VERIFY DATA	10400000
08		1040 *				10410000
		1041			*****	10420000
		1042 *			END OF DIRECT AREA *	10430000
		1043			*****	10440000
09		0076 1044	D1ENDR	EQU	D1ACCNTL+1	LABEL FOR NEXT AVAILABLE WORD IN DRCT1 10450000
		1045 ***			END OF EXPANSION **	10460000
		1046 *			ECM	10470000
10		0000 1047	ECMPARM	EQU	0	PARM BYTE OFFSET 10480000
		0080 1048	ECMNSKIP	EQU	X'80'	DO NOT SKIP ON MULT. WAIT INDICATOR 10490000
11		0040 1049	ECPREAL	EQU	X'40'	DATA ADDRESS IN JOB IS REAL INDICATOR 10500000
		0020 1050	ECMTTC	EQU	X'20'	TASK-TASK COMMUNICATIONS INDICATOR 10510000
		0021 1051	ECMIQERR	EQU	X'21'	I/O ERROR INDICATOR 10520000
12		0022 1052	ECMIQ	EQU	X'22'	INQUIRY INDICATOR 10530000
		0023 1053	ECJTRM	EQU	X'23'	JOB DETACH INDICATOR 10540000
		0024 1054	ECMTIMER	EQU	X'24'	TIMER ECM INDICATOR 10550000
13		0025 1055	ECMPCCL	EQU	X'25'	OCL COMMAND INDICATOR 10560000
		0026 1056	ECMTAS	EQU	X'26'	TEST AND SET INDICATOR 10570000
		0027 1057	ECMCSB	EQU	X'27'	CSB TRANSFER INDICATOR 10580000
14		0028 1058	ECMSTSLG	EQU	X'28'	SYSLOG INDICATOR 10590000
		0001 1059	ECMNSK	EQU	1	ECM - EVENT CONTROL MASK OFFSET 10600000
		0080 1060	ECMNTV	EQU	X'80'	- EVENT ACTIVE 10610000
15		0040 1061	ECMCPPL	EQU	X'40'	- ECB COMPLETE 10620000
		1062 *			- RESERVED	10630000
		0010 1063	ECMLCK	EQU	X'10'	- LOCK BIT 10640000
		1064 *			EQU X'08'	*
		1065 *			EQU X'04'	* COMPLETION CODE
		1066 *			EQU X'02'	*
		1067 *			EQU X'01'	*
17		0003 1068	ECMGM	EQU	3	ECM - GENERAL WAIT MASK FIELD 10690000
		0080 1069	ECMPREPT	EQU	X'80'	- DO NOT PREEMPT BIT 10700000
18		0040 1070	PLIFD	EQU	X'40'	- LIFO QUEUE REQUEST 10710000
		1071 ***			END OF EXPANSION **	10720000
		1072 *			END	10730000
19		0001 1073	EMRCHN	EQU	1	CHAIN FIELD 10740000
		1074 *				10750000
		0002 1075	EMRDEV1	EQU	EMRCHN+1	DEVICE ID 10760000
20		0000 1076	EMRDISKT	EQU	X'80'	DISKETTE; DEVICE ID 12/6/79 RJB 10770000

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT
02		00C3 1077	ER		
		00A0 1078	ER		
03		0080 1079	ER		
		1080 *			
		0003 1081	ER		
		1082 *			
04		0004 1083	ER		
		0080 1084	ER		
05		0040 1085	ER		
		0020 1086	ER		
		0010 1087	ER		
06		00F0 1088	ER		
		1089 *			
		1090 *			
		1091 *			
07		1092 *			
		0007 1093	ER		
		0006 1094	ER		
08		0005 1095	ER		
		0004 1096	ER		
		0003 1097	ER		
09		1098 *			
		1099 *			
		1100 *			
10		000F 1101	ER		
		1102 *			
11		0005 1103	ER		
		0080 1104	ER		
		0040 1105	ER		
		1106 *			
12		0020 1107	ER		
		0010 1108	ER		
		1109 *			
13		1110 *			
		1111 *			
14		1112 *			
		0008 1113	ER		
		0004 1114	ER		
15		1115 *			
		1116 *			
16		0003 1117	ER		
		0002 1118	ER		
		0001 1119	ER		
		1120 *			
		1121 *			
17		1122 *			
		0001 1123	ER		
18		1124 *			
		1125 *			
		1126 *			
19		0001 1127	ER		
		1128 *			
		1129 *			
20		0006 1130	ER		

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SPL/3	VERSION	08/28/80	PAGE	71	TIME	02:25	DATE	81/12/88
001	FF	000	LINE	SOURCE				
	3813			MSUPRINT:		01120000		
	3814			PRAC OPTIONS(SNOBSPACE, ID=(CIDN+MSCPR,ATN)=EDOTD,RLD=D,MOD=0,		01130000		
	3815			(CURE=0IS), START=HUBKRENT);		01140000		
02	3816			**		01150000		
	3817			*****		01160000		
03	3818			** GET SPACE FOR A JOB CONTROL BLOCK. IT WILL BE USED BY SP00L,		01170000		
	3819			** JOB QUEUE, AND HISTORY OVERFLOW IN INITIALIZATION ROUTINES.		01180000		
	3820			**		01190000		
04	3821			**		01200000		
	3822			GENL: ** GET SPACE FOR A JOB		01210000		

SPL/3	VERSION	08/28/80
001	FF	000
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	3824	
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04	3831	
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29410000	16	0040 2994 TCBATTC EQU X'40'	SYSTEM TASK - NOT SUSPENDABLE	29950000	16
29420000		0020 2995 TCBSYSTEM EQU X'20'	TASK IS IN ABNORMAL TERMINATION	29960000	
29430000		0010 2996 TCBABTRM EQU X'10'	RECURSIVE TERMINATION DUE TO SVC 22	29970000	
29440000	17	0008 2997 TCBZ2RCS EQU X'08'	CANCEL PENDING	29980000	17
29450000		0004 2998 TCBCLNLPD EQU X'04'	C.P. CALLED FOR TWA RECOVERY	30000000	
29460000		0002 3000 TCBDMPT EQU X'02'	ERROR ON DUMP - PARTIAL DUMP TAKEN	30010000	
29470000	18	0001 3001 TCBDMPPD EQU X'01'	DUMP PENDING ON CANCEL	30020000	18
29480000					
29490000					
29500000	19	006F 3003 TCBSTAT5 EQU TCBSTAT4+1	STATUS BYTE 5	30040000	19
29510000					
29520000		0080 3005 TCBTHBIT EQU X'80'	TASK HAS BEEN IN TERMINATION	30060000	
29530000	20	0040 3006 TCBCLN2PD EQU X'40'	2 OPTION CANCEL PENDING	30070000	20

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PAGE 22 V09/11/81 12/08/81 02:16		#MISCPR #MISCP - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION	PAGE 23 V09/11/81 12/08/81 02:16		#MISCPR #MISCP - MA
ERR LOC	OBJECT CODE	ADDR STMT	SOURCE STATEMENT	ERR LOC	OBJECT CODE
	10240000	00C3 1077 ERBGAIJI EQU X'C3'	GAIJI TASK ID		10780000
	10250000	00A0 1078 ERBDISK EQU X'A0'	DISK; DEVICE ID 12/6/79 RJB		10790000
	10260000	0080 1079 ERBMLCA EQU X'80'	DEVICE ID ADDED FOR MLCA		10800000
	10270000	1080 *			10810000
	10280000	0003 1081 ERBDQHD EQU ERBDQVI+1	Q HEADER DISPLACEMENT		10820000
	10290000	1082 *			10830000
	10300000	0004 1083 ERBDCTL EQU ERBDQHD+1	ERP CONTROL		10840000
	10310000	0080 1084 ERBBUSY EQU X'80'	THE ERB IS IN USE, AWAITING MS ACTION		10850000
	10320000	0040 1085 ERBCDNE EQU X'40'	C.S. ROUTER OPERATION COMPLETED		10860000
	10330000	0020 1086 ERBDONE EQU X'20'	M.S. ERB OPERATION HAS BEEN COMPLETED		10870000
	10340000	0010 1087 ERBERR2 EQU X'10'	READY RESPONSE WAS A 2ND ERROR		10880000
3	10350000	00F0 1088 ERBFTLMA EQU X'F0'	MASK TO SET OFF ZONE BITS TO CHECK FUNC.		10890000
	10360000	1089 *	THE LOWER 4 BITS OF THIS BYTE ARE ENCODED WITH THE FUNCTION TO BE		10900000
	10370000	1090 *	PERFORMED. CURRENTLY THE X'08' BIT IS NOT BEING USED, HOWEVER IT		10910000
	10380000	1091 *	IS RESERVED FOR USE AS PART OF THE FUNCTION ENCODING SCHEME IF WE		10920000
	10390000	1092 *	NEED TO ADD MORE THAN 2 FUNCTIONS TO THE EXISTING SET.		10930000
	10400000	0007 1093 ERBMIC EQU 7	GET ERROR MIC #		10940000
	10410000	0006 1094 ERBMERCY EQU 6	PERFORM ERROR RECOVERY		10950000
*****	10420000	0005 1095 ERBMMSG EQU 5	ISSUE MESSAGE		10960000
*	10430000	0004 1096 ERBMRRR EQU 4	WAIT FOR NOT-READY TO READY OR MSG RSPNSE		10970000
*****	10440000	0003 1097 ERBMPUR EQU 3	PURGE MESSAGE		10980000
IN DRCT1	10450000	1098 *	EQU 2		10990000
	10460000	1099 *	EQU 1		11000000
	10470000	1100 *	EQU 0		11010000
	10480000	000F 1101 ERBMERR EQU X'0F'	INVALID FUNCTION (DO NOT USE)		11020000
	10490000	1102 *	ERR IN PROCESS IF ANY BIT ON		11030000
	10500000	0005 1103 ERBDFLG EQU ERBDCTL+1	FLAG		11040000
	10510000	0080 1104 ERBTRMID EQU X'80'	PLACE TERMINAL ID IN THE MESSAGE		11050000
	10520000	0040 1105 ERBMERRC EQU X'40'	PLACE 4 BYTE ERROR CODE IN THE LAST FOUR		11060000
	10530000	1106 *	POSITIONS OF THE TEXT MESSAGE		11070000
	10540000	0020 1107 ERBMNRPSP EQU X'20'	NO RESPONSE REQUIRED FOR INFO MESSAGE		11080000
	10550000	0010 1108 ERBMNLOG EQU X'10'	DO NOT ATTEMPT TO LOG THIS ERROR		11090000
	10560000	1109 *	NOTE: IF ANY DEVICE REQUIRES A DEVICE DEPENDENT BIT IN THIS FLAG		11100000
	10570000	1110 *	BYTE, PLEASE ASSIGN YOUR BITS STARTING WITH X'01' AND WORK		11110000
	10580000	1111 *	UP FROM THAT END.		11120000
	10590000	1112 *	WORKSTATION ERROR RECOVERY		11130000
	10600000	0008 1113 ERBMPOST EQU X'08'	TUB POSTED COMPLETE WITH ERROR (CP ONLY)		11140000
	10610000	0004 1114 ERBMIRCY EQU X'04'	THIS ERB IS IN RETRY MODE		11150000
	10620000	1115 *	THE FOLLOWING TWO BITS CX'02' AND X'01' ARE ENCODED TO DEFINE 3 ERROR		11160000
	10630000	1116 *	CONDITIONS. THE 4TH CONDITION IS UNUSED.		11170000
	10640000	0003 1117 ERBMERRR EQU 3	RESOURCES UNAVAILABLE		11180000
	10650000	0002 1118 ERBMERRR EQU 2	HARDWARE ERROR		11190000
	10660000	0001 1119 ERBMERRR EQU 1	PROGRAMMING ERROR		11200000
	10670000	1120 *	EQU 0		11210000
	10680000	1121 *			11220000
	10690000	1122 *	DISK, DISKETTE, AND 1255 ERROR RECOVERY		11230000
	10700000	0001 1123 ERBPTASK EQU X'01'	POST TASK HAVING I/O ERROR TO CALL THE		11240000
	10710000	1124 *	I/O ERROR TRANSIENT BACK INTO STORAGE.		11250000
	10720000	1125 *			11260000
	10730000	1126 *	MLCA ERROR RECOVERY		11270000
	10740000	0001 1127 ERBCELOG EQU X'01'	IF ON LOG TO CE TRACE AREA		11280000
	10750000	1128 *	IF OFF LOG TO USER TRACE AREA		11290000
	10760000	1129 *			11300000
RJB	10770000	0006 1130 ERBDCPA EQU ERBDFLG+1	C P AID (OLD EQUATE VALUE)		11310000

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71	TIME 02:15	DATE 81/12/88	SPL/3 VERSION 08/28/80	PAGE 72	TIME 02:15	DATE 81/12/88	SPL/3 VERSION
IF	DD	LINE	SOURCE				IF DD LINE
		3833	GENCTITLE 'MAIN STORAGE IPL - START FILE REBUILD, #MSBLD';			01280000	3833 DT
		3834	/*			01290000	3834 DT
		3835	/*			01300000	3835 DT
		3836	/* FILE REBUILD, #MSBLD, IS CONSIDERED AS PART OF IPL, BUT RUNS AS			01310000	3836 DT
		3837	/* A SEPARATE TASK AND NOT UNDER THE COMMAND PROCESSOR AS IPL DOES.			01320000	3837 DT
		3838	/*			01330000	3838 DT
		3839	/* A SYSTEM COMMUNICATION AREA FLAG 'SCASMSBL' IN BYTE 'SCASMS1' IS			01340000	3839 DT
		3840	/* SET ON TO INDICATE TO ANY ROUTINES THAT WILL BE CALLED BY #MSBLD			01350000	3840 DT
		3841	/* THAT IPL IS IN PROGRESS.			01360000	3841 DT
		3842	/*			01370000	3842 DT
		3843	/* #MSBLD WILL RUN AS A DEDICATED TASK, THEREFORE NO JOBS CAN BE			01380000	3843 DT

29960000	16
29970000	16
29980000	17
29990000	17
30000000	17
30010000	18
30020000	18
30030000	18
30040000	19
30050000	19
30060000	19
30070000	20

007A 3049 TCBWFLG EQU TCBUSP5+1	WSMA INITIALIZATION STATUS.	30500000
3051 * SEE TUB MACRO (BYTE TUBWFLG) FOR BIT DEFINITIONS WITHIN TCBWFLG.		30520000
007C 3053 TCBWFLG EQU TCBWFLG+2	SME POINTER	30540000
3054 * THE FOLLOWING EQUATE IS USED TO SET ON THE X'80' BIT IN THE HIGH		30550000
3055 * BYTE OF THE SME POINTER FIELD. CURRENTLY THIS FIELD IS USED AS		30560000
3056 * A SWAP-IN COUNTER INSTEAD OF AN ADDRESS FIELD.		30570000
0080 3057 TCBWFLG EQU X'80'	SME HAS PROCESSED THIS TCB	30580000
3058 *		30590000
007D 3060 TCBX EQU TCBWFLG+1	AMOUNT OF TASK SWAPPED OUT	30610000

E03

23	V09/11/81	12/08/81	02:16
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11300000			
11310000			

MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 24	V09/11/81	12/08/81	02:16
ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT				
0006 1131 ERBDERA EQU ERBDCEPA	ERROR AID BYTE (NEW EQUATE VALUE)	11320000			
0001 1132 ERBDIER EQU X'01'	I/O ERROR HAS OCCURED	11330000			
0000 1133 ERBNORM EQU X'00'	NORMAL ER AID BYTE VALUE	11340000			
1134 *		11350000			
0008 1135 ERBDMIC EQU ERBDCEPA+2	MIC NUMBER	11360000			
1136 *		11370000			
0009 1137 ERBDOPT EQU ERBDMIC+1	MIC OPTIONS	11380000			
00F0 1138 ERBSOPD EQU X'FO'	'D' OPTION WAS TAKEN TO MESSAGE	11390000			
0080 1139 ERBSOP0 EQU X'80'	OPTION 0 WAS SELECTED	11400000			
0040 1140 ERBSOP1 EQU X'40'	OPTION 1 WAS SELECTED	11410000			
0020 1141 ERBSOP2 EQU X'20'	OPTION 2 WAS SELECTED	11420000			
0010 1142 ERBSOP3 EQU X'10'	OPTION 3 WAS SELECTED	11430000			
0008 1143 ERBAOP0 EQU X'08'	OPTION 0 IS ALLOWED	11440000			
0004 1144 ERBAOP1 EQU X'04'	OPTION 1 IS ALLOWED	11450000			
0002 1145 ERBAOP2 EQU X'02'	OPTION 2 IS ALLOWED	11460000			
0001 1146 ERBAOP3 EQU X'01'	OPTION 3 IS ALLOWED	11470000			
1147 *		11480000			
000A 1148 ERBDLNI EQU ERBDOPT+1	LENGTH OF WS TUB ERB	11490000			
1149 *		11500000			
000B 1150 ERBDACE EQU ERBDOPT+2	ACE ADDRESS	11510000			
000C 1151 ERBDLEN EQU ERBDACE+1	LENGTH OF ERB	11520000			
1152 *** END OF EXPANSION **		11530000			
1153 * FILEQU		11540000			
1155 *****		11560000			
1156 *		11570000			
1157 *	DISK FORMAT-1	11580000			
1158 *		11590000			
1159 *****		11600000			
0000 1161 FIADDFLG EQU 0	LATEST DATE INDICATOR	11620000			
005C 1162 FIAMLTST EQU C'***	FILE HAS LATEST DATE FOR THIS LABEL	11630000			
0008 1164 FIADLABL EQU FIADDFLG+8	FILE LABEL	11650000			
0001 1165 FIAMSYSF EQU X'01'	'SYSTEM FILES' MUST HAVE A LABEL WHICH	11660000			
1166 *	BEGINS WITH X'01'	11670000			
0008 1168 FIADDATE EQU FIADLABL+3	CREATION DATE	11690000			
0008 1170 FIADSDIR EQU FIADDATE	LIBRARY - START OF DIRECTORY	11710000			
000C 1172 FIADTYPE EQU FIADDATE+1	FILE TYPE	11730000			
0080 1173 FIADINDX EQU X'80'	BIT ON = INDEXED FILE	11740000			
0040 1174 FIADCONS EQU X'40'	BIT ON = CONSECUTIVE FILE	11750000			
0020 1175 FIADDIRC EQU X'20'	BIT ON = DIRECT FILE	11760000			
0010 1176 FIADDFL EQU X'10'	BIT ON = I1 UNIT, BIT OFF = F1 UNIT	11770000			
0008 1177 FIADPERM EQU X'08'	BIT ON = PERMANENT FILE ('P')	11780000			
0004 1178 FIADTEMP EQU X'04'	BIT ON = TEMPORARY FILE ('T')	11790000			
0002 1179 FIADJOB EQU X'02'	BIT ON = JOB FILE ('J')	11800000			
0001 1180 FIADSCR EQU X'01'	BIT ON = SCRATCH FILE ('S')	11810000			
000D 1182 FIADDFLG EQU FIADTYPE+1	FLAG BYTE	11830000			
1184 *****		11850000			

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TIME 02:15	DATE 81/12/08
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IF DO	LINE	SOURCE		
3889	DTANCH DS CL2	SS ADDRESS TO FREE		
3890	DTWFF DC XL2'FFFF'	CONSTANT OF -1		
3891	DTWEND EQU *			
3892	DRDP 1	DRDP BASE REGISTER USAGE		
3893	*** END OF EXPANSION **			
3894	MEMBER:		01570000	
3895	/*		/* 01580000	
3896	/*		/* 01590000	
3897	/* ATTACH A TCB TO RUN FILE REBUILD. MIBLD. IT WILL RUN IN A		/* 01600000	
3898	/* DEDICATED STATE.		/* 01610000	
3899	/*		/* 01620000	
3900	/*		/* 01630000	

SPL/3	VERSION 08/28/80	PAGE 73	TIME 02:15	DATE 81/12/08
IF DO	LINE	SOURCE		
3944	/*			
3945	/*			
3946	/*			
3947	/*			
3948	/*			
3949	/*			
3950	/*			
3951	/*			
3952	1			
3953	1			
3954	1			
3955	1			

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3103 * ATTR * RFSS * RFN * RFCSS * RFDSP * TUBCMK ... *	31040000
3104 *****	31050000
3105 * 50 * 51 * 53 * 54 * 55 * 56 * 57 *	31060000
3106 * CYSK * FMSK * DEXT@ * ATTRA * MSGID * TUBDMTX *	31070000
3107 *****	31080000
3108 * 58 * 59 * 5A * 5B * 5F *	31090000
3109 * ATTRB * TUBDGTUB * ATTRC * RESERVED *	31100000
3110 *****	31110000


E04

V09/11/81 12/08/81 02:16
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MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 25	V09/11/81 12/08/81 02:16
ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT		
02	1185 * THE FOLLOWING FOUR BIT MASKS ARE VALID ONLY IF 'FIAMINDX' IS ON *		11860000
	1186 *****		11870000
03	0080 1188 FIAMSORT EQU X'80' BIT ON = SORT KEYS		11890000
	0040 1189 FIAMMGE EQU X'40' BIT ON = MERGE KEYS		11900000
04	0010 1190 FIAMDCK EQU X'10' BIT ON = UNORDERED LOAD		11910000
	1191 * (CHECK DUPLICATE KEYS)		11920000
	0008 1192 FIAMKNG EQU X'08' BIT ON = INVALID INDEX		11930000
	1193 * (KEYSORT MAYBE IN PROCESS)		11940000
05	1195 *****		11960000
06	1196 * THE FOLLOWING BIT MASKS FOR X'80' ARE VALID ONLY IF 'FIAMINDX' IS *		11970000
	1197 * OFF *		11980000
	1198 *****		11990000
07	0080 1200 FIAMSCD EQU X'80' SECTOR MODE LIBRARIAN FILE		12010000
	1201 * (IF 'FIAMLBF' IS ON)		12020000
08	0080 1202 FIAMSCLB EQU X'80' SECURE LIBRARY		12030000
	1203 * (IF FIADRECL = X'0000')		12040000
09	0020 1205 FIAMNEW EQU X'20' BIT ON = NEW FILE		12060000
	0004 1206 FIAMSPA1 EQU X'04' SPINDLE A1 REQUESTED ORIGINALLY		12070000
	0002 1207 FIAMSPA2 EQU X'02' SPINDLE A2 REQUESTED ORIGINALLY		12080000
10	1209 * IF BOTH OF THE PREVIOUS TWO BITS ARE OFF, THEN NO ORIGINAL SPINDLE		12100000
	1210 * PREFERENCE WAS SPECIFIED		12110000
11	0001 1212 FIAMLBF EQU X'01' BIT ON = LIBRARIAN FILE		12130000
	000F 1214 FIADRECL EQU FIADSFGL+2 RECORD LENGTH		12150000
12	0010 1216 FIADHIGH EQU FIADRECL+1 HIGH ORDER BYTE OF BLOCKS/RECORDS FIELD		12170000
	0080 1217 FIAMBLN EQU X'80' BIT ON = FILE ALLOCATED WITH BLOCKS,		12180000
	1218 * BIT OFF = FILE ALLOCATED WITH RECORDS		12190000
	0012 1219 FIADBLK EQU FIADRECL+3 BLOCKS USED TO ALLOCATE THE FILE		12200000
	0012 1220 FIADRECN EQU FIADRECL+3 RECORDS USED TO ALLOCATE THE FILE		12210000
14	0011 1222 FIADLQW EQU FIADRECL+2 LIBRARY - OWNER QUEUE POINTER		12230000
15	0012 1224 FIADLQW EQU FIADLQW+1 LIBRARY - COUNT OF CURRENT USERS		12250000
16	0015 1226 FIADLSTR EQU FIADRECN+3 RELATIVE RECORD NUMBER OF NEXT RECORD		12270000
	0015 1228 FIADSMEM EQU FIADLSTR LIBRARY - START OF MEMBERS		12290000
17	0015 1230 FIADRFST EQU FIADLSTR START SSS OF RESERVED AREA FREE SPACE		12310000
	1231 * (3 BYTES)		12320000
18	0018 1233 FIADSTDA EQU FIADLSTR+3 SSS OF START OF DATA		12340000
	0018 1235 FIADENDA EQU FIADSTDA+3 SSS OF END OF EXTENT		12360000
19	001D 1237 FIADVTC EQU FIADENDA+2 RELATIVE S/D OF VTC ENTRY		12380000

MISCPR MISCPR - MAIN STORAGE
ERR LOC OBJECT CODE
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02:15	DATE 81/12/08
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SPL/3	VERSION 08/28/80	PAGE 74	TIME 02:15	DATE 81/12/08
01	IF DD	LINE	SOURCE	
		3944	/* BE UNINITIALIZED FOR AUTO START: */	02030000
		3945	/* 1. JOB QUEUE */	02040000
02		3946	/* 2. AUTO SYMBOL WRITER */	02050000
		3947	/* */	02060000
03		3948	/* NOTE: INDEX REGISTERS 1 & 2 WILL BE DESTROYED IF OP-END ROUTER */	02070000
		3949	/* (MCPART) IS CALLED, (DESTROYED BY *SWAT). */	02080000
		3950	/* */	02090000
		3951	/* */	02100000
04		3952	DD UNTIL ((MPSWATCH(1)=DNGMATEMD)); /* WAIT FOR REBUILD */	02110000
		3953	REBUILD)=0; /* SET FOR GENERAL WAIT */	02120000
		3954	GEN; /* WAIT FOR REBUILD TO COMPLETE */	02130000
05		3955	/* WAIT D-DWLOFF */	02140000

SPL/3	VERSION 08/28/80			
01	IF DD	LINE	SOURCE	
		3999	*** END OF	
02		4000		
		4001	IF AR2	
		4002	DD;	
03		4003	GEN;	
		4004		
		4005		
04		4006		
		4007	END;	
		4008	IF AR2	
05		4009	DD;	
		4010	GEN;	





16	0002 3181 TUB\$VH EQU X'10'	. TUB NOT ALLOWED OFF VERTICAL TUBCHAIN	31830000	31830000
	0008 3183 TUBONL EQU X'08'	. DEVICE ONLINE	31840000	31840000
	0004 3184 TUBR11SU EQU X'04'	. READ INPUT ISSUED TO TUB	31850000	31850000
	0002 3185 TUBR11CM EQU X'02'	. READ INPUT NOT COMPLETE	31860000	31860000
17	0001 3186 TUB\$DTCS EQU X'01'	. DATA IN CONTROL STORE	31870000	31870000
18	0003 3188 TUB\$CMD EQU TUBFLAG+1	JOB COMMAND BYTE	31890000	31890000
	0000 3190 TUB\$DA EQU X'CO'	. LOCAL WORKSTATION DEVICE ADDRESS	31910000	31910000
	00E0 3191 TUB\$PNAV EQU X'EO'	. NATIVE PRINTER DEVICE ADDRESS	31920000	31920000
19	00C0 3192 TUB\$EXEC EQU X'CO'	. EXEC I/O OPERATION CODE	31930000	31930000
	00C1 3193 TUB\$POLL EQU X'C1'	. EXEC INVITE OPERATION	31940000	31940000
20	00C2 3194 TUB\$TOLE EQU X'C2'	. QUITESCE	31950000	31950000

E06

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT		
01				#M\$CPR #M\$CPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION	PAGE 27	V09/11/81 12/08/81 02:16
02		1291 *		(VALID IN THE VTDC)	12920000	
03		0023 1293	F1ADATT2 EQU	F1ADATTR+1 ATTRIBUTE BYTE TWO - THIS BYTE IS SUPPORTED IN BOTH THE AFA AND THE VTDC EXCEPT FOR A LIBRARY FORMAT-1	12940000	
		1294 *			12950000	
		1295 *			12960000	
04		0080 1296	F1AM\$CFL EQU	X'80' SECURE FILE	12970000	
		0040 1297	F1AM\$CKPT EQU	X'40' CHECKPOINT ACTIVE FILE	12980000	
		0020 1298	F1AM\$DLTC EQU	X'20' DELETE CAPABLE FILE	12990000	
		0010 1299	F1AM\$IFIL EQU	X'10' IMMEDIATE ACCESS FILE (IFILE)	13000000	
05		0008 1300	F1AM\$GASK EQU	X'08' IFILE GAPS ADDED SINCE LAST KEYSORT	13010000	
		0025 1302	F1AD\$QNR EQU	F1ADATT2+2 OWNER QUEUE POINTER	13030000	
06		0027 1303	F1AD\$DFQ EQU	F1AD\$QNR+2 EDF QUEUE POINTER	13040000	
		0027 1305	F1AD\$RFD EQU	F1AD\$DFQ END SSS OF RESERVED AREA FREE SPACE (3 BYTES)	13060000	
		1306 *			13070000	
08		1308		*****	13090000	
		1309 *			13100000	
		1310 *		THE FOLLOWING FIELDS ARE ONLY SUPPORTED FOR INDEXED FILES	13110000	
		1311 *			13120000	
09		1312 *		NOTE: THIS AREA MUST BEGIN ON AN 8 BYTE BOUNDARY BECAUSE IT IS FREED BY ALLOCATE FOR NON-INDEXED FILES	13130000	
		1313 *			13140000	
		1314 *			13150000	
		1315		*****	13160000	
11		0028 1317	F1AD\$KEYL EQU	F1AD\$DFQ+1 KEY LENGTH	13180000	
		002A 1319	F1AD\$KEYO EQU	F1AD\$KEYL+2 KEY LOCATION	13200000	
12		002E 1321	F1AD\$STK EQU	F1AD\$KEYO+4 SSS/D OF NEXT KEY	13220000	
13		0031 1323	F1AD\$STIX EQU	F1AD\$STK+3 SSS OF START OF INDEX	13240000	
		0035 1325	F1AD\$STP EQU	F1AD\$STIX+4 SSS/D OF LAST PRIME KEY	13260000	
14		0039 1327	F1AD\$HOKY EQU	F1AD\$STP+4 SSS/D OF HIGHEST KEY IN OVERFLOW AREA	13280000	
15		0012 1329	F1AL\$ZVTA EQU	F1AD\$HOKY-F1AD\$DFQ LENGTH OF THE SECOND VTDC AREA	13300000	
		1331		*****	13320000	
		1332 *			13330000	
16		1333 *		THE FOLLOWING FIELDS ARE ONLY SUPPORTED IN THE AFA FORMAT-1 FOR INDEXED FILES	13340000	
		1334 *			13350000	
		1335 *			13360000	
17		1336		*****	13370000	
18		0038 1338	F1AD\$OKKT EQU	F1AD\$HOKY+2 KEY BUCKET POINTER	13390000	
		0038 1340	F1AD\$PCNQ EQU	F1AD\$OKKT+2 FILE POSITION CONTROL BLOCK POINTER	13410000	
		003F 1341	F1AD\$RES3 EQU	F1AD\$PCNQ+2 RESERVED FOR FUTURE USE	13420000	
19		0028 1343	F1AL\$DLD EQU	F1AD\$DFQ+1 LENGTH OF A FORMAT-1 FOR CONSECUTIVE AND	13440000	

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SPL/3	VERSION	08/28/80	SOURCE	PAGE	76	TIME	02:15	DATE	01/12/88
01	IF	DD	LINE						
2	1	4054							
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4	1	4062							
4	1	4063							

31830000	3236 *	EQU	X'80'	. SCREEN FORMAT ERROR	32370000	3290 *	
31840000	3237 *	EQU	X'40'	. NO RESPONSE TIME OUT	32380000	3291 *	
31850000	3238 *	EQU	X'20'	. TRANSMIT ACTIVITY CHECK	32390000	3292 *	
31860000	3239 *	EQU	X'10'	. ACTIVATE COMMAND FAILURE	32400000		
31870000	3240 *	EQU	X'08'	. RECEIVE PARITY CHECK	32410000	3294 * GR	
	3241 *	EQU	X'04'	. RECEIVE LENGTH CHECK	32420000	3295 *	
31890000	3242 *	EQU	X'02'	. NOT USED	32430000		
31910000	3243 *	EQU	X'01'	. EVEN/ODD TIME OUT	32440000	3297 *	
						0002 3298 TUBS	
31920000		000C 3245	TUBSENS2 EQU	TUBSENS1+1	SENSE BYTE 2	32460000	3299 *
31930000						3300 *	
31940000	3247 *	EQU	X'80'	. DEVICE HUNG BUSY	32480000	0005 3301 TUBS	
31950000	3248 *	EQU	X'40'	. LINE PARITY CHECK	32490000	3302 *	

E07

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	
12920000	02	1344 *		DIRECT FILES (40)	13450000	02	0008	1398	QH	
12940000	03	0040	1346	F1ALLGIN EQU FIADRES3+1	LENGTH OF AN F1 FOR INDEXED FILES (64)	13470000	03	1400 *		
12950000									1401 *	
12960000	04	0020	1348	F1ALLGLB EQU FIADFCIN+1	LENGTH OF A LIBRARY FORMAT-1 (32)	13490000	04	1402 *		
12970000									1403 *	
12980000		1350		*****	13510000				1404 *	
12990000		1351		*****	13520000				1405 *	
13000000	05	1352 **		THE FOLLOWING LABELS ARE USED BY \$PACK TO INDICATE THAT A SYSTEM **	13530000	05	0018	1406	QH	
13010000		1353 **		FAILURE OR PERMANENT I/O ERROR OCCURRED BEFORE \$PACK HAD COMP- **	13540000		001A	1407	QH	
		1354 **		LETELY MOVED THE FILE, WHERE PART OF THE FILE MAY HAVE BEEN **	13550000		001C	1408	QH	
13030000	06	1355 **		OVERLAYED DURING THE MOVE OPERATION. **	13560000	06	001E	1409	QH	
13040000		1356 **			13570000		0020	1410	QH	
		1357 **		IF \$PACK IS ABLE TO MOVE THE FILE SUCCESSFULLY, THESE FIELDS ARE **	13580000		0022	1411	QH	
13060000	07	1358 **		SET TO ZERO. **	13590000	07	0024	1412	QH	
13070000		1359 **			13600000		0026	1413	QH	
		1360 **		THE VALUES STORED IN THIS AREA ALLOW \$PACK TO RESTART WITHOUT **	13610000		0028	1414	QH	
13090000	08	1361 **		LOSING ANY DATA IF THE ABOVE ERROR(S) SHOULD OCCUR DURING **	13620000	08	002A	1415	QH	
13100000		1362 **		EXECUTION. **	13630000		002C	1416	QH	
13110000		1363		*****	13640000		002E	1417	QH	
13120000		1364		*****	13650000		0030	1418	QH	
13130000	09	001E	1366	F1FLAG EQU FIADVTC+1	1-BYTE FLAG INDICATING THAT RESTART OF	13670000	09	0032	1419	QH
13140000		1367 *			\$PACK IS REQUIRED FOR THIS FILE.	13680000		0034	1420	QH
13150000	10	00FF	1368	F1RESTR EQU X'FF'	SWITCH VALUE THAT IS PLACED IN F1FLAG	13690000	10	0036	1421	QH
13160000		1369 *			IF RESTART IS NECESSARY.	13700000		0038	1422	QH
13180000	11	0021	1370	F1SSTR EQU F1FLAG+3	POINTS TO START SSS OF DATA THAT HAS BEEN	13710000	11			
13200000		1371 *			MOVED BY \$PACK.	13720000				
		0027	1372	F1SEND EQU FIADDFQ	POINTS TO END SSS OF DATA THAT HAS BEEN	13730000				
13220000	12	1373 *			MOVED BY \$PACK.	13740000	12			
		1375 ***		END OF EXPANSION **		13760000				
13240000	13	1376 *		HEADR		13770000	13			
13260000		0000	1377	QHNULL EQU X'00'	MULL QUEUE HEADER VALUE	13780000				
		0001	1378	QHHLI EQU X'01'	HIGH VALUE FOR QUEUE HEADER ADDRESS	13790000				
13280000	14	0020	1379	DEQUEUE EQU X'20'	DEQUEUE REQUEST	13800000	14			
		0000	1380	QUEUE EQU X'00'	QUEUE REQUEST	13810000				
13300000	15	0080	1381	PRIOR EQU X'80'	PNK FOR PRIORITY QUEUEING	13820000	15			
		0040	1382	SYS EQU X'40'	SYSTEM QUEUE HEADER REQUEST	13830000				
13320000		0010	1383	LIFO EQU X'10'	PNK FOR LIFO QUEUEING	13840000	16			
13330000		0000	1384	FIFO EQU X'00'	PNK FOR FIFO QUEUEING	13850000				
13340000	16	0090	1385	PRIORL EQU PRIOR+LIFO	PNK FOR LIFO PRIORITY QUEUEING	13860000	16			
13350000		0080	1386	PRIORF EQU PRIOR+FIFO	PNK FOR FIFO PRIORITY QUEUEING	13870000				
13360000	17	1387 *				13880000	17			
13370000		1388 **		THE FOLLOWING QUEUE HEADERS ARE OFFSETS FROM LOCATION X'0100"		13890000				
		1389 **		IN MAIN STORE. THE QUEUE HEADERS HAVE VARIOUS FUNCTIONS		13900000				
13390000	18	1390 **		DEPENDENT ON THEIR USERS REQUIREMENTS. ANY USER OF THESE QUEUE		13910000	18			
		1391 **		READERS MUST ALSO BE AWARE THAT CONTROL STORE MAY ALSO ACCESS		13920000				
13410000		1392 **		THE HEADER ASYNCHRONOUSLY.		13930000	19			
13420000	19	0000	1394	QHIFB EQU X'00'	DISK IOS (ACE)	13950000	19			
		0002	1395	QHIO EQU X'02'	DISKETTE IOS (ACE)	13960000				
13440000		0004	1396	QHPT EQU X'04'	PRINTER IOCH (ACE)	13970000				
		0006	1397	QHASC EQU X'06'	WORKSTATION IOCH (ACE)	13980000	20			

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DATE	SPL/3	VERSION	QB/28/80	PAGE	77	TIME	02:15	DATE	SPL/3	VERSION	QB/28/80	
81/12/08	01	IF	00	LINE	SOURCE			81/12/08	01	IF	00	LINE
		3	2	4009	INVC	SPWLENG-I(25,WRD),NIPACISK-SPWLENG-I /* MOVE PARALIST */	03460000			4009	GENKTITLE	INVC
		3	2	4010	INVC	SPWLENG2(WRD),SPWLENG(WRD) /* SET LOWD ADDR	03470000			4010	/*	
		3	2	4011	CLIC	JICDPRICB(WR2),NIPACZ1 /* X.Z1 TASK?	03472000			4011	/*	
		3	2	4012	JNE	NIPACID4 /* JUMP IF NOT	03474000			4012	/* PROCESS FOR REND	
		3	2	4013	SWN	SPWFLANG(WRD),SPWFLANG /* X.Z1,SET LOGICAL=REAL	03476000			4013	/*	
		3	2	4014	NIPACID4	SHC SHCAGENT,QUEFRESH /* ATTACH AUTOCALL/X.Z1	03478000			4014	/*	
		3	2	4015	TRC	ALLZONPSSATD) /*	03480000			4015	/*	
		3	2	4016	ANDRSEN;		03500000			4016	/*	
		3	2	4017	NIPACID4	RESCWRD); /* STORE RETURN CODE	03510000			4017	/*	
		4	2	4018	IF	NIPACID4(C1-1) = 0 THEN /* DID ATTACH FAIL?	03520000			4018	/*	
		4	2	4019	TRC	/*	03520000			4019	/*	
		1								1		
		2								2		

32370000	16	3290 *	EQU X'02'	. INVALID BYTE COUNT (0 OR 04)	32910000
32380000		3291 *	EQU X'03'	. DEVICE ADDRESS NOT FOUND	32920000
32390000		3292 *	EQU X'04'	. BYTE COUNT = ACTUALLY TRANSFERED	32930000
32400000					
32410000	17	3294 * GROUP 3 -		RESOURCES TEMPORARILY NOT AVAILABLE ERRORS	32950000
32420000		3295 *		( REFERENCE TUBSENSO BIT2 )	32960000
32430000					
32440000	18	3297 *	EQU X'01'	. PRINTER BUSY DURING WRITE ATTEMPT	32980000
		0002 3298 TUB\$DEAD	EQU X'02'	. WS IN ERROR MODE	32990000
32460000		3299 *	EQU X'03'	. DEVICE OFFLINE ERROR	33000000
	19	3300 *	EQU X'04'	. PRINTER NEEDS INITIALIZATION	33010000
32480000		0005 3301 TUB\$NRMD	EQU X'05'	. NOT READY DUE TO OPERATOR ERROR MODE	33020000
32490000	20	3302 *		OR SYS REQ MODE	33030000

E08

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	
13450000	02	0008 1398 QHDICOMM	EQU X'08'	COMMUNICATIONS IOCH (ACE)	13990000
		000A 1399 QHDIOXNT	EQU X'0A'	I/O XIENT AREA (ACE)	14000000
13470000	03	1400 *	EQU X'0C'	RESERVED	14010000
		1401 *	EQU X'0E'		14020000
13490000		1402 *	EQU X'10'		14030000
		1403 *	EQU X'12'		14040000
13510000	04	1404 *	EQU X'14'		14050000
13520000		1405 *	EQU X'16'		14060000
13530000	05	0018 1406 QHDICXNT	EQU X'18'	CONTROL STORAGE XIENT SCHEDULER (ACE)	14070000
13540000		001A 1407 QHDITWA	EQU X'1A'	TASK WORK AREA ACCESS (ACE)	14080000
13550000		001C 1408 QHDLOAD	EQU X'1C'	M.S. RELOCATING LOADER (ACE)	14090000
13560000		001E 1409 QHDKBTR	EQU X'1E'	KEYBOARD TRACE (ACE)	14100000
13570000	06	0020 1410 QHDPT1	EQU X'20'	PRINTER QUEUE HEADER 1 (ACE)	14110000
13580000		0022 1411 QHDPT2	EQU X'22'	PRINTER QUEUE HEADER 2 (ACE)	14120000
13590000		0024 1412 QHDPT3	EQU X'24'	PRINTER QUEUE HEADER 3 (ACE)	14130000
13600000	07	0026 1413 QHDPT4	EQU X'26'	PRINTER QUEUE HEADER 4 (ACE)	14140000
13610000		0028 1414 QHDPT5	EQU X'28'	PRINTER QUEUE HEADER 5 (ACE)	14150000
13620000		002A 1415 QHDPT6	EQU X'2A'	PRINTER QUEUE HEADER 6 (ACE)	14160000
13630000	08	002C 1416 QHDPT7	EQU X'2C'	PRINTER QUEUE HEADER 7 (ACE)	14170000
13640000		002E 1417 QHDPT8	EQU X'2E'	PRINTER QUEUE HEADER 8 (ACE)	14180000
13650000	09	0030 1418 QHDFDA	EQU X'30'	SPINDLE A QUEUE HEADER (ACE)	14190000
		0032 1419 QHDFDB	EQU X'32'	SPINDLE B QUEUE HEADER (ACE)	14200000
13670000		0034 1420 QHDFDC	EQU X'34'	171 SPINDLE C QUEUE HEADER	14210000
13680000		0036 1421 QHDFDD	EQU X'36'	171 SPINDLE D QUEUE HEADER	14220000
13690000	10	0038 1422 QHDIOA	EQU X'38'	DISKETTE ACTIVE QUEUE (ACE)	14230000
13700000		1423 *	EQU X'3A'	RESERVED	14240000

D08

TIME	DATE	SPL/3	VERSION	DATE	PAR	TIME	DATE
02:15	81/12/08	01	08/28/80	81/12/08	38	02:15	81/12/08
		02					
		03					
		04					

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32920000
32930000
32950000
32960000
32980000
32990000
33000000
33010000
33020000
33030000

16	3345 *	3346 *	SEE THE ERBDCTL FIELD OF THE ERB MACRO FOR ASSOCIATED MASKS.	33470000
	3347 *			33480000
17	0017 3349 TUBERBFG EQU TUBERPCT+1	ERB FLAG BYTE		33500000
18	3351 *	3352 *	SEE THE ERBDPLG FIELD OF THE ERB MACRO FOR ASSOCIATED MASKS.	33520000
	3353 *			33540000
19	0018 3355 TUBERAID EQU TUBERBFG+1	ERROR AID FLAG BYTE		33560000
20	001A 3356 TUBNIC EQU TUBERAID+2	ERP MESSAGE ID CODE		33570000

16	0080
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E09

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MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 30	V09/11/81 12/08/81 02:16
ERR LOC	OBJECT CODE	ADDR	STMT SOURCE STATEMENT
02		003C 1425 QHDTIMER EQU X'3C'	INTERVAL TIMER TQE QUEUE (TQE) 14260000
		003E 1426 QHDTIMEA EQU X'3E'	INTERVAL TIMER ACE QUEUE (ACE) 14270000
03		0041 1427 QHDSPTCB EQU X'41'	CURRENT TASK EXECUTING (TCB) 14280000
		0042 1428 QHDXIENT EQU X'42'	MAIN STORAGE TRANSIENT SCHEDULER (TCB) 14290000
		0044 1429 QHDPRIQ EQU X'44'	TCB PRIORITY QUEUE (TCB) 14300000
04		0046 1430 QHDTCBQ EQU X'46'	TCB READY QUEUE (TCB) 14310000
		0048 1431 QHDTTC EQU X'48'	TASK-TASK COMM (ACE) 14320000
		004A 1432 QHDSQE EQU X'4A'	STATUS QUEUE HEADER (PL ) 14330000
05		004C 1433 QHDCNLG EQU X'4C'	CONSOLE SYSLOG (PL ) 14340000
		004E 1434 QHDCILK EQU X'4E'	CONSOLE SYSLOG INTERLOCK (AQE) 14350000
		0050 1435 QHDTRM EQU X'50'	TERMINATION/RELEASE (PL ) 14360000
06		0052 1436 QHDFILK EQU X'52'	REJECT FILE INTERLOCK (AQE) 14370000
		0054 1437 QHDCPOCL EQU X'54'	OCL COMMAND REQUESTS (PL ) 14380000
		0056 1438 QHDSQB EQU X'56'	SECTOR QUEUE BLOCKS (SQB) 14390000
07		0058 1439 QHDCSCQ EQU X'58'	CONTROL STORE COMPLETE QUEUE (ACE) 14400000
		005A 1440 QHDTUB EQU X'5A'	TERMINAL UNIT BLOCK QUEUE (TUB) (TUB) 14410000
		005C 1441 QHDCOM1 EQU X'5C'	COMMUNICATIONS LINE 1 (ACE) 14420000
08		005E 1442 QHDCOM2 EQU X'5E'	COMMUNICATIONS LINE 2 (ACE) 14430000
		0060 1443 QHDCOM3 EQU X'60'	COMMUNICATIONS LINE 3 (ACE) 14440000
		0062 1444 QHDCOM4 EQU X'62'	COMMUNICATIONS LINE 4 (ACE) 14450000
09		0064 1445 QHDTLK EQU X'64'	DEDICATION INTERLOCK (AQE) 14460000
		0066 1446 QHDSILK EQU X'66'	SCHEDULER INTERLOCK (AQE) 14470000
		0068 1447 QHDSVILK EQU X'68'	VTDC INTERLOCK (AQE) 14480000
10		006A 1448 QHDSILK EQU X'6A'	FORMAT FIVE INTERLOCK (AQE) 14490000
		006C 1449 QHDPILK EQU X'6C'	PROC NAME INTERLOCK (AQE) 14500000
		006E 1450 QHDSHIST EQU X'6E'	HISTORY FILE INTERLOCK (AQE) 14510000
11		0070 1451 QHDSQPT EQU X'70'	ASSIGNED PAGES QUEUE HEADER (APE) 14520000
		0072 1452 QHDCSB EQU X'72'	COMMUNICATIONS SPECIFICATION QUEUE (CSB) 14530000
		0074 1453 QHDSRB EQU X'74'	ERROR RECORDING BLOCK QUEUE HEADER (ERB) 14540000
12		0076 1454 QHDSG EQU X'76'	GENERAL WAIT QUEUE HEADER (ACE) 14550000
		0078 1455 QHDSSEC EQU X'78'	SECURITY QUEUE HEADER (PL ) 14560000
		007A 1456 QHSDLOC EQU X'7A'	LOCATION OF NODE DICTIONARY (PL ) 14570000
13		1457 * EQU X'7C'	RESERVED 14580000
		007E 1458 QHDSNA EQU X'7E'	SNA TASK QUEUE HEADER 14590000
		0080 1459 QHDSQS EQU X'80'	WORKSTATION QUEUE SPACE (FQE) 14600000
14		0082 1460 QHDSQS EQU X'82'	SYSTEM QUEUE SPACE (FQE) 14610000
		1461 * --- THRU ---	14620000
		1462 * EQU X'8E'	RESERVED 14630000
15		0090 1463 QHINDEX EQU X'90'	INQUIRY EXIT QUEUE (ACE) 14640000
		0092 1464 QHQUAL EQU X'92'	QUEUED ACQUIRE INTERFACE LIST (PL ) 14650000
		0094 1465 QHDPRT EQU X'94'	REMOTE PRINTER QUEUE (ACE) 14660000
16		0096 1466 QHDSCT EQU X'96'	SUBSYSTEM CONFIGURATION TABLE (PL ) 14670000
		0098 1467 QHDTUNF1 EQU X'98'	TUN EXTENSION F1 CHAIN (F1 ) 14680000
		009A 1468 QHDEXTRA EQU X'9A'	EXTENDED TRACE (PL ) 14690000
17		009C 1469 QHDSUBCN EQU X'9C'	SUBCONSOLE SYSLOG (PL ) 14700000
		009E 1470 QHDSUBRA EQU X'9E'	SUBCONSOLE REASSIGN (PL ) 14710000
		00A0 1471 QHDEIB EQU X'9D'	ERROR INFORMATION BLOCK (EIB) 14720000
18		00A2 1472 QHDSACE EQU X'92'	NS GET PAGE ACE (ACE) 14730000
		00A4 1473 QHDSGLF EQU X'94'	GENERAL LOGGING FACILITY PWWLIST (PL ) 14740000
		00A6 1474 QHDEXPM EQU X'96'	EXPM QUEUE (QMS) 14750000
19		00A8 1475 QHDPRTI EQU X'98'	PRT TERMINATION INTERLOCK 14760000
		00AA 1476 QHDPULH EQU X'9A'	MULT SNA LINE INTERLOCK (AQE) 14770000
		00AC 1477 QHDSPLK EQU X'9C'	SPOOL FILE INTERLOCK (AQE) 14780000
20		00AE 1478 QHDKZ1 EQU X'9E'	NCLA X.21 (ACE) 14790000

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D09

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SPL/3	VERSION 08/28/80	PAGE 79	TIME 02:15	DATE 01/12/08
IF DD	LINE	SOURCE		
1	4205	ENDC		04430000
2	4206	IF %ZEND,%REGORL=%REGORL%>NOO THEN /* TCB FOUND?	04445000	04440000
3	4207	IF %RRI->TCBSTAT2=%TCBSTAT1 THEN /* AND ITS WAITING?	04455000	04450000
3	4208	ENDC /* YES, START IT UP	04465000	04460000
3	4209	%RRI->TCBSTAT2=%RRI->TCBSTAT1%>NOO THEN /* SET TASK ID	04475000	04470000
3	4210	ENDC		04480000
3	4211	/* POST TASK-TCBWAIT /* POST STARTUP TASK	04495000	04490000
3	4212	SNC %SNCPOST,%D		
3	4213	ENDC %L1(%TCBWAIT)		
3	4214	**** END OF EXPANSION ****		
3	4215	ENDC		

SPL/3	VERSION 08/28/80			
IF DD	LINE	SOURCE		
1	4260			
1	4261			
1	4262	**** END OF		
1	4263	****		
1	4264	****		
1	4265			
1	4266			
1	4267	**** END OF		
1	4268	****		
1	4269			
1	4270	****		

33460000	16
33470000	
33480000	
33500000	17
33520000	
33530000	18
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33560000	19
33570000	20

0080 3395 TUBMCHN EQU X'80'	. MASTER CONSOLE	33960000	16
0040 3396 TUBACHN EQU X'40'	. ALTERNATE CONSOLE	33970000	
0020 3397 TUBCHDT EQU X'20'	. COMMAND TERMINAL(CON)-DATA TERM(OFF)	33980000	
0010 3398 TUBSGN EQU X'10'	. TERMINAL SIGNED ON	33990000	17
0008 3399 TUBTSRQ EQU X'08'	. TEST REQUEST MODE	34000000	
0004 3400 TUBSTPJ EQU X'04'	. JOB INITIATION NOT ALLOWED	34010000	
0002 3401 TUBLIOFR EQU X'02'	. WSMA FORMATTED WITH LIO DISPLAY	34020000	18
0001 3402 TUBFCNSL EQU X'01'	. CONSOLE MODE FORCED BY I/O ERROR	34030000	
0036 3404 TUBATTR2 EQU TUBATTR1+1	TERMINAL MODE AND DISPLAY	34050000	19
3406	*****	34070000	20

33960000	16
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(AQE)	14370000		
(PL)	14380000		
(SQB)	14390000		
(ACE)	14400000		
(TUB)	14410000		
(ACE)	14420000		
(ACE)	14430000		
(ACE)	14440000		
(ACE)	14450000		
(AQE)	14460000		
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(CSB)	14530000		
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(ACE)	14640000		
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(FL)	14680000		
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(PL)	14700000		
(PL)	14710000		
(EIB)	14720000		
(ACE)	14730000		
(PL)	14740000		
(ONS)	14750000		
14760000			
(AQE)	14770000		
(AQE)	14780000		
(ACE)	14790000		

MISCPR MISCP - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 31	V09/11/81	12/08/81	02:16	
ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT		
02		1479 *	----	THRU ----	14800000	
		1480 *		EQU X'BE' RESERVED	14810000	
		1481 ***		END OF EXPANSION **	14820000	
03		1482 *		ICSCA	14830000	
		1483		*****	14840000	
		1484 *			14850000	
04		1485 *		ICF	14860000	
		1486 *			14870000	
		1487 *		COMMUNICATION AREA	14880000	
05		1488 *			14890000	
		1489		*****	14900000	
06		0000 1491	ICADSYS EQU 0	. BEGINNING OF ICF COMM AREA	14920000	
		1492 *			14930000	
		0001 1493	ICADLSUB EQU ICADSYS+1	2 LAST SUB ID USED	14940000	
07		1494 *			14950000	
		0002 1495	ICAD#2KP EQU ICADLSUB+1	1 SIZE OF ICF CQS IN 2K PAGES	14960000	
		1496 *			14970000	
08		0004 1497	ICADSSQS EQU ICAD#2KP+2	2 ADDR OF SSQS QUEUE HEADER	14980000	
		1498 *			14990000	
		0005 1499	ICADCMTN EQU ICADSSQS+1	1 ICF TRACE INDICATOR	15000000	
09		0080 1500	ICAMPLTR EQU X'80'	LINE 0 TRACE ON (INTRA)	15010000	
		1501 *		EQU X'40' RESERVED	15020000	
		1502 *		EQU X'20' RESERVED	15030000	
10		1503 *		EQU X'10' RESERVED	15040000	
		0008 1504	ICAMPL4TR EQU X'08'	LINE 4 TRACE ON	15050000	
		0004 1505	ICAMPL3TR EQU X'04'	LINE 3 TRACE ON	15060000	
11		0002 1506	ICAMPL2TR EQU X'02'	LINE 2 TRACE ON	15070000	
		0001 1507	ICAMPL1TR EQU X'01'	LINE 1 TRACE ON	15080000	
		1508 *			15090000	
12		0008 1509	ICADTRSV EQU ICADCMTN+3	3 RESERVED FOR ICF TRACE	15100000	
		1510 *			15110000	
		000A 1511	ICAD3270 EQU ICADTRSV+2	2 ADDRESS OF 3270 CONTROL BLOCK	15120000	
13		0001 1512	ICAP3270 EQU X'01'	. FIELD INTERLOCK	15130000	
		1513 *			15140000	
		000C 1514	ICAD0001 EQU ICAD3270+2	2 CONSTANT X'0001'	15150000	
		1515 *			15160000	
14		000E 1516	ICADTRAP EQU ICAD0001+2	2 ADDRESS OF ICFDM TRACE ROUTINE	15170000	
		1517 *			15180000	
15		000F 1518	ICADTRST EQU ICADTRAP+1	. START OF ICFDM TRACE ROUTINE	15190000	
		1519 *		NOTE: THE FOLLOWING AREA IS THE ICFDM TRACE SUBROUTINE WHEN	15200000	
		1520 *		TRACE IS NOT ACTIVE. ITS FUNCTION IS TO ADD 1 TO THE ARR	15210000	
16		1521 *		(TO SKIP OVER PARM BYTE) AND RETURN TO CALLER.	15220000	
		1523 *	L	1,(,XR2),XR2 XR2 -> USPL	3	15240000
17		1524 *	A	ICAD0001(,1),ARR INCREMENT ARR - SKIP OVER PARM	3	15250000
		1525 *	ST	ICADTRST(,XR1),ARR STORE RETURN ADDRESS	3	15260000
		1526 *	L	WOTUB(,XR2),XR1 XR1 -> SUB	3	15270000
18		1527 *	B	# RETURN TO CALLER	4	15280000
		001E 1528	ICADTRRT EQU ICADTRST+16-1	16 END OF ICFDM TRACE ROUTINE		15290000
		1529 *				15300000
19		002A 1530	ICADICSV EQU ICADTRRT+12	12 RESERVED FOR ICFDM TRACE		15310000
		1531 *				15320000
20		002C 1532	ICADICTB EQU ICADICSV+2	2 TCB ADDR OF ICF TRANSIENT OWNER		15330000

MISCPR MISCP - MAIN S					
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SPL/3	VERSION	08/28/80	PAGE	80	TIME	02:15	DATE	81/12/08
01	IF	DD	LINE	SOURCE				
	1	2	4260	SVC SMCMAINIT_0				
	1	2	4261	BC ALL(CICBMAINIT)				
02	1	2	4262	*** END OF EXPANSION ***				
	1	2	4263	REEDJ	/** TERMINATE WAIT ROUTINE 000145*/ 04780000			
	1	2	4264	* LINKAGE TO END OF JOB ROUTINES				
03	1	2	4265	SVC X'04',X'00' REEDJ SVC				
	1	2	4266	BC X'11'04' REEDJ REEDJ				
	1	2	4267	* END OF EXPANSION				
04	1	2	4268	*** END OF EXPANSION ***				
	1	2	4269	RENDGEN;				
	1	3	4270	END;				

SPL/3	VERSION	08/28/80	PAGE	80	TIME	02:15	DATE	81/12/08
01	IF	DD	LINE	SOURCE				
			4315	SMCSPD				
			4316	SMCSPAT				
02			4317	SMCSPSS				
			4318	SMCSPTR				
			4319	SMCSPTR				
03			4320	SMCSPTR				
			4321	SMCSPSS				
			4322	SMCSPTR				
04			4323	SMCSPTR				
			4324	SMCSPTR				
			4325	SMCSPTR				

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0039 3448 TUBATRS EQU TUBATR4+1	RELEASE INDICATORS	34490000
0080 3450 TUBORY EQU X'80'	. RESTORE-Y ON OCL STATEMENT	34510000
0040 3451 TUBORN EQU X'40'	. RESTORE-N ON OCL STATEMENT	34520000
0020 3452 TUBLOP EQU X'20'	. LAST OP TO THE TUB WAS A PUT	34530000
0010 3453 TUBRSW EQU X'10'	. RELEASE STOP INV WORKED	34540000
0008 3454 TUBRSF EQU X'08'	. RELEASE STOP INV FAILED	34550000
0004 3455 TUBREL EQU X'04'	. TUB HAS BEEN RELEASED	34560000
0002 3456 TUBSRQ EQU X'02'	. SRT HAS RELEASED REQUESTOR	34570000
0001 3457 TUBABTRM EQU X'01'	. CALL TERMINATOR PRIOR TO RELEASE	34580000
003A 3459 TUBATR6 EQU TUBATR5+1		34600000

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01	ERR LOC OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	
02		1533 *			15340000
03		002D 1534 ICADXFLG EQU ICADXTCB+1	1	FLAG BYTE	15350000
04		0080 1535 ICAPXBSY EQU X'80'		ICF TRANSIENT AREA BUSY	15360000
05		0040 1536 ICAPXWTR EQU X'40'		WAIT ON ICF TRANSIENT WAIT REQUEST	15370000
06		0020 1537 ICAPXWTA EQU X'20'		WAIT ON ICF TRANSIENT AREA	15380000
07		1538 *	EQU X'10'	RESERVED	15390000
08		1539 *	EQU X'08'	RESERVED	15400000
09		1540 *	EQU X'04'	RESERVED	15410000
10		1541 *	EQU X'02'	RESERVED	15420000
11		1542 *	EQU X'01'	RESERVED	15430000
12		1543 *			15440000
13		002F 1544 ICADICDE EQU ICADXFLG+2	2	STORAGE ADDRESS OF #ICDE	15450000
14		1545 *			15460000
15		0030 1546 ICADSIFG EQU ICADICDE+1	1	FLAG BYTE FOR SYSTEM INTERCONNECT	15470000
16		0080 1547 ICAPSDAT EQU X'80'	*	SDDM IS BEING ATTACHED	15480000
17		1548 *		BITS 1-7 RESERVED CURENTLY	15490000
18		1549 *			15500000
19		0032 1550 ICADSISS EQU ICADSIFG+2	2	SDDM USER COUNT	15510000
20		1551 *			15520000
01		0034 1552 ICADSISS EQU ICADSISS+2	2	SDDM TCB ADDRESS	15530000
02		1553 *			15540000
03		003F 1554 ICADRESV EQU ICADSISS+11	11	RESERVED	15550000
04		1555 *			15560000
05		0040 1556 ICANLENG EQU ICADRESV+1		LENGTH OF ICF COMM AREA	15570000
06		1557 *			15580000
07		1558 ***		END OF EXPANSION **	15590000
08		1559 *		JCBEQ	15600000
09		1561 *		*****	15620000
10		1562 *			15630000
11		1563 *		JOB CONTROL BLOCK	15640000
12		1564 *			15650000
13		1565 *		*****	15660000
14		0000 1567 JCBDINIT EQU 0		INITIATOR SWITCH BYTE	15680000
15		0080 1568 JCBDINTRA EQU X'80'		IN INTRA NODE (LOAD STATEMENT RECEIVED)	15690000
16		0040 1569 JCBDINTRG EQU X'40'		PROGRAM RUNNING (BETWEEN RUN STATEMENT AND TERMINATION)	15700000
17		1570 *			15710000
18		0020 1571 JCBDINTRR EQU X'20'		IN INTER NODE (BETWEEN TERMINATION AND LOAD STATEMENT)	15720000
19		1572 *			15730000
20		0010 1573 JCBDINTRH EQU X'10'		IGNORE NO-HIST PROCEDURE ATTRIBUTE	15740000
01		0008 1574 JCBDINTRP EQU X'08'		THIS IS A PART JOB	15750000
02		0004 1575 JCBDINRSC EQU X'04'		NO SOURCE REQUIRED	15760000
03		0002 1576 JCBDINRSD EQU X'02'		LOAD STMT RECEIVED THIS SESSION	15770000
04		0001 1577 JCBDINRSL EQU X'01'		LOAD STMT RECEIVED THIS JOB	15780000
05		0001 1579 JCBDINTZ EQU JCBDINIT+1		INITIATOR SWITCH BYTE TWO	15800000
06		0080 1580 JCBDINRGN EQU X'80'		JOB REGION RECEIVED	15810000
07		0040 1581 JCBDINRCL EQU X'40'		LOCAL DATA AREA IS IN STORAGE	15820000
08		0030 1582 JCBDINRPL EQU X'30'		HIGH PRIORITY HAS BEEN SPECIFIED	15830000
09		0020 1583 JCBDINRPM EQU X'20'		MEDIUM PRIORITY HAS BEEN SPECIFIED	15840000
10		0010 1584 JCBDINRPLR EQU X'10'		LOW PRIORITY HAS BEEN SPECIFIED	15850000
11		1585 *		X'30' BITS OFF = NORMAL PRIORITY	15860000
12		0008 1586 JCBDINRPC EQU X'08'		IN A PROCEDURE	15870000

01	ERR LOC OBJECT CODE	ADDR
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SPL/3	VERSION 08/28/80	PAGE 81	TIME 02:15	DATE 81/12/08
01	IF DD	LINE	SOURCE	
02		4315	SWATSPDOL EQU SWATCREAT+SWATHEAL+SWATINTRA+SWATPRIV START SPDOL	
03		4316	SWATSWATCH EQU SWATCREAT+SWATHEAL+SWATINTRA START SWATCH	
04		4317	SWATSSOZ EQU SWATFLNG+1 *2K BLOCKS OF MAIN STORAGE	
05		4318	SWATPRIOR EQU SWATSSOZ+1 *2K PRIORITY OF MAIN TASK	
06		4319	SWATLADR EQU SWATPRIOR+2 TUB ADDRESS	
07		4320	SWATJCBADR EQU SWATLADR JCB ADDRESS	
08		4321	SWATSSSN EQU SWATLADR+4 *SSSN VALUE OF NEXT TRANSIENT	
09		4322	SWATFLNGCL EQU SWATSSSN+1 *SECOND FLNG BYTE	
10		4323	SWATREFRSH EQU X'80' *REFRESH UNCOND. IF ATACH SUCC.	
11		4324	SWATCOMMON EQU X'40' *PRG. HAS COMMON	
12		4325	SWATCONTR EQU X'20' *PRG. CONTROL TO INITIATOR	

SPL/3	VERSION 08/28/80	
01	IF DD	LINE
02		4370 *SWATPRIVC SW
03		4371 *SWATPRIVC SW
04		4372 *SWATPRIVC SW
05		4373 *SWATPRIVC SW
06		4374 *SWATPRIVC SW
07		4375 *SWATPRIVC SW
08		4376 *SWATPRIVC SW
09		4377 *SWATPRIVC SW
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11		4379 *SWATPRIVC SW
12		4380 *SWATPRIVC SW

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16	0048 3503 TUBATTR9 EQU TUBHELM+1	ATTRIBUTE BYTE 8	35040000
17	0080 3505 TUBBADGE EQU X'80'	. THIS TUB HAS BADGE SECURITY	35060000
17	0040 3506 TUB960 EQU X'40'	. THIS TUB IS FOR A 960 CHAR SCREEN	35070000
17	0020 3507 TUBMENU2 EQU X'20'	. DISPLAY PAGE 2 OF MENU ON 960	35080000
18	0010 3508 TUBMRTSC EQU X'10'	. MRT SECURITY SWITCH	35090000
18	0008 3509 TUBSVRD EQU X'08'	. REJECT IN READY FUNCTION	35100000
18	0004 3510 TUBSVR1 EQU X'04'	. ERROR DURING SAVE - STATUS OR CNSL SYSLG	35110000
19	0002 3511 TUBSVR2 EQU X'02'	. ERROR DURING SAVE - SYS REQ OR INQUIRY	35120000
19	0001 3512 TUBRDYPD EQU X'01'	. READY TASK IS PENDING	35130000
20	3514 *	REJECT FILE INDEX	35150000

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MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 33 V09/11/81 12/08/81 02:16	
01	ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT	
02	15880000	0004 1587 JCBMUSLB EQU X'04'	PROGRAM (JCBDFPROG) WAS FOUND IN USER LIBRARY (JCBDFCLB)
03	15900000	0002 1589 JCBMRSNP EQU X'02'	ENQUEUE RESOURCES WITH NEP ATTRIBUTE
03	15910000	0001 1590 JCBMWRTP EQU X'01'	MRT PROGRAM
04	15930000	0002 1592 JCBDSCH1 EQU JCBDFINT2+1	SCHEDULER BYTE ONE
04	15940000	0080 1593 JCBMPUCL EQU X'80'	PROGRAM HAS UTILITY CONTROL STATEMENTS
04	15950000	0040 1594 JCBMXPREF EQU X'40'	RUN OXREF AT TERMINATION
05	15960000	0020 1595 JCBMRTWA EQU X'20'	FIRST SYSIN RECORD IS IN TWA
05	15970000	0010 1596 JCBMFLUC EQU X'10'	FLUSH UTILITY CONTROL STATEMENTS
05	15980000	0008 1597 JCBMDEAD EQU X'08'	PROGRAM IS DEDICATED
06	15990000	0004 1598 JCBMWTCD EQU X'04'	DMY DATE - WORLD TRADE
06	16000000	0002 1599 JCBMDDPD EQU X'02'	MDY DATE - DOMESTIC
06	16010000	0001 1600 JCBMYDD EQU X'01'	YMD DATE - INTERNATIONAL
07	16030000	0003 1602 JCBDSCH2 EQU JCBDSCH1+1	SCHEDULER BYTE TWO
07	16040000	0080 1603 JCBMOPCL EQU X'80'	OPEN OR CLOSE ERROR
08	16050000	0040 1604 JCBMPTRY EQU X'40'	PRTY COMMAND EXECUTED PRIOR TO START OF JOB
08	16060000	1605 *	JOB
08	16070000	0020 1606 JCBMNEP EQU X'20'	PROGRAM IS A NEP
09	16080000	0010 1607 JCBMPTCH EQU X'10'	JOB QUEUE PROGRAM
09	16090000	0008 1608 JCBMTCRC EQU X'08'	INCLUDE STATEMENT RECEIVED
09	16100000	0004 1609 JCBMOPRD EQU X'04'	ALLOCATE - DON'T PREPARE THE DISKETTE
10	16110000	0002 1610 JCBMINDP EQU X'02'	INQUIRY LATCH SET
10	16120000	0001 1611 JCBMINDI EQU X'01'	NON-INQUIRABLE PROGRAM
11	16140000	0004 1613 JCBDSCH3 EQU JCBDSCH2+1	SCHEDULER BYTE THREE
11	16150000	0080 1614 JCBMSEDI EQU X'80'	SYSLG - SUPPRESS 2 OPTION HALT
11	16160000	0040 1615 JCBMSOFF EQU X'40'	SYSLIST OFF SELECTED BY HALT OPTION
12	16170000	0020 1616 JCBMSPRT EQU X'20'	SYSLIST PRINTER SELECTED BY HALT OPTION
12	16180000	0010 1617 JCBMREST EQU X'10'	RESERVE STATEMENT RECEIVED THIS JOB
12	16190000	0008 1618 JCBMSCRT EQU X'08'	SYSLIST CRT SELECTED BY HALT OPTION
13	16200000	0004 1619 JCBMEOP EQU X'04'	END OF OUTER-POST PROCEDURE
13	16210000	0002 1620 JCBMRLNQ EQU X'02'	INQUIRY JOB
13	16220000	0001 1621 JCBMSRC EQU X'01'	TERMINATION - DISPLAY RETURN CODE
14	16240000	0005 1623 JCBMNLK EQU JCBDSCH3+1	SCHEDULER INTERLOCK BYTE
14	16250000	0080 1624 JCBMSLOG EQU X'80'	SYSLG TRANSIENT CALLED
15	16260000	0040 1625 JCBMSYSN EQU X'40'	SYSLIN TRANSIENT CALLED
15	16270000	0020 1626 JCBMOKAL EQU X'20'	DISKETTE FILE ALLOCATED, BUT NOT CLOSED
15	16280000	0010 1627 JCBMINDV EQU X'10'	DISKETTE VTDC ON DISK
16	16290000	0008 1628 JCBMINDU EQU X'08'	DISKETTE VTDC UPDATED
16	16300000	0004 1629 JCBMCSM EQU X'04'	RESUME - CALL *CSM
16	16310000	0002 1630 JCBMSELT EQU X'02'	AUTO-LOADER DISKETTE SELECTED
17	16320000	0001 1631 JCBMRESE EQU X'01'	RESET STATEMENT RECEIVED
17	16340000	0006 1633 JCBMUPS1 EQU JCBMNLK+1	UPS1 SWITCH BYTE
18	16350000	0080 1634 JCBMUPS1 EQU X'80'	UPS1 SWITCH ONE
18	16360000	0040 1635 JCBMUPS2 EQU X'40'	UPS1 SWITCH TWO
18	16370000	0020 1636 JCBMUPS3 EQU X'20'	UPS1 SWITCH THREE
19	16380000	0010 1637 JCBMUPS4 EQU X'10'	UPS1 SWITCH FOUR
19	16390000	0008 1638 JCBMUPS5 EQU X'08'	UPS1 SWITCH FIVE
19	16400000	0004 1639 JCBMUPS6 EQU X'04'	UPS1 SWITCH SIX
20	16410000	0002 1640 JCBMUPS7 EQU X'02'	UPS1 SWITCH SEVEN

MISCPR MISCPR - MAIN S	
01	ERR LOC OBJECT CODE
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D12

TIME 02:15	DATE 81/12/08
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SPL/3	VERSION 08/28/80	PAGE 82	TIME 02:15	DATE 81/12/08
01	IF DD	SOURCE		
01	4370	*OFFLINE SWAPP V-DC, TYPE-D, NAME=DCNC, SKIP-USER	04970000	
02	4371	SPACE		
02	4372	* PARAMETER LIST FOR SYSTEM FIND		
02	4373	SPACE		
03	4374	INFPDRC EQU *		
03	4375	DC ALL(CED) MEMBER TYPE		
03	4376	DC ALL("DCNC") MEMBER NAME		
03	4377	DC ALL(C128C) SEARCH SYS LIBR AND		
04	4378	* RETURN DIRECTORY ENTRY		
04	4379	DC ALL(D) OUTPUT BY SYSTEM FIND		
04	4380	* END OF EXPLANATION OF SWAPP		

SPL/3	VERSION 08/28/80
01	IF DD
01	4425
02	4426
02	4427
02	4428
03	4429
03	4430
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35110000
35120000
35130000
35150000

16	3556 * EQU X'01'	RESERVED	3570000
17	0053 3557 TUBDXTA EQU TUBFMASK+2	REMOTE WORKSTATIONS TUB (RMT)	3590000
17	3558 * NOTE: THE ABOVE EQUATE IS THE DISPLAY STATION TUB POINTER		3590000
17	3559 * TO THE RMS TUB. SEE PRINTER EQUATES FOR THE PRINTER		3600000
17	3560 * TUB'S POINTER TO THE RMS TUB.		3610000
18	0054 3561 TUBATTRA EQU TUBDXTA+1	ATTRIBUTE BYTE 10	3620000
18	0080 3562 TUBCLRAD EQU X'80'	CLEAR AIDS	3630000
18	0040 3563 TUB\$LOCK EQU X'40'	LOCK CONTROL	3640000
18	0020 3564 TUB\$OFF EQU X'20'	OFF DCL STATEMENT RECEIVED	3650000
19	0010 3565 TUB\$HOLD EQU X'10'	HOLD PARAMETER FOR OFF COMMAND	3660000
19	3566 *	NOTE THAT IF THIS BIT IS NOT ON	3670000
19	3567 *	I.T. INDICATES THE DOP PARAMETER	3680000
20	0008 3568 TUBSUBCN EQU X'08'	SUBCONSOLE WORKSTATION	3690000

16	0028 3607 TUBPETA EQU TUBPETA+2	REMOTE WORKSTATION TUB ADDRESS (PRINTERS)	3690000
16	0027 3608 TUBPRESH EQU TUBPRESH+1	RESERVED BYTE	3690000
16	0028 3609 TUBPFIN EQU TUBPFIN+4	FORMS NUMBER	3610000
17	0028 3610 TUBPFLN EQU TUBPFLN+1	FORMS LENGTH (LINES/PAGE)	36110000
17	0020 3611 TUBPFLM EQU TUBPFLM+1	CURRENT LINE	36120000
17	0028 3612 TUBPMP EQU TUBPMP+1	MAX PRINT POSITION (HORIZONTAL)	36130000
18	0028 3613 TUBPST EQU TUBPST+1	PRINTER STATUS BYTE	36140000
18	0000 3614 TUBPERR EQU X'00'	POST USER ON ERROR MESSAGE	36150000
18	0040 3615 TUBPSTP EQU X'40'	PRINTER PAST READY	36160000
19	0020 3616 TUBPXTB EQU X'20'	THIS PRINTER TUB HAS AN ADDITION	36170000
19	3617 * EQU X'10'	RESERVED	36180000
19	3618 * EQU X'08'	RESERVED	36190000
20	3619 * EQU X'04'	RESERVED	36200000

E13

E14

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15880000		
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MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION				PAGE 34	09/11/81	12/08/81	02:16
01	ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT					
02	0001 1641 JCBMUPS8 EQU X'01'	UPS1 SWITCH EIGHT	1640000				
03	0009 1643 JCBDDATE EQU JCBDDUPS+3	SESSION DATE	1640000				
03	000C 1645 JCBDPDAT EQU JCBDDATE+3	PROGRAM DATE	1640000				
04	000E 1647 JCBDSLST EQU JCBDPDAT+2	SYSLIST INDICATOR - PRINTER ID	1640000				
04	0000 1648 JCB\$LOFF EQU X'0000'	X'0000' = OFF	1640000				
04	EEEE 1649 JCB\$LCRT EQU X'EEEE'	X'EEEE' = CRT	1640000				
05	0010 1651 JCBDCRLB EQU JCBDSLST+2	CURRENT LIBRARY F3 POINTER	1650000				
05	0012 1652 JCBDFSBL EQU JCBDCRLB+2	LIBRARY F30 CHAIN POINTER	1650000				
06	0014 1654 JCBDFSBF EQU JCBDFSBL+2	FILE F30 CHAIN POINTER	1650000				
07	0016 1656 JCBOWSBP EQU JCBDFSBF+2	WSB CHAIN POINTER	1650000				
08	0018 1658 JCBOWSPB EQU JCBOWSBP+2	PSB CHAIN POINTER	1650000				
09	0020 1660 JCB01PRC EQU JCBOWSPB+8	NAME OF FIRST LEVEL PROCEDURE	1660000				
09	1661 *	CMPT PROCEDURE NAME IF JOBMPT IS IN USE	1660000				
09	1662 *	THIS JOB IS PRINTED TO BY THE MTS (JOB)	1660000				
10	0028 1664 JCB0PRG EQU JCB01PRC+8	PROGRAM NAME	1660000				
11	0029 1666 JCB0STAT EQU JCB0PRG+1	STATUS BYTE	1660000				
11	0080 1667 JCBMPLIN EQU X'80'	WAITING FOR PRINTER	1660000				
11	0040 1668 JCBMPLM EQU X'40'	WAITING FOR COMMUNICATION LINE	1660000				
11	0020 1669 JCBMPLK EQU X'20'	WAITING FOR DISKETTE	1660000				
12	0010 1670 JCBMPLSK EQU X'10'	WAITING FOR DISK SPACE	1670000				
12	0008 1671 JCBMPLINT EQU X'08'	EMULATOR WAITING FOR RESOURCES	1670000				
12	0004 1672 JCBMPLPK EQU X'04'	WAITING FOR A PRT OVER PRINT	1670000				
13	0002 1673 JCBMPLSOP EQU X'02'	HALT PENDING TO SYSTEM OPERATOR	1670000				
13	0001 1674 JCBMPLXTD EQU X'01'	FILE EXTENSION IN PROCESS	1670000				
14	002A 1676 JCB0RGSZ EQU JCB0STAT+1	REGION SIZE (STEP)	1670000				
14	002B 1678 JCB0CTAG EQU JCB0RGSZ+1	CURRENT TAG IN PPSA	1670000				
15	002D 1680 JCB0SLOB EQU JCB0CTAG+2	SYSLIST I/O ADDRESS	1680000				
16	002F 1682 JCB0RTCD EQU JCB0SLOB+2	RETURN CODE (OIC)	1680000				
16	0031 1684 JCB0DXTA EQU JCB0RTCD+2	JOB EXTENSION ADDRESS	1680000				
17	0033 1686 JCB0PMS1 EQU JCB0DXTA+2	RELATIVE SS OF PROGRAM MESSAGE HERE	1680000				
17	0035 1688 JCB0PMS2 EQU JCB0PMS1+2	RELATIVE SS OF PROGRAM MESSAGE HERE	1680000				
18	0037 1688 JCB0MSR1 EQU JCB0PMS2+2	RELATIVE SS OF USER MESSAGE HERE	1680000				
18	0039 1689 JCB0MSR2 EQU JCB0MSR1+2	RELATIVE SS OF USER MESSAGE HERE	1680000				
18	003B 1690 JCB0PGL1 EQU JCB0MSR2+2	PROGRAM LIBRARY FORMAT-1 ADDRESS	1690000				
18	003D 1691 JCB0PGL2 EQU JCB0PGL1+2	PROGRAM LIBRARY FORMAT-1 ADDRESS	1690000				
19	003F 1692 JCB0URL1 EQU JCB0PGL2+2	USER1 LIBRARY FORMAT-1 ADDRESS	1690000				
19	0041 1693 JCB0URL2 EQU JCB0URL1+2	USER2 LIBRARY FORMAT-1 ADDRESS	1690000				

MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION				PAGE 35	09/11/81	12/08/81	02:16
01	ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT					
02	0043 1695 JCB0MPL EQU JCB0URL2+2	RELATIVE SS OF MENU MESSAGE MEMBER	1690000				
02	0045 1696 JCB0MPL EQU JCB0MPL+2	MENU LIBRARY FORMAT-1 ADDRESS	1690000				
03	0047 1698 JCB0RBD EQU JCB0MPL+2	JOB NAME (JOB)	1690000				
04	0048 1700 JCB0LPG EQU JCB0RBD+1	LINES/PAGE	1700000				
04	004C 1702 JCB0FND EQU JCB0LPG+4	FORMS NUMBER	1700000				
05	0040 1704 JCB0SLC EQU JCB0FND+1	SYSLIST CRT LINE COUNTER	1700000				
06	004E 1706 JCB0MFT EQU JCB0SLC+1	NUMBER OF FORMATS FOUND	1700000				
06	0050 1708 JCB0FIB EQU JCB0MFT+2	ADDRESS OF FORMAT INDEX	1700000				
07	0052 1710 JCB0CIB EQU JCB0FIB+2	ADDRESS OF COMPILER INFORMATION BLOCK	1710000				
08	0054 1712 JCB0FIB EQU JCB0CIB+2	ADDRESS OF FIRST OIC ON CHAIN	1710000				
08	0055 1714 JCB0SLR EQU JCB0FIB+1	SYSLIST CRT LINES REQUESTED	1715000				
09	0056 1716 JCB0RGS EQU JCB0SLR+1	REGION SIZE (DEFAULT)	1710000				
10	0057 1718 JCB0RGS EQU JCB0RGS+1	REGION SIZE (JOB)	1710000				
10	005E 1720 JCB0FIB EQU JCB0RGS+7	MENU FORMAT INDEX (NON-RELEASED US JOBS)	1720000				
11	005H 1722 JCB0ST EQU JCB0FIB+3	JOB QUEUE JOB START TIME (JOBQ JOBS)	1720000				
11	005I 1722 JCB0ST EQU JCB0ST+2	SESSION PRINTER ID (RELEASED US JOBS)	1720000				
12	0061 1724 JCB0JNM EQU JCB0ST+3	JOB NAME (LINE STAMP)	1720000				
12	0062 1726 JCB0SIB EQU JCB0JNM+1	SCHEDULER BYTE FIVE	1720000				
13	0060 1728 JCB0SIB EQU JCB0SIB+5	LANGUAGE COMPILER BYTE	1720000				
13	0060 1728 JCB0SIB EQU X'00'	SEARCH SYSTEM LIBRARY ONLY	1720000				
13	0040 1729 JCB0SIB EQU X'40'	SYSLIST END MESSAGE REQUIRED	1730000				
14	0020 1730 JCB0SIB EQU X'20'	LIST RPG	1730000				
14	0010 1731 JCB0SIB EQU X'10'	SYSLIST 'INDEX' SPECIFIED	1730000				
14	0000 1732 JCB0SIB EQU X'00'	15 CPT SPECIFIED ON FORMS STATEMENT	1730000				
15	1733 * EQU X'04'		1730000				
15	1734 * EQU X'02'		1730000				
15	1735 * EQU X'01'		1730000				
16	0063 1733 JCB0SIB EQU JCB0SIB+1	SCHEDULER BYTE FOUR	1730000				
16	0060 1734 JCB0SIB EQU X'00'	JOB TERMINATION INTERLOCK	1730000				
17	0040 1739 JCB0SIB EQU X'40'	FLUSH INLINE SOURCE	1740000				
17	0020 1740 JCB0SIB EQU X'20'	PROGRAM HAS INLINE SOURCE	1740000				
17	0010 1741 JCB0SIB EQU X'10'	INITIATOR DID NOT INITIATE THIS TASK	1740000				
18	0008 1742 JCB0SIB EQU X'08'	SECURED RESOURCE ALLOCATED BY THIS INIT	1740000				
18	0000 1743 JCB0SIB EQU X'04'	ENDED PROCEDURE	1740000				
18	0002 1744 JCB0SIB EQU X'02'	SET SPool FILE EOF AT LAST CHECK POINT	1740000				
19	0001 1745 JCB0SIB EQU X'01'	ERROR INFORMATION BLOCK PRESENT (EIB)	1740000				
20	005 1747 JCB0SIB EQU JCB0SIB+2	CSB CHAIN POINTER	1740000				

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D14

02-15	DATE 81/12/08
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SPL/3				VERSION 08/28/80	PAGE 10	TUE 12-15	DATE 81/12/08
01	UFF	LINE	SOURCE				
02	4425	****					
02	4426	*					
02	4427	MUFFPMS1 EQU *	*				
02	4428	MUFFPMS1 EQU *ALB'DO'	INITIATED VARIAB. MESSAGE PARLIST				
03	4429	ORG MUFFPMS1+CONCLUS1-CPONC1					
03	4430	DC MUFFPMS1+CONCLUS1S+CONCLUS1L+CONCLUS1R+CONCLUS1T					
03	4431	ORG MUFFPMS1+CONCLUS2-CPONC1	SWITCH 2				
04	4432	DC MUFFPMS1+CONCLUS2					
04	4433	ORG MUFFPMS1+CONCLUS2-CPONC1-1	MTC				
04	4434	DC MUFFPMS1+CONCLUS2					
04	4435	ORG MUFFPMS1+CONCLUS2					

SPL/3				VERSION 08/28/80	PAGE 04	TUE 12-15	DATE 81/12/08
01	UFF	LINE	SOURCE				
02	440	DC AL100	NUMBER OF TEST SECTIONS	0250000			
02	441	DC AL100	ILD DISPLACEMENT	0250000			
02	442	SPACE 2		0250000			
02	443	DC 04*MSB	SPool IPL TRANSMIT	0250000			
03	444	MUFFPBL EQU *		0250000			
03	445	DC AL3'00	MODULE 555	0250000			
03	446	DC AL100	NUMBER OF TEST SECTIONS	0250000			
04	447	DC AL100	ILD DISPLACEMENT	0250000			
04	448	SPACE 2		0250000			
04	449	DC 04*MSB	HISTORY FILE INITIALIZE	0250000			
04	440	MUFFPBL EQU *		0250000			

35570000	16	0026 3607 TUBPXTA EQU	TUBCPDN+2	REMOTE WORKSTATION TUB ADDRESS (PRINTERS)	36080000
35580000		0027 3608 TUBPRESV EQU	TUBPXTA+1	RESERVED BYTE	36090000
35590000		0028 3609 TUBPFMD EQU	TUBPRESV+4	FORMS NUMBER	36100000
35600000		002C 3610 TUBPFMLN EQU	TUBPFMD+1	FORMS LENGTH (LINES/PAGE)	36110000
35610000	17	002D 3611 TUBPCRLN EQU	TUBPFMLN+1	CURRENT LINE	36120000
35620000		002E 3612 TUBPYKPP EQU	TUBPCRLN+1	MAX PRINT POSITION (HORIZONTAL)	36130000
35630000		002F 3613 TUBOPRST EQU	TUBPYKPP+1	PRINTER STATUS BYTE	36140000
35640000	18	0080 3614 TUBSPUM EQU	X'80'	. POST USER ON ERROR MESSAGE	36150000
35650000		0040 3615 TUBSDPST EQU	X'40'	. PRINTER PAST READY	36160000
35660000		0020 3616 TUBSEXTD EQU	X'20'	. THIS PRINTER TUB HAS AN ADDITION	36170000
35670000	19	3617 * EQU	X'10'	. RESERVED	36180000
35680000		3618 * EQU	X'08'	. RESERVED	36190000
35690000	20	3619 * EQU	X'04'	. RESERVED	36200000

0002 3661 TAMP5A EQU	2	TAG 2 - PROCEDURE PARAM SAVE AREA
0003 3662 TAMP5B EQU	3	TAG 3 - PROCEDURE PARAM SAVE AREA
0004 3663 TAMP5C EQU	4	TAG 4 - PROCEDURE PARAM SAVE AREA
0005 3664 TAMP5D EQU	5	TAG 5 - PROCEDURE PARAM SAVE AREA
0006 3665 TAMP5E EQU	6	TAG 6 - PROCEDURE PARAM SAVE AREA
0007 3666 TAMP5F EQU	7	TAG 7 - PROCEDURE PARAM SAVE AREA
0008 3667 TAMP5G EQU	8	TAG 8 - LOCAL AREA
0009 3668 TAMP5H EQU	9	TAG 9 - LOCAL AREA
000A 3669 TAMP5I EQU	10	TAG 10 - SYSTEM SAVE AREA
000C 3670 TAMP5J EQU	11	TAG 11 - PRT DATA SAVE AREA
000C 3671 TAMP5K EQU	12	TAG 12 - SAVE/RESTORE AREA (LENGTH)
000C 3672 TAMP5L EQU	12	USER SAVE AREA (12-22)
0017 3673 TAMP1N EQU	23	INQUIRY SAVE AREA (23-33)

008/81 02:16		MISCPR MISCP - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION			PAGE 35	09/11/81 12/08/81 02:16
ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT		
16420000	02	0043 1695	JCBDMENU EQU	JCBDMENL+2	RELATIVE SS OF MENU MESSAGE MEMBER	16400000
16440000		0045 1696	JCBDMENL EQU	JCBDMENU+2	MENU LIBRARY FORMAT-1 ADDRESS	16410000
16460000	03	0047 1698	JCBDJ8ID EQU	JCBDMENL+2	JOB NAME (ID)	16490000
16480000	04	0048 1700	JCBDLMPG EQU	JCBDJ8ID+1	LINES/PAGE	17010000
16490000		004C 1702	JCBDFMND EQU	JCBDLMPG+4	FORMS NUMBER	17030000
16500000	05	004D 1704	JCBDSLLC EQU	JCBDFMND+1	SYSLIST CRT LINE COUNTER	17050000
16520000		004E 1706	JCBDNFTF EQU	JCBDSLLC+1	NUMBER OF FORMATS FOUND	17070000
16530000	06	0050 1708	JCBDFINB EQU	JCBDNFTF+2	ADDRESS OF FORMAT INDEX	17090000
16570000	07	0052 1710	JCBDCIBB EQU	JCBDFINB+2	ADDRESS OF COMPILER INFORMATION BLOCK	17110000
16590000	08	0054 1712	JCBDDTFA EQU	JCBDCIBB+2	ADDRESS OF FIRST DTF ON CHAIN	17130000
16610000		0055 1714	JCBDSLLR EQU	JCBDDTFA+1	SYSLIST CRT LINES REQUESTED	17150000
16620000	09	0056 1716	JCBDDFRG EQU	JCBDSLLR+1	REGION SIZE (DEFAULT)	17170000
16630000		0057 1718	JCBDJBRG EQU	JCBDDFRG+1	REGION SIZE (JOB)	17190000
16670000	10	005E 1720	JCBDMENF EQU	JCBDJBRG+7	MENU FORMAT INDEX (NON-RELEASED WS JOBS)	17210000
16680000		005A 1721	JCBDJQST EQU	JCBDMENF+3	JOB QUEUE JOB START TIME (JOBQ JOBS)	17220000
16690000	11	005C 1722	JCBDSPTD EQU	JCBDJQST+2	SESSION PRINTER ID (RELEASED WS JOBS)	17230000
16710000		0061 1724	JCBDJOBM EQU	JCBDMENF+3	JOB NAME (TIME STAMP)	17250000
16720000	12	0062 1726	JCBDSCH5 EQU	JCBDJOBM+1	SCHEDULER BYTE FIVE	17270000
16730000		0062 1727	JCBDLANG EQU	JCBDSCH5	LANGUAGE COMPILER BYTE	17280000
16740000	13	0080 1728	JCBNSYLB EQU	X'80'	SEARCH SYSTEM LIBRARY ONLY	17290000
16750000		0040 1729	JCBNSYLG EQU	X'40'	SYSLIST END MESSAGE REQUIRED	17300000
16770000		0020 1730	JCBNLIST EQU	X'20'	LIST RPG	17310000
16790000	14	0010 1731	JCBNEXM EQU	X'10'	SYSLIST "NDEXM" SPECIFIED	17320000
		0008 1732	JCBNSLCP EQU	X'08'	15 CPI SPECIFIED ON FORMS STATEMENT	17330000
16810000	15	1733 * EQU	X'04'		17340000	
		1734 * EQU	X'02'		17350000	
		1735 * EQU	X'01'		17360000	
16830000	16	0063 1737	JCBDSCH4 EQU	JCBDLANG+1	SCHEDULER BYTE FOUR	17380000
16850000		0080 1738	JCBNPLK EQU	X'80'	JOB TERMINATION INTERLOCK	17390000
16870000	17	0040 1739	JCBNPLS EQU	X'40'	FLUSH INLINE SOURCE	17400000
16880000		0020 1740	JCBNPLS EQU	X'20'	PROGRAM HAS INLINE SOURCE	17410000
16890000		0010 1741	JCBNPLK EQU	X'10'	INITIATOR DID NOT INITIATE THIS TASK	17420000
16900000	18	0008 1742	JCBNSPL EQU	X'08'	SECURED RESOURCE ALLOCATED BY THIS PRT	17430000
16910000		0004 1743	JCBNSPR EQU	X'04'	ENCODED PROCEDURE	17440000
16920000		0002 1744	JCBNSPCK EQU	X'02'	SET SPOOL FILE EOF AT LAST CHECK POINT	17450000
16930000	19	0001 1745	JCBNSPR EQU	X'01'	ERROR INFORMATION BLOCK PRESENT (E18)	17460000
16940000	20	0065 1747	JCBNSCP EQU	JCBDSCH+2	CSB CHAIN POINTER	17480000

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT		
000 1749	JCBUSER EQU	JCBOSCP+8		USER ID		
006 1751	JCBOSB EQU	JCBOSB+2		SYSTEM BUFFER ADDRESS		
006 1752	JCBOLCLB EQU	JCBOSB+2		LOCAL DATA AREA ADDRESS		
0070 1754	JCBOLATH EQU	JCBOSB+1		LENGTH OF A JOB		
1756				*****		
1757 *						
1758 *				JOB EXTENSION		
1759 *						
1760				*****		
0001 1762	JCBOSB EQU	1		SESSION SPECIFICATION BLOCK P		
0003 1763	JCBOSB EQU	JCBOSB+2		CHECK POINT CONTROL BLOCK P		
0005 1764	JCBOSB EQU	JCBOSB+2		PHONE LIST CHAIN POINTER		
0008 1766	JCBOLPI EQU	JCBOLPI+1		LPI VALUE		
0004 1767	JCBOLPI EQU	X'04'		4 LPI SPECIFIED ON FORMS STATE		
0006 1768	JCBOLPI EQU	X'06'		6 LPI SPECIFIED ON FORMS STATE		
0008 1769	JCBOLPI EQU	X'08'		8 LPI SPECIFIED ON FORMS STATE		
000F 1771	JCBOSB EQU	JCBOLPI+9		RESERVED AREA		
0010 1772	JCBOLG EQU	JCBOSB+1		LENGTH OF JOB EXTENSION		
1773 **				END OF EXPANSION **		
1774 *				INDEX		
1775				*****		
1776 *				MAIN STORAGE NUCLEUS		
1777				*****		
1778				*****		
1779 *	ADDR	NVCE		SIZE (HEX) SIZE (DEC)		
1780				*****		
1781 *	0000	FIXED NUCLEUS	1000	40%		
1782				*****		
1783				*****		
1784 *	0000	SYSTEM COMMUNICATION AREA 0100	756			
1785 *						
1786 *	0100	ACE QUEUE HEADERS	0000	192		
1787 *						
1788 *	0100	MULTI-PURPOSE I/O	0020	32		
1789 *						
1790 *	0100	CS TRANSFER LOWER I/O	0000	32		
1791 *						
1792 *	0200	COMMAND PROCESSOR I/O	0000	128		
1793 *						
1794 *	0200	TASK WORK AREA INDEX	0003	35		
1795 *						
1796 *	0203	TASK WORK AREA QUEUE HDR	0005	5		
1797 *						
1798 *	0208	DISKETTE ERROR LOG AREA	0038	56		
1799 *						
1800 *	0200	SYSTEM LIBRARY FORMAT-1	0020	32		
1801 *						
1802 *	0300	A/D TRACE ACE	0010	16		

SPL/3	VERSION 08/28/80	PAGE 04	TITLE 02:15	DATE 01/12/80	
IF	NO	LINE	SOURCE		
4480		01C	ALI(00)	NUMBER OF TEXT SECTIONS	05850000
4481		01C	ALI(00)	RLD DISPLACEMENT	05860000
4482			SPACE 2		05870000
4483		01C	CL4"MSPP"	SPOOL IPL TRANSPARENT	05880000
4484			WPPSPPL EQU *		05890000
4485		01C	ALI(00)	MODULE SSS	05900000
4486		01C	ALI(00)	NUMBER OF TEXT SECTIONS	05910000
4487		01C	ALI(00)	RLD DISPLACEMENT	05920000
4488			SPACE 2		05930000
4489		01C	CL4"MSPP"	HISTORY FILE INITIALIZE	05940000
4490			WPPSPPL EQU *		05950000

YOU USED	2275 SYMBOLS.
LENGTH OF MODULE IS	3074

36090000	16	0003 3662 TWPMP56 EQU 3	TAG 3 - PROCEDURE PARM SAVE AREA	36630000	16	3716 ***
36100000		0004 3663 TWPMP57 EQU 4	TAG 4 - PROCEDURE PARM SAVE AREA	36640000		3717 **
36110000		0005 3664 TWPMP58 EQU 5	TAG 5 - PROCEDURE PARM SAVE AREA	36650000		3718 ***
36120000	17	0006 3665 TWPMP59 EQU 6	TAG 6 - PROCEDURE PARM SAVE AREA	36660000	17	3719 ***
36130000		0007 3666 TWPMP60 EQU 7	TAG 7 - PROCEDURE PARM SAVE AREA	36670000		
36140000		0008 3667 TWPMP61 EQU 8	TAG 8 - PROCEDURE PARM SAVE AREA	36680000		
36150000	18	0009 3668 TWPMP62 EQU 9	TAG 9 - LOCAL AREA	36690000	18	3721 ***
36160000		000A 3669 TWPMP63 EQU 10	TAG 10- SYSIN SAVE AREA	36700000		3722 * G
36170000		000B 3670 TWPMP64 EQU 11	TAG 11- MRT DATA SAVE AREA	36710000		3723 ***
36180000	19	000C 3671 TWPMP65 EQU 12	TAG 12- SAVE/RESTORE AREA (LENGTH=33)	36720000	19	0080 3724 XEX
36190000		000C 3672 TWPMP66 EQU 12	USER SAVE AREA (12-22)	36730000		0040 3725 XEA
36200000	20	0017 3673 TWPMP67 EQU 23	INQUIRY SAVE AREA (23-33)	36740000	20	0020 3726 XEB

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01 12/08/81 02:16		*MSCPR *MSCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION				PAGE 36 V09/11/81 12/08/81 02:16		01 *MSCPR *MSCPR - MAIN STORAGE IPL - C		
ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT			ERR LOC	OBJECT CODE	ADDR	STMT
16960000	02	006D 1749	JCBUSER EQU	JCBDCSBP+8 USER ID		17500000	1803 *			
16970000							1804 *			
16990000	03	006F 1751	JCBDBFRB EQU	JCBDBFRB+2 SYSIN BUFFER ADDRESS		17520000	1805 *			
		006F 1752	JCBDLCLB EQU	JCBDBFRB+2 LOCAL DATA AREA ADDRESS		17530000	1806 *			
17010000		0070 1754	JCBLLNTH EQU	JCBDBFRB+1 LENGTH OF A JCB		17550000	1807 *			
17030000	04	1756	*****	*****		17570000	1808 *			
		1757 *				17580000	1809 *			
17050000	05	1758 *		JCB EXTENSION		17590000	1810 *			
		1759 *				17600000	1811 *			
17070000	06	1760	*****	*****		17610000	1812 *			
17090000		0001 1762	JCBSSBA EQU	1 SESSION SPECIFICATION BLOCK POINTER		17630000	1813 *			
		0003 1763	JCBDCCB EQU	JCBSSBA+2 CHECK POINT CONTROL BLOCK POINTER		17640000	1814 *			
17110000	07	0005 1764	JCBPLST EQU	JCBDCCB+2 PHONE LIST CHAIN POINTER		17650000	1815 *			
17130000		0006 1766	JCBPLP EQU	JCBPLST+1 LPI VALUE		17670000	1816 *			
		0004 1767	JCBMLP EQU	X'04' 4 LPI SPECIFIED ON FORMS STATEMENT		17680000	1817 *			
17150000	08	0006 1768	JCBMLP EQU	X'06' 6 LPI SPECIFIED ON FORMS STATEMENT		17690000	1818 *			
		0008 1769	JCBMLP EQU	X'08' 8 LPI SPECIFIED ON FORMS STATEMENT		17700000	1819 *			
17170000	09	000F 1771	JCBERSV EQU	JCBPLP+9 RESERVED AREA		17720000	1820 *			
17190000		0010 1772	JCBDELNG EQU	JCBERSV+1 LENGTH OF JCB EXTENSION		17730000	1821 *			
17210000	10	1773	*** END OF EXPANSION **			17740000	1822 *			
17220000		1774 *	NUCEQ	MAIN STORAGE NUCLEUS EQUATES		17750000	1823 *			
17230000	11	1775	*****	*****		17760000	1824 *			
		1776 *		MAIN STORAGE NUCLEUS		17770000	1825 *			
17250000		1777	*****	*****		17780000	1826 *			
17270000	12	1778	*****	*****		17790000	1827 *			
17280000		1779 *	ADDR	NAME SIZE (HEX) SIZE (DEC) LABEL *		17800000	1828 *			
17290000		1780	*****	*****		17810000	1829 *			
17300000	13	1781 *	0000	FIXED NUCLEUS 1000 4096 NUFIXNUC *		17820000	1830 *			
17310000		1782	*****	*****		17830000	1831 *			
17320000		1783	*****	*****		17840000	1832 *			
17330000	14	1784 *	0000	SYSTEM COMMUNICATION AREA 0100 256 NUSCA *		17850000	1833 *			
17340000		1785 *				17860000	1834 *			
17350000		1786 *	0100	ACE QUEUE HEADERS 00C0 192 NUSACEQH *		17870000	1835 *			
17360000	15	1787 *				17880000	1836 *			
17380000		1788 *	01C0	MULTI-PURPOSE IOB 0020 32 NUSMP10B *		17890000	1837 *			
17390000		1789 *				17900000	1838 *			
17400000	16	1790 *	01E0	CS TRANSIENT LOADER IOB 0020 32 NUSX10B *		17910000	1839 *			
17410000		1791 *				17920000	1840 *			
17420000		1792 *	0200	COMMAND PROCESSOR TCB 0080 128 NUSCPTCB *		17930000	1841 *			
17430000	17	1793 *				17940000	1842 *			
17440000		1794 *	0280	TASK WORK AREA INDEX 0023 35 NUSWPAUX *		17950000	1843 *			
17450000		1795 *				17960000	1844 *			
17460000	18	1796 *	0283	TASK WORK AREA QUEUE HDR 0005 5 NUSWPAUX *		17970000	1845 *			
17470000		1797 *				17980000	1846 *			
17480000	19	1798 *	028B	DISKETTE ERROR LOG AREA 0038 56 NUSWDT0B *		17990000	1847 *			
		1799 *				18000000	1848 *			
		1800 *	02E0	SYSTEM LIBRARY FORMAT-1 0020 32 NUSPLNF1 *		18010000	1849 *			
		1801 *				18020000	1850 *			
	20	1802 *	0300	A/D TRICE ACE 0010 16 NUSTRICE *		18030000	1851 *			

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DATE 81/12/08	4500 SYMBOL VERSION OF THE ASSEMBLER WAS USED.	ERR LOC OBJECT CODE	ADDR STMT
YOU USED	2291 SYMBOLS.		
LENGTH OF MODULE IS	12779		



37170000	16
37180000	
37190000	
37200000	17
37220000	18
37230000	
37240000	
37250000	19
37260000	
37270000	20

001F 3769 RCPTC EQU X'1F'	COMMON PROCESSOR TRAC-TRAC	37700000
0020 3770 RSETX EQU X'20'	SET EXIT	37710000
0021 3771 RUDDB EQU X'21'	KEY TRANSLAT	37720000
0022 3772 RSWNR EQU X'22'	"	37730000
0023 3773 RUDDG EQU X'23'	"	37740000
0024 3774 RUDAF EQU X'24'	"	37750000
0025 3775 RUDDD EQU X'25'	"	37760000
0026 3776 RUDDA EQU X'26'	"	37770000
0027 3777 ROFFLINE EQU X'27'	OFFLINE IN DATA AREA	37780000
0028 3778 RUDDH EQU X'28'	KEY TRANSLAT	37790000
0029 3779 RUDDQ EQU X'29'	"	37800000
002A 3780 RUDCP EQU X'2A'	"	37810000

000 00	0009 3022 DC X'11'0'	3815	38230000
000 00	000A 3023 PS0A000 EQU *	3815	38240000
	3824 1/2	*/	38250000
	3825 1/2	*/	38260000
	3826 1/2	*/	38270000
	3827 1/2	*/	38280000
	3828 1/2	*/	38290000
	3829 1/2	*/	38300000
	3830 1/2	*/	38310000
	3831 1/2	*/	38320000
000 F 0 0 0	3832 SVC SWISSISSN,0 ASSIGN REQUEST		38330000
000 000	000E 3833 DC ALZJCBLLNTH) ASSIGN LENGTH		38340000

E7

E18

09/11/81	12/08/81	02:16
18040000	02	
18050000		
18060000	03	
18070000		
18080000		
18090000	04	
18100000		
18110000		
18120000	05	
18130000		
18140000		
18150000	06	
18160000		
18170000		
18180000	07	
18190000		
18200000		
18210000	08	
18220000		
18230000		
18240000	09	
18250000		
18260000		
18270000	10	
18280000		
18290000		
18300000	11	
18310000		
18320000		
18330000	12	
18340000		
18350000		
18360000	13	
18370000		
18380000		
18390000	14	
18400000		
18410000		
18420000	15	
18430000		
18440000		
18450000	16	
18460000		
18470000		
18480000	17	
18490000		
18500000		
18510000	18	
18520000		

MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION				PAGE 39	09/11/81	12/08/81	02:16
ERR LOC OBJECT CODE	ADDR	STMT	SOURCE STATEMENT				
	1853 *			18540000			
	0000 1854 NUFIXNXC EQU X'00'		MAIN STORAGE ACCESS - FIXED AREA	18550000			
	1855 *			18560000			
	0000 1856 NUBSCA EQU NUFIXNXC		SYSTEM COMMUNICATION AREA	18570000			
	0100 1857 NULSCA EQU 256 *		(LENGTH OF AREA)	18580000			
	1858 *			18590000			
	0100 1859 NUBACEQH EQU NUBSCA		SYSTEM QUEUE HEADERS	18600000			
	00C0 1860 NULACEQH EQU 192 *		(LENGTH OF AREA)	18610000			
	1861 *			18620000			
	01C0 1862 NUBMPTIOB EQU NUBACEQH		MULTI-QUEUE IOB	18630000			
	0020 1863 NULENTIOB EQU 32 *		(LENGTH OF AREA)	18640000			
	1864 *			18650000			
	01E0 1865 NUBCXIOB EQU NUBMPTIOB		TRANSIENT LOWER IOB	18660000			
	1866 *			18670000			
	0200 1867 NUBCPTCB EQU NUBCXIOB		COMMAND PROCESSOR IOB	18680000			
	0002 1868 NUBCPTAH EQU X'02'		COMMAND PROCESSOR IOB (HEX)	18690000			
	0080 1869 NULCPTCB EQU 128 *		(LENGTH OF AREA)	18700000			
	1870 *			18710000			
	0280 1871 NUBTMAXL EQU NUBCPTCB		TRANSIENT MAX (LEFT)	18720000			
	0023 1872 NULTMAX EQU 35		(LENGTH OF MAXIMUM ENTRIES)	18730000			
	02A2 1873 NUBTMAXR EQU NUBTMAXL		TRANSIENT MAX (RIGHT)	18740000			
	1874 *			18750000			
	1875 *	NOTE:	TASK MAX AREA SPACE IS INDICATED BY A TRACE PER	18760000			
	1876 *		BYTE. THE FIRST BYTE INDICATES THE START OF THE TASK	18770000			
	1877 *		WORK AREA IN THE I/OB.	18780000			
	1878 *			18790000			
	02A3 1879 NUBTMAX EQU NUBTMAXL		TRANSIENT MAX AREA QUEUE ELEMENT	18800000			
	0005 1880 NULTMAX EQU 5		(LENGTH OF AREA)	18810000			
	1881 *			18820000			
	02A8 1882 NUBRDIOB EQU NUBTMAX		SYSTEM DISKETTE IOB (CURRENT AREA)	18830000			
	0038 1883 NULRDIOB EQU 56 *		(LENGTH OF AREA)	18840000			
	1884 *			18850000			
	02E0 1885 NUBMLBF1 EQU NUBRDIOB		ALTERNATE RESIDENT FORMAT-1	18860000			
	0020 1886 NULMLBF1 EQU 32 *		(LENGTH OF AREA)	18870000			
	1887 *			18880000			
	0300 1888 NUBTRACE EQU NUBMLBF1		TRACE LOGIC ACE	18890000			
	0010 1889 NULTRACE EQU 16 *		(LENGTH OF AREA)	18900000			
	1890 *			18910000			
	0310 1891 NUBTRACE EQU NUBTRACE		ALTERNATE SECTOR ACE	18920000			
	1892 *			18930000			
	0320 1893 NUBTRACE EQU NUBTRACE		STATISTICAL LOGGING ACE	18940000			
	1894 *			18950000			
	0330 1895 NUBTRACE EQU NUBTRACE		INTERNAL TRAP ACE	18960000			
	1896 *			18970000			
	0340 1897 NUBTRACE EQU NUBTRACE		RESP CHECK ERROR NUMBER ACE	18980000			
	1898 *			18990000			
	0350 1899 NUBTRACE EQU NUBTRACE		ACE FOR SMP IOB	19000000			
	1900 *			19010000			
	0360 1901 NUBTRACE EQU NUBTRACE		ACE FOR IS IDENT SCHEDULE	19020000			
	1902 *			19030000			
	0370 1903 NUBTRACE EQU NUBTRACE		ACE FOR DISKETTE I/O	19040000			
	1904 *			19050000			
	0380 1905 NUBTRACE EQU NUBTRACE		ACE FOR TRACK ERROR	19060000			
	1906 *			19070000			

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09/11/81	12/08/81	02:16
00020000	02	

MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION				PAGE 2	09/11/81	12/08/81	02:16
ERR LOC OBJECT CODE	ADDR	STMT	SOURCE STATEMENT				
	3			00040000			
	4 *		INDICATOR NAME - MISCP	00050000			
	5 *			00060000			
	6 *		DESCRIPTION OF THE MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION	00070000			
	7 *			00080000			
	8 *		COMMAND	00090000			
	9 **		COMMAND - SYSTEM CONTROL (SMP) I/O	00100000			
	10 **		LOGGED MESSAGE - PROGRAM PROPERTY OF SMP	00110000			
	11 **		REFER TO OPERATOR INSTRUCTIONS FOR NUMBER 0000-0003	00120000			
	12 **		PROGRAM LINE FEEDBACK	00130000			

MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION				PAGE 3	09/11/81	12/08/81	02:16
ERR LOC OBJECT CODE	ADDR	STMT	SOURCE STATEMENT				
	51 **		CHANGE ACTIVITY - MISCP	00500000			
	52 *		INITIALS TRACK - PDS002	00510000			
	53 *		INITIALS TRACK - PDS007	00520000			
	54 *		INITIALS TRACK - PDS007	00530000			
	55 *		INITIALS TRACK - PDS007	00540000			
	56 *		INITIALS TRACK - PDS007	00550000			
	57 *		INITIALS TRACK - PDS007	00560000			
	58 *		INITIALS TRACK - PDS007	00570000			
	59 *		INITIALS TRACK - PDS007	00580000			
	60 *		INITIALS TRACK - PDS007	00590000			
	61 *		INITIALS TRACK - PDS007	00600000			
	62 *		INITIALS TRACK - PDS007	00610000			
	63 *		INITIALS TRACK - PDS007	00620000			
	64 *		INITIALS TRACK - PDS007	00630000			
	65 *		INITIALS TRACK - PDS007	00640000			
	000 190 190		INITIALS TRACK - PDS007	00650000			
	000 190 190		INITIALS TRACK - PDS007	00660000			
	000 190 190		INITIALS TRACK - PDS007	00670000			
	000 190 190		INITIALS TRACK - PDS007	00680000			
	000 190 190		INITIALS TRACK - PDS007	00690000			
	000 190 190		INITIALS TRACK - PDS007	00700000			

MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION				PAGE 4	09/11/81	12/08/81	02:16
ERR LOC OBJECT CODE	ADDR	STMT	SOURCE STATEMENT				
	66 *		INITIALS TRACK - PDS007	00710000			
	67 *		INITIALS TRACK - PDS007	00720000			
	68 *		INITIALS TRACK - PDS007	00730000			
	69 *		INITIALS TRACK - PDS007	00740000			
	70 *		INITIALS TRACK - PDS007	00750000			
	71 *		INITIALS TRACK - PDS007	00760000			
	72 *		INITIALS TRACK - PDS007	00770000			
	73 *		INITIALS TRACK - PDS007	00780000			
	74 *		INITIALS TRACK - PDS007	00790000			
	75 *		INITIALS TRACK - PDS007	00800000			
	76 *		INITIALS TRACK - PDS007	00810000			
	77 *		INITIALS TRACK - PDS007	00820000			
	78 *		INITIALS TRACK - PDS007	00830000			
	79 *		INITIALS TRACK - PDS007	00840000			
	80 *		INITIALS TRACK - PDS007	00850000			
	81 *		INITIALS TRACK - PDS007	00860000			
	82 *		INITIALS TRACK - PDS007	00870000			
	83 *		INITIALS TRACK - PDS007	00880000			
	84 *		INITIALS TRACK - PDS007	00890000			
	85 *		INITIALS TRACK - PDS007	00900000			

3770000	16	0809 00	0809 3822	DC	XL1'0'	3815	38230000
37710000			080A 3823	MSCB0020	EQU *	3815	38240000
37720000			3824	*/	*/		38250000
37730000	17		3825	*/	*****		38260000
37740000			3826	*/	GET SPACE FOR A JOB CONTROL BLOCK. IT WILL BE USED BY SPOOL,	*/	38270000
37750000			3827	*/	JOB QUEUE, AND HISTORY OVERFLOW INITIALIZATION ROUTINES.	*/	38280000
37760000	18		3828	*/	*****		38290000
37770000			3829	*/	*/		38300000
37780000			3830	*	GEN;	*/	38310000
37790000	19		3831	*	ASSGN LEN-JCBLNTH	*/	38320000
37800000		080A F4 00 06	3832		SVC SVCASSGN,0	ASSIGN REQUEST	38330000
37810000	20	080D 0070	080E 3833	DC	AL2(JCBLNTH) ASSIGN LENGTH		38340000

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12/08/81 02:16		*MSCPR *MSCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION						PAGE 39	V09/11/81 12/08/81 02:16	
ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT					
18540000	02	0390	1907	NUMSTQE	EQU	NUMBSETC+NULACE DISPATCHER TQE	19080000			
18550000		0008	1908	MULTQE	EQU	8 * (LENGTH OF A TQE)	19090000			
18560000		1909	*				19100000			
18570000	03	0398	1910	NUMINTQE	EQU	NUMSTQE+MULTQE MIDNIGHT TQE	19110000			
18580000		1911	*				19120000			
18590000		03A0	1912	NUMDLTQE	EQU	NUMINTQE+MULTQE STATISTICS DATA LOG TIME Q ELEMENT	19130000			
18600000	04	1913	*				19140000			
18610000		03A8	1914	NUMATQE	EQU	NUMDLTQE+MULTQE ASSIGN/FREE FAILUTE TIME Q ELEMENT	19150000			
18620000		1915	*				19160000			
18630000	05	0380	1916	NUMDPTQB	EQU	NUMATQE+MULTQE TERMINATION DUMP IOB	19170000			
18640000		1917	*				19180000			
18650000		03D0	1918	NUMDPTQ	EQU	NUMDPTQB+NUMLETOB TERMINATION DUMP ACE	19190000			
18660000	06	1919	*				19200000			
18670000		03E0	1920	NUMSPACE	EQU	NUMDPACE+NULACE PERMANENT SWAP ACE	19210000			
18680000		1921	*				19220000			
18690000	07	03F0	1922	NUMIPLAF	EQU	NUMSPACE+NULACE FIXED NUCLEUS FREE AREA #1	19230000			
18700000		1923	*				19240000			
18710000		1924	*				19250000			
18720000	08	1925	*				19260000			
18730000		0800	1926	NUMXIENT	EQU	2048 MS TRANSIENT AREA	19270000			
18740000		0800	1927	MULTXIENT	EQU	2048 * (LENGTH OF AREA)	19280000			
18750000	09	1928	*				19290000			
18760000		0100	1929	MULTRBUF	EQU	256 LENGTH OF TRACE BUFFER	19300000			
18770000		0700	1930	MULTRBUF	EQU	NUMXIENT-MULTRBUF TRACE LOGOUT BUFFER	19310000			
18780000	10	1931	*				19320000			
18790000		0700	1932	NUMADARK	EQU	MULTRBUF ALTER/DISPLAY WORK AREA	19330000			
18800000		00C0	1933	MULADARK	EQU	192 * (LENGTH OF AREA)	19340000			
18810000	11	1934	*				19350000			
18820000		07C0	1935	NUMBAD2K	EQU	MULTRBUF+MULADARK IPL STORAGE ERROR SAVE AREA	19360000			
18830000		1936	*				19370000			
18840000	12	0310	1937	MULTIPLAF	EQU	MULTRBUF-MULTIPLAF LENGTH OF IPL FREE AREA	19380000			
18850000		1938	*				19390000			
18860000		1939	*				19400000			
18870000	13	1940	*				19410000			
18880000		1000	1941	NUMANNIC	EQU	NUMXIENT+MULTXIENT MAIN STORAGE NUCLEUS - VARIABLE AREA	19420000			
18890000		1942	*				19430000			
18900000	14	1000	1943	NUMSSQS	EQU	NUMANNIC FIXED NUCLEUS FREE AREA #2	19440000			
18910000		1000	1944	MULTSSQS	EQU	4096 DEFAULT LENGTH FREE AREA #2	19450000			
18920000		1945	*				19460000			
18930000	15	2000	1946	NUMLOADI	EQU	NUMSSQS+MULTSSQS LOAD ADDRESS WHEN IPL DISKETTE	19470000			
18940000		1947	*				19480000			
18950000		1948	*				19490000			
18960000	16	1949	*				19500000			
18970000		1950	*				19510000			
18980000		1951	*				19520000			
18990000	17	1952	*				19530000			
19000000		1953	*				19540000			
19010000		1954	*				19550000			
19020000	18						19560000			
19030000		0000	1956	PPSTAGID	EQU	0 SECTOR TAG FOR TUNG/TUMP	19570000			
19040000							19580000			
19050000	19	0001	1958	PPSFLAG1	EQU	PPSTAGID+1 FLAG BYTE	19590000			
19060000		0080	1959	PPSPBIT	EQU	X'80' PROCEDURE IS SCP	19600000			
19070000	20	0040	1960	PPSEDFSG	EQU	X'40' EOF RECEIVED FROM SOURCE GET	19610000			

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12/08/81 02:16		*MSCPR *MSCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION						PAGE 3	V09/11/81 12/08/81 02:16	
ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT					
00040000	02	57	*/	CHANGE ACTIVITY -	*MSCPR	*	00580000			
00050000		58	*	000445	INCR - P10402	DCS	00145	*	00590000	
00060000		59	*	000478	INCR - P10007	%_21 FEATURE	000478	*	00600000	
00070000	03	60	*				00610000			
00080000		61	*	MESSAGES-INITIATED =			00620000			
00090000		62	*				00630000			
00100000	04	63	*				00640000			

12/08/81 02:16		*MSCPR *MSCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION						PAGE 3	V09/11/81 12/08/81 02:16	
ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT					
00040000	02	65	*				00650000			
00050000		66	*				00660000			
00060000	03	67	*				00670000			
00070000		68	*				00680000			
00080000		69	*				00690000			
00090000		70	*				00700000			
00100000	04	71	*				00710000			
00110000		72	*				00720000			
00120000		73	*				00730000			
00130000	05	74	*				00740000			



16	0851 5D 01 38 38	3888	DTW0020 CLC	DTWANCH(2,1),DTWASC(1,1) UP TO TRACK TO FREE ?	3890000
	0855 F2 81 1C	3889	JE	DTW0030 YES, FREE UP TRACK	3890000
17	0858 4E 01 38 00AA	3890	ALC	DTWASS(2,1),NUMSCA+SCADTSK2 ADD SECTORS/TRACK	3891000
	085D 5E 00 28 28	3891	ALC	DTW0030+1(1,1),DTW0030+1(1,1) DOUBLE Q-CODE	3892000
	0861 D0 20 07	3892	BNOL	DTW0020(1,1) CHECK NEXT TRACK	3893000
18	0864 76 02 3D	3893	A	DTWFFC(1,1),2 POINT TO NEXT INDEX BYTE	3894000
	0867 5F 00 39 05	3894	SLC	DTWMBYTT(1,1),DTW0010+1(1,1) DECR. INDEX LENGTH	3895000
	0868 D0 84 04	3895	BH	DTW0010(1,1) CHECK NEXT BYTE	3896000
19	086E 75 02 36	3896	L	DTWACHAN(1,1),2 XR2-> NEXT ELEMENT	3897000
20					

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40 V09/11/81 12/08/81 02:16		MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION				PAGE 41 V09/11/81 12/08/81 02:16
ERR LOC OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT		
19620000	2015 *	*	*	*	2016000	
	2016 *	*	*	*<-ATTR->*<--- TUB @ --->*	2017000	
19640000	2017 *	*	*	*	2018000	
19660000	2018	*****			2019000	
19670000	0000 2020	RWPLREQ	EQU 0	REQUEST BYTE.	2020000	
19680000	2022 *			VALID REQUESTS FOR THE REQUEST BYTE.	2023000	
19690000	0001 2023	RWPLON	EQU X'01'	VARY ON.	2024000	
19700000	0002 2024	RWPLOFF	EQU X'02'	VARY OFF.	2025000	
19710000	0004 2025	RWPLAUT	EQU X'04'	AUTO VARY ON.	2026000	
19720000	0020 2026	RWPLGAT	EQU X'20'	GET ATTRIBUTES.	2027000	
19730000	0040 2027	RWPLCHK	EQU X'40'	CHECK VALIDITY OF THIS WS ID.	2028000	
19750000	0080 2028	RWPLTUB	EQU X'80'	BUILD OFFLINE PRINTER TUB.	2029000	
19770000	0001 2030	RWPLRCD	EQU RWPLREQ+1	RETURN CODE.	2030000	
19780000	2032 *			RETURN CODES FROM #RWAY	2033000	
19790000	0000 2033	RWPLSUCC	EQU X'00'	SUCCESSFUL PRINTER/WS/BOTH.	2034000	
19800000	0001 2034	RWPLINOSP	EQU X'01'	DEVICE NOT SUPPORTED.	2035000	
19810000	0002 2035	RWPLATCH	EQU X'02'	ATTACH FAILED.	2036000	
19820000	0003 2036	RWPLNRES	EQU X'03'	NO RESOURCES.	2037000	
19840000	0004 2037	RWPLEXIS	EQU X'04'	CONDITION EXISTS.	2038000	
19860000	0005 2038	RWPLSUC	EQU X'05'	SUCCESSFUL AND PRINTER.	2039000	
	0006 2039	RWPLDISC	EQU X'06'	SUCCESSFUL AND DISPLAY.	2040000	
	0007 2040	RWPLNPR	EQU X'07'	SUPPORTED BUT NOT PRINTER.	2041000	
19880000	0008 2041	RWPLDIS	EQU X'08'	SUPPORTED BUT NOT DISPLAY.	2042000	
19900000	0009 2042	RWPLINE	EQU X'09'	INVALID LINE FOR WSID/CUID.	2043000	
	000A 2043	RWPLDCT	EQU X'0A'	ONE OR ALL DEV'S SIGNED ON.	2044000	
	000B 2044	RWPLCDIT	EQU X'0B'	CANNOT VARY ON AT THIS TIME.	2045000	
19920000	000C 2045	RWPLDNO	EQU X'0C'	DEV NOT VARIED ON.	2046000	
19940000	0003 2047	RWPLISTD	EQU RWPLRCD+2	WORKSTATION ID.	2048000	
19960000	0004 2049	RWPLATTR	EQU RWPLWSID+1	ATTRIBUTES (FOR GET ATTRIBUTES)	2050000	
19980000	0006 2051	RWPLTUB@	EQU RWPLWSID+3	TUB ADDRESS (RETURNED ON 'BUILD OFFLINE PRINTER TUB')	2052000	
	2052 *				2053000	
20000000	0006 2054	RWPLCUID	EQU RWPLISTD+3	CONTROL UNIT ID.	2055000	
20020000	0007 2056	RWPLLINE	EQU RWPLCUID+1	LINE NUMBER.	2057000	
20040000	2057 *	EQU X'80'		RESERVED	2058000	
	2058 *	EQU X'40'		RESERVED	2059000	
20060000	2059 *	EQU X'20'		RESERVED	2060000	
	2060 *	EQU X'10'		RESERVED	2061000	
20080000	0008 2061	RWPLSLN4	EQU X'08'	LINE 4	2062000	
	0004 2062	RWPLSLN3	EQU X'04'	LINE 3	2063000	
20100000	0002 2063	RWPLSLN2	EQU X'02'	LINE 2	2064000	
20110000	0001 2064	RWPLSLN1	EQU X'01'	LINE 1	2065000	
20120000	0008 2066	RWPLLEN	EQU RWPLLINE+1	LENGTH OF PLST	2067000	
20130000	2068 ***			END OF EXPANSION **	2069000	
20140000						
20150000						

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4 V09/11/81 12/08/81 02:16		MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION				PAGE 5 V09/11/81 12/08/81 02:16
ERR LOC OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT		
00660000	1119 *				0120000	
00670000	0000 1120	TRUE	EQU X'20'	TRUE CONDITION CODE	0121000	
00680000	0000 1121	FALSE	EQU X'90'	FALSE CONDITION CODE	0122000	
00690000	0007 1122	UNCOND	EQU X'87'	UNCONDITIONAL CONDITION CODE	0123000	
00700000	1123 *				0124000	
00710000	0000 1124	BRNCP	EQU X'80'	BRANCH	0125000	
00720000	0000 1125	MBIT	EQU X'00'	NO BITS MASK	0126000	
00730000	000F 1126	NUMBITS	EQU X'0F'	NUMERIC BITS ONLY MASK	0127000	
00740000	00FD 1127	ZONEBITS	EQU X'FD'	ZONE BITS ONLY MASK	0128000	
00750000	00FF 1128	ALLBITS	EQU X'FF'	ALL BITS MASK	0129000	
00760000	113	*****		FIND OUTPUT PARAMETER LIST	0130000	
00770000	002 114	PARAMETER	EQU #RWPLSTP+2	DISK ADDRESS	0131000	
00780000	115 *				0132000	
00790000	003 116	PARAMETER	EQU #RWPLSTP+1	FOR TYPE 0	0133000	
00800000	117 *				0134000	
00810000	118 *				0135000	
00820000	005 119	PARAMETER	EQU #RWPLSTP+2	LINE EDIT	0136000	
00830000	005 120	PARAMETER	EQU #RWPLSTP+2	NUMBER OF S	0137000	
00840000	007 121	PARAMETER	EQU #RWPLSTP+2	ENTRY POINT	0138000	
00850000	005 122	PARAMETER	EQU #RWPLSTP+2	DISK ADDR	0139000	
00860000	001 123	PARAMETER	EQU #RWPLSTP+2	DISK STA	0140000	

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38890000	16	0890 F2 01 16	3937	JNE	MSCB0060	3913	39380000	08EF 36 01 08A8	3986
38900000		08A0 B8 90 35	3938	TBN	TUBATTR1(,XR2),TUBSGN+TUBCN	3913	39390000		3987 *
38910000	17		3939 *	IF	XR2->TUBATTR2=ONCTUBMSTN) THEN /* AND WORK STATION?	*/	39400000	08F3 F2 81 03	3988
38920000		08A3 F2 90 10	3940	JF	MSCB0080	3914	39410000		
38930000								08F6 BA 91 06	3989
38940000	18	08A6 B8 40 36	3941	TBN	TUBATTR2(,XR2),TUBMSTN	3914	39420000		3990 *
38950000			3942 *	XR1->BATTUB(1:2)=REG(XR2); /* YES, SAVE IN PARM LIST	*/	*/	39430000	08F9 3991 MSCA	
38960000	19	08A9 F2 90 06	3943	JF	MSCB0100	3915	39440000		3992 *
								08F9 3993 MSCA	
38970000	20	08AC 74 02 10	3944	ST	BATTUB(,XR1),XR2	3915	39450000	08F9 F4 01 10	3994
			3945 *	ELSE			39460000	08FC 0CD6	08FD 3995

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12/08/81 02:16		*MSCPR *MSCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION						PAGE 42 V09/11/81 12/08/81 02:16		*MSCPR *MSCPR - MAIN STORAGE IPL - C	
ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT			ERR LOC	OBJECT CODE	ADDR	STMT
20160000	02	2069 *		SCAEQ	SYSTEM COMMUNICATION AREA EQUATES	20700000		0001	2123 S		
20170000		2070		*****	*****	20710000			2124 *		
20180000		2071 *				20720000			2125 *		
20190000	03	2072 *			SYSTEM	20730000		0081	2126 S		
		2073 *				20740000			0001 2127 S		
20210000		2074 *			COMMUNICATION AREA	20750000		0000	2128 S		
20230000	04	2075 *				20760000			2129 *		
20240000		2076		*****	*****	20770000			2130 *		
20250000	05	0000 2078	SCASYS	EQU 0	BEGINNING OF SYSTEM COMM	20790000			2131 *		
20260000		2079 *				20800000			2132 *		
20270000	06	0001 2080	SCADDMTC	EQU SCASYS+1	ABNORMAL TERMINATION ERROR MIC	20810000		0040	2134 S		
20280000		2081 *			(WILL BE SEEN IN DUMP AREA ONLY)	20820000		0001	2135 S		
20290000		2082 *				20830000		0041	2136 S		
20310000	07	0000 2083	SCADPSVC	EQU SCASYS 3	DUMP SVC (LEFT HAND ADDRESS)	20840000		00C1	2137 S		
		0003 2084	SCADXVC	EQU SCADPSVC+3 3	TRANSIENT EXIT SVC (LEFT HAND)	20850000		00E1	2138 S		
		0005 2085	SCADSSVC	EQU SCASYS+5	SYSTEM SVC AREA	20860000		00D1	2139 S		
20330000		2086 *				20870000			2140 *		
20340000	08	0006 2087	SCAMSIZE	EQU SCADSSVC+1 1	MAIN STORAGE SIZE IN 2K BLOCKS	20880000		0010	2141 S		
20350000		0080 2088	SCAM256K	EQU X'80'	X'80' - 256K MAIN STORAGE (R7)	20890000		00A5	2142 S		
20360000		0040 2089	SCAM128K	EQU X'40'	X'40' - 128K MAIN STORAGE	20900000		005A	2143 S		
20370000	09	0030 2090	SCAMS96K	EQU X'30'	X'30' - 96K MAIN STORAGE	20910000			2144 *		
20380000		0020 2091	SCAMS64K	EQU X'20'	X'20' - 64K MAIN STORAGE	20920000		0011	2145 S		
20390000		0018 2092	SCAMS48K	EQU X'18'	X'18' - 48K MAIN STORAGE	20930000		0004	2146 S		
20400000	10	0010 2093	SCAMS32K	EQU X'10'	X'10' - 32K MAIN STORAGE	20940000			2147 *		
20410000		2094 *				20950000		0012	2148 S		
20420000		0008 2095	SCAZKBAD	EQU SCAMSIZE+2 2	ADDRESS OF BAD 2K BLOCKS SAVE	20960000		0080	2149 S		
20430000	11	0000 2096	SCAZKOK	EQU X'0000'	NO BAD 2K BLOCKS	20970000			2150 *		
20440000		2097 *				20980000		0020	2151 S		
20450000	12	000A 2098	SCADSP1@	EQU SCAZKBAD+2 2	SPOOL INTERCEPT STORAGE ADDRESS	20990000		0010	2152 S		
20460000		2099 *				21000000			2153 *		
20480000		0008 2100	SCADCFSZ	EQU SCADSP1@+1 1	CONFIGURATION RECORD SECTORS	21010000		0008	2154 S		
20500000	13	2101 *				21020000			2155 *		
		000C 2102	SCA#2KMS	EQU SCADCFSZ+1 1	NUMBER OF AVAILBLE 2K BLOCKS MS	21030000		0004	2156 S		
20520000	14	2103 *			(MAIN STORAGE SIZE MINUS NUMBER	21040000			2157 *		
20530000		2104 *			OF BAD 2K BLOCKS)	21050000		0002	2158 S		
		2105 *				21060000			2159 *		
20550000	15	000D 2106	SCAMS#2K	EQU SCA#2KMS+1 1	2K BLOCKS OF USER STORAGE	21070000			2160 *		
		2107 *				21080000		0001	2161 S		
20570000		000E 2108	SCAMXRG	EQU SCAMS#2K+1 1	SWAPPABLE TASK REGION SIZE	21090000			2162 *		
20580000	16	2109 *				21100000		0080	2164 S		
20590000		000F 2110	SCADISK	EQU SCAMXRG+1 1	DISK CONFIGURATION	21110000		0040	2165 S		
20600000		0080 2111	SCADUAL	EQU X'80'	MULTIPLE SPINDLE DISK (R7)	21120000		0020	2166 S		
20610000	17	0080 2112	SCAZSPIN	EQU X'80'	2 SPINDLE DISK (R7)	21130000		0010	2167 S		
20620000		0020 2113	SCAZSPIN	EQU X'20'	3 SPINDLE DISK (R7)	21140000		0008	2168 S		
20630000		0010 2114	SCAZSPIN	EQU X'10'	4 SPINDLE DISK (R7)	21150000		0004	2169 S		
20640000	18	0040 2115	SCADCFG	EQU X'40'	DISK CONFIG FLAG (R3)	21160000			2170 *		
20650000		2116 *			0 - SMALL CAPACITY DISK	21170000			2171 *		
		2117 *			1 - LARGE CAPACITY DISK	21180000			2172 *		
		2118		*****	*****	21190000					
20670000	19	2119 *			THE FOLLOWING DISK CONFIGURATION FLAGS ARE VALID ONLY FOR A SMALL	21200000		0002	2173 S		
		2120 *			CAPACITY DISK, ONE WITH 60 SECTORS PER TRACK.	21210000		0001	2174 S		
		2121		*****	*****	21220000			2175 *		
20690000	20	0081 2122	SCADSKS	EQU X'81'	DISK STATUS BITS	21230000		0014	2176 S		

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12/08/81 02:16		*MSCPR *MSCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION						PAGE 6 V09/11/81 12/08/81 02:16		*MSCPR *MSCPR - MAIN STORAGE IPL - C	
ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT			ERR LOC	OBJECT CODE	ADDR	STMT
01200000	02	173		*****	FIND OUTPUT PARAMETER LIST	01740000		0007	2271 S		
01210000		0002 174	SPINDOR	EQU SPINDOR+2	DISK ADDRESS OF REQUESTED	01750000		0008	2272 S		
01220000		175 *			LIBRARY MODULE	01760000		0009	2273 S		
01230000	03	0003 176	SPINDMS	EQU SPINDOR+1	FOR TYPE 0-NUMBER OF TEXT SEC	01770000		0080	2274 S		
01240000		177 *			FOR TYPE R-CATEGORY	01780000		0000	2275 S		
01250000		178 *			FOR TYPE S OR P-RECORD SIZE	01790000		0040	2276 S		
01260000	04	0005 179	SPINDLNK	EQU SPINDMS+2	LINK-EDIT ADDRESS	01800000		0020	2277 S		
01270000		0005 180	SPINDMST	EQU SPINDMS+2	NUMBER OF STATEMENTS FOR S OR P	01810000		0010	2278 S		
01280000		0007 181	SPINDSCT	EQU SPINDLNK+2	ENTRY POINT OF MODULE	01820000		0010	2279 S		
		0007 182	SPINDSCT	EQU SPINDLNK+2	LIB. CT. ADDR. OF TRANSFER	01830000					

39370000	16	00E2 05 02 02	3984	IF 'ZERO,REG(CR1)=REG(CR1)+X00 THEN /* ADDRESS OK? 3932	39860000
39380000		08E6 36 01 08A8	3986	A X00,XR1	39870000
39390000	17	08F3 F2 81 03	3987 *	XR2->JCB0UPSI=ONKX'91'; /* YES, SET UPSI SWITCH @0145*/	39880000
39400000			3988	J2 MSC0150	39890000
39410000					
39420000	18	08F6 BA 91 06	3989	SBN JCB0UPSI(C,XR2),X'91'	39900000
39430000			3990 *	END;	39910000
39440000			08F9 3991	MSC0150 EQU *	39920000
39450000	19	08F9 F4 01 10	3992 *	GEN; /* CALL ATTACH TRANSIENT #SVAT */	39930000
39460000			08F9 3993	MSC0130 EQU *	39940000
			3994	SVC SVXCIENT,QREFRESH	39950000
	20	08FC 0CD6	08FD 3995	DC AL2(NTPSSATC)	39960000

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20700000	02		0001 2123	SCAM0S12 EQU X'01'	X'01' - DISK FILE SIZE	21240000		
20710000			2124 *		0 - 8 MEGABYTE DISK	21250000		
20720000			2125 *		1 - 12 MEGABYTE DISK	21260000		
20730000	03		0081 2126	SCAM27MG EQU X'81'	27 MEGABYTE DISK	21270000		
20740000			0001 2127	SCAM13MG EQU 1	13 MEGABYTE DISK	21280000		
20750000			0000 2128	SCAM10MG EQU 0	8 MEGABYTE DISK	21290000		
20760000	04		2129 *			21300000		
20770000			2130	*****		21310000		
20790000	05		2131 *	THE FOLLOWING DISK CONFIGURATION FLAGS ARE VALID ONLY FOR A LARGE *		21320000		
20800000			2132 *	CAPACITY DISK, ONE WITH 64 SECTORS PER TRACK. *		21330000		
20810000			2133	*****		21340000		
20820000	06		0040 2134	SCAM62PC EQU X'40'	LARGE CAPACITY DISK	IR31	21350000	
20830000			0001 2135	SCAM65MG EQU X'01'	65 MEGABYTE DISK	IR31	21360000	
20840000			0041 2136	SCAM065M EQU X'41'	65 MEGABYTE DISK	IR71	21370000	
20850000	07		00C1 2137	SCAM130M EQU X'C1'	130 MEGABYTE DISK	IR71	21380000	
20860000			00E1 2138	SCAM195M EQU X'E1'	195 MEGABYTE DISK	IR71	21390000	
20870000			00D1 2139	SCAM260M EQU X'D1'	260 MEGABYTE DISK	IR71	21400000	
20880000			2140 *				21410000	
20890000	08		0010 2141	SCADPIND EQU SCASDISK+1	1	SYSTEM/DUMP INDICATOR	21420000	
20900000			00A5 2142	SCAMPDOK EQU X'A5'		VALID DUMP	21430000	
20910000			005A 2143	SCAMPDUS EQU X'5A'		VALID DUMP - HAS BEEN ACCESSED	21440000	
20920000	09		2144 *				21450000	
20930000			0011 2145	SCACSIZE EQU SCADPIND+1	1	CONTROL STORAGE CONFIGURATION	21460000	
20940000			0004 2146	SCACS16K EQU X'04'		X'04' -16K CONTROL STORAGE	21470000	
20950000	10		2147 *				21480000	
20960000			0012 2148	SCADCFG1 EQU SCACSIZE+1	1	SPOOL AND JOBQ INDICATORS	21490000	
20970000	11		0080 2149	SCAMAUTO EQU X'80'		X'80' - AUTO WRITER SUPPORTED	21500000	
20980000			2150 *	EQU X'40'		X'04' - RESERVED	IR81	21510000
20990000			0020 2151	SCAMSPGP EQU X'20'		X'20' - SPOOL ALL PRINTERS	IR81	21520000
21000000	12		0010 2152	SCAMFACT EQU X'10'		X'10' - SPOOL IS ACTIVE	21530000	
21010000			2153 *			(SUPPORTED NOT CANCELLED)	21540000	
21020000			0008 2154	SCAMCRAN EQU X'08'		X'08' - SPOOL COMPRESS RUN	21550000	
21030000	13		2155 *			(REFORMAT SPOOL FILE AT IPL)	21560000	
21040000			0004 2156	SCAMJQHD EQU X'04'		X'04' - HOLD JOB QUEUE	21570000	
21050000			2157 *			(DO NOT START AT IPL)	21580000	
21060000	14		0002 2158	SCAMJQFM EQU X'02'		X'02' - REFORMAT JOBQ AT IPL	21590000	
21070000			2159 *			IF NOT IPL, INPUT JOB QUEUE	21600000	
21080000			2160 *			HAS BEEN POSTED	21610000	
21090000	15		0001 2161	SCAMSPB EQU X'01'		X'01' - ALLOCATE FILE ON 'B'	21620000	
21100000			2162 *				21630000	
21110000			0013 2163	SCADCFG2 EQU SCADCFG1+1	1	SSP CONFIGURATION OPTIONS	21640000	
21120000	16		0080 2164	SCAMCNAT EQU X'80'		COMMAND LANGUAGE	21650000	
21130000			0040 2165	SCAMPWSE EQU X'40'		PASSWORD SECURITY	21660000	
21140000			0020 2166	SCAMJOBQ EQU X'20'		JOB QUEUE	21670000	
21150000	17		0010 2167	SCAMSPOL EQU X'10'		SPOOL	21680000	
21160000			0008 2168	SCAMPDPR EQU X'08'		DISPLAY STATION ON TRANSIENT	21690000	
21170000			0004 2169	SCAMPDPR EQU X'04'		DISPLAY STATION ON RESIDENT	21700000	
21180000	18		2170 *			NOTE: IF 'MORP MORP' BOTH =1	21710000	
21190000			2171 *			THEN RESIDENT/TRANSIENT	21720000	
21200000			2172 *			VERSION OF OS0M SELECTED.	21730000	
21210000	19		0002 2173	SCAMKMSG EQU X'02'		KEEP INFO. MESSAGES AT EQJ	IR41	21740000
21220000			0001 2174	SCAMKCHD EQU X'01'		COMMAND LANGUAGE IS ENGLISH	21750000	
21230000			2175 *				21760000	
21240000	20		0014 2176	SCADCFG3 EQU SCADCFG2+1	1	COMMUNICATIONS FEATURES	IR31	21770000

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01740000	02		0007 227	ACEPANN2 EQU ACEPANN2+1	SECOND IN-LINE PANN	02280000
01750000			0008 228	ACEPANN3 EQU ACEPANN2+1	THIRD IN-LINE PANN	02290000
01760000	03		0009 229	ACEPTYPE EQU ACEPANN2+1	TYPE OF ACE (CTAL OR MAIN STORAGE)	02300000
01770000			0000 230	ACEBSICL EQU X'80'	INDICATOR FOR MAIN STORAGE ACE	02310000
01780000			0000 231	ACEBSICL EQU X'00'	INDICATOR FOR CONTROL STORE ACE	02320000
01790000	04		0040 232	ACEPRIVW EQU X'40'	INDICATOR FOR PRIVILEGED ACE	02330000
01800000			0020 233	ACEIBCHN EQU X'20'	CHAINED JOB INDICATOR	02340000
01810000			0000 234	ACEELUG EQU X'00'	INDICATOR FOR SYSLOG CALLED	02350000
01820000	05		0000 235	ACECPERR EQU X'00'	INDICATOR FOR ASYNC ERROR ACE.	02360000

01740000	02		0007 227	ACEPANN2 EQU ACEPANN2+1	SECOND IN-LINE PANN	02280000
01750000			0008 228	ACEPANN3 EQU ACEPANN2+1	THIRD IN-LINE PANN	02290000
01760000	03		0009 229	ACEPTYPE EQU ACEPANN2+1	TYPE OF ACE (CTAL OR MAIN STORAGE)	02300000
01770000			0000 230	ACEBSICL EQU X'80'	INDICATOR FOR MAIN STORAGE ACE	02310000
01780000			0000 231	ACEBSICL EQU X'00'	INDICATOR FOR CONTROL STORE ACE	02320000
01790000	04		0040 232	ACEPRIVW EQU X'40'	INDICATOR FOR PRIVILEGED ACE	02330000
01800000			0020 233	ACEIBCHN EQU X'20'	CHAINED JOB INDICATOR	02340000
01810000			0000 234	ACEELUG EQU X'00'	INDICATOR FOR SYSLOG CALLED	02350000
01820000	05		0000 235	ACECPERR EQU X'00'	INDICATOR FOR ASYNC ERROR ACE.	02360000

0080	02					0080
0020						0020
0040	03					0040
0010						0010
0008						0008
0004	04					0004
0002						0002
0001						0001
0015	05					0015
0080						0080
0040	06					0040
0020						0020
0010						0010
0008	07					0008
0004						0004
0002						0002
0001						0001
0018	08					0018
0020						0020
0040	09					0040
0020						0020
0008	10					0008
0040						0040
0020						0020
0010	11					0010
0008						0008
0004						0004
0002	12					0002
0001						0001
2						2
2	13					2
2						2
2	14					2
2						2
2	15					2
001A	16					001A
001C						001C
2	17					2
2						2
0022	18					0022
0023						0023
2						2
2	19					2
0025						0025
0027	20					0027
2						2
2						2
0029						0029
002B						002B
002D						002D
2						2



16	091D 4036 MSC0220 EQU *	4037 * ELSE	4038 * NIPSWTCH(1:1)=ONWAITEND); /* REBUILD DONE, SET FLAG */	3973	40380000
17	091D F2 87 04	4039	J MSC0230	3975	40400000
18	0920 4040 MSC0190 EQU *			3975	40410000
18	0920 3A 80 08AB	4041	SN NIPSWTCH, WAITEND	3975	40420000
19	0924 38 80 08AB	4042	MSC0230 EQU *	3975	40430000
19	0928 CO 90 08FE	4043 * END;			40440000
20	0924 38 80 08AB	4044	TBN NIPSWTCH, WAITEND	3976	40450000
20	0928 CO 90 08FE	4045	BF MSC0170	3976	40460000
	092C 4046 MSC0160 EQU *			3976	40470000

E24

44	V09/11/81 12/08/81 02:16
01	21780000
02	21790000
03	21800000
03	21810000
03	21820000
04	21830000
04	21840000
04	21850000
05	21860000
05	21870000
05	21880000
06	21890000
06	21900000
06	21910000
07	21920000
07	21930000
07	21940000
08	21950000
08	21960000
08	21970000
09	21980000
09	21990000
09	22000000
10	22010000
10	22020000
10	22030000
11	22040000
11	22050000
11	22060000
12	22070000
12	22080000
12	22090000
13	22100000
13	22110000
13	22120000
14	22130000
14	22140000
14	22150000
15	22160000
15	22170000
15	22180000
16	22190000
16	22200000
16	22210000
17	22220000
17	22230000
17	22240000
18	22250000
18	22260000
18	22270000
19	22280000
19	22290000
19	22300000
20	22310000

MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 45 V09/11/81 12/08/81 02:16	
ERR LOC	OBJECT CODE	ADDR STMT	SOURCE STATEMENT
02	002F	2231	SCACONFG EQU SCADSSIO+2 2 SS OF CONFIGURATION RECORD
		2232 *	
03	0031	2233	SCASHIST EQU SCACONFG+2 2 START SS OF HISTORY FILE
	0033	2234	SCAHFISZ EQU SCASHIST+2 2 SIZE OF HISTORY FILE
	0035	2235	SCAHFCUR EQU SCAHFISZ+2 2 SS OF CURRENT HISTORY FILE ENTRY
		2236 *	
04	0038	2237	SCASHSG1 EQU SCAHFCUR+3 3 SS-1ST LVL SSP MSG MEMB (**MSG1)
	0038	2238	SCASHMSG EQU SCASHSG1+3 3 SS-SSP HEADINGS MSG MEMB(**MSG2)
	003E	2239	SCASHMSG EQU SCASHMSG+3 3 SS-SSP WK STATN MSG MEMB(**MSG9)
05	0041	2240	SCASHSG2 EQU SCASHMSG+3 3 SS-2ND LVL SSP MSG MEMB (**MSG4)
		2241 *	
06	0044	2242	SCADSSJQ EQU SCASHSG2+3 3 SS OF INPUT JOB QUEUE FILE
		2243 *	
07	0047	2244	SCADSSPR EQU SCADSSJQ+3 3 SS OF SPOOL PRIMARY FILE IR81
		2245 *	BEFORE SPOOL IS INITIALIZED DURING IPL THIS FIELD WILL
		2246 *	BE INITIALIZED TO ONE OF THE FOLLOWING:
		2247 *	X'000000' CANCEL SPOOL.
		2248 *	X'FF0000' DELETE SPOOL FILE AND CANCEL SPOOL.
		2249 *	X'00N***' WHERE: N = SPOOL FILE SEGMENT SIZE (BLOCKS-1)
		2250 *	*** = NUMBER OF SPOOL FILE SEGMENTS
		2251 *	
09	0049	2252	SCAUSER0 EQU SCADSSPR+2 2 START ADDRESS OF USER STORAGE
	004B	2253	SCADSBFP EQU SCAUSER0+2 2 ADDRESS OF SPOOL BUFFER POOL
		2254 *	
10	004D	2255	SCADMERP EQU SCADSBFP+2 2 ADDRESS OF MSP ERROR SAVE AREA
	004D	2256	SCADCPK0 EQU SCADMERP 2 ADDRESS OF C.P. DISKETTE IOB
		2257 *	
11	004F	2258	SCADLBF1 EQU SCADMERP+2 2 ADDRESS OF *LIBRARY FORMAT-1
		2259 *	
12	0051	2260	SCADF1ST EQU SCADLBF1+2 2 FIRST ACTIVE FORMAT-1 ON CHAIN
	0052	2261	SCADPTUB EQU SCADF1ST+1 1 NUMBER OF LOCAL CONFIG. TUBS
		2262 *	
13	0053	2263	SCADBSCT EQU SCADPTUB+1 1 NUMBER OF USERS OF BSC DM
		2264 *	
14	0055	2265	SCADVICE EQU SCADBSCT+2 2 ADDRESS OF DEVICE ALLOC TABLE
		2266 *	
14	0057	2267	SCADSEU0 EQU SCADVICE+2 2 ADDRESS SEU MEMBER CHAIN
	0059	2268	SCADSEUQ EQU SCADSEU0+2 2 SEU QUEUE HEADER
	0059	2269	SCADPLW6 EQU SCADSEUQ 2 IPL WORK AREA
		2270 *	
15	005A	2271	SCADSL0G EQU SCADSEUQ+1 1 SYSLOG ASSIGNED INDICATOR
	00E0	2272	SCADPRT EQU X'E0' . SYSLOG ASSIGNED TO PRINTER
	0010	2273	SCADPRT EQU X'10' . SYSLOG ASSIGNED TO WORK STATION
		2274 *	
17	005B	2275	SCADSYS1 EQU SCADSL0G+1 1 SYSTEM CONFIGURATION BYTE 5
	0080	2276	SCAHFERR EQU X'80' . X'80' - ERROR IN HISTORY FILE
	0040	2277	SCAHFPLC EQU X'40' . X'40' - IPL-PROCESSING COMPLETE
	0020	2278	SCADMER EQU X'20' . X'20' - IPL-OVERRIDE RECEIVED
18	0010	2279	SCAHFPL EQU X'10' . X'10' - IPL-SIGN ON COMPLETE
	0008	2280	SCAHFBLD EQU X'08' . X'08' - IPL-FILE REBUILD
	0004	2281	SCAHFJCT EQU X'04' . X'04' - SYSLOG EJECT AT EOJ
19	0002	2282	SCAHFCLK EQU X'02' . X'02' - CONFIG RECORD LOCK IR31
	0001	2283	SCAHFPRP EQU X'01' . X'01' - PREPARE REQUEST ISSUED
		2284 *	

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02	02810000
02	02820000
02	02830000
04	02850000
04	02870000

MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 9 V09/11/81 12/08/81 02:16	
ERR LOC	OBJECT CODE	ADDR STMT	SOURCE STATEMENT
02	0001	330	WADGET EQU X'01' . INPUT OPERATION
03	0002	331	WADPUT EQU X'02' . OUTPUT OPERATION
	0003	332	WADPTG EQU WADGET+WADPUT . PUT THERM GET OPERATION
04	0004	333	WADWNO EQU X'04' . INO WADGET REQUEST
	0005	334	WADWNV EQU WADGET+WADWNO . INNOVATE INPUT OPERATION
	0006	335	WADWNV EQU WADPUT+WADWNO . PUT-INNOVATE OPERATION
	0007	336	WADWPT EQU WADPUT+WADWNV . PUT THERM INNOVATE INPUT

0999	F2 10 05	406 * GR
095C	F4 01 10	407 * SC
095F	0CE0	0960 408 * IC
		409 * EN;
		400 * IT 162-SEA
0961	B8 40 70	0961 401 MSC020 EQU
		402 * EN
		403 * EN;
0964	F2 90 04	404 * JF
		405 * GR

01	ERR LOC	OBJECT CODE	ADDR STMT	SOURCE STATEMENT
02		002	2285	SCAHFISZ EQU
		000	2286	SCAHFISZ EQU
		000	2287	SCAHFISZ EQU
		000	2288	SCAHFISZ EQU
		000	2289	SCAHFISZ EQU
		000	2290	SCAHFISZ EQU
		004	2291	SCAHFISZ EQU
		002	2292	SCAHFISZ EQU
		001	2293	SCAHFISZ EQU
		2294 *		
		2295 *	SYSTEM IN	
		002	2296	SCAHFISZ EQU
		002	2297	SCAHFISZ EQU
		002	2298	SCAHFISZ EQU
		002	2299	SCAHFISZ EQU
		2300 *		
		000	2301	SCAHFISZ EQU
		2302 *		
		006	2303	SCAHFISZ EQU
		2304 *		
		001	2305	SCAHFISZ EQU
		000	2306	SCAHFISZ EQU
		2307 *		
		2308 *		
		000	2309	SCAHFISZ EQU
		000	2310	SCAHFISZ EQU
		000	2311	SCAHFISZ EQU
		000	2312	SCAHFISZ EQU
		000	2313	SCAHFISZ EQU
		000	2314	SCAHFISZ EQU
		001	2315	SCAHFISZ EQU
		2316 *		
		000	2317	SCAHFISZ EQU
		2318 *		
		000	2319	SCAHFISZ EQU
		000	2320	SCAHFISZ EQU
		2321 *		
		000	2322	SCAHFISZ EQU
		000	2323	SCAHFISZ EQU
		2324 *		
		2325 *	CP	
		2326 *		
		000	2327	SCAHFISZ EQU
		000	2328	SCAHFISZ EQU
		000	2329	SCAHFISZ EQU
		000	2330	SCAHFISZ EQU
		000	2331	SCAHFISZ EQU
		000	2332	SCAHFISZ EQU
		000	2333	SCAHFISZ EQU
		000	2334	SCAHFISZ EQU
		001	2335	SCAHFISZ EQU
		2336 *		
		001	2337	SCAHFISZ EQU
		000	2338	SCAHFISZ EQU

02	0005	332	WADGET EQU
	0005	333	WADPUT EQU
	000	334	WADPTG EQU
	000	335	WADWNO EQU
	000	336	WADWNV EQU
	000	337	WADWPT EQU

40370000	0999 F2 10 05	4085	J1	MSCB0300	4002	40860000	4134 *
40380000		4086 * GEN;				40870000	4136 *
40390000		4087 SVC SVCK(ENT,QREFRESH		CALL SPOOL/JQ IPL ROUTINE		40880000	4137 *
40400000	095C F4 01 10	4088 DC AL2(NIPSPIPL)		ADDRESS OF PARM LIST		40890000	4138 *
	095F OCEB	4089 * END;				40900000	4139 *
40410000		4090 * IF XR2->SCADCP51 =ONKSCAMALL) THEN /R STOP COMMAND?				40910000	4140 *
40420000		0961 4091 MSCB0300 EQU *			4008	40920000	4141
40430000	0961 B8 40 70	4092 TBN SCADCP51(XR2),SCAMALL			4008	40930000	0993 F4 00 06 0996 0070 0997 4142
40440000		4093 * DO;		/R YES, CALL TTC ROUTINE		40940000	0998 01 0998 4143
40450000	0964 F2 90 04	4094 JF MSCB0320			4009	40950000	4144 *
40460000		4095 * GEN;				40960000	4145 *
40470000							4146 *

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ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT		ERR LOC	OBJECT CODE	ADDR	STMT
22320000	005C	2285	SCASYS2	EQU	SCASYS1+1	1	22860000	0040	2339	
22330000	0080	2286	SCAMATBS	EQU	X'80'	.	22870000	0020	2340	
22400000	0040	2287	SCAMCHK	EQU	X'40'	.	22880000	0010	2341	
22350000	0020	2288	SCAMHLD	EQU	X'20'	.	22890000	0008	2342	
22360000	0010	2289	SCAMHUP	EQU	X'10'	.	22900000	0004	2343	
22370000	0008	2290	SCAPDATE	EQU	X'08'	.	22910000	0002	2344	
22380000	0004	2291	SCAMTC	EQU	X'04'	.	22920000	0001	2345	
22390000	0002	2292	SCAPDM	EQU	X'02'	.	22930000		2346	
22400000	0001	2293	SCAMYD	EQU	X'01'	.	22940000	0073	2347	
22410000	2294 *						22950000	0076	2348	
22420000	2295 *		SYSTEM IPL DATE - IN PACKED FORMAT (YY MM DD)				22960000		2349	
22430000	005D	2296	SCADYEAR	EQU	SCASYS2+1	1	22970000	0077	2350	
22440000	005E	2297	SCADMTH	EQU	SCADYEAR+1	1	22980000		2351	
22450000	005F	2298	SCADDAY	EQU	SCADMTH+1	1	22990000	0078	2352	
22460000	005F	2299	SCADDATE	EQU	SCADDAY	3	23000000	0080	2353	
22470000	2300 *						23010000	0040	2354	
22480000	0060	2301	SCADCTUT	EQU	SCADDATE+1	1	23020000	0020	2355	
22490000	2302 *						23030000		2356	
22500000	0066	2303	SCARDVOL	EQU	SCADCTUT+6	6	23040000		2357	
22510000	2304 *						23050000		2358	
22520000	0067	2305	SCARDFMT	EQU	SCARDVOL+1	1	23060000		2359	
22530000	0080	2306	SCAMPLA	EQU	X'80'	.	23070000		2360	
22540000	2307 *						23080000		2361	
22550000	2308 *						23090000	0079	2362	
22560000	0040	2309	SCAM2FM	EQU	X'40'	.	23100000	0080	2363	
22570000	0020	2310	SCAM2FM	EQU	X'20'	.	23110000	0040	2364	
22580000	0010	2311	SCAM1FM	EQU	X'10'	.	23120000		2365	
22590000	0008	2312	SCAM1024	EQU	X'08'	.	23130000		2366	
22600000	0004	2313	SCAM0512	EQU	X'04'	.	23140000		2367	
22610000	0002	2314	SCAM0256	EQU	X'02'	.	23150000		2368	
22620000	0001	2315	SCAM0128	EQU	X'01'	.	23160000		2369	
22630000	2316 *						23170000		2370	
22640000	0068	2317	SCADKLC	EQU	SCARDFMT+4	4	23180000		2371	
22650000	2318 *						23190000	007A	2372	
22660000	0060	2319	SCAIPLAK	EQU	SCADCTUT	.	23200000		2373	
22670000	0068	2320	SCAIPLW	EQU	SCADKLC	.	23210000		007B	2374
22680000	2321 *						23220000	007D	2375	
22690000	0060	2322	SCADHTUB	EQU	SCADKLC+2	2	23230000	007E	2376	
22700000	006F	2323	SCADPTUB	EQU	SCADHTUB+2	2	23240000	007F	2377	
22710000	2324 *						23250000	0080	2378	
22720000	2325 *		COMMAND PROCESSOR DISPLACEMENTS AND BIT MASKS				23260000	0082	2379	
22730000	2326 *						23270000		2380	
22740000	0070	2327	SCADCP51	EQU	SCADPTUB+1	1	23280000	008A	2381	
22750000	0080	2328	SCAMCPL	EQU	X'80'	.	23290000		2382	
22760000	0040	2329	SCAMALL	EQU	X'40'	.	23300000	0085	2383	
22770000	0020	2330	SCAMJAE	EQU	X'20'	.	23310000	008A	2384	
22780000	0010	2331	SCAMJSE	EQU	X'10'	.	23320000		2385	
22790000	0008	2332	SCAMJST	EQU	X'08'	.	23330000	008B	2386	
22800000	0004	2333	SCAMJDS	EQU	X'04'	.	23340000		2387	
22810000	0002	2334	SCAMJSEC	EQU	X'02'	.	23350000	008C	2388	
22820000	0001	2335	SCAMJRP	EQU	X'01'	.	23360000	008D	2389	
22830000	2336 *						23370000	0040	2390	
22840000	0071	2337	SCADCP52	EQU	SCADCP51+1		23380000		2391	
22850000	0080	2338	SCAMKEYS	EQU	X'80'	.	23390000	0010	2392	

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ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT		ERR LOC	OBJECT CODE	ADDR	STMT
03310000	0005	382	WDOUTL	EQU	WDOPC+2		03830000	0019	43	
03320000	0005	383	WDIEFFL	EQU	WDOUTL		03840000	001A	43	
03330000	0007	384	WDRECA	EQU	WDIEFFL+2		03850000	001C	43	
03340000	0009	385	WDITBS	EQU	WDRECA+2		03860000	001D	43	
03350000	000B	386	WDITUB	EQU	WDITBS+2		03870000	001F	43	
03360000	000C	387	WDIAND	EQU	WDITUB+1		03880000	0020	43	
03370000	000D	388	WDIOPC	EQU	WDIAND+1		03890000	0022	43	



41390000	4185 *	NIPACTSK+BATJCBK(1:2)=REG(XR2); /* JOB ADDRESS	41860000
41360000	4186	ST NIPACTSK+BATJCBK, XR2	41870000
41370000	4187 *	NIPACTSK+BATLOAD(1:12)=XR2->BFNDLDA; /* LOADER PARAM LIST	41880000
41380000	4188	PWC NIPACTSK+BATLOAD(1:12), BFNDLDA, XR2	41890000
41390000	4189 *	DO WHILE (PLUS, XR2->BFNDCCRS=XR2->BFNDCCRS-X8); /* REGION SIZE	41900000
41400000	09CE	4190 MSCB0460 EQU *	41910000
41410000	09CE	4191 SLC BFNDCCRS(XR2), X8	41920000
41420000	09D3	4192 JNP MSCB0470	41930000
41430000			
41440000	09D6	4193 MSCB0450 EQU *	41940000
41450000	4194 *	NIPACTSK+BATMSSIZ(1:1)=VAR(NIPACTSK+BATMSSIZ(1:1)+X1; /*	41950000
41460000	09D6	4195 ALC NIPACTSK+BATMSSIZ(001), X1	41960000
41470000	4196 *	END;	41970000

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ERR LOC OBJECT CODE	ADDR	STMT	SOURCE STATEMENT		ERR LOC OBJECT CODE
23400000	0008	2393	SCAMPACG EQU X'08'	. DISPLAY ADDR COMPARE DUMP MESSAGE	23940000
23410000	0004	2394	SCAMPACD EQU X'04'	. ADDRESS COMPARE DUMP WAS TAKEN	23950000
23420000	0002	2395	SCAMPACSP EQU X'02'	. TASK SUSPENDED BY ADDR COMP DUMP	23960000
23430000	0001	2396	SCAMPACT EQU X'01'	. TRACE TO DISK ACTIVE	23970000
23440000	2397 *				23980000
23450000	0080	2398	SCADCSP2 EQU SCADCSP1+1	1 MSP -----> LSP INTERFACE BYTE	23990000
23460000	0080	2399	SCAMLGER EQU X'80'	. S/32 MODE LOG PRINTER ERROR	24000000
23470000	0040	2400	SCAMPVOK EQU X'40'	. PRINTER TRANSLATE FEATURE [R4]	24010000
23480000	0020	2401	SCAMFORX EQU X'20'	. FORTRAN EXECUTION SUPPORT [R4]	24020000
23490000	0010	2402	SCAMFAIL EQU X'10'	. LAST 2K OF NUCLEUS ASSIGNED [R8]	24030000
23500000	0008	2403	SCAMICR1 EQU X'08'	. MICR SUBR08 SSP SUPPORT [R4]	24040000
23510000	2404 *		EQU X'04'	. RESERVED	24050000
23520000	0002	2405	SCAMICR2 EQU X'02'	. MICR SUBR25 SSP SUPPORT [R4]	24060000
23530000	2406 *		EQU X'01'	. RESERVED	24070000
23540000	2407 *				24080000
23550000	008E	2408	SCADCSP3 EQU SCADCSP2+1	1 CSP <-----> MSP INTERFACE BYTE	24090000
23560000	0080	2409	SCAMLCA EQU X'80'	. MLC CONTROLLER ATTACHED [R6]	24100000
23570000	0040	2410	SCAMSCB EQU X'40'	. WLC 'B' CONTROLLER ATTACHED [R6]	24110000
23580000	0020	2411	SCAMCFER EQU X'20'	. CONFIG RECORD TUB COUNT ERROR [R1]	24120000
23590000	2412 *		EQU X'10'	. RESERVED	24130000
23600000	2413 *		EQU X'08'	. RESERVED	24140000
23610000	2414 *		EQU X'04'	. RESERVED	24150000
23620000	0002	2415	SCADTLOK EQU X'02'	. TERMINAL UNIT BLOCK CHAIN LOCKED	24160000
23630000	2416 *		EQU X'01'	. RESERVED	24170000
23640000	2417 *				24180000
23650000	0090	2418	SCADSNAT EQU SCADCSP3+2	2 TCB ADDRESS OF SNA TASK	24190000
23660000	2419 *				24200000
23670000	0091	2420	SCADLIN# EQU SCADSNAT+1	1 COMMUNICATIONS CONFIGURATION	24210000
23680000	2421 *				24220000
23690000	2422 *		NOTE: THIS BYTE DESCRIBES HOW THE COMMUNICATION HARDWARE IS		24230000
23700000	2423 *		DEFINED. BITS 0-3 DESCRIBE COMMUNICATION LINES. BITS 4-7		24240000
23710000	2424 *		DESCRIBE AUTOCALL LINES. BITS 0-7 DESCRIBE X.21 LINES.		24250000
23720000	2425 *		FOR EXAMPLE:		24260000
23730000	2426 *		AUTOCALL ON LINE 3 AND COMMUNICATIONS ON LINES		24270000
23740000	2427 *		1, 2, AND 4 WOULD BE X'D2'.		24280000
23750000	2428 *		X.21 ON LINE 1 AND COMMUNICATIONS ON LINE 2		24290000
23760000	2429 *		WOULD BE X'C8'.		24300000
23770000	2430 *		AUTOCALL AND X.21 ARE MUTUALLY EXCLUSIVE.		24310000
23780000	2431 *				24320000
23790000	0080	2432	SCAMLIN1 EQU X'80'	. COMMUNICATIONS ON LINE 1	24330000
23800000	0040	2433	SCAMLIN2 EQU X'40'	. COMMUNICATIONS ON LINE 2 [R3]	24340000
23810000	0020	2434	SCAMLIN3 EQU X'20'	. COMMUNICATIONS ON LINE 3 [R6]	24350000
23820000	0010	2435	SCAMLIN4 EQU X'10'	. COMMUNICATIONS ON LINE 4 [R6]	24360000
23830000	2436 *				24370000
23840000	0008	2437	SCAMCUI EQU X'08'	. AUTO CALL ON LINE 1 [R6]	24380000
23850000	0004	2438	SCAMCUI2 EQU X'04'	. AUTO CALL ON LINE 2 [R6]	24390000
23860000	0002	2439	SCAMCUI3 EQU X'02'	. AUTO CALL ON LINE 3 [R6]	24400000
23870000	0001	2440	SCAMCUI4 EQU X'01'	. AUTO CALL ON LINE 4 [R6]	24410000
23880000	2441 *				24420000
23890000	0088	2442	SCAMCZ11 EQU X'88'	. X.21 ON LINE 1 [R8]	24430000
23900000	0044	2443	SCAMCZ12 EQU X'44'	. X.21 ON LINE 2 [R8]	24440000
23910000	0022	2444	SCAMCZ13 EQU X'22'	. X.21 ON LINE 3 [R8]	24450000
23920000	0011	2445	SCAMCZ14 EQU X'11'	. X.21 ON LINE 4 [R8]	24460000
23930000	2446 *				24470000

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ERR LOC OBJECT CODE	ADDR	STMT	SOURCE STATEMENT		ERR LOC OBJECT CODE
04310000	0029	484	WAIT EQU X'29'	. WAITER COMMAND CODE	04850000
04320000	0001	485	JOIN EQU C'J'	. JOIN COMMAND CODE	04860000
04330000	00C4	486	STATUS EQU C'D'	. STATUS COMMAND CODE	04870000
04340000	00C3	487	CANCEL EQU C'C'	. CANCEL COMMAND CODE	04880000
04350000	00E5	488	VARY EQU C'V'	. VARY COMMAND CODE	04890000
04360000	0009	489	REPLY EQU C'R'	. REPLY COMMAND CODE	04900000
04370000	00D7	490	STOP EQU C'P'	. STOP COMMAND CODE	04910000
04380000	00E2	491	START EQU C'S'	. START COMMAND CODE	04920000
	00C2	487	RESTART EQU C'T'	. RESTART COMMAND CODE	04930000

4077	41870000
*/	41880000
4078	41890000
ZE */	41900000
4079	41910000
4079	41920000
4079	41930000
4079	41940000
*/	41950000
4080	41960000
	41970000

0A12 5C 01 08 05	4237	PWC	#FNDDLRK(2, XR1), #FNDDLRK(, XR1) /* SET LOAD ADDR	@478*/	42380000
0A16 8D 07 28 08A3	4238	CLC	JCBOPRIG(8, XR2), NIPMBC21 /* X.21 TASK?	@478*/	42390000
0A1B F2 01 03	4239	JNE	NIPACUD4 /* JUMP IF NOT	@478*/	42400000
0A1E 7A 40 0C	4240	SDN	BATFLAG(, XR1), BAREAL /* X.21, SET LOGICAL=REAL	@478*/	42410000
0A21 F4 01 10	4241	NIPACUD4 SVC	SVCKIENT, QREFRESH /* ATTACH AUTOCALL/X.21	@478*/	42420000
0A24 0CD6	0A25 4242	DC	AL2(NIPSSATC) /*	*/	42430000
	4243 *	NIPMORK=REG(XR1);	/* STORE RETURN CODE	*/	42440000
0A26 34 01 OCC1	4244	ST	NIPMORK, XR1	4117	42450000
	4245 *	IF NIPMORK(1:1) = 0 THEN	/* DID ATTACH FAIL?	*/	42460000
0A2A 3D 00 OCC0	4246	CLI	NIPMORK-001, 0	4118	42470000
	4247 *	DO;	/* YES, ERROR CONDITION EXISTS */	*/	42480000
0A2E F2 01 07	4248	JNE	MSCB0490	4119	42490000

0A5B F4 01 10	
0A5E 0CFA	

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#MISCPR #MISCP - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 49 V09/11/81 12/08/81 02:16	
ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT		
0095 2447 SCADREJ EQU	SCADLIN*+4 4	END-OF-JOB SVC	24480000
0095 2448 SCAPLW5 EQU	SCADREJ 2	IPL WORK AREA	24490000
0092 2449 SCADREJ EQU	SCADREJ-3	START OF END-OF-JOB SVC	24500000
2450 *			24510000
0093 2451 SCADCON1 EQU	SCADREJ*+1	CONSTANT X'01'	24520000
2452 *			24530000
0097 2453 SCADTBUF EQU	SCADREJ*+2 2	COMMUNICATIONS BUFFER SIZE	24540000
2454 *			24550000
0098 2455 SCADWSQS EQU	SCADTBUF*+1 1	WORK STATION QUEUE SPACE (1/4K)	24560000
2456 *			24570000
0099 2457 SCADWSQS EQU	SCADWSQS*+1 1	SYSTEM QUEUE SPACE (1/4K)	24580000
2458 *			24590000
009A 2459 SCADTRS2 EQU	SCADWSQS*+1 1	TRACE BUFFER SPACE (1/4K)	24600000
2460 *			24610000
009B 2461 SCADSN1 EQU	SCADTRS2*+1 1	SNA BATCH TASK USE COUNT (R3)	24620000
009C 2462 SCADSN7 EQU	SCADSN1*+1 1	SNA REMOTE TASK USE COUNT (R3)	24630000
009D 2463 SCADSDLS EQU	SCADSN7*+1 1	SDLC SECONDARY TASK USE COUNT (R3)	24640000
009E 2464 SCADSDLP EQU	SCADSDLS*+1 1	SDLC PRIMARY TASK USE COUNT (R3)	24650000
2465 *			24660000
009F 2466 SCADCFG7 EQU	SCADSDLP*+1 1	HISTORY FILE CONFIGURATION (R3)	24670000
0080 2467 SCAPHWP EQU	X'80'	HISTORY-AUTOMATIC WRAP INDICATOR	24680000
2468 *		1 - AUTO WRAP HISTORY FILE	24690000
2469 *		0 - NO HISTORY AUTO WRAP	24700000
0040 2470 SCAPHDEL EQU	X'40'	HISTORY-OVERFLOW FILE DELETE	24710000
2471 *		1 - DELETE OVERFLOW FILE	24720000
2472 *		0 - DONT DELETE OVERFLOW FILE	24730000
0020 2473 SCAPHFMT EQU	X'20'	HISTORY-REFORMAT OVERFLOW FILE	24740000
2474 *		1 - REFORMAT OVERFLOW FILE @ IPL	24750000
2475 *		0 - DONT REFORMAT OVERFLOW FILE	24760000
0020 2476 SCAPHALC EQU	X'20'	HISTORY-ALLOCATE OVERFLOW FILE	24770000
2477 *		AFTER IPL	24780000
0010 2478 SCAPHLOC EQU	X'10'	HISTORY-OVERFLOW FILE PREFERRED	24790000
2479 *		LOCATION	24800000
2480 *		1 - SPINDLE A1	24810000
2481 *		0 - SPINDLE A2	24820000
000F 2482 SCAPHVSZ EQU	X'0F'	HISTORY-OVERFLOW FILE SIZE (BITS	24830000
2483 *		4-7 (X'0F') IN MULTIPLES OF THE	24840000
2484 *		HISTORY FILE (1-8).	24850000
2485 *			24860000
00A2 2486 SCADRSEC EQU	SCADCFG7*+3 3	RESERVED FOR SECURITY USE	24870000
2487 *			24880000
00A4 2488 SCADHFUK EQU	SCADRSEC*+2 2	SECTOR OFFSET OF VTDC ENTRY: (R3)	24890000
2489 *		HISTORY OVERFLOW FILE, #HISTOVF	24900000
2490 *			24910000
00A6 2491 SCADWRGA EQU	SCADHFUK*+2 2	ADDRESS COMPARE WORKAREA ADDR (R3)	24920000
2492 *			24930000
00A7 2493 SCADCFG8 EQU	SCADWRGA*+1 1	SSP CONFIGURATION (R3)	24940000
2494 *			24950000
0040 2495 SCAPHWSP EQU	X'40'	USE WORK STATION PRINTER (R6)	24960000
2496 *			24970000
2497 *			24980000
2498 *			24990000
2499 *			25000000
2500 *			25010000

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#MISCPR #MISCP - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 13 V09/11/81 12/08/81 02:16	
ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT		
04850000	538 *	OR OUTPUT TO #CPOC	05390000
04860000	002A 539 CINCUSID EQU	CINCUSID*+2 ADDRESS OF MSG SUBSTITUTION DATA	05400000
04870000	0006 540 CINCULEN EQU	CINCUSID-CPOC*+1 LENGTH OF PARAM LIST	05410000
04880000	542 *	WORKAREA	05430000
04890000	543 *	RECOMMENDED * THIS PART OF THE WORKAREA CAN BE USED BY COMMAND *	05440000
04900000	544 *	USE * PROCESSOR XIENTS IN ANYWAY DESIRED. *	05450000
04910000	545 *		05460000

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42870000	16	0A89 75 02 82	4338	L	SCADCPMBK(XR1),XR2	4179	43390000	0A00 F2 01 09
42880000			4339 *		XR2->CFCUMSDK(1:8)=NIPAWMSG; /* STORE MESSAGE IN WORK AREA */		43400000	
42890000		0A8C 8C 07 2A 08B3	4340		MVC CFCUMSDK(O08,XR2),NIPAWMSG	4180	43410000	
42900000			4341 *	GEN;	/* ISSUE IN AUTO VARY MESSAGE */		43420000	0A03 4C 00 6B 0273
42910000	17	0A91 F4 01 10	4342	SVC	SWCXIENT,QREFRESH		43430000	
42920000		0A94 OCC4	0A95 4343	DC	ALZ(NIPACMCU)		43440000	
42930000			4344 *	END;			43450000	0A08 F4 00 1D
42940000	18		4345 *		XR1->SCAIPLW1(1:8)=XR1->SCAIPLW1(1:8)-XR1->SCAIPLW1(1:8); /* RESET*/		43460000	0A0B 10
42950000			0A96 4346	MSCA0580 EQU *		4186	43470000	
42960000			0A96 4347	MSCA0560 EQU *		4186	43480000	
42970000	19	0A96 5F 07 6B 6B	4348	SVC	SCAIPLW1(O08,XR1),SCAIPLW1(XR1)	4186	43490000	
42980000			4349 *		XR1->SCARDVOL(1:6)=C'IPLIPL'; /* INIT VOLUME LABEL SAVE AREA*/		43500000	OADC
	20	0A9A 4C 05 66 0B45	4350	MVC	SCARDVOL(O06,XR1),MSCA002	4187	43510000	OADC

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ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT			ERR LOC	OBJECT CODE	
	25020000	00C1	2555 *				25560000			
	25030000		00C1 2556	SCADXM11 EQU	SCADXMID-1	EXAM IDS 1-7	IR61		25570000	
	25040000		2557 *	EQU	X'80'				25580000	
	25050000	0040	2558	SCAMSPRK EQU	X'40'	01 - RESERVED			25590000	
	25060000	0020	2559	SCAMLSMF EQU	X'20'	02 - PLCA SMF			25600000	
	25070000		2560 *	EQU	X'10'	03 - RESERVED			25610000	
	25080000		2561 *	EQU	X'08'	04 - RESERVED			25620000	
	25090000		2562 *	EQU	X'04'	05 - RESERVED			25630000	
	25100000		2563 *	EQU	X'02'	06 - RESERVED			25640000	
	25110000		2564 *	EQU	X'01'	07 - RESERVED			25650000	
	25120000		2565 *						25660000	
	25130000	00C2	2566	SCADXM12 EQU	SCADXMID	EXAM IDS 8-15	IR61		25670000	
	25140000		2567 *	EQU	X'80'	08 - RESERVED			25680000	
	25150000		2568 *	EQU	X'40'	09 - RESERVED			25690000	
	25160000		2569 *	EQU	X'20'	0A - RESERVED			25700000	
	25170000		2570 *	EQU	X'10'	0B - RESERVED			25710000	
	25180000		2571 *	EQU	X'08'	0C - RESERVED			25720000	
	25190000		2572 *	EQU	X'04'	0D - RESERVED			25730000	
	25200000		2573 *	EQU	X'02'	0E - RESERVED			25740000	
	25210000		2574 *	EQU	X'01'	0F - RESERVED			25750000	
	25220000		2575 *						25760000	
	25230000	00C3	2576	SCADCP3 EQU	SCADXMID+1	1 COMMAND PROCESSOR SWITCH 3	IR41		25770000	
	25240000	0080	2577	SCASTOPS EQU	X'80'	STOP SESSION ACTIVE			25780000	
	25250000	0040	2578	SCAMDCKF EQU	X'40'	REBUILD-DELETE CHECKPOINT FILES			25790000	
	25260000	0020	2579	SCAMRILP EQU	X'20'	INITIALIZE LINE PRINTER	IR51		25800000	
	25270000	0010	2580	SCAMILOCL EQU	X'10'	PLCA LOCH LOADED	IR61		25810000	
	25280000	0008	2581	SCAMLATF EQU	X'08'	PLCA ERROR ATTACH FAILURE	IR61		25820000	
	25290000	0004	2582	SCAMFUND EQU	X'04'	DISKETTE HAS EXTENDED LABELS	IR71		25830000	
	25300000	0002	2583	SCAMPK21S EQU	X'02'	X.21 SWITCHED	IR81		25840000	
	25310000	0001	2584	SCAMDDDD EQU	X'01'	DISKETTE HAS NON-SEQ. RECORDS	IR81		25850000	
	25320000		2585 *						25860000	
	25330000	00C4	2586	SCADCF6 EQU	SCADCP3+1	1 CONFIGURATION BYTE 6	IR41		25870000	
	25340000		2587 *	NOTE: THIS BYTE CONTAINS THE SAME BIT MASKS AS SYSTEM CONFIGURATION					25880000	
	25350000		2588 *	BYTE 'COND CF6'					25890000	
	25360000	0080	2589	SCACKRST EQU	X'80'	CHECKPOINT/RESTART CONFIGURED			25900000	
	25370000		2590 *	EQU	X'40'	RESERVED			25910000	
	25380000	0020	2591	SCAMSHFC EQU	X'20'	SHF FEATURE CONFIGURED			25920000	
	25390000	0010	2592	SCAMDFA EQU	X'10'	DUMP FILE ANALYSIS	IR51		25930000	
	25400000	0008	2593	SCAMTEXC EQU	X'08'	I EXCHANGE	IR61		25940000	
	25410000	0004	2594	SCAMSUBS EQU	X'04'	SUBCONSOLE SUPPORT	IR51		25950000	
	25420000	0002	2595	SCAMURSF EQU	X'02'	SPOOL FILE ACCESS	IR51		25960000	
	25430000	0001	2596	SCAMEDDM EQU	X'01'	EXTENDED DISK DATA MAN.	IR61		25970000	
	25440000		2597 *						25980000	
	25450000	00C6	2598	SCADICSA EQU	SCADCF6+2	2 ICS COMMUNICATION AREA ADDR	IR41		25990000	
	25460000		2599 *						26000000	
	25470000	00C8	2600	SCADRFR EQU	SCADICS+8	8 RESERVED			26010000	
	25480000		2601 *						26020000	
	25490000	0006	2602	SCADUCFG EQU	SCADRFR+8	8 UDT COMM CONFIGURATION	IR31		26030000	
	25500000	0005	2603	SCAUDT1 EQU	SCADUCFG-1	LINE 1 CONFIGURATION (BYTE 0)	IR31		26040000	
	25510000	0003	2604	SCAUDT2 EQU	SCADUCFG-3	LINE 2 CONFIGURATION (BYTE 0)	IR31		26050000	
	25520000	0001	2605	SCAUDT3 EQU	SCADUCFG-5	LINE 3 CONFIGURATION (BYTE 0)	IR61		26060000	
	25530000	00CF	2606	SCAUDT4 EQU	SCADUCFG-7	LINE 4 CONFIGURATION (BYTE 0)	IR61		26070000	
	25540000		2607 *	NOTE -> SEE COMPRESSED UNIT DEFINITION TABLE (UDT)					26080000	
	25550000		2608 *	DESCRIPTION FOR DEFINITION OF BITS					26090000	

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ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT			ERR LOC	OBJECT CODE	
	05930000	001F	646	CANUNLTD EQU	31	AUTOMATIC LOGGING AGENT			06470000	
		0020	647	CANUNLTD EQU	32	X.21 LOGGING AGENT	B		06480000	
	05950000		648 *						06490000	
	05960000		649 ***	END OF EXPANSION ***					06500000	
	05970000		650 *	DIRECT					06510000	
	05980000		651 *	*****					06520000	
	05990000		652 *	*****					06530000	
			653 **	DIRECT STORAGE AREAS USED PRIMARILY BY THE CTRL STG NUCLEUS **					06540000	

4179	43390000
4180	43400000
4181	43410000
4182	43420000
4183	43430000
4184	43440000
4185	43450000
4186	43460000
4187	43470000
4188	43480000
4189	43490000
4190	43500000
4191	43510000

01	0A00 F2 01 09	4388	JNE MSC0670
02		4389 *	XRI->TCBTSKID=VAR(CNUMCPTCB+TCBNSCNT)(1:1); /*SET TASK ID 0010
03	0AD3 4C 00 6B 0273	4390	MVC TCBTSKIDC,XRI),NUMCPTCB+TCBNSCNT
04		4391 *	GEN;
05		4392 *	TPOST MASK-TCBDWAIT /* POST STARTUP TASK
06	0AD8 F4 00 1D	4393	SVC SVCTPOST,0
07	0ADB 10	0ADB 4394	DC AL1(TCBDWAIT)
08		4395 ***	END OF EXPANSION **
09		4396 *	END;
10		4397 *	END;
11		0ADC 4398	MSC0670 EQU *
12		0ADC 4399	MSC0650 EQU *

01	01A 10 00 001	4400	CL1 SCAPLUM+1,0
02	01B 12 01 04	4411 *	SCAPLUM+1(1:1)=SCMTRIP; /* YES, SET FLAG
03	01C 10 00 001	4443	YMI SCAPLUM+1,SCMTRIP
04		4444 *	REG(CR1)=ADDR(NUMCPTCB+TCBTSKID); /* NO. PR. C.P. TTC
05	01F 02 01 020	0B1F 4445	MSC0670 EQU *
06		4446	LA NUMCPTCB+TCBTSKID,XRI
07		4447 *	GEN;
08	023 F4 00 03	4448 *	POST DEV-QDQTT,PREPT-ND /*INDICATE REBUILD DONE
09	024 4	4449	SVC SVCTPOST,QD
10	026 4	0B26 4450	DC AL1(QDQTT)

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01	ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT	
02	25560000	2609 *	WITHIN THE INDIVIDUAL CONFIGURATION
03	25570000	2610 *	BYTES. EACH ENTRY IS TWO BYTES LONG.
04	25580000	2611 *	BYTE 0: SEE LABEL 'UDTOCMF1'
05	25590000	2612 *	BYTE 1: SEE LABEL 'UDTOCMF3' FOR BITS 0-3.
06	25600000	2613 *	BITS 4-7 (X'0F') MAP THE DEVICE
07	25610000	2614 *	ADDRESS (PRIORITY) OF THE UT LINE
08	25620000	2615 *	ENTRY. FOR EXAMPLE X'80' MAPS TO
09	25630000	2616 *	X'08'. SEE EQUATES BELOW.
10	25640000	0008 2617	SCAMP80 EQU X'08' UDT DEVICE ADDRESS X'80'
11	25650000	0004 2618	SCAMP40 EQU X'04' UDT DEVICE ADDRESS X'40'
12	25660000	0002 2619	SCAMP20 EQU X'02' UDT DEVICE ADDRESS X'20'
13	25670000	0001 2620	SCAMP10 EQU X'01' UDT DEVICE ADDRESS X'10'
14	25680000	2621 *	
15	25690000	0008 2622	SCADCKK@ EQU SCADUCFG+2 2 KATAKANA/KANJI COMM AREA
16	25700000	2623 *	
17	25710000	0009 2624	SCADSSPF EQU SCADCKK@+1 1 SSP FEATURE INDICATORS
18	25720000	0080 2625	SCAMKKKF EQU X'80' KATAKANA/KANJI FEATURE
19	25730000	2626 *	EQU X'40' RESERVED
20	25740000	2627 *	EQU X'20' RESERVED
21	25750000	2628 *	EQU X'10' RESERVED
22	25760000	2629 *	EQU X'08' RESERVED
23	25770000	2630 *	EQU X'04' RESERVED
24	25780000	2631 *	EQU X'02' RESERVED
25	25790000	0001 2632	SCAMK21 EQU X'01' X.21 FEATURE
26	25800000	2633 *	
27	25810000	00FF 2634	SCADCPYR EQU 255 38 COPYRIGHT
28	25820000	2635 *	
29	25830000	00E0 2636	SCADMPTR EQU SCADCPYR-31 32 TERMINATION DUMP ATR STACK.
30	25840000	2637 *	USED BY ABNORMAL TERMINATION
31	25850000	2638 *	WHEN DUMPING MORE THAN 64 K
32	25860000	2639 *	MAIN STORAGE. COPYRIGHT WILL BE
33	25870000	2640 *	RESTORED WHEN DUMP IS COMPLETE.
34	25880000	2641 *	
35	25890000	2642 ***	END OF EXPANSION **
36	25900000	2643 *	SVEQU SUPERVISOR CALL EQUATES
37	25910000	2644 *	
38	25920000	2645 *	SVC R-BYTE EQUATES
39	25930000	2646 *	
40	25940000	0000 2647	SVCGWAIT EQU X'00' GENERAL WAIT
41	25950000	0001 2648	SVCGPOST EQU X'01' GENERAL POST
42	25960000	0002 2649	SVCGWAIT EQU X'02' WAIT
43	25970000	0003 2650	SVCGPOST EQU X'03' POST
44	25980000	0004 2651	SVCFER EQU X'04' TRANSFER CONTROL/SYSTEM TRANSIENT
45	25990000	0005 2652	SVCMSTK EQU X'05' STACK MANIPULATION
46	26000000	0006 2653	SVCSSEN EQU X'06' ASSIGN
47	26010000	0007 2654	SVCFREE EQU X'07' FREE
48	26020000	0008 2655	SVCSISEC EQU X'08' INCREMENT SYSTEM EVENT COUNTERS
49	26030000	0009 2656	SVCSSENW EQU X'09' SENSE CONSOLE DATA SWITCHES
50	26040000	000A 2657	SVCSSEN EQU X'0A' ASSIGN SYSTEM QUEUE SPACE SVC
51	26050000	000B 2658	SVCPSPC EQU X'0B' PSEUDO DELAYED SVC POST ACT FUNCTION
52	26060000	000C 2659	SVCLDATR EQU X'0C' LOAD ATRIS
53	26070000	000D 2660	SVCPYR EQU X'0D' ALTER PROGRAM MODE REGISTER (PMR)
54	26080000	000E 2661	SVQQUEU EQU X'0E' QUEUE / DEQUEUE SYSTEM CONTROL BLOCK
55	26090000	000F 2662	SVCSQB EQU X'0F' SYSTEM CONTROL BLOCK ACCESS

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01	ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT	
02	0010 2663	SVCKEQU EQU X'10'	TRANSIENT/TWOSER USER SPECIFIED
03	0011 2664	SVCKEQU EQU X'11'	TRANSIENT/TWOSER EXIT SVC
04	0012 2665	SVCKEPT EQU X'12'	PREPARE
05	0013 2666	SVCKEPT EQU X'13'	PREPARE
06	0014 2667	SVCKEPT EQU X'14'	INTERNAL TIMER QUEUE
07	0015 2668	SVCKEPT EQU X'15'	INTERNAL TIMER QUEUE
08	0016 2669	SVCKEPT EQU X'16'	INTERNAL TIMER QUEUE
09	0017 2670	SVCKEPT EQU X'17'	ASYNCHRONOUS TASK WAIT
10	0018 2671	SVCKEPT EQU X'18'	SET TRANSIENT AREA NOT BUSY
11	0019 2672	SVCKEPT EQU X'19'	POST ATR SVC
12	001A 2673	SVCKEPT EQU X'1A'	LOG TRACE INFORMATION
13	001B 2674	SVCKEPT EQU X'1B'	SCAN SYSTEM QUEUE ROUTINE
14	2675 *	EQU X'1C'	RESERVED
15	001D 2676	SVCKEPT EQU X'1D'	TASK POST
16	001E 2677	SVCKEPT EQU X'1E'	TASK WAIT
17	001F 2678	SVCKEPT EQU X'1F'	TIMER INTERRUPT HANDLER
18	0020 2679	SVCKEPT EQU X'20'	ALTER QUEUE COUNTER
19	0021 2680	SVCKEPT EQU X'21'	RESOURCE QUEUE
20	0022 2681	SVCKEPT EQU X'22'	RESOURCE QUEUE
21	0023 2682	SVCKEPT EQU X'23'	DUMP MAIN STORAGE/TEMPORARY ASK
22	0024 2683	SVCKEPT EQU X'24'	TEST AND SET
23	0025 2684	SVCKEPT EQU X'25'	TCP PRIORITY QUEUE
24	0026 2685	SVCKEPT EQU X'26'	ASYNCHRONOUS TASK READY CHECK.
25	0027 2686	SVCKEPT EQU X'27'	PREPARE PRINTER OUTPUT
26	0028 2687	SVCKEPT EQU X'28'	DISPATCHER SVC
27	0029 2688	SVCKEPT EQU X'29'	REWRITE PRINTER SET UP.
28	002A 2689	SVCKEPT EQU X'2A'	SECTOR QUEUE/QUEUE
29	002B 2690	SVCKEPT EQU X'2B'	REMOVE DATA BY ID
30	002C 2691	SVCKEPT EQU X'2C'	POST TASK BY ID
31	002D 2692	SVCKEPT EQU X'2D'	QUEUE COUNTER WAIT
32	002E 2693	SVCKEPT EQU X'2E'	TRANSLATED ASSIGNMENT
33	002F 2694	SVCKEPT EQU X'2F'	RETURN TYPE-OF-WAIT IN TIMER UNITS
34	2695 *		
35	2696 *		*-INDICATES NOT USABLE FROM MAIN STORE

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01	ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT	
02	06470000	6999	*****
03	06480000	7000 *	"UNUSED WORDS"
04	06490000	7001	
05	06500000	000B 7002	DIJANUSOB EQU DIJANUSOB+1 UNUSUED
06	06510000	0009 7003	DIJANUSOB EQU DIJANUSOB+1 BEST FIT ASSIGN SHARE AREA
07	06520000	000A 7004	DIJANUSOB EQU DIJANUSOB+1 REMAIN SWAP IN COMMANDS 46
08	06530000	000B 7005	DIJANUSOB EQU DIJANUSOB+1 CURRENT FEATURE - ZIB) 46
09	06540000	000C 7006	DIJANUSOB EQU DIJANUSOB+1 STORE FEATURE INFORMATION FOR ATR

PAGE 16	V09/11/81	12/08/81	02:16
01	ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT	
02	0001 754	DIJANUSOB EQU DIJANUSOB+1	ADDR OF START OF RES STACK
03	0002 755	DIJANUSOB EQU DIJANUSOB+1	ADDR OF UNUSUED SVC TABLE
04	0003 756	DIJANUSOB EQU DIJANUSOB+1	MULTIPLY NUMBER OF PAGES TO PRINTAL SW
05	0004 757	DIJANUSOB EQU DIJANUSOB+1	ADDR OF LOW ATR ROUTINE IN SEGMENT 0
06	0005 758	DIJANUSOB EQU DIJANUSOB+1	ADDR OF START OF RES REGISTER SW
07	0006 759	DIJANUSOB EQU DIJANUSOB+1	SYSTEM CONTROL TABLE ADDRESS
08	0007 760	DIJANUSOB EQU DIJANUSOB+1	ADDR OF ADDRESS TIMER VALUE

4205	43810000
4205	43820000
4206	43840000
4207	43850000
4207	43870000
4208	43890000
4209	43910000
4217	43990000
4217	44000000

0804 BB 80 01	4429	SBF	PPSFLAG1(XR2),PPSCPB1T /* RESET SSP FLAG */	44300000
0807 BC 00 1F	4430	MVI	PPSUPS1C(XR2),D /* RESET EXTERNAL INDICATORS */	44310000
080A F4 00 51	4431 *	TWA	FUNC=PUT,TAG=TWAMPS12,N=1,XL=YES,AREA=USWA	44320000
080D 05	4432	SVC	81,0 ISSUE TWA REQUEST	44330000
080E 01	080D 4433	DC	AL1(1+0+4) FUNCTION BYTE	44340000
080F 01	080E 4434	DC	AL1(TWAMPS12) TAG	44350000
	080F 4435	DC	AL1(1) LENGTH (IN SECTORS)	44360000
	4436 ***		END OF EXPANSION **	44370000
0810 3A 02 0012	4437 *	SCADCFG1(1:1)=DNKSCAMJQFM;	/* SET REBUILD COMPLETE @145*/	44380000
	4438	SBN	SCADCFG1,SCAMJQFM	44390000
0814 3D 00 0061	4439 *	IF	SCAIPLWK+1(1:1)=0 THEN /* NEED TO SET STARTUP FLAG? */	44400000
	4440	CLI	SCAIPLWK+1,0	44410000
	4441 *	SCAIPLWK+1(1:1)=SCAMIPUP;	/* YES, SET FLAG */	44420000
0818 F2 01 04	4442	JNE	MSC80760	44430000
0818 3C 10 0061	4443	MVI	SCAIPLWK+1,SCAMIPUP	44440000
	4444 *	REG(XR1)=ADDR(NUBCPTCB+TCBTTC-1);	/* XR1 PTR C.P. TTC @145*/	44450000
081F C2 01 0250	081F 4445	MSC80760 EQU *	4445	44460000
	4446	LA	NUBCPTCB+TCBTTC-1,XR1	44470000
	4447 *	GEN;		44480000
0823 F4 00 03	4448 *	POST	DEV-QHD TTC,PREMPT-ND /*INDICATE REBUILD DONE @145*/	44490000
	4449	SVC	SVCPOST,Q0	44500000
0826 48	0826 4450	DC	AL1(QHD TTC)	44510000

0838 7BC9D7D3D7D9D6
0840 C9D7D3C9D7D3

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ON	26100000		
ONG.	26110000		
26120000			
BITS 0-3.	26130000		
DEVICE	26140000		
UDT LINE	26150000		
MAPS TO	26160000		
	26170000		
R3I	26180000		
R6I	26190000		
R3I	26200000		
R6I	26210000		
	26220000		
R6I	26230000		
	26240000		
R6I	26250000		
R6I	26260000		
	26270000		
	26280000		
	26290000		
	26300000		
	26310000		
	26320000		
R8I	26330000		
	26340000		
	26350000		
	26360000		
	26370000		
	26380000		
	26390000		
	26400000		
	26410000		
	26420000		
	26430000		
	26440000		
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	26600000		
	26610000		
	26620000		
	26630000		

**MSCPR **MSCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 53 V09/11/81 12/08/81 02:16	
ERR LOC OBJECT CODE	ADDR STMT	SOURCE STATEMENT	
02	0010 2663	SVCXIENT EQU X'10'	TRANSIENT/TRANSFER-USER SPECIFIED
	0011 2664	SVCEXIT EQU X'11'	TRANSIENT/TRANSFER EXIT SVC
03	0012 2665	SVCGETP EQU X'12'	GETPAGE
	0013 2666	SVCFREEP EQU X'13'	FREEPAGE
	0014 2667	SVCXTIN EQU X'14'	* INTERVAL TIMER ENQUEUE
	0015 2668	SVCXTID EQU X'15'	* INTERVAL TIMER DEQUEUE
04	0016 2669	SVCXTIR EQU X'16'	* INTERVAL TIMER REMAINDER
	0017 2670	SVCXTWT EQU X'17'	ASYNCHRONOUS TASK WAIT
	0018 2671	SVCXNTOF EQU X'18'	SET TRANSIENT AREA NOT BUSY
05	0019 2672	SVCPOSTA EQU X'19'	POST ACE SVC
	001A 2673	SVCLOG EQU X'1A'	LOG TRACE INFORMATION
	001B 2674	SVCQSCAN EQU X'1B'	SCAN SYSTEM QUEUE ROUTINE
06		2675 * EQU X'1C'	RESERVED
	001D 2676	SVCPOST EQU X'1D'	TASK POST
	001E 2677	SVCWAIT EQU X'1E'	TASK WAIT
07	001F 2678	SVCXTH EQU X'1F'	* TIMER INTERRUPT HANDLER
	0020 2679	SVCQS EQU X'20'	ALTER QUIESCE COUNTER
	0021 2680	SVCRENQ EQU X'21'	RESOURCE ENQUEUE
08	0021 2681	SVCRDEQ EQU SVCRENQ	RESOURCE DEQUEUE
	0022 2682	SVCDCMP EQU X'22'	DUMP MAIN STORAGE/TERMINATE TASK
	0023 2683	SVCTEST EQU X'23'	TEST AND SET
09	0024 2684	SVCPRIQ EQU X'24'	TCB PRIORITY QUEUE
	0025 2685	SVCROYCK EQU X'25'	ASYNCHRONOUS TASK READY CHECK.
	0026 2686	SVCPREP EQU X'26'	PREPARE PRINTER OUTPUT
10	0027 2687	SVCDSPECH EQU X'27'	DISPATCHER SVC
	0028 2688	SVCPRPT EQU X'28'	REMOTE PRINTER SET UP.
	0029 2689	SVCSSQ EQU X'29'	SECTOR ENQUEUE/DEQUEUE
11	002A 2690	SVCOWEI EQU X'2A'	MOVE DATA BY ID
	002B 2691	SVCPOSTI EQU X'2B'	POST TASK BY ID
	002C 2692	SVCQWAIT EQU X'2C'	QUIESCE COUNTER WAIT
12	002D 2693	SVCMAF EQU X'2D'	TRANSLATED ASSIGN/FREE
	002E 2694	SVCXUD EQU X'2E'	RETURN TIME-OF-DAY IN TIMER UNITS
		2695 *	
13		2696 * *-INDICATES NOT USEABLE FROM MAIN STORE	

**MSCPR **MSCPR - MAIN	
ERR LOC OBJECT CODE	
02	26640000
	26650000
	26660000
	26670000
	26680000
	26690000
	26700000
	26710000
	26720000
	26730000
	26740000
	26750000
	26760000
	26770000
	26780000
	26790000
	26800000
	26810000
	26820000
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	26880000
	26890000
	26900000
	26910000
	26920000
	26930000
	26940000
	26950000
	26960000
	26970000

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4251	44430000	17
4251	44440000	
/* XRI PTR C.P. TTC @145*/	44450000	18
4252	44460000	
4252	44470000	
	44480000	19
/*INDICATE REBUILD DONE @145*/	44490000	
	44500000	
	44510000	20

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TRANSIENT/TRANSFER-USER SPECIFIED	26640000	
TRANSIENT/TRANSFER EXIT SVC	26650000	
PAGE	26660000	
PAGE	26670000	
PERIODIC TIMER ENQUEUE	26680000	
PERIODIC TIMER DEQUEUE	26690000	
PERIODIC TIMER REMAINDER	26700000	
PERIODIC TASK WAIT	26710000	
TRANSIENT AREA NOT BUSY	26720000	
ACE SVC	26730000	
TRACE INFORMATION	26740000	
SYSTEM QUEUE ROUTINE	26750000	
SERVED	26760000	
POST	26770000	
WAIT	26780000	
PER INTERRUPT HANDLER	26790000	
RESOURCES COUNTER	26800000	
RESOURCE ENQUEUE	26810000	
RESOURCE DEQUEUE	26820000	
MAIN STORAGE/TERMINATE TASK	26830000	
AND SET	26840000	
PRIORITY QUEUE	26850000	
PERIODIC TASK READY CHECK.	26860000	
PERIODIC PRINTER OUTPUT	26870000	
WATCHDOG SVC	26880000	
PERIODIC PRINTER SET UP.	26890000	
RESOURCE ENQUEUE/DEQUEUE	26900000	
DATA BY ID	26910000	
TASK BY ID	26920000	
RESOURCES COUNTER WAIT	26930000	
RELATED ASSIGN/FREE	26940000	
ON TIME-OF-DAY IN TIMER UNITS	26950000	
ON STORE	26960000	
	26970000	

MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION			PAGE 54 V09/11/81 12/08/81 02:16		
ERR LOC OBJECT CODE	ADDR STMT	SOURCE STATEMENT			
	2698 *	DELAYED SVC R-BYTE EQUATES			26990000
	0040 2699 SVCFD	EQU X'40'	DISK IOS		27000000
	0041 2700 SVCIO	EQU X'41'	DISKETTE IOCS		27010000
	0042 2701 SVCPT	EQU X'42'	WORKSTATION IOCH (PRINTER)		27020000
	0043 2702 SVCWSC	EQU X'43'	WORKSTATION IOCH (TERMINAL)		27030000
	0044 2703 SVCCOMM	EQU X'44'	COMMUNICATIONS IOCH		27040000
	0045 2704 SVCIOXNT	EQU X'45'	I/O TRANSIENT REQUEST		27050000
	004C 2705 SVCPQSV	EQU X'4C'	PSEUDO I/O REQUEST		27060000
	2706 *	X'46' -> X'4F'	RESERVED FOR I/O SVC'S		27070000
	0050 2707 SVCCXNT	EQU X'50'	CONTROL STORE TRANSIENT SCHEDULER		27080000
	0051 2708 SVCTWA	EQU X'51'	TASK WORK AREA ACCESS		27090000
	0052 2709 SVCLD	EQU X'52'	MAIN STORAGE RELOCATING LOADER		27100000
	2710 *	X'53' -> X'5C'	RESERVED FOR DELAYED SVC'S		27110000
	005C 2711 SVCKBTR	EQU X'5C'	KEYBOARD TRACE		27120000
	2712 *				27130000
	2713 *	SVC Q CODE EQUATES			27140000
	2714 *				27150000
	0001 2715 Q1	EQU X'01'	SVC SIGNIFICANT INDICATOR		27160000
	0001 2716 QWAIT	EQU X'01'	WAIT ON THIS SVC INDICATOR		27170000
	0001 2717 QREFRESH	EQU X'01'	REFRESH TRANSIENT/TRANSFER INDICATOR		27180000
	0002 2718 QNREF	EQU X'02'	NON-REFRESHABLE SVC INDICATOR		27190000
	0004 2719 QXLOFF	EQU X'04'	TRANSLATE OFF-IOB/PARM LIST-INDICATOR		27200000
	0004 2720 QSYSREQ	EQU X'04'	SPECIAL SYSTEM REQUEST FOR ASSIGN REC		27210000
	0004 2721 QFMEXM	EQU X'04'	FOR MOVEI - FROM ID IN EXAM 6		27220000
	0008 2722 QTDEXM	EQU X'08'	FOR MOVEI - TO ID IN EXAM 6		27230000
	0008 2723 QWAIT	EQU X'08'	MULTIPLE WAIT I/O REQUEST		27240000
	0008 2724 QCPWAIT	EQU X'08'	ASYNC ERROR WAIT REQUEST		27250000
	0010 2725 QSCT	EQU X'10'	SUBSYSTEM CONFIG TABLE @145		27260000
	0010 2726 QNQ	EQU X'10'	NON-QUIESCIBLE REQUEST INDICATOR		27270000
	0020 2727 QXR2	EQU X'20'	RETURN XR2 FROM POSTER ON WAIT.		27280000
	0040 2728 QXU	EQU X'40'	USE USERS TCB ON EXAM I/O REQUEST 6		27290000
	0000 2729 QO	EQU X'00'	IMMEDIATE SVC EQUATE		27300000
	0080 2730 CSCALL	EQU X'80'	CS SVC INDICATOR		27310000
	0019 2731 QNDW	EQU QNQ+QWAIT+QWAIT	NON-VOLUNTARY SWAPPABLE WAIT		27320000
	0018 2732 QNCPRI	EQU QNQ+QWAIT	NOT CHANGE PRIORITY ON WAIT 8		27330000
	0009 2733 QSPEC	EQU QWAIT+QWAIT	SPECIFIC WAIT ON NON-ECH.		27340000
	2734 *				27350000
	00F4 2735 SNOOP	EQU X'F4'	SVC OP CODE VALUE		27360000
	00F5 2736 SVCKFR	EQU X'F5'	SVC TRANSFER OP CODE		27370000
	2737 ***	END OF EXPANSION **			27380000
	2738 *	TCB			27390000
	2739	*****			27400000
	2740 *	T C B		*	27410000
	2741	*****			27420000
	2742 *00	* * * * *		*	27430000
	2743 * STAT1 * STAT2 * WMSK * WMSK2 *	* STAT3 * PRIOR * TTIME * QONT *			27440000
	2744	*****			27450000
	2745 *08	* * * * *		*	27460000
	2746 * CNPLQ * PUSH *	* CHAIN * RDYQ *			27470000
	2747	*****			27480000
	2748 *10	* * * * *		*	27490000
	2749 * XNTQ * RTUB *	* JCB * CDB *			27500000
	2750	*****			27510000
	2751 *18	* * * * *		*	27520000

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*****	07540000	
ADDRESS OF START OF REG STACK	07550000	
ADDRESS OF IMMEDIATE SVC TABLE	07560000	
MINIMUM NUMBER OF PAGES TO PARALLEL SWAP	07570000	
ADDRESS OF LOAD APTX REDUCTION IN SEGMENT 0	07580000	
ADDRESS OF START OF MSP REGISTER SAVE AREA	07590000	
ADDRESS OF SYSTEM COUNTER TABLE ADDRESS	07600000	
ADDRESS OF HARDWARE TIMER VALUE	07610000	
OUTPUT TCB ADDRESS.	07620000	
*****	07630000	
*****	07640000	
*****	07650000	

MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION			PAGE 18 V09/11/81 12/08/81 02:16		
ERR LOC OBJECT CODE	ADDR STMT	SOURCE STATEMENT			
	807 *	ENTRY INTO ALTER/DISPLAY.			08080000
	0008 808 ADWNTING	EQU X'08'	ALTER/DISPLAY WAITING.		08090000
	0004 809 ADWNTING	EQU X'04'	ALTER/DISPLAY ACTIVE.		08100000
	0002 810 ADWNTING	EQU X'02'	A/D IN INSTRUCTION TRACE MODE.		08110000
	0001 811 ADWNTING	EQU X'01'	A/D IN INSTRUCTION STEP MODE.		08120000
	812 *				08130000
	813 *	LOW BYTE	CONTROL BITS AND OFFSET INTO SWD.WIT		08140000
	814 *		CORE TABLE THAT HAS DISK ADDRESSES OF		08150000
	815 *		A/D TRANSIENTS.		08160000
	816 *				08170000
	0080 817 ADSTOPN	EQU X'80'	LEAVE STOP WATCH ON WHEN EXITING A/D.		08180000
	0040 818 ADSC0960	EQU X'40'	960 CHARACTER CRT SCREEN		08190000

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44440000  
44450000  
44460000  
44470000  
44480000  
44490000  
44500000  
44510000

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0008 4528  
0004 4529  
0002 4530  
0001 4531  
0016 4532  
0018 4533  
0019 4534  
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MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 54 V09/11/81 12/08/81 02:16	
ERR LOC	OBJECT CODE	ADDR STMT	SOURCE STATEMENT
02	26640000	2698 *	DELAYED SVC R-BYTE EQUATES
	26650000	0040 2699 SVCFD EQU X'40'	DISK I/O
03	26660000	0041 2700 SVCIO EQU X'41'	DISKETTE I/OCS
	26670000	0042 2701 SVCPT EQU X'42'	WORKSTATION IOCH (PRINTER)
	26680000	0043 2702 SVCMSC EQU X'43'	WORKSTATION IOCH (TERMINAL)
04	26690000	0044 2703 SVCCOMM EQU X'44'	COMMUNICATIONS IOCH
	26700000	0045 2704 SVCIOWNT EQU X'45'	I/O TRANSIENT REQUEST
	26710000	004C 2705 SVCPQSVQ EQU X'4C'	PSEUDO I/O REQUEST
05	26720000	2706 *	X'46' -> X'4F' RESERVED FOR I/O SVC'S
	26730000	0050 2707 SVCCXNT EQU X'50'	CONTROL STORE TRANSIENT SCHEDULER
	26740000	0051 2708 SVCTWA EQU X'51'	TASK WORK AREA ACCESS
06	26750000	0052 2709 SVCLDAD EQU X'52'	MAIN STORAGE RELOCATING LOADER
	26760000	2710 *	X'53' -> X'5C' RESERVED FOR DELAYED SVC'S
	26770000	005C 2711 SVCKBTR EQU X'5C'	KEYBOARD TRACE
07	26780000	2712 *	
	26790000	2713 * SVC Q CODE EQUATES	
	26800000	2714 *	
08	26810000	0001 2715 Q1 EQU X'01'	SVC SIGNIFICANT INDICATOR
	26820000	0001 2716 QWAIT EQU X'01'	WAIT ON THIS SVC INDICATOR
	26830000	0001 2717 QREFRESH EQU X'01'	REFRESH TRANSIENT/TRANSFER INDICATOR
09	26840000	0002 2718 QNREF EQU X'02'	NON-REFRESHABLE SVC INDICATOR
	26850000	0004 2719 QKLOFF EQU X'04'	TRANSLATE OFF-IOB/PARM LIST-INDICATOR
	26860000	0004 2720 QSYSREQ EQU X'04'	SPECIAL SYSTEM REQUEST FOR ASSIGN REC
10	26870000	0004 2721 QFRMEXM EQU X'04'	FOR MOVEI - FROM ID IN EXAM 6
	26880000	0008 2722 QTOEXM EQU X'08'	FOR MOVEI - TO ID IN EXAM 6
	26890000	0008 2723 QMWAIT EQU X'08'	MULTIPLE WAIT I/O REQUEST
11	26900000	0008 2724 QCPWAIT EQU X'08'	ASYNCR ERROR WAIT REQUEST
	26910000	0010 2725 QSCT EQU X'10'	SUBSYSTEM CONFIG TABLE @0145
	26920000	0010 2726 QNQ EQU X'10'	NON-QUIESCABLE REQUEST INDICATOR
12	26930000	0020 2727 QKR2 EQU X'20'	RETURN XKR2 FROM POSTER ON WAIT.
	26940000	0040 2728 QKW EQU X'40'	USE USERS TCB ON EXAM I/O REQUEST 6
	26950000	0000 2729 Q0 EQU X'00'	IMMEDIATE SVC EQUATE
13	26960000	0080 2730 CSCALL EQU X'80'	CS SVC INDICATOR
	26970000	0019 2731 QNQW EQU QNQ+QMWAIT+QWAIT	NON-VOLUNTARY SUPPPABLE WAIT
		0018 2732 QNCPRI EQU QNQ+QMWAIT	NOT CHANGE PRIORITY ON WAIT 8
14		0009 2733 QSPEC EQU QMWAIT+QWAIT	SPECIFIC WAIT ON NON-ECL.
		2734 *	
15		00F4 2735 SVCDP EQU X'F4'	SVC OP CODE VALUE
		00F5 2736 SVCFR EQU X'F5'	SVC TRANSFER OP CODE
		2737 *** END OF EXPANSION ***	
		2738 * TCS	
16		2739 *	
		2740 * T C B *	
		2741 *	
17		2742 *00 * * * * * * * * * * * * *	
		2743 * STAT1 * STAT2 * WWSK * WWSK2 * * STAT3 * PRIOR * TTIME * QNT *	
		2744 *	
18		2745 *08 * * * * * * * * * * * * *	
		2746 * CQPLQ * PUSH * * CHAIN * RDYQ *	
		2747 *	
19		2748 *10 * * * * * * * * * * * * *	
		2749 * XNTQ * RTUB * * JCB * CRB *	
		2750 *	
20		2751 *18 * * * * * * * * * * * * *	

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ERR LOC	OBJECT CODE	ADDR	SOURCE STATEMENT
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MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 18 V09/11/81 12/08/81 02:16	
ERR LOC	OBJECT CODE	ADDR STMT	SOURCE STATEMENT
02	07540000	807 *	ENTRY INTO ALTER/DISPLAY.
	07550000	800B 800B ADMWAITING EQU X'08'	ALTER/DISPLAY WAITING.
03	07560000	8004 8009 ADMCTTR EQU X'04'	ALTER/DISPLAY INACTIVE.
	07570000	8002 800D ADLITR EQU X'02'	A/D ON INSTRUCTION TRACE MODE.
	07580000	8001 8011 ADLSTRP40 EQU X'01'	A/D ON INSTRUCTION STEP MODE.
04	07590000	8012 *	
	07600000	8013 *	LOW BYTE
	07610000	8014 *	CONTROL BITS AND OFFSET INTO SADDWIT
05	07620000	8015 *	CORRECT TABLE THAT HAS DESK ADDRESSES OF
	07630000	8016 *	A/D TRANSIENTS.
	07640000	8017 8017 ADLSTOPN EQU X'80'	LEAVE STOP LATCH ON WHEN EXITTING A/D.
	07650000	8040 8018 ADLSCOPD EQU X'40'	%D CHARACTER CRT SCREEN

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ERR LOC	OBJECT CODE	ADDR	SOURCE STATEMENT
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17	0008 4528 \$ATSYSYK EQU X'08'	SYSTEM TASK	45290000	17	
	0004 4529 \$ATNRTUB EQU X'04'	REQ. TUB, BUT NOT OWNER	45300000		
	0002 4530 \$ATNCRN1Q EQU X'02'	DISALLOW CANCEL OR INQ	45310000		
18	0001 4531 \$ATTACHER EQU X'01'	ATTACHER(PRIJE) INDICATOR	45320000	18	
	0016 4532 \$ATTASKID EQU \$ATFLAG1+1	TASK ID OF TASK ATTACHED	45330000		
	0018 4533 \$ATDATAB EQU \$ATTSKID+2	ADDRESS OF DATA TO PUT	45340000		OB8A
19	0019 4534 \$ATLENG EQU \$ATDATAB+1	LENGTH OF ATACH PARMLIST	45350000	19	OB8A 08 OB8A
	4535 *		45360000		OB88 7BC7C3F2F1404040 OB92
	4536 * ERROR RETURN CODES IN XR1 IN FORMAT O0XX, WHERE XX:		45370000		OB93 80 OB93
20	4537 * IF ATTACH WAS SUCCESSFUL, XR1 RETURNS WITH ATTACHED TASKS TCB		45380000	20	

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V09/11/81 12/08/81 02:16		#MISCPR #MISCP - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION			PAGE 55 V09/11/81 12/08/81 02:16		#MISCPR #MISCP - MAIN STORAGE	
ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT			ERR LOC	OBJECT CODE
26990000	02	2752 *	AXR1	* AXR2 * * @ARR * @IAR *	27530000		02	
27000000		2753		*****	27540000			
27010000		2754 *20		* * * * *	27550000			
27020000	03	2755 * PMR * PSR * R * Q *		* @INL1 * @INL2 * @INL3 * @INL4 *	27560000		03	008
27030000		2756		*****	27570000			004
27040000		2757 *28		* * * * *	27580000			002
27050000	04	2758 * TSSN * BEGL * * MSSIZ * RGSIZ * SPOOL *			27590000		04	001
27060000		2759		*****	27600000			000
27070000		2760 *30			27610000			000
27080000	05	2761 *			27620000		05	000
27090000		2762		*****	27630000			000
27100000		2763 *38			27640000			000
27110000	06	2764 *		ATRS	27650000		06	000
27120000		2765		*****	27660000			000
27130000		2766 *40			27670000			
27140000	07	2767 *			27680000		07	008
27150000		2768		*****	27690000			004
27160000		2769 *48			27700000			002
27170000	08	2770 *			27710000		08	001
27180000		2771		*****	27720000			008
27190000		2772 *50		* * * * *	27730000			004
27200000	09	2773 * TTC * TWA * * WSWA * LOREL *			27740000		09	002
27210000		2774		*****	27750000			
27220000		2775 *58		* * * * *	27760000			
27230000	10	2776 * LDOSK * INVCT * * ASGQ * EXIT *			27770000		10	008
27240000		2777		*****	27780000			
27250000		2778 *60			27790000			002
27260000	11	2779 *		TQE	27800000		11	008
27270000		2780		*****	27810000			008
27280000		2781 *68		* * * * *	27820000			004
27290000	12	2782 * SQBCT * LCKPK * SST:D * TSKID *		* PRIQ * STAT4 * STAT5 *	27830000		12	002
27300000		2783		*****	27840000			001
27310000		2784 *70CATH *		* * * * *	27850000			008
27320000	13	2785 * AMSCT * CAT * PRMIX * NSCNT *		* CNCNT * IQCNT * ARQCT * STAT6 *	27860000		13	004
27330000		2786		*****	27870000			
27340000		2787 *78		* * * * *	27880000			
27350000	14	2788 * BAT * SUSPS * SNEPT *		* TWST * X * *	27890000		14	004
27360000		2789		*****	27900000			002
27370000								001
27380000	15						15	
27390000								003
27400000								
27410000	16						16	008
27420000								004
27430000								002
27440000	17						17	001
27450000								008
27460000								004
27470000	18						18	002
27480000								
27490000								
27500000	19						19	004
27510000								
27520000	20						20	008

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ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT			ERR LOC	OBJECT CODE
08080000	02	0802B	0801	DLTINMB EQU DLTINMB+1	TIMER AND SAVE AREA	08020000	02	
08090000		08029	0802	DLTIPDCHN EQU DLTIPDCHN+1	TRK OF FIRST TQE ON QUEUE (HIGH)	08030000		
08100000		0802A	0803	DLTIPDNLN EQU DLTIPDNLN+1	TRK OF FIRST TQE ON QUEUE (LOW)	08040000		
08110000	03	0804 *				08050000	03	
08120000		0805		*****		08060000		
08130000		0806 *		"CONSTANT" POINTERS TO MAIN STORAGE ITEMS		08070000		
08140000	04	0807		*****		08080000	04	
08150000		0802B	0808	DLTICBHDR EQU DLTIPDNLN+1	ADDR OF MAIN STORAGE TCB QUEUE	08090000		
08160000		0802C	0809	DLTISATRS EQU DLTICBHDR+1	ADDR OF MAIN STORAGE ATR MAP	08100000		
08170000	05	0802E	0810	DLTIFREPT EQU DLTISATRS+1	ADDR OF MAIN STORAGE FREE AREA	08110000	05	
08180000		0802F	0811	DLTIPRPT EQU DLTIFREPT+1	ADDR OF MAIN STORAGE TRANSFER AREA	08120000		
08190000		0802F	0812	DLTISTQE EQU DLTIPRPT+1	ADDR OF MAIN STORAGE DISPATCHER TQE	08130000		

45290000	17	4582 *** END OF EXPANSION ***	00478	45840000	17	OB84
45300000		4583 *IPFND21 \$FNDP V-DC, TYPE=0, NAME=#GC21, SKIP-USER				
45310000						
45320000		4585 * PARAMETER LIST FOR SYSTEM FIND		45860000	18	OB84 000000000000
45330000	18					OB84
45340000		OB8A 4587 NIPFND21 EQU *		45880000		OB84 04
45350000		OB8A 08 OB8A 4588 DC AL1(8) MEMBER TYPE		45890000	19	OB8C
45360000	19	OB8B 7BC7C3F2F1401040 OB92 4589 DC CLR *GC21 MEMBER NAME		45900000		
45370000		OB93 80 OB93 4590 DC AL1(128) SEARCH SYS LIBR AND		45910000		
CB 45380000	20	4591 * RETURN DIRECTORY ENTRY		45920000	20	

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ERR LOC OBJECT CODE	ADDR STMT	SOURCE STATEMENT		ERR LOC OBJECT CODE
	2791	*VVVVVVVVVV THE FOLLOWING FIELDS ARE ORDER DEPENDENT VVVVVVVVVV	2792.000	
	0000	2792 TCBSTAT1 EQU 0 TCB STATUS BYTE 1	27930000	
02				02
	0080	2794 TCBWAIT EQU X'80' . TASK IS NOT ON READY QUEUE	27950000	03
	0040	2795 TCBSWAPD EQU X'40' . TASK IS SWAPPED TO DISK.	27960000	
	0020	2796 TCBFORCD EQU X'20' . TASK FORCED TO SWAP(* DISPATCHABLE)	27970000	
	0010	2797 TCBLONGW EQU X'10' . TASK IS QUIESCED - TCBQCT = 0	27980000	04
	0008	2798 TCBSTOP EQU X'08' . TASK HAS SWAP OUT I/O IN PROGRESS	27990000	
	0004	2799 TCBJUSTIN EQU X'04' . SET ON WHEN TASK SWAPPED IN.	28000000	
	0004	2800 TCBFSWAP EQU X'04' . SET ON WHEN TASK FULLY SWAPPED OUT.	28010000	05
	0002	2801 TCBNOIO EQU X'02' . NO I/O REQ. FOR SWAP INDICATOR	28020000	
	0001	2802 TCBNSWAP EQU X'01' . TASK IS NEVER SWAPPABLE	28030000	06
	0001	2804 TCBSTAT2 EQU TCBSTAT1+1 TCB STATUS BYTE 2	28050000	
	0080	2806 TCBWAITD EQU X'80' . TASK WAITING FOR EVENT COMPLETION	28070000	07
	0040	2807 TCBWAIT EQU X'40' . TASK WAITING FOR TRANSIENT AREA	28080000	
	0020	2808 TCBWAIT EQU X'20' . TASK WAITING FOR GENERAL POST	28090000	
	0010	2809 TCBWAIT EQU X'10' . TASK WAITING FOR DEDICATED TTC	28100000	08
	0008	2810 TCBWAIT EQU X'08' . TASK WAITING FOR INTERNAL DYLD SVC	28110000	
	0004	2811 TCBWAIT EQU X'04' . TASK WAITING FOR TIMER ELAPSE	28120000	
	0002	2812 TCBUSP EQU X'02' . TASK IS SUSPENDED	28130000	09
	2813	* (SEE TCBUSP FOR REASON)	28140000	
	2814	* EQU X'C1' . RESERVED	28150000	
	008E	2815 TCBNROY EQU TCBWAITD+TCBWAIT+TCBWAIT+TCBWAIT+TCBUSP+TCBWAIT	28160000	10
	0002	2817 TCBMPSK EQU TCBSTAT2+1 FIRST WAIT MASK	28180000	
	0080	2819 TCBWAIT EQU X'80' . SQS ASSIGN FAILURE	28200000	11
	0040	2820 TCBWAIT EQU X'40' . TMA ALLOCATE FAILURE	28210000	
	0020	2821 TCBTAS EQU X'20' . TEST AND SET FAILURE	28220000	12
	0010	2822 TCBWAIT EQU X'10' . USQS ASSIGN FAILURE	28230000	
	0008	2823 TCBWAIT EQU X'08' . RESOURCE ENQUEUE POST CODE	28240000	
	2824	* NOTE: THE ABOVE BIT IS NOT ON WHEN TASK IS IN GENERAL WAIT. HENCE	28250000	13
	2825	* ANY GENERAL WAIT WITH BOTH MASK BYTES ALL ZERO IS	28260000	
	2826	* A RESOURCE ENQUEUE FAILURE.	28270000	
	0004	2827 TCBWAIT EQU X'04' . DISK RESOURCE FAILURE	28280000	14
	0002	2828 TCBWAIT EQU X'02' . DISK SECTOR ENQUEUE FAILURE	28290000	
	0001	2829 TCBWAIT EQU X'01' . WORKSTATION RELEASE WAIT	28300000	15
	0003	2831 TCBMPSK2 EQU TCBMPSK+1 SECOND WAIT MASK	28320000	
	0080	2833 TCBWAIT EQU X'80' . PRINTER ALLOCATE FAILURE	28340000	16
	0040	2834 TCBWAIT EQU X'40' . COMPL. LINE ALLOCATE FAILURE	28350000	
	0020	2835 TCBWAIT EQU X'20' . DISKETTE ALLOCATE FAILURE	28360000	
	0010	2836 TCBWAIT EQU X'10' . DISK SPACE ALLOCATION FAILURE	28370000	17
	0008	2837 TCBWAIT EQU X'08' . OTHER DEVICES ALLOCATION FAILURE	28380000	
	0004	2838 TCBWAIT EQU X'04' . ICS TRANSIENT WAITOR	28390000	
	0002	2839 TCBWAIT EQU X'02' . ASSIGN RECOVERY FORCED WAITER	28400000	18
	2840	* EQU X'01' . RESERVED	28410000	
	0004	2842 TCBSTAT3 EQU TCBMPSK2+1 TCB STATUS BYTE 3	28430000	19
	0080	2844 TCBTERM EQU X'80' . TASK IS IN TERMINATION	28450000	20

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ERR LOC OBJECT CODE	ADDR STMT	SOURCE STATEMENT		ERR LOC OBJECT CODE
0043	925	DLINMS EQU DLINMSIN+1 SAVE AREA FOR INPUT BAR VALUE	09100000	02
0044	926	DICURTCB EQU DLINMS+1 ADDR OF MAIN STORAGE WORKING TCB	09170000	
0045	927	DICATCB EQU DLINMS+1 HIS KEYENT AREA OWNER.	09180000	
0046	928	DICLNCEB EQU DLINMS+1 ADDR OF INCLINE PLS. LOWER AICE	09190000	03
0047	929	DICSTATB EQU DLINMS+1 SWAPIN TCB ADDRESS.	09200000	
0048	930	DICATTCB EQU DLINMS+1 TASK WORK AREA TCB ADDRESS (SHARED)	09210000	
0049	931	DICATTCB EQU DLINMS+1 RELOCATING LOWER TCB ADDRESS (SHARED)	09220000	04
0049	932	DICLNCEB EQU DLINMS+1 ADDR OF NEXT TRACE LOG OUT ENT.	09230000	
00FF	923	LOGTFULL EQU X'FFF' STORAGE TRACE TABLE FULL	09240000	
924	*	(CH) = X'FFF' TRACE BUFFER IS FULL	09250000	05
004A	925	DICLNCEB EQU DLINMS+1 END ADDRESS OF TRACE BUFFER	09260000	
004B	926	DICURTCB EQU DLINMS+1 CURRENT PAGE	09270000	



45830000	17
45840000	
45860000	
45880000	
45890000	
45900000	
45910000	
45920000	

OB84	4636	ORG		46370000
OB84	4638	NIPAVPR8 EQU *	AUTO VARY PARM LIST	46390000
OB84	0000000000000000	OB8B 4639 NIPAVPRM DC	ALB'00'	46400000
OB84	4640	OPC	NIPAVPR8+RUPLREQ	46410000
OB84	04	OB8A 4641	DC ALI(RUPLAUT)	46420000
OB8C	4642	ORG	REQUEST BYTE	46430000
	4643	* EQUATES FOR SAVE OF STARTUP PROCEDURE		46440000
0208	4644	NIPSTART EQU	NUMRDI0B+48	46450000
020F	4645	NIPSTRTE EQU	NIPSTART+7	46460000

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WWW	2792.000		
	27930000		
	27950000		
	27960000		
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	27990000		
	28000000		
	28010000		
	28020000		
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	28450000		

*MSCPR *MSCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 57	V09/11/81	12/08/81	02:16	
ERR LOC OBJECT CODE	ADDR	STMT	SOURCE STATEMENT			
02	0040	2845	TCBCHKPT EQU X'40'	. THIS TASK IS BEING CHECKPOINTED	28460000	
	0020	2846	TCBEXTRA EQU X'20'	. EXTENDED TRACE ACTIVE	28470000	
	0010	2847	TCBCCALL EQU X'10'	. CLOSE HAS BEEN CALLED INDICATOR	28480000	
03	0008	2848	TCBKCALL EQU X'08'	. KEYSORT HAS BEEN CALLED INDICATOR	28490000	
	0004	2849	TCBSUSPD EQU X'04'	. SUSPEND FROM SYS OPERATOR PENDING	28500000	
	0002	2850	TCBSMSPD EQU X'02'	. DATA MODE ESCAPE PENDING	28510000	
04	0001	2851	TCBINQPD EQU X'01'	. INQUIRY PENDING	28520000	
	0005	2853	TCBPRIOR EQU	TCBSTAT3+1	QUEUEING PRIORITY	28540000
05	00FF	2855	TCBPRINV EQU X'FF'	INVALID PRIORITY(CAN NOT BE USED)	28560000	
	00FC	2856	TCBPRCP EQU X'FC'	COMMAND PROCESSOR PRIORITY	28570000	
	00FO	2857	TCBPRSP EQU X'FO'	SPOOL PRIORITY	28580000	
06	00FO	2858	TCBPRMR EQU X'FO'	MRJE PRIORITY	28590000	
	00F4	2859	TCBPRBSC EQU X'F4'	BCS PRIORITY	28600000	
07	00F3	2860	TCBPREM EQU X'F3'	3270 EMULATION PRIORITY	28610000	
	00FO	2861	TCBPREXT EQU X'FO'	EXTENDED TRACE PRIORITY	28620000	
	00F4	2862	TCBPRITH EQU X'F4'	BCS PRIORITY FOR 3270 I/H	28630000	
08	00F8	2863	TCBPRSDP EQU X'F8'	SDLC PRIORITY (PRIMARY)	28640000	
	00F9	2864	TCBPRSDS EQU X'F9'	SDLC PRIORITY (SECONDARY)	28650000	
	00FO	2865	TCBPRSN1 EQU X'FO'	SNA 1 PRIORITY	28660000	
09	00FO	2866	TCBPRSNR EQU X'FO'	SNA 2 PRIORITY	28670000	
	00FO	2867	TCBPRBLD EQU X'FO'	REBUILD PRIORITY	28680000	
	00FO	2868	TCBPRSRJ EQU X'FO'	SRJE PRIORITY	28690000	
	00FO	2869	TCBPRSNF EQU X'FO'	SNAF SUBSYSTEM PRIORITY	28700000	
	00FO	2870	TCBPRPER EQU X'FO'	SNA PEER SUBSYSTEM PRIORITY	28710000	
	00FO	2871	TCBPRPCP EQU X'FO'	CCP SUBSYSTEM PRIORITY	28720000	
	00FO	2872	TCBPRPIC EQU X'FO'	CICS SUBSYSTEM PRIORITY	28730000	
	00FO	2873	TCBPRPIS EQU X'FO'	IMS SUBSYSTEM PRIORITY	28740000	
	00FO	2874	TCBPRBEL EQU X'FO'	ISCEL SUBSYSTEM PRIORITY	28750000	
	00FO	2875	TCBPRINT EQU X'FO'	INTRA SUBSYSTEM PRIORITY	28760000	
	00FO	2876	TCBPRBTS EQU X'FO'	BSC 3270 PRIORITY	28770000	
	00FO	2877	TCBPRCE EQU X'FO'	PLCA CONTROLLER CHECK ERROR ROUTINE	28780000	
	00FO	2878	TCBPRSNF EQU X'FB'	SNA PRIORITY	28790000	
13	00F1	2879	TCBPRODF EQU X'F1'	SOURCE OFF PRIORITY *KEEP UNIQUE*	28800000	
	0000	2880	TCBPRSN1 EQU X'00'	SNA WAIT TASK PRIORITY	28810000	
14	00E0	2881	TCBPRHGH EQU X'E0'	USER DEFINED HIGH PRIORITY	28820000	
	0001	2882	TCBPRDLM EQU X'D1'	MEDIUM PRIORITY	28830000	
	2883	*	USE TCBPRHGH FOR THE SNAHQ (CHMP) SNA. IN THE TCB, THE VALUE IN		28840000	
	2884	*	TCBPRHGH WILL BE TCBPRHGH AND BIT TCBPRHGH WILL BE SET IN TCBSTAT.		28850000	
15	0000	2885	TCBPRCNV EQU X'D0'	CONVERSATIONAL PRIORITY	28860000	
	0000	2886	TCBPRCHQ EQU X'CD'	BATCH PRIORITY	28870000	
	2887	*	NORMAL (DEFAULT) USER TASK PRIORITY IS TCBPRCNV DYNAMICALLY		28880000	
	2888	*	CHANGED TO/FROM TCBPRCHQ BY THE SYSTEM SUPERVISOR.		28890000	
	0080	2889	TCBPRDLM EQU X'D0'	LOW PRIORITY	28900000	
17	0006	2891	TCBTTIME EQU	TCBPRDLM+1	TASK RESIDUAL TIME INTERVAL.	28920000
18	0007	2893	TCBQCHT EQU	TCBTTIME+1	QUASCE COUNTER	28940000
	0009	2894	TCBQPLQ EQU	TCBQCHT+2	TASK EVENT CONTROL QUEUE HEADER	28950000
	2895	*	***** THE ABOVE FIELDS ARE ORDER DEPENDENT *****		28960000	
19	0008	2897	TCBPUSH EQU	TCBQPLQ+2	PUSH ELEMENT Q-HEADER	28980000
20	0000	2898	TCBCHAIN EQU	TCBPUSH+2	SYSTEM EXISTENCE QUEUE CHAINING FIELD	28990000

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09160000			
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09270000			

*MSCPR *MSCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 21	V09/11/81	12/08/81	02:16	
ERR LOC OBJECT CODE	ADDR	STMT	SOURCE STATEMENT			
02	0002	969	HPMDSRST EQU X'02'	SUPPRESS START OF MSP	09710000	
	0001	970	HPMDSRND EQU X'01'	ERROR PENDING, RECOVERY IN PROCESS	09710000	
	0000	971	HPMDSRST EQU	HPMDSRST+HPMDSRND+HPMDSRND DID NOT START MSP	09720000	
03	972	*			09730000	
	0061	973	DHPPCSK EQU	DHPPCSK+1	CURRENT STACK POINTER FOR CS SVCS FROM IL2	09740000
	0062	974	DHPPSTK EQU	DHPPCSK+1	STACK POINTER FOR CS SVC REQUESTS FROM IL2	09750000
04	975	*			09760000	
	0063	976	DHPPNSAV EQU	DHPPSTK-1	RESOURCE ENQUEUE/DEQUEUE SAVE AREA	09770000
	977	*			09780000	
05	978	*	"ACE" BUILD AREA		09790000	
	979	*			09800000	
	0064	980	DHPPNSAV EQU	DHPPNSAV+1	ACE IAR VALUE	09810000

17	OCE8 000000	OCEA 4686	DC	XL3'00'	MODULE SSS	46870000
	OCEB 00	OCEB 4687	DC	AL1(0)	NUMBER OF TEXT SECTORS	46880000
	OCEC 00	OCEC 4688	DC	AL1(0)	RLD DISPLACEMENT	46890000
18	OCED 04E2C8C6	OCFO 4690	DC	CL4'MSHF'	HISTORY FILE INITIALIZE	46910000
		OCF1 4691	NIPSSHF1 EQU *			46920000
19	OCF1 000000	OCF3 4692	DC	XL3'00'	MODULE SSS	46930000
	OCF4 00	OCF4 4693	DC	AL1(0)	NUMBER OF TEXT SECTORS	46940000
	OCF5 00	OCF5 4694	DC	AL1(0)	RLD DISPLACEMENT	46950000

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*MISCPR *MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION							PAGE 58	V09/11/81	12/08/81	02:16
ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT					
02		000F 2899	TCBRDQ	EQU	TCBCHAIN+2	SYSTEM READY QUEUE CHAINING FIELD			29000000	
		000F 2900	TCBSWAPQ	EQU	TCBRDQ	SYSTEM READY QUEUE SPECIAL EQUATE			29010000	
		0011 2901	TCBXTQ	EQU	TCBRDQ+2	SYSTEM TRANSIENT QUEUE CHAINING FIELD			29020000	
03		0013 2902	TCBRTUB	EQU	TCBXTQ+2	TUB ADDRESS OF REQUESTOR			29030000	
		2904	*****		THE FOLLOWING FIELDS ARE ORDER DEPENDENT *****				29050000	
04		0015 2905	TCBJCB@	EQU	TCBRTUB+2	ADDRESS OF TASK JOB CONTROL BLOCK			29060000	
		0017 2906	TCBCRB	EQU	TCBJCB@+2	CURRENT REQUEST BLOCK POINTER			29070000	
		0018 2907	TCBRSE	EQU	TCBCRB+1	REGISTER SAVE ELEMENT (LEFT BYTE)			29080000	
05		0019 2908	TCBXR1	EQU	TCBCRB+2	CURRENT XR1			29090000	
		001B 2909	TCBXR2	EQU	TCBXR1+2	CURRENT XR2			29100000	
		001D 2910	TCBARR	EQU	TCBXR2+2	CURRENT ARR			29110000	
06		001F 2911	TCB@IAR	EQU	TCBARR+2	CURRENT IAR			29120000	
		0021 2912	TCB@PSR	EQU	TCB@IAR+2	CURRENT PMR/PSR			29130000	
		0023 2913	TCB@RQ	EQU	TCB@PSR+2	CURRENT R AND Q BYTES			29140000	
07		0024 2914	TCB@INL1	EQU	TCB@RQ+1	INLINE PARM 1			29150000	
		0025 2915	TCB@INL2	EQU	TCB@INL1+1	INLINE PARM 2			29160000	
		0026 2916	TCB@INL3	EQU	TCB@INL2+1	INLINE PARM 3			29170000	
08		0027 2917	TCB@INL4	EQU	TCB@INL3+1	INLINE PARM 4			29180000	
		0027 2918	TCBRSE	EQU	TCBCRB+16	CURRENT REGISTER SAVE ELEMENT			29190000	
		2919	*****		THE ABOVE FIELDS ARE ORDER DEPENDENT *****				29200000	
09		2921	*****		THE FOLLOWING FIELDS ARE ORDER DEPENDENT *****				29220000	
		002A 2922	TCBTSSN	EQU	TCBRSE+3	TASK DISK ADDR IN SWAP AREA.			29230000	
10		002B 2923	TCBBEGL	EQU	TCBTSSN+1	LOGICAL PROGRAM BEGIN ATR NUMBER.			29240000	
		002C 2924	TCBCEM	EQU	TCBBEGL	FOUR BYTE ECM FOR CP WQSQ FAILURES			29250000	
		002C 2925	TCBMSSIZ	EQU	TCBBEGL+1	CURRENT SIZE OF MAIN STORE ALLOCATED.			29260000	
11		002D 2926	TCBRGSIZ	EQU	TCBMSSIZ+1	TASK REGION SIZE (MAX. TCBMSSIZ)			29270000	
		2927	*****		THE ABOVE FIELDS ARE ORDER DEPENDENT *****				29280000	
12		002F 2929	TCBSPool	EQU	TCBRGSIZ+2	SPOOL WORK AREA ADDR			29300000	
		002F 2930	TCBECMER	EQU	TCBSPool	SPECIAL ECM FOR CP ERRORS.			29310000	
		002F 2931	TCB@HDR	EQU	TCBSPool	USED AS SPECIAL SYSTEM Q HEADER.			29320000	
13		004F 2932	TCBATRS	EQU	TCBSPool+32	ATR STACK SAVE AREA			29330000	
		0051 2933	TCBTTC	EQU	TCBATRS+2	TASK-TASK COMMUNICATIONS AREA			29340000	
		0053 2934	TCBTUA	EQU	TCBTTC+2	DISK ADDRESS OF TASK WORK AREA			29350000	
14		0055 2935	TCBUSWA	EQU	TCBTUA+2	DISK ADDRESS OF SESSION WORK AREA			29360000	
		0057 2936	TCBLDREL	EQU	TCBUSWA+2	TASK RELOCATION FACTOR FOR LOADER			29370000	
		0057 2937	TCB@NIC	EQU	TCBLDREL	ABTRM FOR NIC			29380000	
15		005A 2938	TCBLDISK	EQU	TCBLDREL+3	TASK ALTERNATE DISK ADDR FOR LOADER			29390000	
		0059 2939	TCB@IAR	EQU	TCBLDISK-1	SAVE IAR ON ABTRM			29400000	
		005B 2940	TCB@INCT	EQU	TCBLDISK+1	TASK INVITE COUNT			29410000	
16		005D 2941	TCB@SNDQ	EQU	TCB@INCT+2	ASSIGNED ELEMENTS QUEUE			29420000	
		005F 2942	TCB@EXIT	EQU	TCB@SNDQ+2	ASYNCHRONOUS EXIT ADDRESS.			29430000	
		005F 2943	TCB@FAIL	EQU	TCB@EXIT	CP ASSIGN FAILURE INDICATOR BYTES			29440000	
17		0067 2944	TCB@TQE	EQU	TCB@EXIT+8	TIMER QUEUE ELEMENT.			29450000	
		0068 2945	TCB@SQCT	EQU	TCB@TQE+1	COUNT OF SECTOR QUEUE REQUESTS			29460000	
		0069 2946	TCB@LQPK	EQU	TCB@SQCT+1	COUNT OF LOCK REQUESTS			29470000	
18		0080 2947	TCBLCKD1	EQU	X'80'	INTERLOCK FOR DEDICATION			29480000	
		0040 2948	TCBLCKS1	EQU	X'40'	INTERLOCK FOR SCHEDULER			29490000	
		0020 2949	TCBLCKV1	EQU	X'20'	INTERLOCK FOR VTDC			29500000	
19		0010 2950	TCBLCKS1	EQU	X'10'	INTERLOCK FOR FORMAT 5			29510000	
		0008 2951	TCBLCKP1	EQU	X'08'	INTERLOCK FOR PRIC NAME			29520000	
20		0004 2952	TCBLCKH1	EQU	X'04'	INTERLOCK FOR HISTORY FILE			29530000	

F01

*MISCPR *MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION							PAGE 22	V09/11/81	12/08/81	02:16
ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT					
02		0073 1023	DB@CVERD	EQU	DB@CSTGD+1	A/D ADDRESS COMPARE VERIFY DATA			10240000	
		0074 1024	DB@CTSG@	EQU	DB@CVERD+1	A/D ADDRESS COMPARE TASK ADDRESS			10250000	
		0075 1025	DB@CCTRL	EQU	DB@CTSG@+1	A/D ADDRESS COMPARE CONTROL WORD			10260000	
03		1026	*		HIGH BYTE				10270000	
		0080 1027	AB@CTASK	EQU	X'80'	STOP IF TASK ACTTIME			10280000	
		0040 1028	AB@CPREAL	EQU	X'40'	REAL VERIFY ADDRESS			10290000	
04		0020 1029	AB@CVERIFY	EQU	X'20'	VERIFY STOP			10300000	
		0010 1030	AB@CMATCH	EQU	X'10'	STOP IF DATA MATCHES			10310000	
		0000 1031	AB@CFBA	EQU	X'00'	STOP IF BITS ARE ON			10320000	
05		0004 1032	AB@CFBF	EQU	X'04'	STOP IF BITS ARE OFF			10330000	
		0002 1033	AB@CFBAND	EQU	X'02'	ADDRESS COMPARE BAND ON 115			10340000	



16	SFNDDAT1 C 001 000A 0196	
	SFNDDAT2 C 001 000B 0197	
	SFNDDAT3 C 001 000C 0198	
	SFNDDCOM C 001 0011 0208 0211	
17	SFNDDCRS C 001 0009 0194 0195 4191*	
	SFNDDF1A C 001 000B 0171	
	SFNDDF1F C 001 0007 0182	
18	SFNDDLDA C 001 0008 0190 4188 4237*	
	SFNDDLAK C 001 0005 0179 0181 0182 4237	
	SFNDDPRT C 001 0000 0199 0201	
19	SFNDDNFB C 001 0008 0155 0157 4155* 4169	
	SFNDDNDS C 001 0003 0176 0179 0180	
20	SFNDDNST C 001 0005 0180	

16	ACEPARM1 C 001 0008 0236	
	ACEPARM2 C 001 0007 0227 02	
	ACEPARM3 C 001 0008 0228 02	
17	ACEPRIV C 001 0040 0232	
	ACEQUIES C 001 0001 0240	
	ACETCBB C 001 000F 0244 02	
18	ACEXYPE C 001 0009 0229 02	
	ACEKLOFF C 001 0004 0239	
	ACEXR1 C 001 0008 0242 02	
19	ACEXR2 C 001 0000 0243 02	
	ADACTIVE C 001 0004 0809	
20	ADCCMPRQ C 001 0001 1034	

F03

09/11/81	12/08/81	02:16
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30000000		
30010000		
30020000		
30040000		
30060000		
30070000		

ERR LOC	OBJECT CODE	ADDR	SYMT	SOURCE	STATEMENT	
02		0020 3007	TCBCN3PD	EQU	X'20'	3 OPTION CANCEL PENDING
		0010 3008	TCBMABTM	EQU	X'10'	TASK IS IN ABNORMAL TERMINATION
		0008 3009	TCBMABFL	EQU	X'08'	2 OPTION-FLUSH PROC
03		0004 3010	TCBMSTAB	EQU	X'04'	2 OPTION-CONTINUE PROC
		0002 3011	TCBAEDED	EQU	X'02'	TAKE ASYNC EXIT ON ERROR ONLY
04		0001 3012	TCBOKO	EQU	X'01'	DISKETTE ORIENT HAS BEEN PROCESSED
		0070 3014	TCBAWSCT	EQU	TCBSTAT5+1	ALLOCATED WORK STATION COUNT
		0070 3015	TCBCATM	EQU	TCBAWSCT	CURRENT ACTIVE TERMINAL COUNT
05		0071 3016	TCBCAT	EQU	TCBAWSCT+1	CURRENT ACTIVE TERMINAL VARIABLE
		0072 3017	TCBMRTMK	EQU	TCBCAT+1	MRT MAXIMUM REQUESTORS ALLOWED
		0073 3018	TCBNSCNT	EQU	TCBMRTMK+1	NOT SWAPPABLE COUNTER
06		0074 3019	TCBCNCNT	EQU	TCBNSCNT+1	NOT CANCELABLE COUNT
		0075 3021	TCBIQCNT	EQU	TCBCNCNT+1	NOT INQUIRABLE COUNT
07		0076 3023	TCBARQCT	EQU	TCBIQCNT+1	ACTIVE REQUESTOR COUNT
		0077 3024	TCBSTAT6	EQU	TCBARQCT+1	STATUS BYTE 6
08		0080 3026	TCBATNS	EQU	X'80'	TASK ATTACHED NON-SWAPPABLE
		0040 3027	TCBDSKTR	EQU	X'40'	DISKETTE CANCEL RECURSION INDICATOR
09		0020 3028	TCBDUMP	EQU	X'20'	DUMP SHOULD BE TAKEN INDICATOR
		0010 3029	TCBSFILK	EQU	X'10'	SECURITY-INITIATOR INTERLOCK.
		0008 3030	TCBNDUMP	EQU	X'08'	NO DUMP WAS TAKEN FOR ERROR CONDITION
10		0004 3031	TCBWSILK	EQU	X'04'	WORKSTATION QUEUE SPACE INTERLOCK
		0002 3032	TCBSMARQ	EQU	X'02'	SMA REQUIRED
		0001 3033	TCBDED	EQU	X'01'	DEDICATION OVERRIDE INDICATOR.
11		0078 3035	TCBBAT	EQU	TCBSTAT6+1	BATCH ACTIVE TIMEOUT COUNT
		0080 3036	TCBDMPR	EQU	X'80'	MEDIUM PRIORITY (SEE TCBPRIOR)
12		0005 3037	BATCOUNT	EQU	5	NUMBER OF TIMEOUTS ALLOWED.
		3038 *				ONLY BITS 1-7 APPLY TO BATCOUNT.
13		0079 3040	TCBSUSPS	EQU	TCBBAT+1	SUSPENSION STATUS INDICATOR
		0080 3042	TCBSPLNK	EQU	X'80'	TASK SUSPENDED DUE TO UNLOCK
14		0040 3043	TCBSDTSO	EQU	X'40'	TASK SUSPENDED DUE TO SYSTEM OPERATOR
		0020 3044	TCBTINQSP	EQU	X'20'	TASK SUSPENDED DUE TO INQUIRY
		0010 3045	TCBSPLSP	EQU	X'10'	TASK SUSPENDED DUE TO SPOOL SUS/RES
15		0002 3046	TCBSOTAC	EQU	X'02'	TASK SUSPENDED DUE TO ADDRESS COMPARE
		0001 3047	TCBWIOSP	EQU	X'01'	TASK SUSPENDED DUE TO US I/O ERROR
16		007A 3049	TCBWAFLG	EQU	TCBSUSPS+1	WSMA INITIALIZATION STATUS.
		3051 *				SEE TUB MACRO (BYTE TUBWAFLG) FOR BIT DEFINITIONS WITHIN TCBWAFLG.
17		007C 3053	TCBSMPT	EQU	TCBWAFLG+2	SMA POINTER
		3054 *				THE FOLLOWING EQUATE IS USED TO SET ON THE X'80' BIT IN THE HIGH
18		3055 *				BYTE OF THE SMA POINTER FIELD. CURRENTLY THIS FIELD IS USED AS
		3056 *				A SWAP-IN COUNTER INSTEAD OF AN ADDRESS FIELD.
19		0080 3057	TCBSMFDN	EQU	X'80'	SMA HAS PROCESSED THIS TCB
		3058 *				
20		007D 3060	TCBX	EQU	TCBSMPT+1	AMOUNT OF TASK SWAPPED OUT

01	ERR LOC	OBJECT CODE	ADDR	SYMT	SOURCE	STATEMENT
02						
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E03

09/11/81	12/08/81	02:16
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10800000		
10810000		
10820000		
10830000		
10840000		
10850000		
10860000		

ERR LOC	OBJECT CODE	ADDR	SYMT	SOURCE	STATEMENT	
02		0006 1131	ERRBERRA	EQU	ERRBDCPA	ERROR AID BYTE (NEW EQUATE VALUE)
		0001 1132	ERRBDCR	EQU	X'01'	I/O ERROR HAS OCCURRED
03		0000 1133	ERRBDRM	EQU	X'00'	INDIVIDUAL ER AID BYTE VALUE
		1134 *				
		0008 1135	ERRBDMIC	EQU	ERRBDCPA+2	MIC NUMBER
		1136 *				
04		0009 1137	ERRBDOPT	EQU	ERRBDMIC+1	MIC OPTIONS
		00F0 1138	ERRBSOPD	EQU	X'F0'	'0' OPTION WAS TAKEN TO MESSAGE
		0080 1139	ERRBSOPD	EQU	X'80'	OPTION 0 WAS SELECTED

01	ERR LOC	OBJECT CODE	ADDR	SYMT	SOURCE	STATEMENT
02						
03						
04						

16	ACEPWMT C 001 0008 0236
	ACEPWMT1 C 001 0006 0226 0227
	ACEPWMT2 C 001 0007 0227 0228
	ACEPWMT3 C 001 0008 0228 0229
17	ACEPRIV C 001 0040 0232
	ACEQUIES C 001 0001 0240
	ACETCBA C 001 000F 0244 0245
18	ACETYPE C 001 0009 0229 0242
	ACEKLOFF C 001 0004 0239
	ACEXR1 C 001 0008 0242 0243
19	ACEXR2 C 001 0000 0243 0244
	ADACTIVE C 001 0004 0809
20	ADCCPWRQ C 001 0001 1034

16	BLANK C 001 0040
	BLDJCB C 001 0006
	CANCEL C 001 00C3
	CHANGE C 001 00C7
17	CLRMENU C 001 0022
	CMTCALL C 001 0027
	CMCUBOC C 001 0001
18	CMCUCOND C 001 0020
	CMCUTNP C 001 0040
	CMCUTRL C 001 0004
19	CMCULEN C 001 0006
	CMCULOG C 001 0010
20	CMCUMBA C 001 002A

F04

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30080000			
30090000			
30100000			
30110000			
30120000			
30130000			
30150000			
30160000			
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30610000			

MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 61	V09/11/81	12/08/81	02:16
01	ERR LOC OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	
02		007E	3062	TCBSTAT7 EQU TCBX+1 TCB STATUS BYTE 7	30630000
			3063	*	30640000
03		0080	3064	TCBSPWTR EQU X'80' SPOOL WRITER ID	30650000
		0040	3065	TCBSPLR5 EQU X'40' SPOOL TERMINATION	30660000
04		0080	3067	TCBLEN EQU TCBSTAT7+2 LENGTH OF TCB + EXPANSION.	30680000
			3068	*** END OF EXPANSION **	30690000
			3069	* TUB	30700000
05			3070	*****	30710000
			3071	*	30720000
			3072	* TERMINAL UNIT BLOCK FOR TERMINALS *	30730000
06			3073	*	30740000
			3074	*****	30750000
			3075	* 00 * 01 * 02 * 03 * 04 * 05 * 06 07 *	30760000
07			3076	* ECM * COMPL * FLAG * CMND * CMOD * UNIT# * DATA# *	30770000
			3077	*****	30780000
			3078	* 08 09 * 0A OF *	30790000
08			3079	* COUNT * SENSE BYTES *	30800000
			3080	*****	30810000
			3081	* 10 11 * 12 13 * 14 * 15 * 16 * 17 *	30820000
09			3082	* TCBA# * CHAIN * DEVID * QHDR * ERPCT * ERBFG *	30830000
			3083	*****	30840000
			3084	* 18 * 19 1A * 1B * 1C 1D * 1E * 1F *	30850000
10			3085	* ERAID * MIC * OPTS * SIOCT * ERCT * WS- *	30860000
			3086	*****	30870000
			3087	* 20 * 21 22 * 23 24 * 25 * 26 * 27 *	30880000
11			3088	* ID * WSWA * TCB * AID * CPAID * RESVD *	30890000
			3089	*****	30900000
			3090	* 28 2F *	30910000
12			3091	* USER ID *	30920000
			3092	*****	30930000
			3093	* 30 * 31 32 * 33 34 * 35 * 36 * 37 *	30940000
13			3094	* OPSTS * JCB# * TUBTUB * ATTR1 * ATTR2 * ATTR3 *	30950000
			3095	*****	30960000
			3096	* 38 * 39 * 3A * 3B 3C * 3D 3E * 3F *	30970000
14			3097	* ATTR4 * ATTR5 * ATTR6 * CTSVA# * APRNT * MSGCT *	30980000
			3098	*****	30990000
			3099	* 40 41 * 42 43 * 44 * 45 * 46 47 *	31000000
15			3100	* ASGNL * ASGN# * ATTR7 * ATTR8 * HELPM *	31010000
			3101	*****	31020000
			3102	* 48 * 49 4A * 4B * 4C * 4D * 4E 4F *	31030000
16			3103	* ATTR9 * RFSS * RFN * RFCSS * RFDSP * TUBCMYK ... *	31040000
			3104	*****	31050000
			3105	* 50 * 51 * 53 * 54 * 55 * 56 57 *	31060000
17			3106	* CMYK * FMSK * DEXT# * ATTRA * MSGID * TUBDMATX *	31070000
			3107	*****	31080000
			3108	* 58 * 59 5A * 5B * 5F *	31090000
18			3109	* ATTR# * TUBDGTUB * ATTRC * RESERVED *	31100000
			3110	*****	31110000

E04

PAGE 24	V09/11/81	12/08/81	02:16
VALUE)	11320000		
	11330000		
	11340000		
	11350000		
	11360000		
	11370000		
	11380000		
	11390000		
	11400000		

MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 25	V09/11/81	12/08/81	02:16
01	ERR LOC OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	
02		1185	*	THE FOLLOWING FOUR BIT MASKS ARE VALID ONLY IF "FLAMINDEX" IS ON *	11860000
		1186	*****	*****	11870000
03		0080	1188	FLAMSORT EQU X'80' BIT ON = SORT KEYS	11880000
		0040	1189	FLAMRGE EQU X'40' BIT ON = MERGE KEYS	11890000
		0010	1190	FLAMPCK EQU X'10' BIT ON = UNORDERED LOAD	11900000
04			1191	* (CHECK DUPLICATE KEYS)	11910000
		0008	1192	FLAMPKF EQU X'08' BIT ON = INVALID INDEX	11920000
			1193	* (KEYSORT MAYBE IN PROGRESS)	11930000
					11940000

01	ERR LOC OBJECT CODE				
02					
03					
04					

16	BIT7	C 001	0001	0136	
	BLANK	C 001	0040	0108	3962
	BLDJCB	C 001	0006	0448	
	CANCEL	C 001	00C3	0487	
	CHANGE	C 001	00C7	0494	
17	CLARENJ	C 001	0022	0477	
	CMICALL	C 001	0027	0482	
	CMCUBDC	C 001	0001	0520	
18	CMCUCOND	C 001	0020	0529	4633
	CMCUIMP	C 001	0040	0508	
	CMCUJRL	C 001	0004	0516	4631
19	CMCULEN	C 001	0006	0540	
	CMCULOG	C 001	0010	0512	4631
	CMCUNG@	C 001	002A	0537	0540 0547 0548
20					

16	CPOPADR2	C 001	001C	043	
	CPOPADR3	C 001	001F	043	
	CPOPADR4	C 001	0022	043	
	CPOPCNT	C 001	0023	043	
	CPOPLN1	C 001	0017	042	
17	CPOPLN2	C 001	001A	043	
	CPOPLN3	C 001	001D	043	
	CPOPLN4	C 001	0020	043	
18	CPOPS	C 001	0022	043	
	CPRSV	C 001	00FF	060	
	CPSTATA	C 001	00FA	059	
19	CPTUB	C 001	00FC	060	
	CPWRK	C 001	0000	026	
	CPWRKEND	C 001	00FF	027	
20					

F05

61	V09/11/81	12/08/81	02:16
30630000			
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31000000			
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31080000			
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31100000			
31110000			

		MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 62 V09/11/81 12/08/81 02:16	
01	ERR LOC OBJECT CODE	ADDR STMT	SOURCE STATEMENT		
02		3112	*****	31130000	
		3113	*	31140000	
		3114	*****	31150000	
03		3114	*****	31160000	
		3115	*	31170000	
		3116	*****	31180000	
		3117	* 00 * 01 * 02 * 03 * 04 * 05 * 06 * 07 *	31190000	
04		3118	* ECM * COMPL * FLAG * CMND * CMDD * UNIT@ * DATA@ *	31200000	
		3119	*****	31210000	
		3120	* 08 * 09 * 0A * 0F *	31220000	
05		3121	* COUNT * SENSE BYTES *	31230000	
		3122	*****	31240000	
		3123	* 10 * 11 * 12 * 13 * 14 * 15 * 16 * 17 *	31250000	
06		3124	* TCB@ * CHAIN * DEVID * QHDR * ERPCT * ERBFG *	31260000	
		3125	*****	31270000	
		3126	* 18 * 19 * 1A * 1B * 1C * 1D * 1E * 1F *	31280000	
07		3127	* ERAID * MIC * OPTS * SIOCT * ERRCT * WS- *	31290000	
		3128	*****	31300000	
		3129	* 20 * 21 * 22 * 23 * 24 * 26 * 27 *	31310000	
08		3130	* ID * CFG@ * TCB * PEXT@ * RESVD *	31320000	
		3131	*****	31330000	
		3132	* 28 * 2B * 2C * 2D * 2E * 2F *	31340000	
09		3133	* FORMS NUMBER * FPLN * CRLN * PKPP * DPRST *	31350000	
		3134	***OPTIONAL ADDITION BELOW*****OPTIONAL ADDITION BELOW*****	31360000	
		3135	* 30 * 32 * 33 * 34 * 35 * 37 *	31370000	
10		3136	* TUBPSUBC * TUBPGTUB * PATRI * PLPI * RESERVED *	31380000	
		3137	***OPTIONAL ADDITION ABOVE*****OPTIONAL ADDITION ABOVE*****	31390000	
		3138	* 38 * 39 * 3A * 3B * 3C * 3D * 3E * 3F *	31400000	
11		3139	* RESERVED * RESERVED * RESERVED *	31410000	
		3140	***OPTIONAL ADDITION ABOVE*****OPTIONAL ADDITION ABOVE*****		
12					
13					
14					
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16					
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E05

25	V09/11/81	12/08/81	02:16
IS ON *	11860000		
*****	11870000		
	11890000		
	11900000		
	11910000		
	11920000		
	11930000		

		MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 26 V09/11/81 12/08/81 02:16	
01	ERR LOC OBJECT CODE	ADDR STMT	SOURCE STATEMENT		
02		1239	*****	12400000	
		1240	*	12410000	
		1241	*****	12420000	
03		1242	RE-DEFINITION OF 'F1ADVDC' FOR RELEASE 8	12430000	
		1243	*****	12440000	
		1244	*****	12450000	
04		1245	*****	12460000	
		1246	*****	12470000	

01	ERR LOC OBJECT CODE				
02					
03					
04					

16	CPOPADR3 C 001 001F 0434 0435
	CPOPADR4 C 001 0022 0436 0437 0439
	CPOPANT C 001 0023 0439 0441
	CPOPLN1 C 001 0017 0429 0430
17	CPOPLN2 C 001 001A 0431 0432
	CPOPLN3 C 001 001D 0433 0434
	CPOPLN4 C 001 0020 0435 0436
18	CPOPS C 001 0022 0437
	CPRSV C 001 00FF 0607
	CPSTAT0 C 001 00FA 0598
19	CPTUB C 001 00FC 0605 0606 3960*
	CPWRK C 001 0000 0269 0415
	CPWRKEND C 001 00FF 0270
20	

16	CPOPADR3 C 001 001F 0434 0435
	CPOPADR4 C 001 0022 0436 0437 0439
	CPOPANT C 001 0023 0439 0441
	CPOPLN1 C 001 0017 0429 0430
17	CPOPLN2 C 001 001A 0431 0432
	CPOPLN3 C 001 001D 0433 0434
	CPOPLN4 C 001 0020 0435 0436
18	CPOPS C 001 0022 0437
	CPRSV C 001 00FF 0607
	CPSTAT0 C 001 00FA 0598
19	CPTUB C 001 00FC 0605 0606 3960*
	CPWRK C 001 0000 0269 0415
	CPWRKEND C 001 00FF 0270
20	

16	DEQUEUE C 001 0
	DMPINPRG C 001 0
	DMPROTECT C 001 0
	DMPUSAC C 001 0
17	DSABL C 001 0
	DSPADACT C 001 0
	DSPERMD C 001 0
18	DSPEXAM C 001 0
	DSPFCUR C 001 0
	DSPHOLD C 001 0
19	DSPRGRST C 001 0
	DTF C 001 0
20	DTWEND A 001 0

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01	*****	31130000	
	*	31140000	
	*	31150000	
	*	31160000	
	*****	31170000	
	07 *	31180000	
	* ATAR *	31190000	
	*****	31200000	
	OF *	31210000	
	*	31220000	
	*****	31230000	
	* 17 *	31240000	
	* ERBFG *	31250000	
	*****	31260000	
	* IF *	31270000	
	* W5- *	31280000	
	*****	31290000	
	* 27 *	31300000	
	* RESVD *	31310000	
	*****	31320000	
	* 2F *	31330000	
	* DPRST *	31340000	
	ELOW*****	31350000	
	37 *	31360000	
	* WED *	31370000	
	NOVE*****	31380000	
	* 3F *	31390000	
	* WED *	31400000	
	NOVE*****	31410000	

#MISCPR #MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 63	V09/11/81	12/08/81	02:16
01	ERR LOC OBJECT CODE	ADDR	SYMT	SOURCE STATEMENT	
02		3142		*****	31430000
		3143 *		TERMINAL UNIT BLOCK (TUB)	31440000
		3144		*****	31450000
03					
04		3146		*****	31470000
		3147 *		COMMON SECTION OF THE TUB	31480000
		3148		*****	31490000
05		3150 *			31510000
		3151 *		TERMINAL JOB / PRINTER DCB	31520000
		3152 *			31530000
06		0000 3154	TUBECM EQU 0	EVENT CONTROL MASK	31550000
07		0080 3156	TUB\$SKIP EQU X'80'	. NO SKIP BIT	31570000
		0040 3157	TUB\$REAL EQU X'40'	. DATA ADDRESS IS REAL	31580000
		0020 3158	TUB\$NIO EQU X'20'	. NON I/O EVENT	31590000
08		3159 *	EQU X'10'	. RESERVED (MUST BE ZERO)	31600000
		3160 *	EQU X'08'	. RESERVED (MUST BE ZERO)	31610000
		3161 *	EQU X'04'	. RESERVED (MUST BE ZERO)	31620000
09		3162 *	EQU X'02'	. RESERVED (MUST BE ZERO)	31630000
		3163 *	EQU X'01'	. RESERVED (MUST BE ZERO)	31640000
10		0001 3165	TUBCOMPL EQU TUBECM+1	JOB COMPLETION CODE	31660000
		0080 3167	TUB\$ACTV EQU X'80'	. JOB REQUEST ACTIVE	31680000
		0040 3168	TUB\$CMPL EQU X'40'	. JOB REQUEST COMPLETE	31690000
		3169 *	EQU X'20'	. RESERVED (MUST BE ZERO)	31700000
		3170 *	EQU X'10'	. RESERVED (MUST BE ZERO)	31710000
		3171 *	EQU X'08'	. NOT USED	31720000
		0004 3172	TUB\$SHD EQU X'04'	. INPUT BUFFER ASSIGNED	31730000
		3173 *	EQU X'02'	. RESERVED FOR PRINTER	31740000
13		0001 3174	TUB\$ERR EQU X'01'	. ERROR FOUND INDICATOR	31750000
		0000 3175	TUB\$INACT EQU X'00'	. REMOTE ACTIVE	31760000
14		0002 3177	TUBFLAG EQU TUBCOMPL+1	FLAG BYTE	31780000
		0080 3179	TUB\$UERP EQU X'80'	. INDICATES USER DEFINED ERP	31800000
		0040 3180	TUB\$NOZ EQU X'40'	. NO RETURN ON PERMANENT ERROR	31810000
		0020 3181	TUB\$UTOB EQU X'20'	. AUTO INPUT BUFFER ASSIGNMENT	31820000
		0010 3182	TUB\$OH EQU X'10'	. TUB NOT ALLOWED OFF VERTICAL TUBCHAIN	31830000
		0008 3183	TUB\$OL EQU X'08'	. DEVICE ONLINE	31840000
		0004 3184	TUB\$ISSU EQU X'04'	. READ INPUT ISSUED TO TUB	31850000
		0002 3185	TUB\$INCH EQU X'02'	. READ INPUT NOT COMPLETE	31860000
		0001 3186	TUB\$OCTS EQU X'01'	. DATA IN CONTROL STORE	31870000
18		0003 3188	TUB\$CMB EQU TUBFLAG+1	JOB COMMAND BYTE	31890000
		00C0 3190	TUB\$DA EQU X'10'	. LOCAL WORKSTATION DEVICE ADDRESS	31910000
		00E0 3191	TUB\$PWA EQU X'E0'	. HOSTIVE PRINTER DEVICE ADDRESS	31920000
		00C0 3192	TUB\$NEC EQU X'10'	. ENBC I/O OPERATION CODE	31930000
		00C1 3193	TUB\$POL EQU X'C1'	. ENBC WRITE OPERATION	31940000
		00C2 3194	TUB\$TILE EQU X'C2'	. QUIESCENCE	31950000

01	ERR LOC OBJECT				
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E06

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01		12400000	
		12410000	
		12420000	
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		12440000	
		12450000	
		12460000	
		12470000	
		12480000	

#MISCPR #MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 27	V09/11/81	12/08/81	02:16
01	ERR LOC OBJECT CODE	ADDR	SYMT	SOURCE STATEMENT	
02		1291 *		(CALLED IN THE WTOC)	12920000
03		0023 1293	F\$NDAT12 EQU F\$NDAT1R+1	ATTRIBUTE BYTE TAND - THIS BYTE IS	12940000
		1294 *		SUPPORTED IN BOTH THE WPA AND THE WTOC	12950000
		1295 *		RECEIPT FOR A LIBRARY (FORMAT-1)	12960000
		0080 1296	F\$MISCP1 EQU X'80'	SECURE FILE	12970000
		0040 1297	F\$MISCP2 EQU X'40'	CHECKPOINT ACTION FILE	12980000
		0020 1298	F\$MISCP3 EQU X'20'	DELETE CAPABLE FILE	12990000
		0010 1299	F\$MISCP4 EQU X'10'	TRIMMED RATE ACCESS FILE (CFILE)	13000000

01	ERR LOC OBJE				
02					
03					
04					

16	DEQUEUE C 001 0020 1379
	DMPINPRG C 001 0040 0734
	DMPROCT C 001 0080 0731
	DMPUSAC C 001 0020 0737
17	DSABL C 001 0080 0143
	DSPADACT C 001 0010 0789
	DSPERPND C 001 0004 0791
18	DSPEXAM C 001 0001 0793
	DSPFCUR C 001 0008 0790
	DSPHOLD C 001 0002 0792
19	DSPRGRST C 001 0040 0787
	DTF C 001 0002 0102
20	DTWEND A 001 0888 3911 3904

16	D1DSPFLG C 001 0024 0784
	D1DSTIME C 001 0070 1007
	D1DSTQE C 001 002F 0872
17	D1ENDR C 001 0076 1044
	D1ERRACE C 001 001B 0768
	D1ERRMIC C 001 0019 0766
18	D1ERRTCB C 001 001A 0767
	D1FRCTCB C 001 003C 0904
	D1FREEPT C 001 002D 0870
19	D1GPFLAG C 001 0036 0883
	D1HCSTG C 001 0071 1015
20	D1HCSTGD C 001 0072 1017

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63	V09/11/81	12/08/81	02:16
*****	31430000		
*	31440000		
*****	31450000		
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	31800000		
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	31940000		
	31950000		

		MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 64 V09/11/81 12/08/81 02:16			
01	ERR LOC OBJECT CODE	ADDR STMT	SOURCE STATEMENT				
02		00C3 3195	TUBSCNCL EQU X'C3'	. CANCEL INVITE OPERATION	31960000		
		00B0 3196	TUBREXEC EQU X'80'	. REMOTE EXEC I/O OPERATION CODE	31970000		
03		00A1 3197	TUBRPOLL EQU X'81'	. REMOTE INVITE OPERATION	31980000		
		00B3 3198	TUBRCNCL EQU X'83'	. REMOTE CANCEL INVITE OPERATION	31990000		
		0040 3199	TUBMLOCL EQU X'40'	. THIS TUB IS A LOCAL TUB	32000000		
04		00C0 3200	TUBMSUB EQU X'CO'	. (OFF) IF OFF, THIS IS A SUB	32010000		
		0003 3201	TUBDEVIC EQU TUBCYND	DEVICE ADDRESS	32020000		
		0004 3203	TUBCYND EQU TUBCYND+1	IOB COMMAND MODIFIER CODE	32040000		
05		00A7 3205	TUBSPWI EQU X'A7'	. PUT WITH INVITE OPERATION	32060000		
		0027 3206	TUBSOUP T EQU X'27'	. OUTPUT OPERATION	32070000		
06		0002 3207	TUBSSAVE EQU X'02'	. SAVE TABLE OPERATION	32080000		
		0006 3208	TUBSSAVS EQU X'06'	. SAVE SCREEN OPERATION	32090000		
		0062 3209	TUBSRDST EQU X'62'	. READ SCREEN INPUT OPERATION	32100000		
07		0042 3210	TUBSRDIN EQU X'42'	. READ INPUT FIELDS OPERATION	32110000		
		0007 3211	TUBSRSTR EQU X'07'	. RESTORE OPERATION	32120000		
		0022 3212	TUBSRDMD EQU X'22'	. READ MODIFIED IMMEDIATE	32130000		
08		0005 3214	TUBUNIT@ EQU TUBCYND+1	UNIT ADDRESS	32150000		
		0007 3215	TUBDATA@ EQU TUBUNIT@+2	DATA BUFFER ADDRESS	32160000		
09		0009 3216	TUBCOUNT EQU TUBDATA@+2	DATA TRANSFER BYTE COUNT	32170000		
		000A 3218	TUBSENSE@ EQU TUBCOUNT+1	SENSE BYTE 0	32190000		
10		3220 *	DATA STREAM REJECT	* REFERENCE GROUP 1 IN TUBSENSE4	32210000		
		3221 *	EQU X'80'	. DATA STREAM REJECT	32220000		
11		3222 *	US CONTROL FIELD ERROR	* REFERENCE GROUP 2 IN TUBSENSE4	32230000		
		3223 *	EQU X'40'	. US CONTROL FIELD ERROR	32240000		
12		3224 *	RESOURCES NOT AVAILABLE	* REFERENCE GROUP 3 IN TUBSENSE4	32250000		
		3225 *	EQU X'20'	. RESOURCES TEMPORARILY NOT AVAILABLE	32260000		
		3226 *	EQU X'10'	. US CONTROLLER DDD/OBI PARITY CHECK	32270000		
		3227 *		* REFERENCE GROUP 4 IN TUBSENSE4	32280000		
13		3228 *	EQU X'08'	. OPERATION CHECK	32290000		
		3229 *	EQU X'04'	. US CONTROLLER STORAGE PARITY CHECK	32300000		
		3230 *	EQU X'02'	. RESERVED	32310000		
14		3231 *	EQU X'01'	. US CONTROLLER LONG TIME OUT	32320000		
		000B 3233	TUBSENSE1 EQU TUBSENSE@+1	SENSE BYTE 1	32340000		
15		3235 *	SCREEN FORMAT ERROR	* REFERENCE GROUP 5 IN TUBSENSE4	32360000		
		3236 *	EQU X'80'	. SCREEN FORMAT ERROR	32370000		
16		3237 *	EQU X'40'	. NO RESPONSE TIME OUT	32380000		
		3238 *	EQU X'20'	. THROUGHPUT ACTIVITY CHECK	32390000		
		3239 *	EQU X'10'	. ACTIVATE COMMAND FAILURE	32400000		
17		3240 *	EQU X'08'	. RECEIVE PARITY CHECK	32410000		
		3241 *	EQU X'04'	. RECEIVE LENGTH CHECK	32420000		
		3242 *	EQU X'02'	. NOT USED	32430000		
18		3243 *	EQU X'01'	. EVEN/ODD TIME OUT	32440000		
		000C 3245	TUBSENSE2 EQU TUBSENSE1+1	SENSE BYTE 2	32460000		
19		3247 *	EQU X'80'	. DEVICE HANG BUSY	32480000		
		3248 *	EQU X'40'	. LINE PARITY CHECK	32490000		
20							

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	12420000		
	12440000		
	12450000		
	12460000		
	12470000		
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	12500000		
	12510000		
	12520000		
	12530000		

		MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 28 V09/11/81 12/08/81 02:16			
01	ERR LOC OBJECT CODE	ADDR STMT	SOURCE STATEMENT				
02		1B44 *		DIRECT FILES (40)	1B450000		
03		0040 1B46	F1ALLG1N EQU F1ADDRESS+1	LENGTH OF AN F1 FOR INDEXED FILES (64)	1B470000		
04		0020 1B48	F1ALLG1B EQU F1ADDRESS+1	LENGTH OF A LIBRARY FORMAT-1 (32)	1B490000		
		1B50			1B510000		
		1B51			1B520000		
		1B52		** THE FOLLOWING LABELS ARE USED BY SPACK TO INDICATE THAT A SYSTEM **	1B530000		

01	ERR LOC OBJECT CODE						
02							
03							
04							



16	D1DSPFLG C 001 0024 0784 0799	16	D1NUNXT4 C 001 0004 069
	D1DSPTCB C 001 0030 0905 0906		D1NUNXT5 C 001 0005 069
	D1DSTIME C 001 0070 1007 1015		D1NUNXT6 C 001 0006 069
	D1DSTQE C 001 002F 0872 0873		D1NUNXT7 C 001 0007 069
17	D1END0 C 001 0076 1044	17	D1PGFULL C 001 0080 071
	D1ERRRAC C 001 001B 0768 0769		D1PPRPSR C 001 005A 095
	D1ERRMIC C 001 0019 0766 0767		D1PREVRB C 001 0055 094
18	D1ERRTCB C 001 001A 0767 0768	18	D1QMSAVE C 001 0038 089
	D1FRCTCB C 001 003C 0904 0905		D1QSAVE C 001 004E 092
	D1FREEPT C 001 002D 0870 0871		D1QUEUEA C 001 003F 090
19	D1GPFLAG C 001 0036 0883 0894	19	D1RDCS C 001 006D 100
	D1HCSTG0 C 001 0071 1015 1017		D1RDPS C 001 006C 100
20	D1HCSTGD C 001 0072 1017 1023	20	D1REGPTR C 001 0015 075

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E 64 V09/11/81 12/08/81 02:16		MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 65 V09/11/81 12/08/81 02:16		MISCPR MISCPR - MAIN S	
ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT		ERR LOC	OBJECT CODE
02	31960000	3249 *	EQU	X'20'	. UNIT NOT AVAILABLE (PRINTER ONLY)	02	
	31970000	3250 *	EQU	X'10'	. OUTSTANDING STATUS		
	31980000	3251 *			EXCEPTION STATUS EQUATES START		
03	31990000	3252 *	EQU	X'0E'	. NO STATUS (ALL BITS OFF)	03	
	32000000	3253 *	EQU	X'02'	. NULL OR ATTRIBUTE ERROR		
	32010000	3254 *	EQU	X'04'	. INVALID ACTIVATE		
04	32020000	3255 *	EQU	X'06'	. RESERVED	04	
	32040000	3256 *	EQU	X'08'	. INVALID COMMAND OR DEVICE ID		
	32050000	3257 *	EQU	X'0A'	. INPUT QUEUE OR STORAGE OVERRUN		
05	32060000	3258 *	EQU	X'0C'	. INVALID REGISTER VALUE	05	
	32070000	3259 *	EQU	X'0E'	. POWER ON TRANSITION		
	32080000	3260 *			EXCEPTION STATUS EQUATES END		
06	32090000	3261 *	EQU	X'01'	. EVEN/ODD RESPONSE LEVEL	06	
	32100000	0000 3263	TUBSENS3 EQU	TUBSENS2+1	SENSE BYTE 3		
07	32110000	000E 3265	TUBSENS4 EQU	TUBSENS3+1	SENSE BYTE 4 - ERROR CODES	07	
	32120000						
	32130000						
08	32150000	3267 *			GROUP 1 - DATA STREAM REJECT ERRORS	08	
	32160000	3268 *			( REFERENCE TUBSENS0 BIT0 )		
	32170000						
09	32190000	3270 *	EQU	X'01'	. PREMATURE END OF DATA STREAM	09	
	32200000	3271 *	EQU	X'02'	. INVALID ROW/COLUMN ADDRESS		
	32210000	3272 *	EQU	X'03'	. RA ADDRESS IS LESS THAN PRESENT VALUE		
10	32220000	3273 *			OF THE ADDRESS COUNTER	10	
	32230000	3274 *	EQU	X'04'	. ESCAPE CHARACTER MISSING OR INVALID		
	32240000	3275 *			COMMAND CODE		
	32250000	3276 *	EQU	X'05'	. INVALID START FIELD LENGTH		
	32260000	3277 *	EQU	X'06'	. INVALID START FIELD ADDRESS		
	32270000	3278 *	EQU	X'07'	. RESTORE ISSUED TO WRONG DISPLAY STATION		
12	32280000	3279 *	EQU	X'08'	. INPUT FIELD PAST END OF SCREEN	12	
	32290000	3280 *	EQU	X'09'	. FORMAT TABLE OVERFLOW		
	32300000	3281 *	EQU	X'0A'	. DATA WRITTEN PAST END OF SCREEN		
13	32310000	3282 *	EQU	X'0B'	. START OF HEADER LENGTH = 3	13	
	32320000	3283 *	EQU	X'0C'	. NULL PARAMETER ERROR		
	32330000	3284 *	EQU	X'0D'	. TOO MANY FORMAT CONTROL WORDS DEFINED		
14	32340000	3286 *			GROUP 2 - US CONTROL FIELD ERRORS	14	
	32350000	3287 *			( REFERENCE TUBSENS0 BIT1 )		
15	32360000	3289 *	EQU	X'01'	. INVALID COMMAND MODIFIER	15	
	32370000	3290 *	EQU	X'02'	. INVALID BYTE COUNT (0 OR 4096)		
	32380000	3291 *	EQU	X'03'	. DEVICE ADDRESS NOT FOUND		
16	32390000	3292 *	EQU	X'04'	. BYTE COUNT = ACTUALLY TRANSFERRED	16	
	32400000						
17	32410000	3294 *			GROUP 3 - RESOURCES TEMPORARILY NOT AVAILABLE ERRORS	17	
	32420000	3295 *			( REFERENCE TUBSENS0 BIT2 )		
	32430000						
18	32440000	3297 *	EQU	X'01'	. PRINTER BUSY DURING WRITE ATTEMPT	18	
	32450000	0002 3298	TUBSDEAD EQU	X'02'	. US IN ERROR MODE		
	32460000	3299 *	EQU	X'03'	. DEVICE OFFLINE ERROR		
19	32470000	3300 *	EQU	X'04'	. PRINTER NEEDS INITIALIZATION	19	
	32480000	0005 3301	TUBSBNRD EQU	X'05'	. NOT READY DUE TO OPERATOR ERROR MODE		
20	32490000	3302 *			OR SYS REQ MODE	20	

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PAGE 28 V09/11/81 12/08/81 02:16		MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 29 V09/11/81 12/08/81 02:16		MISCPR MISCPR - MAIN	
ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT		ERR LOC	OBJECT CODE
02	13450000	0000 1338	QNDICONT	EQU X'08'	COMMUNICATIONS TECH (ACE)	02	13990000
	13460000	000A 1339	QNDICONT	EQU X'09'	I/O KEENT AREA (ACE)		14000000
03	13470000	1400 *			RESERVED	03	14010000
	13480000	1401 *					14020000
	13490000	1402 *					14030000
	13500000	1403 *					14040000
04	13510000	1404 *				04	14050000
	13520000	1405 *					14060000
	13530000	0010 1406	QNDICONT	EQU X'0B'	CONTROL STORAGE KEENT SCHEDULER (ACE)		14070000

16	D1NJKNT4 C 001 0004 0691 0692
	D1NJKNT5 C 001 0005 0692 0693
	D1NJKNT6 C 001 0006 0693 0694
	D1NJKNT7 C 001 0007 0694 0702
17	D1PGFULL C 001 0080 0718
	D1PWRPSR C 001 005A 0952 0953
	D1PREVRB C 001 0055 0943
18	D1QMSAVE C 001 0038 0895 0896
	D1QSAVE C 001 004E 0929 0934
	D1QUEVEB C 001 003F 0907 0908
19	D1RDCS C 001 0060 1002 1004
	D1RDMS C 001 006C 1001 1002
	D1REGPTR C 001 0015 0758 0759
20	

16	ECMCPCL C 001 0040 1061
	ECMCSB C 001 0025 1055
	ECMCSB C 001 0027 1057
	ECMGW C 001 0003 1068
17	ECMIND C 001 0022 1052
	ECMIDERR C 001 0021 1051
	ECMLOCK C 001 0010 1063
18	ECMMASK C 001 0001 1059
	ECMNSKIP C 001 0080 1048
	ECMPARM C 001 0000 1047
19	ECMREAL C 001 0040 1049
	ECMSYSLG C 001 0028 1058
	ECMTAS C 001 0026 1056
20	

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01	32500000
	32510000
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	33000000
	33010000
	33020000
	33030000

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	
02		0006	3303	TUBBRDUK EQU	X'06'	. READ ISSUED TO UNLOCKED KEYBOARD ERROR
		0007	3304	TUB\$POFF EQU	X'07'	. WS IS POWERED OFF
		3305 *		EQU	X'08'	. RESERVED
03		3306 *		EQU	X'09'	. SAVE OR RESTORE ERROR
		3308 *				GROUP 4 - OPERATION CHECK ERRORS
04		3309 *				( REFERENCE TUBSEN50 BIT4 )
		3311 *		EQU	X'01'	. SERDES TIME OUT
05		3312 *		EQU	X'02'	. TIME OUT ON CYCLE STEAL DATA
		3313 *		EQU	X'05'	. ATOM NOT PROCESSING KEYSTROKES
		3315 *				GROUP 5 - SCREEN FORMAT ERRORS
06		3316 *				( REFERENCE TUBSEN51 BIT0 )
		3318 *		EQU	X'01'	. INVALID FIELD LENGTH ERROR
07		3319 *		EQU	X'02'	. RESEQUENCE ERROR IN FORMAT TABLE
		3320 *		EQU	X'03'	. CHECK DIGIT ERROR
		000F	3322	TUBSEN55 EQU	TUBSEN5+1	SENSE BYTE 5
		3323 *		EQU	X'08'	
09		000F	3324	TUBSENSE EQU	TUBCOUNT+6	SENSE BYTES
		0011	3325	TUBTCB@ EQU	TUBSENSE+2	TCB ADDRESS FOR DATA BUFFER ATRS
		3327 *				
		3328 *				ERROR RECOVERY BLOCK (ERB)
		3329 *				
		0013	3331	TUBCHAIN EQU	TUBTCB@+2	TUB CHAIN FIELD
		0014	3333	TUBDEVID EQU	TUBCHAIN+1	TUB DEVICE ID FOR ERP
		00E0	3335	TUBSTANZ EQU	X'E0'	. 5211 LINE PRINTER
13		00E1	3336	TUBSPRMA EQU	X'E1'	. 5256 WORKSTATION SERIAL PRINTER
		00E2	3337	TUBSHGLD EQU	X'E2'	. 650 LPM LINE PRINTER
		00E3	3338	TUBSPHTR EQU	X'E3'	. METRE PRINTER
14		00C0	3339	TUBSKBOP EQU	X'CD'	. KEYBOARD DISPLAY WORKSTATION
		0015	3341	TUBQHDR EQU	TUBDEVID+1	QUEUE HEADER POINTER FOR PRINTER
15		0016	3343	TUBERPCT EQU	TUBQHDR+1	ERP CONTROL BYTE
		3345 *				
		3346 *				SEE THE ERBDCTL FIELD OF THE ERB PWORD FOR ASSOCIATED MASKS.
		3347 *				
17		0017	3349	TUBERDFG EQU	TUBERPCT+1	ERB FLAG BYTE
		3351 *				
18		3352 *				SEE THE ERBDFLG FIELD OF THE ERB PWORD FOR ASSOCIATED MASKS.
		3353 *				
19		0018	3355	TUBERAFD EQU	TUBERDFG+1	ERROR AID FLAG BYTE
		001A	3356	TUBERIC EQU	TUBERAFD+2	ERP MESSAGE ID CODE

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07	0022
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13	0025
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15	0035
16	0080
	0040
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17	0010
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18	0002
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19	0036
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E09

01	13990000
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	14020000
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	14050000
	14060000
	14070000

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	
02		003C	14025	QNDTIMER EQU	X'3C'	INTERNAL TIMER TIME QUEUE (TQE)
		003E	14026	QNDTIMER EQU	X'3E'	INTERNAL TIMER ANCE QUEUE (ANCE)
		0041	14027	QNDSPYTCB EQU	X'41'	CURRENT TASK EXECUTING (TCB)
03		0042	14028	QNDKRENT EQU	X'42'	MAIN STORAGE TRANSPARENT SCHEDULER (TCB)
		0044	14029	QNDPRIO EQU	X'44'	TCB PRIORITY QUEUE (TCB)
		0046	14030	QNDTCBQ EQU	X'46'	TCB READY QUEUE (TCB)
04		0048	14031	QNDTTC EQU	X'48'	TASK-TASK COMM (ANCE)
		004A	14032	QNDISQUE EQU	X'4A'	STATUS QUEUE HEADER (PL)
		004C	14033	QNDUNLSE EQU	X'4C'	CONSULF SYSLOG (PL)

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16	ERBMLOG C 001 0010 1108	FIADRFE C 001 0027 1305
	ERBMNRR C 001 0004 1096	FIADRFS C 001 0015 1230
	ERBMNRS C 001 0020 1107	FIADSDIR C 001 0008 1170
	ERBMPEER C 001 0001 1119	FIADSFLL C 001 0000 1182
	ERBMPOST C 001 0008 1113	FIADSMEM C 001 0015 1228
17	ERBMPPUR C 001 0003 1097	FIADSTDA C 001 0018 1233
	ERBMREAR C 001 0003 1117	FIADSTIX C 001 0031 1323
	ERBNORM C 001 0000 1133	FIADTYPE C 001 000C 1172
18	ERBPASK C 001 0001 1123	FIADVTC C 001 001D 1237
	ERBSOPD C 001 00FO 1138	FIALGCD C 001 0028 1343
	ERBSOPO C 001 0080 1139	FIALGIN C 001 0040 1346
19	ERBSOP1 C 001 0040 1140	FIALGLB C 001 0020 1348
	ERBSOP2 C 001 0020 1141	FIALIUTA C 001 001E 1262
20	ERBSOP3 C 001 0010 1142	FIAL2VTA C 001 0012 1329

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34070000

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	
01				*****MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION*****	PAGE 68 V09/11/81 12/08/81 02:16
02		3407 *		TERMINAL MODE INDICATORS *	34080000
		3408 *		*****	34090000
03		3409 *		1XXX - STANDBY MODE * OX00 - INITIAL MODE *	34100000
		3410 *		00XX - CONSOLE MODE * 0101 - DATA MODE *	34110000
		3411 *		0110 - COMMAND MODE * 0111 - INTERRUPT MODE *	34120000
04		0080 3413	TUBMSTOY EQU X'80'	. TERMINAL IN STANDBY MODE (ON)	34130000
		0040 3414	TUBMNSL EQU X'40'	. TERMINAL IN CONSOLE MODE (OFF)	34140000
		0040 3415	TUBMSTN EQU X'40'	. TERMINAL IN WORKSTN MODE (ON)	34150000
05		0020 3416	TUBMCPD EQU X'20'	. TERMINAL IN COMMAND MODE (ON)	34160000
		0010 3417	TUBMATA EQU X'10'	. TERMINAL IN DATA MODE (ON)	34170000
		0070 3418	TUBMOME EQU X'70'	. TERMINAL IN DATA MODE ESCAPE (ON)	34180000
06		0030 3419	TUBMINT EQU X'30'	. TERMINAL IN INITIAL MODE (OFF)	34190000
		0008 3421	TUBMENJA EQU X'08'	. MENU DISPLAY ACTIVE	34200000
07		0004 3422	TUBSTATA EQU X'04'	. STATUS DISPLAY ACTIVE	34210000
		0002 3423	TUBINPA EQU X'02'	. SYSIN/SYSLOG DISPLAY ACTIVE	34220000
		0001 3424	TUBMGA EQU X'01'	. MSG DISPLAY ACTIVE	34230000
08		0037 3426	TUBATTR3 EQU TUBATTR2+1	INVITE INDICATORS	34240000
09		0080 3428	TUBIIS EQU X'80'	. INVITE SCHEDULED TO TUB	34250000
		0040 3429	TUBIMI EQU X'40'	. IMPLICIT INVITE TO TUB	34260000
10		0020 3430	TUBIPS EQU X'20'	. TUB INVITED VIA PRUF	34270000
		0010 3431	TUBIARF EQU X'10'	. AUTO RUF INVITE	34280000
		0008 3432	TUBSIIS EQU X'08'	. SAME FOR TUBIIS STATUS	34290000
		0004 3433	TUBSIPI EQU X'04'	. SAME FOR TUBIMI STATUS	34300000
11		0002 3434	TUBSIPS EQU X'02'	. SAME FOR TUBIPS STATUS	34310000
		0001 3435	TUBSIARF EQU X'01'	. SAME FOR TUBIARF STATUS	34320000
12		0038 3437	TUBATTR4 EQU TUBATTR3+1	INQUIRY/SYS REQ AND MISC	34330000
13		0080 3439	TUBHZQ EQU X'80'	. TUB ON HORIZONTAL QUEUE	34340000
		0040 3440	TUBINQ1 EQU X'40'	. INQUIRY1 TUB	34350000
		0020 3441	TUBINQ2 EQU X'20'	. INQUIRY2 TUB	34360000
14		0010 3442	TUBIQP EQU X'10'	. INQUIRY MENU IS PENDING	34370000
		0008 3443	TUBRST1 EQU X'08'	. RESTORE SCREEN - INQ OR SYS REQ	34380000
		0004 3444	TUBRST2 EQU X'04'	. RESTORE SCREEN - MSG OR SYSLOG	34390000
15		0002 3445	TUBLIOS EQU X'02'	. SYSIN/SYSLOG DISPLAY HAS BEEN SAVED	34400000
		0001 3446	TUBIDEL EQU X'01'	. I DELETE FUNCTION IS ACTIVE	34410000
16		0039 3448	TUBATTR5 EQU TUBATTR4+1	RELEASE INDICATORS	34420000
17		0080 3450	TUBORY EQU X'80'	. RESTORE-Y ON OCL STATEMENT	34430000
		0040 3451	TUBORW EQU X'40'	. RESTORE-W ON OCL STATEMENT	34440000
		0020 3452	TUBLOP EQU X'20'	. LAST OP TO THE TUB WAS A PUT	34450000
		0010 3453	TUBRSF EQU X'10'	. RELEASE STOP INV WORKED	34460000
18		0008 3454	TUBRSF EQU X'08'	. RELEASE STOP INV FAILED	34470000
		0004 3455	TUBREL EQU X'04'	. TUB HAS BEEN RELEASED	34480000
		0002 3456	TUBSNQ EQU X'02'	. SRT HAS BEEN RELEASED REQUESTOR	34490000
19		0001 3457	TUBSTN1 EQU X'01'	. CALL TERMINATOR PRIOR TO RELEASE	34500000
20		003A 3459	TUBATTR6 EQU TUBATTR5+1		34510000

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ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	
01				*****MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION*****	PAGE 32 V09/11/81 12/08/81 02:16
02		002D 1534	ICADNPLG EQU ICADNPLG+1	1 FLAG BYTE	15340000
03		0080 1535	ICANBSSY EQU X'80'	ICF TRANSIENT AREA BUSY	15350000
		0040 1536	ICANWATER EQU X'40'	WAIT ON ICF TRANSIENT WAIT REQUEST	15360000
		0020 1537	ICANWATA EQU X'20'	WAIT ON ICF TRANSIENT AREA	15370000
04		1538 *	EQU X'10'	RESERVED	15380000
		1539 *	EQU X'08'	RESERVED	15390000
		1540 *	EQU X'04'	RESERVED	15400000

01				*****MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION*****	PAGE 32 V09/11/81 12/08/81 02:16
02					
03					
04					

	FIADRFED C 001 0027 1305	
	FIADRFST C 001 0015 1230	
16	FIADSDIR C 001 0008 1170	
	FIADSFGL C 001 0000 1182 1214	
	FIADSMEM C 001 0015 1228	
17	FIADSTDA C 001 0018 1233 1235	
	FIADSTIX C 001 0031 1323 1325	
	FIADTYPE C 001 000C 1172 1182	
18	FIADVTOC C 001 001D 1237 1262 1271 1366	
	FIALLGCD C 001 0028 1343	
	FIALLGIN C 001 0040 1346	
19	FIALLGLB C 001 0020 1348	
	FIALLVTA C 001 001E 1262	
20	FIALLZVTA C 001 0012 1329	

	FIAMPNFG C 001 0008 1192	
16	FIAMPXND C 001 0080 1274	
	F1FLAG C 001 001E 1366	
	F1RESTR C 001 00FF 1368	
	F1SENDD C 001 0027 1372	
17	F1SSTRT C 001 0021 1370	
	GETPANYP C 001 0020 0836	
	GETPHSTC C 001 0010 0837	
18	GETPNOTC C 001 0008 0838	
	HOLD C 001 0008 0495	
	HPASGERR C 001 0080 0963	
19	HPCSSVC C 001 0010 0966	
	HPERRPND C 001 0001 0970	
20	HPHALTED C 001 0000 0971	

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08	V09/11/81	12/08/81	02:16
	*	34080000	
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	*	34100000	
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	*****	34130000	
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		**MSPR **MSPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 69 V09/11/81 12/08/81 02:16			
01	ERR LOC OBJECT CODE	ADDR STMT	SOURCE STATEMENT				
02		0080 3461	TUBUSUP EQU X'80'	. USER DISPLAY IS UP	34620000		
		0040 3462	TUBUSSV EQU X'40'	. USER DISPLAY SAVED	34630000		
		0020 3463	TUBSYLST EQU X'20'	. SYSLIST DISPLAY UP	34640000		
03		0010 3464	TUBMBCF EQU X'10'	. BROADCAST FAILURE	34650000		
		0008 3465	TUBMRDTA EQU X'08'	. MPT PROC WITH DATA ENTERED	34660000		
		0004 3466	TUBSRILK EQU X'04'	. SAVE/RESTORE INTERLOCK	34670000		
04		0002 3467	TUBHPND EQU X'02'	. HELP FUNCTION PENDING	34680000		
		0001 3468	TUBKBULK EQU X'01'	. KEYBOARD UNLOCKED	34690000		
		003C 3470	TUBCTSAV EQU TUBATTR6+2	SAVEAREA FOR TUBCOUNT	34710000		
		003E 3471	TUBAPRNT EQU TUBCTSAV+2	ID OF ASSOCIATED PRINTER	34720000		
		003F 3472	TUBMSGCT EQU TUBAPRNT+1	MESSAGE COUNT	34730000		
06		0080 3473	TUBMSGRT EQU X'80'	. LEVEL 0 INQ MSG HAS BEEN REROUTED(REL4)	34740000		
		0040 3474	TUBMSGR2 EQU X'40'	. LEVEL 1 INQ MSG HAS BEEN REROUTED(REL4)	34750000		
		0041 3475	TUBASGNL EQU TUBMSGCT+2	ASSIGNED BUFFER LENGTH	34760000		
07		0043 3476	TUBASGNH EQU TUBASGNL+2	ASSIGNED BUFFER ADDRESS	34770000		
		0044 3478	TUBATTR7 EQU TUBASGNH+1	ATTRIBUTE BYTE 7	34790000		
08		0080 3480	TUBSRQPD EQU X'80'	. SYS REQ IS PENDING	34810000		
		0040 3481	TUBTOERR EQU X'40'	. PERMANENT I/O ERROR ON THIS TUB	34820000		
09		0020 3482	TUBMQDS EQU X'20'	. INQUIRY DISABLED ON THIS TUB	34830000		
		0010 3483	TUBCMDRJ EQU X'10'	. COMMAND REJECT ON THIS TUB	34840000		
		0008 3484	TUBREADY EQU X'08'	. TUB IN READY MODE	34850000		
10		0004 3485	TUBLIOER EQU X'04'	. LOGICAL I/O ERROR	34860000		
		0002 3486	TUBLIOIP EQU X'02'	. LOGICAL I/O IN PROGRESS	34870000		
		0001 3487	TUBRDYIP EQU X'01'	. READY FUNCTION IN PROGRESS	34880000		
11		0045 3489	TUBATTR8 EQU TUBATTR7+1	ATTRIBUTE BYTE 8	34900000		
12		0080 3491	TUBALRM EQU X'80'	. SOUND ALARM AND TURN ON LIGHT	34920000		
		0040 3492	TUBLTOFF EQU X'40'	. TURN OFF MESSAGE LIGHT	34930000		
		0020 3493	TUBASENT EQU X'20'	. ALARM HAS BEEN SENT	34940000		
13		0010 3494	TUBMDTA EQU X'10'	. MODIFIED DATA TAG	34950000		
		3495 *	EQU X'08'	. RESERVED FOR USTOCH	34960000		
		3496 *	EQU X'04'	. RESERVED FOR USTOCH	34970000		
14		3497 *	EQU X'02'	. RESERVED FOR USTOCH	34980000		
		3498 *	EQU X'01'	. RESERVED FOR USTOCH	34990000		
15		0047 3500	TUBHELPM EQU TUBATTR8+2	HELP KEY PLC AREA	35010000		
		0047 3501	TUBSCHMR EQU TUBHELPM	OR GAIJI CHARACTER ON AID REQUEST	35020000		
16		0048 3503	TUBATTR9 EQU TUBHELPM+1	ATTRIBUTE BYTE 8	35040000		
		0080 3505	TUBRNDGE EQU X'80'	. THIS TUB HAS RNDGE SECURITY	35060000		
17		0040 3506	TUB960 EQU X'40'	. THIS TUB IS FOR A 960 CHR SCREEN	35070000		
		0020 3507	TUBMENU2 EQU X'20'	. DISPLAY PAGE 2 OF MENU ON 960	35080000		
		0010 3508	TUBMRTSC EQU X'10'	. MPT SECURITY SWITCH	35090000		
18		0008 3509	TUBSRVD EQU X'08'	. REJECT IN READY FUNCTION	35100000		
		0004 3510	TUBSWER1 EQU X'04'	. ERROR DURING SWAP - STATUS OR CHSL SYSLG	35110000		
		0002 3511	TUBSWER2 EQU X'02'	. ERROR DURING SWAP - SYS REQ OR INQUIRY	35120000		
19		0001 3512	TUBSRQPD EQU X'01'	. READY TASK IS PENDING	35130000		
20		3514 *		REJECT FILE INDEX	35150000		

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	15340000		
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	15390000		
	15400000		

		**MSPR **MSPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 33 V09/11/81 12/08/81 02:16			
01	ERR LOC OBJECT CODE	ADDR STMT	SOURCE STATEMENT				
02		0004 1587	JCBOSLSB EQU X'04'	PROGRAM (JCBOSPLD) WAS FOUND IN USER	15880000		
		1588 *		LIBRARY (JCBOSRLE)	15890000		
		0002 1589	JCBMSPMP EQU X'02'	ENQUEUE RESOURCES WITH NEP ATTRIBUTE	15900000		
03		0001 1590	JCBMRTTP EQU X'01'	MPT PROGRAM	15910000		
		0002 1592	JCBOSCHI EQU JCBODINT2+1	SCHEDULER BYTE ONE	15930000		
04		0080 1593	JCBMPLCL EQU X'80'	PROGRAM HAS UTILITY CONTROL STATEMENTS	15940000		
		0040 1594	JCBMPLCE EQU X'40'	ONLY CHANGE AT TERMINATION	15950000		

01	ERR LOC OBJECT CODE						
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16	F1AMNFG C 001 0008 1192	
	F1AMTND C 001 0080 1274	
	F1FLAG C 001 001E 1366 1370	
	F1RESTR C 001 00FF 1368	
17	F1SSEND C 001 0027 1372	
	F1SSTR C 001 0021 1370	
	GETPANYP C 001 0020 0836	
	GETPHSIC C 001 0010 0837	
18	GETPNOTC C 001 0008 0838	
	HOLD C 001 00C8 0495	
	HPASGERR C 001 0080 0963	
19	HPCCSVC C 001 0010 0966	
	HPERRPND C 001 0001 0970 0971	
20	HPHALTED C 001 0000 0971	

16	IL2ASGB C 001 0001 0618	
	IL2LOAD C 001 0000 0616	
	INQOPT1 C 001 001A 0469	
	IOB C 001 0001 0101	
17	JCBDBFRA C 001 006F 1751 1754	
	JCBDBCCBA C 001 0003 1763 1764	
	JCBDCIBA C 001 0052 1710 1712	
	JCBDCRLB C 001 0010 1651 1652	
18	JCBDCSFB C 001 0065 1747 1749	
	JCBDCTAG C 001 002B 1678 1680	
	JCBDDATE C 001 0009 1643 1645	
19	JCBDDFRG C 001 0056 1716 1718	
	JCBDDTFA C 001 0054 1712 1714	
20	JCBDELNG C 001 0010 1772	

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ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	
02	34620000	004A	3515	TUBRFSS	EQU TUBATTR9+2	REJECT FILE - SS
	34630000	004B	3516	TUBRFN	EQU TUBRFSS+1	REJECT FILE - NUMBER SECTORS
	34640000	004C	3517	TUBRFCSS	EQU TUBRFN+1	REJECT FILE - CURRENT SECTOR
	34650000	004D	3518	TUBRFDSP	EQU TUBRFCSS+1	REJECT FILE - RELATIVE DISPLACEMENT
	34660000		3519	*		
	34670000	004E	3520	TUBCFSK1	EQU TUBRFDSP+1	FIRST COMMAND KEY MASK BYTE
	34680000	0080	3521	TUBCMD8	EQU X'80'	ENABLE COMMAND KEY 8
	34690000	0040	3522	TUBCMD7	EQU X'40'	ENABLE COMMAND KEY 7
		0020	3523	TUBCMD6	EQU X'20'	ENABLE COMMAND KEY 6
	34710000	0010	3524	TUBCMD5	EQU X'10'	ENABLE COMMAND KEY 5
	34720000	0008	3525	TUBCMD4	EQU X'08'	ENABLE COMMAND KEY 4
	34730000	0004	3526	TUBCMD3	EQU X'04'	ENABLE COMMAND KEY 3
	34740000	0002	3527	TUBCMD2	EQU X'02'	ENABLE COMMAND KEY 2
	34750000	0001	3528	TUBCMD1	EQU X'01'	ENABLE COMMAND KEY 1
	34760000	004F	3529	TUBCFSK2	EQU TUBCFSK1+1	SECOND COMMAND KEY MASK BYTE
	34770000	0080	3530	TUBCMD12	EQU X'80'	ENABLE COMMAND KEY 12
		0040	3531	TUBCMD11	EQU X'40'	ENABLE COMMAND KEY 11
	34790000	0020	3532	TUBCMD10	EQU X'20'	ENABLE COMMAND KEY 10
	34810000	0010	3533	TUBCMD9	EQU X'10'	ENABLE COMMAND KEY 9
	34820000	0008	3534	TUBCMD24	EQU X'08'	ENABLE COMMAND KEY 24
	34830000	0004	3535	TUBCMD23	EQU X'04'	ENABLE COMMAND KEY 23
	34840000	0002	3536	TUBCMD22	EQU X'02'	ENABLE COMMAND KEY 22
	34850000	0001	3537	TUBCMD21	EQU X'01'	ENABLE COMMAND KEY 21
	34860000	0050	3538	TUBCFSK3	EQU TUBCFSK2+1	THIRD COMMAND KEY MASK BYTE
	34870000	0080	3539	TUBCMD20	EQU X'80'	ENABLE COMMAND KEY 20
	34880000	0040	3540	TUBCMD19	EQU X'40'	ENABLE COMMAND KEY 19
	34890000	0020	3541	TUBCMD18	EQU X'20'	ENABLE COMMAND KEY 18
		0010	3542	TUBCMD17	EQU X'10'	ENABLE COMMAND KEY 17
		0008	3543	TUBCMD16	EQU X'08'	ENABLE COMMAND KEY 16
		0004	3544	TUBCMD15	EQU X'04'	ENABLE COMMAND KEY 15
		0002	3545	TUBCMD14	EQU X'02'	ENABLE COMMAND KEY 14
		0001	3546	TUBCMD13	EQU X'01'	ENABLE COMMAND KEY 13
		0050	3547	TUBCFSK	EQU TUBCFSK3	COMMAND KEY MASK
		0051	3548	TUBCFSK	EQU TUBCFSK+1	FUNCTION KEY MASK
		0080	3549	TUBPRT	EQU X'80'	ENABLE PRINT KEY
		0040	3550	TUBRLUP	EQU X'40'	ENABLE ROLL UP KEY
		0020	3551	TUBRLDN	EQU X'20'	ENABLE ROLL DOWN KEY
		0010	3552	TUBCLER	EQU X'10'	ENABLE CLEAR KEY
		0008	3553	TUBHELP	EQU X'08'	ENABLE HELP KEY
		0004	3554	TUBCRK	EQU X'04'	ENABLE RECORD BACKSPACE KEY
		3555	*	EQU X'02'	RESERVED	
		3556	*	EQU X'01'	RESERVED	
		0053	3557	TUBDXTA	EQU TUBCFSK+2	REMOTE WORKSTATIONS TUB (RMSTB)
		3558	*	NOTE:	THE ABOVE EQUATE IS THE DISPLAY STATION TUB POINTER	
		3559	*	TO	THE RMS TUB. SEE PRINTER EQUATES FOR THE PRINTER	
		3560	*	TUB'S	POINTER TO THE RMS TUB.	
		0054	3561	TUBATTR	EQU TUBDXTA+1	ATTRIBUTE BYTE 10
		0080	3562	TUBCLAND	EQU X'80'	- CLEAR AIDS
		0040	3563	TUBLOCK	EQU X'40'	- LOCK CONTROL
		0020	3564	TUBOFF	EQU X'20'	- OFF OCL STATEMENT RECEIVED
		0010	3565	TUBHOLD	EQU X'10'	- HOLD PARAMETER FOR OFF COMMAND (OCL)
		3566	*	NOTE	THAT IF THIS BIT IS NOT ON	
		3567	*	IT	INDICATES THE BRUP PARAMETER	
		0008	3568	TUBSUBCN	EQU X'08'	- SUBCONSOLE WORKSTATION

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ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	
02	15880000	0001	1640	JCBMUPS8	EQU X'01'	UPS1 SWITCH EIGHT
	15890000					
	15900000	0009	1643	JCBDDATE	EQU JCBMUPS1+3	SESSION DATE
	15910000	000C	1645	JCBDDPAT	EQU JCBDDATE+3	PROGRAM DATE
	15930000	000E	1647	JCBOSLST	EQU JCBDDPAT+2	OSLST INDICATOR - PRINTER ID
	15940000					

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15	JCBDSLCR C 001 0055 1714	JCBDSLCR C 001 0055 1714
16	JCBDSLST C 001 000E 1647	JCBDSLST C 001 000E 1647
17	JCBDSPIB C 001 005C 1722	JCBDSPIB C 001 005C 1722
18	JCBDSRBA C 001 0001 1626	JCBDSRBA C 001 0001 1626
19	JCBDSRBA C 001 0001 1626	JCBDSRBA C 001 0001 1626
20	JCBDSRBA C 001 0001 1626	JCBDSRBA C 001 0001 1626

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ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	
01					
02	35160000	0004	3569	TUBMCOU EQU X'04'	. ENTER HAS BEEN PRESSED AT THE SUBCNL 35700000
02	35170000	0002	3570	TUBNOSUB EQU X'02'	. ASSIGN NOSUB ACTIVE ON THIS DEVICE 35710000
03	35180000	0001	3571	TUBRMDM EQU X'01'	. PERFORM READ MODIFIED 35720000
03	35190000	0055	3572	TUBMSGID EQU TUBATTRA+1	NEXT REPLY ID TO USE AT SUBCONSOLE 35730000
03	35200000	0057	3573	TUBMATX EQU TUBMSGID+2	ADDRESS OF SUBCONSOLE MATRIX 35740000
04	35210000				
04	35220000	0058	3575	TUBATTRB EQU TUBMATX+1	ATTRIBUTE BYTE 11 35760000
04	35230000				
05	35240000	0080	3577	TUBKDPLY EQU X'80'	. IGC CAPABLE DISPLAY 35780000
05	35250000	0040	3578	TUBKKB EQU X'40'	. IGC CAPABLE KEYBOARD 35790000
05	35260000	0020	3579	TUBKANJ EQU X'20'	. THIS SESSION IN IGC MODE 35800000
06	35270000	0010	3580	TUBGATJD EQU X'10'	. EXTD PROCESSING ON 35810000
06	35280000	0008	3581	TUBRJFOV EQU X'08'	. FILE OVERFLOW OF THE REJECT FILE 35820000
06	35290000	3582 *		EQU X'04'	. RESERVED 35830000
07	35300000	3583 *		EQU X'02'	. RESERVED 35840000
07	35310000	3584 *		X'01'	. RESERVED 35850000
07	35320000	005A	3585	TUBDGTUB EQU TUBATTRB+2	DISPLAY STATION POINTER TO GAIJI TUB 35860000
08	35330000	3586 *			REFERENCE GEXTB MACRO FOR DESCRIPTION 35870000
08	35340000	005B	3587	TUBATTRC EQU TUBDGTUB+1	ATTRIBUTE BYTE 12 35880000
08	35350000				
09	35360000	0080	3589	TUBOTLJ EQU X'80'	. 0 OPTION TAKEN ON INVALID EXTN CHAR 35900000
09	35370000	0040	3590	TUBOUNJ EQU X'40'	. 0 OPTION ON AN UNDEFINED EXTN CHAR 35910000
09	35380000	0020	3591	TUBORFEL EQU X'20'	. 0 OPTION ON A RAM FULL ERROR 35920000
10	35390000	0010	3592	TUB2RF EQU X'10'	. 2 OPTION TAKEN ON A RAM FULL ERROR 35930000
10	35400000	0008	3593	TUB2IG EQU X'08'	. 2 OPTION ON AN INVALID EXTN CHAR 35940000
10	35410000	0018	3594	TUB2UG EQU X'18'	. 2 OPTION ON AN UNDEFINED EXTN CHAR 35950000
11	35420000	0004	3595	TUBHELP EQU X'04'	. HIGH LEVEL HELP AID IN PROGRESS 35960000
11	35430000	0002	3596	TUB1OPT EQU X'02'	. 1 OPTION TAKEN ON ABOVE ERROR 35970000
11	35440000	0001	3597	TUBRWER EQU X'01'	. SET OFF WSQS INTLK ON LOAD RAM ERROR 35980000
12	35450000	005F	3598	TUBRSVD EQU TUBATTRC+4	RESERVED 35990000
12	35460000	0060	3599	TUBLEN EQU TUBRSVD+1	LENGTH OF A DISPLAY TUB 36000000
13	35470000				
13	35480000				
13	35490000				
13	35500000				
14	35510000	3601 *			36020000
14	35520000	3602			36030000
14	35530000	3603 *		PRINTER UNIQUE PORTION OF THE TUB *	36040000
14	35540000	3604			36050000
14	35550000	3605 *			36060000
15	35560000				
16	35570000	0026	3607	TUBPXTA EQU TUBCOVEN+2	REMOTE WORKSTATION TUB ADDRESS (PRINTERS) 36080000
16	35580000	0027	3608	TUBPRESV EQU TUBPXTA+1	RESERVED BYTE 36090000
16	35590000	0028	3609	TUBPFIND EQU TUBPRESV+4	FOUNTS NUMBER 36100000
17	35600000	002C	3610	TUBPFLEN EQU TUBPFIND+1	FOUNTS LENGTH (LINES/PAGE) 36110000
17	35610000	002D	3611	TUBPCLEN EQU TUBPFLEN+1	CURRENT LINE 36120000
17	35620000	002E	3612	TUBPPPP EQU TUBPCLEN+1	PRK PRINT POSITION (HORIZONTAL) 36130000
18	35630000	002F	3613	TUBPST EQU TUBPPPP+1	PRINTER STATUS BYTE 36140000
18	35640000	0080	3614	TUBPUPM EQU X'80'	. POST USER ON ERROR MESSAGE 36150000
18	35650000	0040	3615	TUBPST EQU X'40'	. PRINTER POST READY 36160000
19	35660000	0020	3616	TUBREXTD EQU X'20'	. THIS PRINTER TUB HAS AN ADDITION 36170000
19	35670000	3617 *		EQU X'10'	. RESERVED 36180000
19	35680000	3618 *		EQU X'08'	. RESERVED 36190000
19	35690000	3619 *		EQU X'04'	. RESERVED 36200000

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ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	
01					
02	16428000	0043	16495	JCBDMENU EQU JCBDRZL+2	RELATIVE 'SS OF MENU MESSAGE MEMBER 16496000
02	16440000	0045	16496	JCBDMENL EQU JCBDMENU+2	MENU LIBRARY FORMAT-1 ADDRESS 16497000
03	16460000	0047	16498	JCBDRJTD EQU JCBDMENL+2	JOB NAME (CTD) 16499000
04	16480000	0048	1780	JCBDRJPG EQU JCBDRJTD+1	LINES/PAGE 17010000

15	JCBOSLOR C 001 002D 1680 1682	JCBOSLOR C 001 002D 1680 1682
16	JCBOSLST C 001 000E 1647 1651	JCBOSLST C 001 000E 1647 1651
16	JCBOSP1D C 001 005C 1722	JCBOSP1D C 001 005C 1722
16	JCBOSSEB C 001 0001 1762 1763	JCBOSSEB C 001 0001 1762 1763
16	JCBOSTAT C 001 0029 1666 1676	JCBOSTAT C 001 0029 1666 1676
17	JCBODUP1 C 001 0006 1633 1643 3989*	JCBODUP1 C 001 0006 1633 1643 3989*
17	JCBODUR1L C 001 003F 1692 1693	JCBODUR1L C 001 003F 1692 1693
17	JCBODUR2L C 001 0041 1693 1695	JCBODUR2L C 001 0041 1693 1695
18	JCBODUSER C 001 006D 1749 1751 1752	JCBODUSER C 001 006D 1749 1751 1752
18	JCBODUSR1 C 001 0037 1688 1689	JCBODUSR1 C 001 0037 1688 1689
18	JCBODUSR2 C 001 0039 1689 1690	JCBODUSR2 C 001 0039 1689 1690
19	JCBODMSBP C 001 0016 1656 1658	JCBODMSBP C 001 0016 1656 1658
19	JCBOD1PRC C 001 0020 1660 1664	JCBOD1PRC C 001 0020 1660 1664
20	JCBLLNTH C 001 0070 1754 3833 3841 3841* 4119 4142 4147 4147*	JCBLLNTH C 001 0070 1754 3833 3841 3841* 4119 4142 4147 4147*

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01	35700000	02	35710000	03	35720000	03	35730000	03	35740000	04	35760000	05	35780000	05	35790000	05	35800000	06	35810000	06	35820000	06	35830000	07	35840000	07	35850000	07	35860000	08	35870000	08	35880000	09	35900000	09	35910000	09	35920000	10	35930000	10	35940000	10	35950000	11	35960000	11	35970000	11	35980000	12	35990000	12	36000000	13	36020000	13	36030000	13	36040000	14	36050000	14	36060000	15	36080000	15	36090000	16	36100000	16	36110000	16	36120000	17	36130000	17	36140000	17	36150000	18	36160000	18	36170000	18	36180000	19	36190000	19	36200000	20	
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ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	
01						
02		3620	*	EQU	X'02'	. RESERVED
02		3621	*	EQU	X'01'	. RESERVED
03		0030	3622	TUBPLEN	EQU	TUBDPST+1
03		3623				LENGTH OF A BASIC PRINTER TUB
03		3624	*			PRINTER TUB ADDITION
04		0031	3626	TUBSUBC	EQU	TUBPLEN+1
04		0033	3627	TUBPGTUB	EQU	TUBSUBC+2
05		0034	3629	TUBPATR1	EQU	TUBPGTUB+1
05		0080	3630	TUBKPNTN	EQU	X'80'
06		0040	3631	TUBGAIJP	EQU	X'40'
06		3632	*	EQU	X'20'	. RESERVED
06		3633	*	EQU	X'10'	. RESERVED
07		3634	*	EQU	X'08'	. RESERVED
07		3635	*	EQU	X'04'	. RESERVED
07		3636	*	EQU	X'02'	. RESERVED
08		0035	3638	TUBPLP1	EQU	TUBPATR1+1
09		003F	3641	TUBPERES	EQU	TUBPLP1+10
09		0040	3642	TUBPELEN	EQU	TUBPERES+1
10		3644	***			END OF EXPANSION **
11		3647	*			GENERAL TASK WORK AREA ACCESS EQUATES
12		0001	3649	TUNPUT	EQU	X'01'
12		0000	3650	TUNGET	EQU	X'00'
13		0002	3651	TUNSYS	EQU	X'02'
13		0004	3652	TUNWISA	EQU	X'04'
13		0000	3653	TUNWTA	EQU	X'00'
13		0040	3654	TUNREAL	EQU	X'40'
14		0000	3655	TUNKATE	EQU	X'00'
14		3657	*			WORKSTATION WORK AREA - ONE PER COMMAND WORKSTATION
15		0000	3659	TUPPEOV	EQU	0
15		0001	3660	TUPPS12	EQU	1
16		0002	3661	TUPPS34	EQU	2
16		0003	3662	TUPPS56	EQU	3
16		0004	3663	TUPPS78	EQU	4
17		0005	3664	TUPPS9A	EQU	5
17		0006	3665	TUPPS1C	EQU	6
17		0007	3666	TUPPS1E	EQU	7
18		0008	3667	TUPPS1F	EQU	8
18		0009	3668	TUNPLCL	EQU	9
18		000A	3669	TUPPS1G	EQU	10
19		000B	3670	TUPPS1SA	EQU	11
19		000C	3671	TUPPS1WE	EQU	12
19		000D	3672	TUPPS1SER	EQU	12
20		0017	3673	TUPPS1NQ	EQU	23

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02	16960000
02	16970000
03	16980000
04	17010000

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	
02		006C	1749	JCBODUSER	EQU	JCBODUSR+8
02						USER ID
03		006F	1751	JCBODUSR1	EQU	JCBODUSR+2
03		006F	1752	JCBODUSR2	EQU	JCBODUSR+2
04		0070	1754	JCBLLNTH	EQU	JCBODUSR+1

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15	JCBMRSST C 001 0010 1617	
	JCBMRLCL C 001 0040 1581	
16	JCBMRSST C 001 0001 1631	
	JCBMRSNP C 001 0002 1589	
	JCBMRTWA C 001 0020 1595	
17	JCBMRLNG C 001 0040 1569	4208
	JCBMRSRT C 001 0008 1618	
	JCBMSELT C 001 0002 1630	
18	JCBMSEJ C 001 0080 1614	
	JCBMSLNG C 001 0040 1729	
	JCBMSLOG C 001 0080 1624	
19	JCBMSLOP C 001 0002 1673	
	JCBMSOFF C 001 0040 1615	
20	JCBMSPKC C 001 0002 1744	

15	LOGIFULL C 001 00FF 0923	
	MENU C 001 0001 0443	
	MLCA32K C 001 0001 0746	
16	MODE C 001 0009 0452	
	MP10BERR C 001 0008 0741	
	MSCA0001 A 008 083F 4481	
17	MSCA0002 A 006 0845 4482	
	MSCADEND A 001 0CFF 4703	
	MSCA0010 A 001 0838 4480	
18	MSCA0020 A 001 080A 3823	
	MSCA0030 A 001 088D 3956	
	MSCA0040 A 001 0897 3931	
19	MSCA0060 A 001 0886 3953	
	MSCA0080 A 001 0886 3952	
20	MSCA0100 A 001 0882 3948	

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MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 73		09/11/81 12/08/81 02:16	
01	ERR LOC OBJECT CODE	ADDR STMT	SOURCE STATEMENT		
02	36210000	0022 3674	TWMLGIO EQU 34	LOGICAL I/O RESERVED AREA (34-44)	36750000
	36220000	3675 *	44	TAG 44- END OF SAVE/RESTORE AREAS	36760000
	36230000	0020 3676	TWAMUSS EQU 45	TAG 45- WORK STATION CONFIGURATION	36770000
	36240000	002E 3677	TWAMCOM EQU 46	TAG 46- COMMUNICATIONS CONFIGURATION	36780000
	36250000	002F 3678	TWAMLOGR EQU 47	TAG 47- SYSLOG RESPONSE DATA	36790000
	36260000	0030 3679	TWAMLOGC EQU 48	TAG 48- SYSLOG COMMUNICATIONS TO CONSOLE	36800000
	36270000	0031 3680	TWAMTKNG EQU 49	TAG 49- TASK MESSAGE QUEUE AREA	36810000
	36280000	3681 *	54	TAG 54- END OF MESSAGE QUEUE AREA	36820000
	36290000	0037 3682	TWAMOCLE EQU 55	TAG 55- OCL COMMAND SAVE AREA	36830000
	36300000	0038 3683	TWAMXLAT EQU 56	TAG 56- TRANSLATE TABLE AREA	36840000
	36310000	0039 3684	TWAMRRMG EQU 57	TAG 57- DUAL MESSAGE ROUTING AREA	36850000
	36320000	3685 *	58	TAG 58- RESERVED THRU 59	36860000
	36330000	3686 *			36870000
	36340000	3687 *			36880000
	36350000	3688 *			36890000
	36360000	0000 3689	TWAMUSE EQU 00	TAG 00- NOT USED	36900000
	36370000	0001 3690	TWAMSC01 EQU 01	TAG 01- SYSTEM CONSOLE IMAGE	36910000
	36380000	3691 *	07	TAG 07- END	36920000
	36390000	0014 3692	TWAMCEND EQU 20	NUMBER OF IMAGES	36930000
	36400000	0008 3693	TWAMQ01 EQU 08	TAG 08- MESSAGE QUEUE	36940000
	36410000	3694 *	13	TAG 13- END OF MESSAGE QUEUE TAGS	36950000
	36420000	000E 3695	TWAMCUR1 EQU 14	TAG 14- CURRENT SYSTEM PRINTER IMAGE	36960000
	36430000	000F 3696	TWAMSCSV EQU 15	TAG 15- SYSTEM CONSOLE SAVE/RESTORE AREAS	36970000
	36440000	000F 3697	TWAMCNSL EQU 15	CONSOLE SAVE AREA (15-26)	36980000
	36450000	001B 3698	TWAMJSSA EQU 27	WORKSTATION SAVE AREA (27-38)	36990000
	36460000	0027 3699	TWAMSTAT EQU 39	STATUS SAVE AREA (39-50)	37000000
	36470000	0033 3700	TWAMRPS EQU 51	TAG 51- I/O ERP SAVE AREA FOR MSG BUILD	37010000
	36480000	3701 *	52	TAG 52- RESERVED THRU 59	37020000
	36490000	003C 3702	TWAMCSM EQU 60	TAG 60- CONSOLE SYSLOG MESSAGE QUEUE.	37030000
	36500000	3703 *	119	TAG 119- END OF CONSOLE MESSAGE QUEUE.	37040000
	36510000	3704 *			37050000
	36520000	3705 *			37060000
	36530000	3706 *			37070000
	36540000	0002 3707	TWAMMP EQU 02	TWA AVAILABLE TRACKS MPP	37080000
	36550000	0003 3708	TWAMMPL EQU 03	LENGTH OF MPP FIELD	37090000
	36560000	0004 3709	TWAMNEXT EQU TWAMMP*2	CHAIN FIELD	37100000
	36570000	0006 3710	TWAMSS EQU TWAMNEXT*2	DISK ADDRESS OF THIS ELEMENT	37110000
	36580000	0007 3711	TWAMN EQU TWAMSS*1	CONTAINS LENGTH OF MPP FIELD	37120000
	36590000	0008 3712	TWAMLEN EQU TWAMN*1	LENGTH OF TIME	37130000
	36600000	3713 **		END OF EXPANSION **	37140000
	36610000	3714 *		WTEQ	37150000
	36620000	3715 *			37160000
	36630000	3716 *			37170000
	36640000	3717 **		MAIN STORAGE TRANSIENT AND TRANSFER CONTROL RIB EQUATES **	37180000
	36650000	3718 *			37190000
	36660000	3719 *			37200000
	36670000				
	36680000				
	36690000	3721 *			37220000
	36700000	3722 *		GENERAL EQUATES FOR TRANSIENT/TRANSFER TABLE ENTRIES	37230000
	36710000	3723 *			37240000
	36720000	0000 3724	XENDFF EQU X*30*	EXP ID TRANSFER ROUTINE	37250000
	36730000	0040 3725	XENDFF EQU X*40*	SET EA CYCLE XLATE OFF INDICATOR	37260000
	36740000	0020 3726	XENDFF EQU X*20*	SET EB CYCLE XLATE OFF INDICATOR	37270000

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MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 37		09/11/81 12/08/81 02:16	
01	ERR LOC OBJECT CODE	ADDR STMT	SOURCE STATEMENT		
02	17500000	1803 *			18040000
		1804 *	038D ALTERNATE SECTOR ACE	001D 16	18050000
	17520000	1805 *			18060000
	17530000	1806 *	032D STATISTICAL LOGOUT ACE	001D 16	18070000
		1807 *			18080000
	17540000	1808 *	033D INTERVAL TIMER ACE	001D 16	18090000
		1809 *			18100000

01	ERR LOC OBJECT CODE				
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15	LOGTFULL C 001 00FF 0923	
	MENUC C 001 0001 0443	
	MILCA32K C 001 0001 0746	
16	MODE C 001 0009 0452	
	MP10BERR C 001 0008 0741	
	MSCA001 A 008 0B3F 4481 3966	
17	MSCA002 A 006 0B45 4482 4350	
	MSCADEND A 001 0CFF 4703	
	MSCA0010 A 001 0B38 4480	
18	MSCA0020 A 001 0B0A 3823 3819	
	MSCA0030 A 001 0B8D 3956	
	MSCA0040 A 001 0B97 3931 3955	
19	MSCA0060 A 001 0B86 3953 3937	
	MSCA0080 A 001 0B86 3952 3940	
	MSCA0100 A 001 0B82 3948 3943	
20		

15	MSCA0700 A 001 0AE6 4410	
	MSCA0720 A 001 0B34 4467	
16	MSCA0740 A 001 0B30 4465	
	MSCA0760 A 001 0B1F 4445	
	MSCPREND A 001 0000 4701	
17	MSCPRENT A 001 0ADF 4405	
	MSCPRINT A 001 0B00 3814	
	MSG C 001 0002 0444	
18	MSKKSNN A 001 0CFA 4697	
	NINE C 001 0009 0118	
	NIPAGC21 A 008 0BA3 4595	
19	NIPARMCU A 001 0CC4 4661	
	NIPARNAV A 001 0CCD 4667	
20	NIPACTSK A 001 0B5F 4555	

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03	V09/11/81 12/08/81 02:16	
04)	36750000	
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cccc	37170000	
cc	37180000	
cccc	37190000	
cccc	37200000	
	37210000	
	37220000	
	37230000	
cccc	37240000	
	37250000	
	37260000	
	37270000	

01	MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 74	V09/11/81 12/08/81 02:16
	ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT		
02		0010 3727 XFERCTL EQU X'10' TRANSFER CONTROL ROUTINE 37280000		
		0020 3728 XNTPRIV EQU X'20' PRIVILEGED TRANSIENT 37290000		
03		0008 3729 XNTAREAS EQU X'08' FIRST SECTOR IN TRANSIENT AREA(HIGH) 37300000		
		000F 3730 XNTAREAE EQU X'0F' LAST SECTOR IN TRANSIENT AREA (HIGH) 37310000		
		0008 3731 XFERIADN EQU X'08' IAR TRANSLATION ON 37320000		
04		0004 3732 XFEREADN EQU X'04' SET EA ON TRANSFER CONTROL 37330000		
		0002 3733 XFEREBON EQU X'02' SET EB ON TRANSFER CONTROL 37340000		
		0001 3734 XFERAPON EQU X'01' SET ON WRITE PROTECT(NON-PRIVILEGED) 37350000		
05		3735 ***** 37360000		
		3736 * 'SYSTEM' TRANSIENT RIB EQUATES (I.E., IMPLICIT DISK ADDR, LENGTH) * 37370000		
		3737 ***** 37380000		
06		0000 3738 RRSVDOO EQU X'00' RESERVED 37390000		
		0001 3739 RFIND EQU X'01' FIND 37400000		
		0002 3740 ROPEN EQU X'02' OPEN 37410000		
07		0003 3741 RCLOSE EQU X'03' CLOSE 37420000		
		0004 3742 REQJ EQU X'04' END-OF-JOB 37430000		
		0005 3743 RSLOG EQU X'05' SYSLOG 37440000		
08		0006 3744 RSLIST EQU X'06' SYSLIST 37450000		
		0007 3745 RSIN EQU X'07' SYSIN 37460000		
		0008 3746 RSGET EQU X'08' SOURCE GET 37470000		
09		0009 3747 RMSG EQU X'09' MESSAGE RETRIEVE 37480000		
		000A 3748 RLIBRY EQU X'0A' LIBRARY OPEN/CLOSE 37490000		
		000B 3749 RVTOCFD EQU X'0B' VTOC READ/WRITE FD 37500000		
10		000C 3750 RALLOC EQU X'0C' ALLOCATE 37510000		
		000D 3751 RDALOC EQU X'0D' DEALLOCATE 37520000		
		000E 3752 RSALOC EQU X'0E' SPECIAL ALLOCATE 37530000		
		000F 3753 RINFO EQU X'0F' RETRIEVE SYSTEM INFORMATION 37540000		
11		0010 3754 RVTRD EQU X'10' VTOC READ/WRITE RD 37550000		
		0011 3755 RSNAP EQU X'11' SNAP DUMP 37560000		
12		0012 3756 RPGLT EQU X'12' RPG HMLT 37570000		
		0013 3757 RDMCALL EQU X'13' DATA MANAGEMENT CONTROLLER 37580000		
		0014 3758 RPRALGN EQU X'14' PRINTER ALIGNMENT 37590000		
13		0015 3759 RCPRT EQU X'15' COMMAND PROCESSOR ROUTER 37600000		
		0016 3760 RLOPEN EQU X'16' LPRINTS OPEN 37610000		
		0017 3761 RWSDM EQU X'17' USER WSDM REQUEST 37620000		
14		0018 3762 RSWSM EQU X'18' SYSTEM WSDM REQUEST 37630000		
		0019 3763 RFLDLIB EQU X'19' USER LIBRARY FIND REQUEST 37640000		
		001A 3764 RAFA EQU X'1A' AFA ACCESS TRANSIENT 37650000		
15		001B 3765 RSPool EQU X'1B' SPOOL INTERCEPT REQUEST 37660000		
		001C 3766 RSPALC EQU X'1C' SPOOL ALLOCATE REQUEST 37670000		
		001D 3767 RCPERR EQU X'1D' COMMAND PROCESSOR I/O ERROR 37680000		
16		001E 3768 RITC EQU X'1E' TASK-TASK COMMUNICATIONS 37690000		
		001F 3769 RCPTC EQU X'1F' COMMAND PROCESSOR TASK-TASK 37700000		
		0020 3770 RSETX EQU X'20' SET EXIT 37710000		
17		0021 3771 RADDN EQU X'21' WSDM TRANSIENT 37720000		
		0022 3772 RSWDR EQU X'22' ** 37730000		
		0023 3773 RADDG EQU X'23' ** 37740000		
18		0024 3774 RADDF EQU X'24' ** 37750000		
		0025 3775 RADDQ EQU X'25' ** 37760000		
		0026 3776 RADDH EQU X'26' ** 37770000		
19		0027 3777 ROFFLINE EQU X'27' OFFLINE I/O DATA MGMT. 37780000		
		0028 3778 RADDN EQU X'28' WSDM TRANSIENT 37790000		
		0029 3779 RADDQ EQU X'29' ** 37800000		
20		002A 3780 RADDQ EQU X'2A' ** 37810000		

01	MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION	
	ERR LOC OBJECT CODE	
02		
03		
04		
05		
06		
07		
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09		
10		
11		
12		
13		0800
14		
15		0800 F2 87 07
16		0803 04E2C3D7D9
		0808 08
		0809 00
17		
18		
19		080A F4 00 06
20		080D 007D

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03	V09/11/81 12/08/81 02:16	
*	18040000	
FACE *	18050000	
*	18060000	
FACE *	18070000	
*	18080000	
FACE *	18090000	
*	18100000	

01	MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 38	V09/11/81 12/08/81 02:16
	ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT		
02		185B * * 18540000		
		0000 1854 NULFANUC EQU X'0000' MAIN STORAGE NUCLEUS - FIXED AREA 18550000		
03		1855 * * 18560000		
		0000 1856 NULFANUC EQU NULFANUC 'SYSTEM COMMUNICATION AREA 18570000		
		0100 1857 NULFANUC EQU 256 * (LENGTH OF AREA) 18580000		
04		1858 * * 18590000		
		0100 1859 NULFANUC EQU NULFANUC-NULFANUC SYSTEM QUEUE HEADERS 18600000		

01	MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION	
	ERR LOC OBJECT CODE	
02		
03		
04		

15	MSC0690 A 001 0838 4476
	MSC0700 A 001 08E6 4410
	MSC0710 A 001 08DF 4407 4466
	MSC0720 A 001 0834 4467 4409
16	MSC0740 A 001 0830 4465 4414
	MSC0760 A 001 081F 4445 4442
	MSPREND A 001 0800 4701 4423
17	MSPRENT A 001 08DF 4405 4704
	MSPRINT A 001 0800 3814
	MSG C 001 0802 0444
18	MSKKSSN A 001 08FA 4697 4254
	NINE C 001 0809 0118
	NIPMG21 A 008 08A3 4595 4155 4238
19	NIPMCMU A 001 08C4 4661 4343
	NIPARWY A 001 08CD 4667 4328
20	NIPACTSK A 001 085F 4555 4186* 4188* 4195* 4218 4236

15	NUMSTQE C 001 0390 1899
	NUMSPACE C 001 0310 1899
	NUMTEACE C 001 0370 1900
	NUMTFLAF C 001 03F0 1927
16	NUMLGACE C 001 0320 1899
	NUMLOADI C 001 2000 1944
	NUMSPACE C 001 0340 1899
17	NUMWNTQE C 001 0398 1910
	NUMPJOB C 001 01C0 1866
	NUMSSQS C 001 1000 1944
18	NUMSPACE C 001 0360 1907
	NUMJOB C 001 02A8 1882
	NUMSCA C 001 0000 1856
19	NUMSPACE C 001 03E0 1920
	NUMSPACE C 001 0350 1899
20	NUMTACE C 001 0330 1899

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74	V09/11/81	12/08/81	02:16
37280000			
37290000			
37300000	)		
37310000	)		
37320000			
37330000			
37340000	)		
37350000			
37360000	*****		
37370000	TH) *		
37380000	*****		
37390000			
37400000			
37410000			
37420000			
37430000			
37440000			
37450000			
37460000			
37470000			
37480000			
37490000			
37500000			
37510000			
37520000			
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37740000			
37750000			
37760000			
37770000			
37780000			
37790000			
37800000			
37810000			

MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 75	V09/11/81	12/08/81	02:16
01	ERR LOC OBJECT CODE	ADDR STMT	SOURCE STATEMENT		
02		0028 3781 RPRAZ	EQU X'28' SECURITY	37820000	
		002C 3782 RCHD	EQU X'2C' COMMAND OCL INTERFACE	37830000	
03		002D 3783 RIDERR	EQU X'2D' I/O ERROR TRANSIENT	37840000	
		002E 3784 REXTND	EQU X'2E' EDF EXTEND TRANSIENT	37850000	
		002F 3785 RUPDAT	EQU X'2F' EDF UPDATE TRANSIENT	37860000	
04		0030 3786 RCHKPT	EQU X'30' CHECKPOINT TRANSIENT	37870000	
		0031 3787 RSPMIC	EQU X'31' SPOOL TRANSIENT	37880000	
		0032 3788 RICDA	EQU X'32' ICF (CVC) 4	37890000	
		0033 3789 RICDB	EQU X'33' ICF (CVC) 4	37900000	
05		0034 3790 RICDC	EQU X'34' ICF (CVC) 4	37910000	
		0035 3791 RSVTX	EQU X'35' TWA EXTENSION 3	37920000	
06		0036 3792 RSORT	EQU X'36' SORT TRANSIENT 4	37930000	
		0037 3793 REXTRA	EQU X'37' EXTENDED TRACE 4	37940000	
		0038 3794 RMDL	EQU X'38' WSDM TRANSIENT	37950000	
07		0039 3795 RGLFR	EQU X'39' GLF TRANSIENT 5	37960000	
		003A 3796 RGLFAC	EQU X'3A' GLF TRANSIENT 5	37970000	
		003B 3797 REXTNP	EQU X'3B' EXTENDED PRINT 6	37980000	
08		003C 3798 RSMFC	EQU X'3C' SMF COMM. DATA COLLECTION 6	37990000	
		003D 3799 RICDD	EQU X'3D' PEER MULTIPOINT 6	38000000	
		003E 3800 RMDU	EQU X'3E' WSDM XIENT	38010000	
09		003F 3801 RMDT	EQU X'3F' "	38020000	
		0040 3802 RMEGT	EQU X'40' "	38030000	
		0041 3803 RROOM	EQU X'41' RDOM TTC XIENT CALL	38040000	
10		0042 3804 RMDH	EQU X'42' WSDM XIENT	38050000	
		0043 3805 RSPQMG	EQU X'43' SPOOL QUEUE MGMT XIENT	38060000	
		0043 3806 RXTEND	EQU RSPQMG LAST VALID ENTRY	38070000	
11		0110 3808 XFLENBYT	EQU RXTEND*4+4 LENGTH OF XFER TABLE (BYTES)	38090000	
		0088 3809 XFLENWRD	EQU RXTEND*2+2 LENGTH OF XFER TABLE (WORDS)	38100000	
12		3810 ***	END OF EXPANSION **	38110000	
		3811	MISCPRINT:	38120000	
		3812	*PROC OPTIONS(NOSAVE, ID=<IDN=MISCPR, ATTR=E09100, RLD=D, MOD=0,	38130000	
		3813 *	CORE=08), START=MUXIENT);	38140000	
13	0800	3814	MISCPRINT START MUXIENT	3815	38150000
		3815	ATTR E09100	3815	38160000
		3816	CORE 08	3815	38170000
14		3817	LEVEL 08	3815	38180000
		3818	RLD D	3815	38190000
15	0800 F2 87 07	3819	J MSC0020	3815	38200000
16	0803 D4E2C30709	0807 3820	DC CL5 MISCPR'	3815	38210000
	0808 08	0808 3821	DC XLI'08'	3815	38220000
	0809 00	0809 3822	DC XLI'0'	3815	38230000
		080A 3823	MSC0020 EQU *	3815	38240000
17		3824 */*	*/	38250000	
		3825 */*****	*/	38260000	
		3826 */*	GET SPACE FOR A JOB CONTROL BLOCK. IT WILL BE USED BY SPOOL,	*/	38270000
		3827 */*	JOB QUEUE, AND HISTORY OVERFLOW INITIALIZATION ROUTINES.	*/	38280000
18		3828 */*****	*/	38290000	
		3829 */*	*/	38300000	
19		3830 *	GEN; /* GET SPACE FOR A JOB */	38310000	
		3831 *	ASSGN LEN-JOBLLNTH	38320000	
	080A F4 00 06	3832	SNC SWSRSSLN_0 ASSIGN REQUEST	38330000	
	080D 0070	080E 3833	DC ALZCJOBLLNTHD ASSIGN LENGTH	38340000	

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38	V09/11/81	12/08/81	02:16
1825400000			
1825500000			
1825600000			
1825700000			
1825800000			
1825900000			

MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 39	V09/11/81	12/08/81	02:16
01	ERR LOC OBJECT CODE	ADDR STMT	SOURCE STATEMENT		
02		0390 1907 NUMSTQE	EQU NUMSTQC+NUMSPACE DISPATCHER TQE	19080000	
		0808 1908 NUMTQE	EQU 8 * (L1+L2TH OF A TQE)	19090000	
		1909 *		19100000	
03		0398 1910 NUMWNTQE	EQU NUMSTQE+NUMTQE MIDNIGHT TQE	19110000	
		1911 *		19120000	
		0390 1912 NUMTQE	EQU NUMWNTQE+NUMTQE STATISTICS DATED TIME 0 ELEMENT	19130000	

01	ERR LOC OBJECT CODE				
02					
03					

14	NUMSPACE C 001 0300 1918 1920	PPSCUP36 C 001 0040 1985
15	NUMDPTOB C 001 0380 1916 1918	PPSLIBRA C 001 0015 197
	NUMDSTQE C 001 0390 1907 1910	PPSNLOG C 001 0020 196
	NUMERACE C 001 0310 1891 1893	PPSPNAME C 001 0027 198
	NUMTEACE C 001 0370 1903 1905	PPSPRGIL C 001 0000 196
16	NUMTFLAF C 001 03F0 1922 1937	PPSPRGIM C 001 0005 196
	NUMBLGACE C 001 0320 1893 1895	PPSPRGZL C 001 000F 197
	NUMLOADI C 001 2000 1946	PPSPRG2H C 001 0007 196
	NUMSPACE C 001 0340 1897 1899	PPSSGBEG C 001 0003 196
17	NUMMNTQE C 001 0398 1910 1912	PPSSGBUF C 001 001D 198
	NUMMPTOB C 001 01C0 1862 1865	PPSSGCRT C 001 0018 197
	NUMMSSQS C 001 1000 1943 1946	PPSSGEDA C 001 0018 197
18	NUMKFACE C 001 0360 1901 1903	PPSSGLNR C 001 001E 198
	NUMRDIOB C 001 02A8 1882 1885 4644	PPSTAGID C 001 0000 195
	NUMSCA C 001 0000 1856 1859 3860 3890 4061 4305	PPSUSPI C 001 001F 198
19	NUMSPACE C 001 03E0 1920 1922	PPSUSRIL C 001 0011 197
	NUMSPACE C 001 0350 1899 1901	PPSUSRIM C 001 0009 196
20	NUMTFACE C 001 0330 1895 1897	

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75 V09/11/81 12/08/81 02:16		#MISCPR #MISCP - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION	PAGE 76 V09/11/81 12/08/81 02:16	#MISCPR MAIN STORAGE IPL
ERR LOC	OBJECT CODE	ADDR STMT	SOURCE STATEMENT	ERR LOC
02	37820000	080F 01	DC AL1(1+0) ATTRIBUTES	02
	37830000	3835	*** END OF EXPANSION **	38360000
	37840000	3836 *	REG(XR2)=SCADMTUB(1:2); /* GET CONSOLE TUB JCB ADDRESS */	38370000
03	37850000	0810 35 02 006D	L SCADMTUB,XR2 3829	38380000
	37860000	3838 *	REG(XR2)=XR2->TUBJCB@(<1:2>); /* */	38390000
	37870000	0814 85 02 32	L TUBJCB@(<XR2>,XR2 3830	38400000
04	37880000	0817 6C 6F 6F 6F	XR1->JCBLLNTH-1(1:112)=XR2->VAR(JCBLLNTH-1); /* COPY TO NEW JCB */	38410000
	37890000	3841	MVC JCBLLNTH-1(112,XR1),JCBLLNTH-1(<XR2> 3831	38420000
	37900000	3842 *	NUMCPTCB+TCBJCB@(<1:2>)=REG(XR1); /* STORE JCB ADDRESS IN CP TCB */	38430000
05	37910000	081B 34 01 0215	ST NUMCPTCB+TCBJCB@,XR1 3832	38440000
	37920000	3844 *	GENCTITLE 'MAIN STORAGE IPL - START FILE REBUILD, #MISBLD';	38450000
06	37930000			
	37940000			
	37950000			
	37960000			081F C2 01 0000
	37970000			
	37980000			0823 7A 08 58
	37990000			
08	38000000			
	38010000			0826 7A 30 5C
	38020000			
09	38030000			0829 7C 00 61
	38040000			
	38050000			
10	38060000			
	38070000			
	38090000			
	38100000			082C 1C 01 0CC1 1A
	38110000			0831 1E 01 0CC1 1C
12	38120000			
	38130000			0836 1F 01 0CC1 AA
	38140000			
13	38150000			0838 35 02 0CC1
	3815			
	3815			
	3815			
	3815			
	3815			083F C2 01 084A
	3815			0843 74 02 38
	3815			0846 C2 02 02A2
	3815			084A 6C 04 39 05
	3815			084E 7C 01 28
	3815			0851 5D 01 38 38
	3815			0855 F2 81 1C
	38200000			
	38210000			
	38220000			
16	38230000			
	38240000			
	38250000			
	38260000			
17	38270000			0858 4E 01 38 00AA
	38280000			085D 5E 00 28 28
	38290000			0861 00 20 07
18	38300000			
	38310000			0864 76 02 3D
	38320000			0867 5F 00 39 05
19	38330000			0868 00 84 04
	38340000			
20				086E 75 02 36

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39 V09/11/81 12/08/81 02:16		#MISCPR #MISCP - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION	PAGE 40 V09/11/81 12/08/81 02:16	#MISCPR #MISCP - MAIN
ERR LOC	OBJECT CODE	ADDR STMT	SOURCE STATEMENT	ERR LOC
02	19620000	0020 1961	PPSNMLOG EQU X'20' DO NOT LOG TO HISTORY FILE	19620000
	19630000	0003 1963	PPSSGBEG EQU PPSFLAGI*2 SOURCE=GET BEGINNING ADDRESS	19640000
03	19710000			

14	PPSEDFSG C 001 0040 1960	1963 4429*
	PPSLTMA C 001 0015 1974 1976	
15	PPSNDLOG C 001 0020 1961	
	PPSPRWME C 001 0027 1985 1987	
	PPSPRG1L C 001 0000 1969 1970	
16	PPSPRG1M C 001 0005 1965 1966	
	PPSPRG2L C 001 000F 1970 1971	
	PPSPRG2M C 001 0007 1966 1967	
17	PPSSGBEG C 001 0003 1963 1965	
	PPSSGBUF C 001 001D 1980 1981	
	PPSSGCR7 C 001 001B 1977 1978 1979 1980	
18	PPSSGE00 C 001 0018 1976 1977	
	PPSSGLNR C 001 001E 1981 1983	
	PPSTAGTD C 001 0000 1956 1958	
19	PPSUSP1 C 001 001F 1983 1985 4430*	
	PPSUSR1L C 001 0011 1971 1972	
	PPSUSR1M C 001 0009 1967 1968	
20		

14	QHDCRNT C 001 0018 1406	
	QHDIILK C 001 0064 1445	
	QHDEIB C 001 00A0 1471	
15	QHDERB C 001 0074 1453	
	QHDEXAM C 001 00A6 1474	
	QHDEXTRA C 001 009A 1468	
16	QHDFD C 001 0000 1394	
	QHDFDA C 001 0030 1418	
	QHDFDB C 001 0032 1419	
17	QHDFDC C 001 0034 1420	
	QHDFDD C 001 0036 1421	
	QHDFGLF C 001 00A4 1473	
18	QHDFGW C 001 0076 1454	
	QHDMI C 001 0001 1378	
	QHDMIST C 001 006E 1450	
19	QHDMQEX C 001 0090 1463	
	QHDMQNT C 001 000A 1399	
20	QHDMIO C 001 0002 1395	

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38350000	
38360000	
38370000	
38380000	
38390000	
38400000	
38410000	
38420000	
38430000	
38440000	
38450000	

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	
01				MSICPR MAIN STORAGE IPL - START FILE REBUILD, MYSBLD	PAGE 77 V09/11/81 12/08/81 02:16
02		3846	*/	*/	38470000
		3847	*/	*/	38480000
03		3848	*/	FILE REBUILD, MYSBLD, IS CONSIDERED AS PART OF IPL, BUT RUNS AS */	38490000
		3849	*/	A SEPARATE TASK AND NOT UNDER THE COMMAND PROCESSOR AS IPL DOES. */	38500000
		3850	*/	*/	38510000
04		3851	*/	A SYSTEM COMMUNICATION AREA FLAG 'SCAMRBLD' IN BYTE 'SCASYS1' IS */	38520000
		3852	*/	SET ON TO INDICATE TO ANY ROUTINES THAT WILL BE CALLED BY MYSBLD */	38530000
		3853	*/	THAT IPL IS IN PROGRESS. */	38540000
		3854	*/	*/	38550000
05		3855	*/	MYSBLD WILL RUN AS A DEDICATED TASK, THEREFORE NO JOBS CAN BE */	38560000
		3856	*/	STARTED UNTIL IS HAS COMPLETED. */	38570000
		3857	*/	*/	38580000
06		3858	*/	*/	38590000
		3859	*/	REG(XR1)=ADDR(NUBSCA); /* XR1 --> SCA */	38600000
07	081F C2 01 0000	3860		LA NUBSCA,XR1	38610000
		3861	*/	XR1->SCASYS1=ONKSCAMRBLD); /* SET FILE REBUILD CALLED */	38620000
	0823 7A 08 58	3862		SNB SCASYS1(XR1),SCAMRBLD	38630000
08	0826 7A 30 5C	3863	*/	XR1->SCASYS2=ONKSCAMHLPD+SCAMIPUP); /*SET HIGH LEVEL DEDICATION */	38640000
		3864	*/	SNB SCASYS2(XR1),SCAMHLPD+SCAMIPUP	38650000
		3865	*/	XR1->SCAIPLWK+(1:1)=0; /* RESET STARTUP FLAG */	38660000
09	0829 7C 00 61	3866		MVI SCAIPLWK+(1,XR1),0	38670000
		3867	*/	*/	38680000
		3868	*/	*/	38690000
10		3869	*/	DEALLOCATE TWA TRACK THAT WAS SAVED DURING IPL. TRACK WAS SAVED */	38700000
		3870	*/	TO INSURE THAT THERE IS ENOUGH TASK WORK AREA TO RUN REBUILD. */	38710000
		3871	*/	*/	38720000
		3872	*/	*/	38730000
11	082C 1C 01 OCC1 1A	3873	*/	NIPWDRK=XR1->SCASSTWA+XR1->SCATWSSZ; /* CALCULATE TWA TRACK SS */	38740000
		3874		MVC NIPWDRK(002),SCASSTWA,XR1	38750000
	0831 1E 01 OCC1 1C	3875		ALC NIPWDRK(002),SCATWSSZ,XR1	38760000
12	0836 1F 01 OCC1 AA	3876	*/	NIPWDRK=NIPWDRK+XR1->SCADTKSZ; /* */	38770000
		3877		SLC NIPWDRK(002),SCADTKSZ,XR1	38780000
13	0838 35 02 OCC1	3878	*/	REG(XR2)=NIPWDRK; /* XR2 CONTAINS TWA TRACK SS */	38790000
		3879		L NIPWDRK,XR2	38800000
		3880	*/	GEN; /* DEALLOCATE TWA TRACK */	38810000
		3881	*/	DTWAL QUE=ND	38820000
14	084A C2 01 084A	3882		USING DTW0005,1 USE AS A BASE REGISTER	38830000
		3883		LA DTW0005,1 LOAD BASE REGISTER VALUE	38840000
15	0843 74 02 38	3884		ST DTW0005,1,2 STORE SS ALLOCATED	38850000
	0846 C2 02 02A2	3885		LA NUBTMAXR,2 POINT TO INDEX START	38860000
	084A 6C 04 39 05	3886		DTW0005 MVC DTW0005(1),5(,2) MOVE IN FIRST ELEMENT	38870000
16	084E 7C 01 28	3887		DTW0010 MVI DTW0030+(1,1),X'01' INIT. Q-CODE TO FIRST TRACK	38880000
	0851 5D 01 38 38	3888		DTW0020 CLC DTW0005(1),DTWSSC,1) UP TO TRACK TO FREE ?	38890000
	0855 F2 81 1C	3889		JE DTW0030 YES, FREE UP TRACK	38900000
17	0858 4E 01 38 00AA	3890		ALC DTWSSC(1),NUBSCA+SCADTKSZ ADD SECTORS/TRACK	38910000
	085D 5E 00 28 28	3891		MVC DTW0030+(1,1),DTW0030+(1,1) DOUBLE Q-CODE	38920000
	0861 D0 20 07	3892		BNL DTW0020(1) CHECK NEXT TRACK	38930000
18	0864 76 02 3D	3893		A DTW0005(1),2 POINT TO NEXT INDEX BYTE	38940000
	0867 5F 00 39 05	3894		SLC DTW0005(1),DTW0010+(1,1) DECR. INDEX LENGTH	38950000
19	086B D0 34 04	3895		BN DTW0010(1) CHECK NEXT BYTE	38960000
20	086E 75 02 36	3896		L DTW0005(1),2 XR2-> NEXT ELEMENT	38970000

01				MSICPR MAIN STORAGE IPL - START	
02	0871 D0 87 00				38
03	0874 BA 00 00				38
	0877 F4 00 01				39
04	087A 40			087A 39	39
	087B 00			087B 39	39
05	087C F2 87 09				39
	087F			0883 39	39
06				0880 39	39
				0882 39	39
				0883 39	39
07	0884			0885 39	39
	0886 FFFF			0887 39	39
08				0888 39	39
				0001 39	39
09				39	39
				39	39
10				39	39
				39	39
11	0888 F4 00 06			39	39
	0888 001D			088C 39	39
12	088D 81			088D 39	39
				39	39
13	088E 4C 18 18 085E			39	39
	0893 C2 02 0148			39	39
14				39	39
				0897 39	39
15	0897 B5 02 13			39	39
	089A B0 C0 14			39	39
16	089D F2 01 16			39	39
17	08A0 B8 90 35			39	39
	08A3 F2 90 10			39	39
18	08A6 B8 40 36			39	39
	08A9 F2 90 06			39	39
19	08AC 74 02 10			39	39
20				39	39

E20

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19620000	
19640000	

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	
02		2015	*	*	20160000
		2016	*	*	20170000
03		2017	*	*	20180000
		2018	*	*	20190000

01				MSICPR MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION	
02					
03					

14	QNDLQ C 001 0018 1408
15	QNDLTK C 001 0064 1445
	QNDI8 C 001 0040 1471
	QNDERB C 001 0074 1453
	QNDXAM C 001 0046 1474
16	QNDXTRA C 001 009A 1468
	QNDFD C 001 0000 1394
	QNDFDA C 001 0030 1418
	QNDFDB C 001 0032 1419
17	QNDFDC C 001 0034 1420
	QNDFDD C 001 0036 1421
	QNDGLF C 001 004A 1473
18	QNDGW C 001 0076 1454
	QNDHL C 001 0001 1378
19	QNDHIST C 001 006E 1450
	QNDINQEX C 001 0090 1463
	QNDIOXNT C 001 000A 1399
20	QNDIO C 001 0002 1395

14	QNDLQ C 001 0018 1408
15	QNDLTK C 001 0064 1445
	QNDI8 C 001 0040 1471
	QNDERB C 001 0074 1453
	QNDXAM C 001 0046 1474
16	QNDXTRA C 001 009A 1468
	QNDFD C 001 0000 1394
	QNDFDA C 001 0030 1418
	QNDFDB C 001 0032 1419
17	QNDFDC C 001 0034 1420
	QNDFDD C 001 0036 1421
	QNDGLF C 001 004A 1473
18	QNDGW C 001 0076 1454
	QNDHL C 001 0001 1378
19	QNDHIST C 001 006E 1450
	QNDINQEX C 001 0090 1463
	QNDIOXNT C 001 000A 1399
20	QNDIO C 001 0002 1395

14	QNDTIMEA C 001 003E 1426
15	QNDTRM C 001 0050 1435
	QNDTTC C 001 0048 1431
	QNDTUB C 001 005A 1440
16	QNDTWA C 001 001A 1407
	QNDTWF1 C 001 0098 1467
	QNDVILK C 001 0068 1447
17	QNDWSC C 001 0006 1397
	QNDWSQS C 001 0080 1459
	QNDXIENT C 001 0042 1428
18	QNDX21 C 001 00AE 1478
	QND5ILK C 001 006A 1448
19	QNDWAIT C 001 0008 2723
	QNDCHPRI C 001 0018 2732
	QNDQ C 001 0010 2726
20	QNDQNV C 001 0019 2731

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38900000
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38970000

*MISCP MAIN STORAGE IPL - START FILE REBUILD, *MSBLD				PAGE 78 009/11/81 12/08/81 02:16	
01	ERR LOC OBJECT CODE	ADDR STMT	SOURCE STATEMENT		
02	0871 DO 87 00	3897	B DTW0005(,1) CHECK NEXT ELEMENT	38980000	
03	0874 BA 00 00	3898 DTW0030 SBN	0C,2),0 MARK TRACK FREE	38990000	
		3899 *	GPOST MASK-TCBSWAIT POST IN CASE TASK WAITING	39000000	
	0877 F4 00 01	3900	SVC SVCGPOST,0	39010000	
04	087A 40	087A 3901	DC AL1(TCBSWAIT)	39020000	
	087B 00	087B 3902	DC AL1(0)	39030000	
		3903 ****	END OF EXPANSION **	39040000	
05	087C F2 87 09	3904	J DTWPEND JUMP AROUND CONSTANTS	39050000	
06	087F	0883 3905 DTWELM DS	CL5 SAVED ELEMENT	39060000	
		0880 3906 DTWACHAN EQU	DTWELM-3 CHAIN ADDRESS	39070000	
		0882 3907 DTWASS EQU	DTWACHAN+2 SS VALUE	39080000	
		0883 3908 DTWBYT EQU	DTWASS+1 #BYTES OF INDEX	39090000	
07	0884	0885 3909 DTWACH DS	CL2 SS ADDRESS TO FREE	39100000	
	0886 FFFF	0887 3910 DTWFF DC	XL2 'FFFF' CONSTANT OF -1	39110000	
		0888 3911 DTWPEND EQU	*	39120000	
08		0001 3912	DROP 1 DROP BASE REGISTER USAGE	39130000	
		3913 ***	END OF EXPANSION **	39140000	
		3914 */*		39150000	
		3915 */*****		39160000	
09		3916 */*	ATTACH A TCB TO RUN FILE REBUILD, *MSBLD. IT WILL RUN IN A	39170000	
		3917 */*	DEDICATED STATE.	39180000	
		3918 */*****		39190000	
10		3919 */*		39200000	
		3920 *	GEN; /* GET SPACE FOR ATTACH PARTS */	39210000	
11	0888 F4 00 06	3921 *	ASSEN LEN-BATLENG, QUEUE-YES	39220000	
		3922	SVC SVCASSEN,0 ASSIGN REQUEST	39230000	
	088B 001D	088C 3923	DC AL2(BATLENG+4) LENGTH + 4 FOR QUEUEING	39240000	
	088D 81	088D 3924	DC AL1(1*X'80') ATTRIBUTES	39250000	
12		3925 ***	END OF EXPANSION **	39260000	
		3926 *	XRI->BATLENG-1(1-25)=WORKIPATCH+BATLENG-1(1-25); /*MOVE PART */	39270000	
13	088E 4C 18 18 085E	3927	PAC BATLENG-1(025,XR1),NIPATCH+BATLENG-1	39280000	
		3928 *	REG(XR2)=ADDR(NRANCEQ+1+QIDTUB-TUBCHAIN); /* XR1-> TUB CHAIN */	39290000	
	0893 C2 02 0148	3929	LA NRANCEQ+1+QIDTUB-TUBCHAIN,XR2	39300000	
		3930 *	DO UNTIL XR2->TUBCHAIN-1=QIDNULL); /* GET CONSOLE TUB LOOP */	39310000	
14		0897 3931	MISC0040 EQU *	39320000	
		3932 *	REG(XR2)=XR2->TUBCHAIN(1:2); /* XR2 --> TUB */	39330000	
	0897 85 02 13	3933	L TUBCHAIN(XR2),XR2	39340000	
		3934 *	IF XR2->TUBDEVID=TUBSDROP THEN /* DISPLAY STATION TUB? AND... */	39350000	
	089A 8D CD 14	3935	CLI TUBDEVID,XR2,TUBSDROP	39360000	
		3936 *	IF XR2->TUBATTR1=ONKTUBSN+TUBCID THEN /* SIGNED ON CONSOLE? */	39370000	
16	089D F2 01 16	3937	JNE MISC0060	39380000	
	089D 88 90 35	3938	TBN TUBATTR1(XR2),TUBSN+TUBCID	39390000	
		3939 *	IF XR2->TUBATTR2=ONKTUBASTD THEN /* AND WORK STATION? */	39400000	
	08A3 F2 90 10	3940	JF MISC0080	39410000	
18	08A6 88 40 36	3941	TBN TUBATTR2(XR2),TUBASTD	39420000	
		3942 *	XRI->BATLENG(1-25)=REG(XR2); /* YES, SAME IN PART LIST */	39430000	
	08A9 F2 90 06	3943	JF MISC0100	39440000	
19	08AC 74 02 10	3944	ST BATLENG(XR1),XR2	39450000	
20		3945 *	ELSE	39460000	

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20160000
20170000
20180000
20190000

*MISCPR *MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION				PAGE 42 009/11/81 12/08/81 02:16	
01	ERR LOC OBJECT CODE	ADDR STMT	SOURCE STATEMENT		
02	20169 *	2069 *	SCREQ SYSTEM COMMUNICATION AREA EQUATES	20700000	
	20170	2070	*****	20710000	
	20171 *	2071 *		20720000	
03	20172 *	2072 *	S Y S T E M	20730000	

01	ERR LOC OBJECT CODE	ADDR		
02				
03				

14	QHDTCBQ C 001 0046 1490
	QHDTIMEA C 001 003E 1426
	QHDTIMER C 001 003C 1425
15	QHDTRM C 001 0050 1435
	QHD TTC C 001 0048 1431 4080 4450
	QHD TUB C 001 005A 1440 3929
16	QHD TWA C 001 001A 1407
	QHD TWF1 C 001 0098 1467
	QHD VTLK C 001 0068 1447
17	QHD WSC C 001 0006 1397 4051
	QHD WSQL C 001 0080 1459
	QHD X T E N T C 001 0042 1428
18	QHD X 21 C 001 00AE 1478
	QHD S I L K C 001 006A 1448
	QHD M A I T C 001 0008 2723 2731 2732 2733
19	QNC H P R I C 001 0018 2732
	QNC C 001 0010 2726 2731 2732 4079
20	QNC Q V C 001 0019 2731

14	RGFLR C 001 0039 3795
	RICDA C 001 0032 3788
	RICDB C 001 0033 3789
15	RICDC C 001 0034 3790
	RICDD C 001 003D 3799
	RINFO C 001 000F 3753
16	RIOERR C 001 002D 3783
	RLIBRY C 001 000A 3748
	RLOPEN C 001 0016 3760
17	ROFFLINE C 001 0027 3777
	ROPEN C 001 0002 3740
	RPGHLT C 001 0012 3756
18	RPRALGN C 001 0014 3758
	RPRAZ C 001 002B 3781
	RROOM C 001 0041 3803
19	RRSVD00 C 001 0000 3738
	RSALOC C 001 000E 3752
20	RSETX C 001 0020 3770

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8	V09/11/81 12/08/81 02:16
38980000	
38990000	
39000000	
39010000	
39020000	
39030000	
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39060000	
39070000	
39080000	
39090000	
39100000	
39110000	
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39380000	
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39400000	
39410000	
39420000	
39430000	
39440000	
39450000	
39460000	

MISCPR MAIN STORAGE IPL - START FILE REBUILD, MMSBLD		PAGE 79	V09/11/81 12/08/81 02:16
01	ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT	
02	38980000	3946 * XR1->SATTUBA(1:2)=XR2->TUBTUB; /* NO. SAVE HORIZONTAL TUB */	39470000
		08AF F2 87 04 3947 J MSCA0110	39480000
03	38990000	0882 3948 MSCA0100 EQU *	3917 39490000
	39000000	3949 MNC SATTUBA(002,XR1),TUBTUB(XR2)	3917 39500000
	39010000	0886 3950 MSCA0110 EQU *	3917 39510000
	39020000	3951 * END;	3917 39520000
	39030000	0886 3952 MSCA0080 EQU *	3918 39530000
	39040000	0886 3953 MSCA0060 EQU *	3918 39540000
	39050000	0886 BD 00 12 3954 CLI TUBCHAIN-1(XR2),QDNULL	3918 39550000
	39060000	0889 CD 01 0897 3955 BNE MSCA0040	3918 39560000
	39070000	088D 3956 MSCA0030 EQU *	3918 39570000
	39080000	3957 * REG(XR2)=SCADCPUB(1:2); /* GET WORK AREA ADDRESS	aa145*/ 39580000
	39090000	088D 35 02 0082 3958 L SCADCPUB,XR2	3919 39590000
	39100000	3959 * XR2->CPTUB(1:2)=XR1->SATTUBA; /* STORE TUB ADDRESS	*/ 39600000
	39110000	08C1 9C 01 FC 10 3960 MNC CPTUB(002,XR2),SATTUBA(XR1)	3920 39610000
	39120000	3961 * XR2->CPINPOTE=BLANK; /* INITIALIZE DATA AREA	aa145*/ 39620000
	39130000	08C5 BC 40 F7 3962 MVI CPINPOTE(XR2),BLANK	3921 39630000
	39140000	3963 * XR2->CPINPOTE-1(1:119)=XR2->CPINPOTE; /*	aa145*/ 39640000
	39150000	08C8 AC 76 F6 F7 3964 MNC CPINPOTE-1(119,XR2),CPINPOTE(XR2)	3922 39650000
	39160000	3965 * XR2->CPINPOTA+7(1:8)=C*IPLPDRC; /* REBUILD PROCEDURE	aa145*/ 39660000
	39170000	08CC BC 07 87 083F 3966 MNC CPINPOTA+7(008,XR2),MSCA0001	3923 39670000
	39180000	3967 * XR2->CPINPOTA+16(1:8)=MNCNIPSTART+7(1:8); /* STARTUP	aa145*/ 39680000
	39190000	08D1 8C 07 90 02DF 3968 MNC CPINPOTA+16(008,XR2),NIPSTART+7	3924 39690000
	39200000	3969 * REGOR2)=REG(XR2)+CPINPOTA; /* SET DATA ADDRESS	aa145*/ 39700000
	39210000	08D6 E2 02 80 3970 LA CPINPOTA(XR2),XR2	3925 39710000
	39220000	3971 * XR1->SATDATA(1:2)=REGOR2; /*	aa145*/ 39720000
	39230000	08D9 74 02 18 3972 ST SATDATA(XR1),XR2	3926 39730000
	39240000	3973 * REGOR2)=XR1->SATTUBA(1:2); /* XR2 PTR TUB	aa145*/ 39740000
	39250000	08DC 75 02 10 3974 L SATTUBA(XR1),XR2	3927 39750000
	39260000	3975 * XR2->TUBATTR2=OFF(X'FO'); /* SET DATA MODE IN TUB	aa145*/ 39760000
	39270000	08DF 88 F0 36 3976 SIB TUBATTR2(XR2),X'FO'	3928 39770000
	39280000	3977 * XR2->TUBATTR2= ONKTUBDATA+TUBMSTND; /*	aa145*/ 39780000
	39290000	08E2 BA 50 36 3978 SIB TUBATTR2(XR2),TUBDATA+TUBMSTN	3929 39790000
	39300000	3979 * IF SCADCP2(1:1)=ONKSCADCP2 THEN /* REBUILD REQUEST?	aa145*/ 39800000
	39310000	08E5 38 08 0071 3980 TBN SCADCP2,SCADCP2	3930 39810000
	39320000	3981 * DD; /* YES, SET JCB UPSI	aa145*/ 39820000
	39330000	08E9 F2 90 00 3982 JF MSCA0130	3931 39830000
	39340000	3983 * REGOR2)=XR2->TUBJCB(1:2); /* GET JCB ADDRESS	aa145*/ 39840000
	39350000	08EC 85 02 32 3984 L TUBJCB(XR2),XR2	3932 39850000
	39360000	3985 * IF *ZERO,REGOR2)=REGOR2)+XDD THEN /* ADDRESS OK?	aa145*/ 39860000
	39370000	08EF 36 01 08A8 3986 A XDD,XR1	3933 39870000
	39380000	3987 * XR2->JCBUPS1=ONK(X'91'); /* YES, SET UPSI SWITCH	aa145*/ 39880000
	39390000	08F3 F2 81 03 3988 JZ MSCA0150	3934 39890000
	39400000	08F6 BA 91 06 3989 SIB JCBUPS1(XR2),X'91'	3934 39900000
	39410000	3990 * END;	3935 39910000
	39420000	08F9 3991 MSCA0150 EQU *	3935 39920000
	39430000	3992 * GEN;	/* CALL ATTACH TRANSPARENT *SWAT */ 39930000
	39440000	08F9 3993 MSCA0150 EQU *	3936 39940000
	39450000	08F9 F4 01 10 3994 SMC SMCXIENT,QREFRESH	3936 39950000
	39460000	08FC 0C06 08FD 3995 DC ALZ(NIPSSATC)	3936 39960000

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42	V09/11/81 12/08/81 02:16
20700000	
20710000	
20720000	
20730000	
20740000	
20750000	
20760000	
20770000	
20780000	
20790000	

MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 43	V09/11/81 12/08/81 02:16
01	ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT	
02	20700000	0801 2123 SCANDST2 EQU *'01'	*'01' - DISK FILE SIZE 21240000
	20710000	2124 * D - 8 MEGABYTE DISK	21250000
	20720000	2125 * I - 12 MEGABYTE DISK	21260000

01	ERR LOC OBJECT CODE	
02		

14	RGLFR	C 001	0039	3795	14	RWPLSLN1	C 001	0034	3796	14	RWPLSLN2	C 001	0039	3795
	RICDA	C 001	0032	3788		RWPLSLN3	C 001	0032	3788		RWPLSLN3	C 001	0032	3788
	RICDB	C 001	0033	3789		RWPLSLN4	C 001	0033	3789		RWPLSLN4	C 001	0033	3789
15	RICDC	C 001	0034	3790	15	RWPLATCH	C 001	0034	3790	15	RWPLATCH	C 001	0034	3790
	RICDD	C 001	003D	3799		RWPLATTR	C 001	003D	3799		RWPLATTR	C 001	003D	3799
	RINFO	C 001	000F	3753		RWPLAUT	C 001	000F	3753		RWPLAUT	C 001	000F	3753
16	RIOERR	C 001	002D	3783	16	RWPLCDIT	C 001	002D	3783	16	RWPLCDIT	C 001	002D	3783
	RLIBRY	C 001	000A	3748		RWPLCHK	C 001	000A	3748		RWPLCHK	C 001	000A	3748
	RLOPEN	C 001	0016	3760		RWPLCUID	C 001	0016	3760		RWPLCUID	C 001	0016	3760
17	ROFFLINE	C 001	0027	3777	17	RWPLDACT	C 001	0027	3777	17	RWPLDACT	C 001	0027	3777
	ROPEN	C 001	0002	3740		RWPLDND	C 001	0002	3740		RWPLDND	C 001	0002	3740
	RPGHLT	C 001	0012	3756		RWPLDND	C 001	0012	3756		RWPLDND	C 001	0012	3756
18	RPRALGN	C 001	0014	3758	18	RWPLDND	C 001	0014	3758	18	RWPLDND	C 001	0014	3758
	RPRAZ	C 001	002B	3781		RWPLDND	C 001	002B	3781		RWPLDND	C 001	002B	3781
	RRODM	C 001	0041	3803		RWPLDND	C 001	0041	3803		RWPLDND	C 001	0041	3803
19	RRSVDOO	C 001	0000	3738	19	RWPLDND	C 001	0000	3738	19	RWPLDND	C 001	0000	3738
	RSALOC	C 001	000E	3752		RWPLDND	C 001	000E	3752		RWPLDND	C 001	000E	3752
	RSETX	C 001	0020	3770		RWPLDND	C 001	0020	3770		RWPLDND	C 001	0020	3770
20					20					20				

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VE HORIZONTAL TUB	*/	39470000
	3917	39480000
	3917	39490000
	3917	39500000
	3917	39510000
	3918	39520000
	3918	39530000
	3918	39540000
	3918	39550000
	3918	39560000
	3918	39570000
AREA ADDRESS	00145*/	39580000
	3919	39590000
B ADDRESS	*/	39600000
	3920	39610000
ZE DATA AREA	00145*/	39620000
	3921	39630000
	00145*/	39640000
	3922	39650000
D PROCEDURE	00145*/	39660000
	3923	39670000
* STARTUP	00145*/	39680000
	3924	39690000
TA ADDRESS	00145*/	39700000
	3925	39710000
	00145*/	39720000
	3926	39730000
R TUB	00145*/	39740000
	3927	39750000
ODE IN TUB	00145*/	39760000
	3928	39770000
	00145*/	39780000
	3929	39790000
D REQUEST?	00145*/	39800000
	3930	39810000
T JOB UPSI	00145*/	39820000
	3931	39830000
	00145*/	39840000
	3932	39850000
ESS OIC?	00145*/	39860000
	3933	39870000
T UPSI SWITCH	00145*/	39880000
	3934	39890000
	3934	39900000
	3935	39910000
	3935	39920000
CH TRANSPARENT *SWAT	*/	39930000
	3936	39940000
		39950000
		39960000

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01	*MISCR MAIN STORAGE IPL - START FILE REBUILD, *MSBLD	
02	ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT
03		3996 * GENCTITLE '*MISCR - COMMAND PROCESSOR WAIT ROUTINE'); 39970000
04		
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16		
17		
18		
19		
20		

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PAGE 43 V09/11/81 12/08/81 02:16	
FILE SIZE	21240000
MEGABYTE DISK	21250000
MEGABYTE DISK	21260000

PAGE 44 V09/11/81 12/08/81 02:16		
01	*MISCR *MISCR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION	
02	ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT
	0080 2177	SCMMSRJE EQU *'80' . BSCA 21780000
	0020 2178	SCMMSRJE EQU *'20' . SRJE 21790000
	0040 2179	SCMMSRJE EQU *'40' . MRJE 21800000

14	RWPLSLN1	C 001	0034	3796
	RWPLSLN2	C 001	0039	3795
	RWPLSLN3	C 001	0032	3788
	RWPLSLN4	C 001	0033	3789
15	RWPLATCH	C 001	0034	3790
	RWPLATTR	C 001	003D	3799
	RWPLAUT	C 001	000F	3753
16	RWPLCDIT	C 001	002D	3783
	RWPLCHK	C 001	000A	3748
	RWPLCUID	C 001	0016	3760
17	RWPLDACT	C 001	0027	3777
	RWPLDND	C 001	0002	3740
	RWPLDND	C 001	0012	3756
18	RWPLDND	C 001	0014	3758
	RWPLDND	C 001	002B	3781
	RWPLDND	C 001	0041	3803
19	RWPLDND	C 001	0000	3738
	RWPLDND	C 001	000E	3752
	RWPLDND	C 001	0020	3770
20				

01	*MISCR			
02	ERR LOC			
03				
04				
05				
06				
07				08FE
08				0902
09				0905
				0909
10				090C
				090F
11				0912
12				0915
13				0916
14				0919
15				091C
16				091D
17				0920
18				0924
19				0928
20				

01	*MISCR			
02	ERR LOC			



14	RWPLSLN1 C 001 0001 2064
	RWPLSLN2 C 001 0002 2063
	RWPLSLN3 C 001 0004 2062
	RWPLSLN4 C 001 0008 2061
15	RWPLATCH C 001 0002 2035
	RWPLATTR C 001 0004 2049
	RWPLAUT C 001 0004 2025 4641
16	RWPLCDIT C 001 0008 2044
	RWPLCHK C 001 0040 2027
	RWPLCUTO C 001 0006 2054 2056
17	RWPLDACT C 001 000A 2043
	RWPLDNVO C 001 000C 2045
	RWPLDSUC C 001 0006 2039
18	RWPLEXIS C 001 0004 2037
	RWPLGAT C 001 0020 2026
	RWPLINE C 001 0009 2042
19	RWPLLEN C 001 0008 2066 4325
	RWPLLINE C 001 0007 2056 2066
	RWPLNDIS C 001 0008 2041
20	

14	SCADCF63 C 001 0014 2517
	SCADCF66 C 001 00C4 2582
	SCADCF67 C 001 009F 2462
	SCADCF68 C 001 00A7 2492
15	SCADCF69 C 001 00A8 2502
	SCADCF52 C 001 0008 2102
	SCADCMTR C 001 0018 2192
16	SCADCON1 C 001 0093 2452
	SCADCPK0 C 001 0040 2252
	SCADCP51 C 001 0070 2322
17	SCADCP52 C 001 0071 2332
	SCADCP53 C 001 00C3 2572
	SCADCP54 C 001 00C0 2542
18	SCADCPM0 C 001 0082 2372
	SCADCPYR C 001 00FF 2632
	SCADCSPI C 001 008C 2382
19	SCADCSPI2 C 001 008D 2392
	SCADCSPI3 C 001 008E 2402
	SCADCTUT C 001 0060 2302
20	

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80	V09/11/81 12/08/81 02:16
39970000	

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	PAGE	81	V09/11/81	12/08/81	02:16
01				*MISCPR *MISCPR - COMMAND PROCESSOR WAIT ROUTINE					
02				3998 */*		39990000			
03				3999 */*****		40000000			
04				4000 */* WAIT FOR FILE REBUILD TO COMPLETE. AT THAT TIME OTHER TASKS CAN */		40010000			
05				4001 */* BE INITIALIZED FOR AUTO START:		40020000			
06				4002 */* 1. JOB QUEUE		40030000			
07				4003 */* 2. AUTO SPOOL WRITER		40040000			
08				4004 */*		40050000			
09				4005 */* NOTE: INDEX REGISTERS 1 & 2 WILL BE DESTROYED IF OP-END ROUTER */		40060000			
10				4006 */* (MCPRT) IS CALLED, (DESTROYED BY *SVAT).		40070000			
11				4007 */*****		40080000			
12				4008 */*		40090000			
13				4009 * DO UNTIL (NIPSWTCH(1:1)=ONKWAITEND); /* WAIT FOR REBUILD		40100000			
14	08FE	C2 01 0000	4010	MSCA0170 EQU *	3952	40110000			
15			4011	* REG(XR1)=0; /* SET FOR GENERAL WAIT		40120000			
16			4012	LA 0,XR1	3953	40130000			
17			4013	* GEN; /* WAIT FOR *MSBLD TO COMPLETE */		40140000			
18			4014	* WAIT Q-QXLOFF		40150000			
19			4015	SVC SWCWAIT,QXLOFF WAIT ON SPECIFIED EVENT		40160000			
20			4016	*** END OF EXPANSION **		40170000			
21			4017	* IF SCADCFG1(1:1)=OFF(SCAMJQFD) THEN /* POST FROM REBUILD DETATCH?*/		40180000			
22			4018	TBF SCADCFG1,SCAMJQFD	3959	40190000			
23			4019	* IF XR1->ECPARM=ONKCHTTC THEN /* NO, IS IT TTC?		40200000			
24			4020	JF MSCA0190	3960	40210000			
25			4021	TBN ECPARM(XR1),ECHTTC	3960	40220000			
26			4022	* DO; /* YES,		40230000			
27			4023	JF MSCA0210	3961	40240000			
28			4024	* GEN; /* CALL I/O ERROR PROCESSOR */		40250000			
29			4025	SVC SWCXFER,QREFRESH		40260000			
30			4026	DC AL1(CRPTC)		40270000			
31			4027	* END;		40280000			
32			4028	* ELSE		40290000			
33			4029	* DO; /* NO,		40300000			
34			4030	J MSCA0220	3968	40310000			
35			4031	MSCA0210 EQU *	3968	40320000			
36			4032	* GEN; /* CALL INPUT OP-END ROUTER */		40330000			
37			4033	SVC SWCXFER,QREFRESH		40340000			
38			4034	DC AL1(CRPTC)		40350000			
39			4035	* END;		40360000			
40			4036	MSCA0220 EQU *	3973	40370000			
41			4037	* ELSE		40380000			
42			4038	* NIPSWTCH(1:1)=ONKWAITEND); /* REBUILD DONE, SET FLAG */		40390000			
43			4039	J MSCA0230	3975	40400000			
44			4040	MSCA0190 EQU *	3975	40410000			
45			4041	SUB NIPSWTCH,WAITEND	3975	40420000			
46			4042	MSCA0230 EQU *	3975	40430000			
47			4043	* END;		40440000			
48			4044	TBN NIPSWTCH,WAITEND	3976	40450000			
49			4045	BF MSCA0170	3976	40460000			
50			4046	MSCA0160 EQU *	3976	40470000			

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44	V09/11/81 12/08/81 02:16
21780000	
21790000	
21800000	

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	PAGE	45	V09/11/81	12/08/81	02:16
01				*MISCPR *MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION					
02				002F 22231 SCADCONF EQU SCADBSID=2 2 SS OF CONFIGURATION RECORD		22230000			
				22232 *		22230000			
				0031 22233 SCASHST EQU SCADCONF=2 2 START SS OF HISTORY FILE		22230000			

ERR LOC	OBJECT CODE
---------	-------------

14	SCADCFG3 C 001 0014 2176 2186 4125 4250* 4270* 4278*	
	SCADCFG6 C 001 00C4 2586 2598	
	SCADCFG7 C 001 009F 2466 2486	
	SCADCFG8 C 001 00A7 2493 2503	
15	SCADCFG9 C 001 00A8 2503 2515 4314	
	SCADCFZ2 C 001 0008 2100 2102	
	SCADCMTR C 001 0018 2199 2215	
16	SCADCON1 C 001 0093 2451	
	SCADCPK0 C 001 0040 2256	
	SCADCP51 C 001 0070 2327 2337 4092	
17	SCADCP52 C 001 0071 2327 2347 3980	
	SCADCP53 C 001 00C3 2576 2586 4152	
	SCADCP54 C 001 08C0 2544 2554	
18	SCADCP40 C 001 0082 2379 2381 3958 4338	
	SCADCPYR C 001 00FF 2634 2636	
	SCADSP1 C 001 008C 2388 2398	
19	SCADSP2 C 001 008E 2398 2408	
	SCADSP3 C 001 0080 2408 2418	
20	SCADCTUT C 001 0060 2301 2303 2319 4261*	

14	SCADSOLP C 001 009E 2464 2466	
	SCADSOLS C 001 009D 2463 2464	
	SCADSECA C 001 0076 2348 2350	
	SCADSECC C 001 0080 2378 2379	
15	SCADSEUA C 001 0057 2267 2268	
	SCADSEUQ C 001 0059 2268 2269	
	SCADSEUW C 001 005A 2271 2275	
16	SCADSL0T C 001 008A 2384 2386	
	SCADSNAT C 001 0090 2418 2420	
	SCADSNAT C 001 0098 2461 2462	
17	SCADSNAT C 001 009C 2462 2463	
	SCADSP10 C 001 000A 2098 2100	
	SCADSSQS C 001 0099 2457 2459	
18	SCADSSCS C 001 0028 2228 2229	
	SCADSSIO C 001 002D 2229 2231	
	SCADSSJQ C 001 0044 2242 2244	
19	SCADSSYS C 001 0029 2227 2228	
	SCADSSPF C 001 0009 2624 4149	
20	SCADSSPR C 001 0047 2244 2252	

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39990000	
40000000	
40010000	
40020000	
40030000	
40040000	
40050000	
40060000	
40070000	
40080000	
40090000	
40100000	
40110000	
40120000	
40130000	
40140000	
40150000	
40160000	
40170000	
40180000	
40190000	
40200000	
40210000	
40220000	
40230000	
40240000	
40250000	
40260000	
40270000	
40280000	
40290000	
40300000	
40310000	
40320000	
40330000	
40340000	
40350000	
40360000	
40370000	
40380000	
40390000	
40400000	
40410000	
40420000	
40430000	
40440000	
40450000	
40460000	
40470000	

MISCPR MISCPR - COMMAND PROCESSOR WAIT ROUTINE		PAGE 82	V09/11/81 12/08/81 02:16
ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT		
02	4047 * IF SCAIPLWK+1(1:1)=0] /* STARTUP ABENDED? OR ... */	40480000	
	4048 * VARC(NURACEQH+QHDWSC)(1:1)=0 THEN /* WSIOCH POST PENDING? */	40490000	
03	092C 3D 00 0061 4049 CLI SCAIPLWK+1,0 3978	40500000	
	0930 F2 81 07 4050 JE MSC0240 3978	40510000	
04	0933 3D 00 0106 4051 CLI NURACEQH+QHDWSC,0 3978	40520000	
	4052 * DO; /* YES, HONOR CP POST */	40530000	
	0937 F2 81 04 4053 JE MSC0260 3979	40540000	
05	093A 4054 MSC0240 EQU * 3979	40550000	
	4055 * GEN; /* CALL I/O ERROR PROCESSOR */	40560000	
06	093A F4 01 04 4056 SVC SVCKFER,QREFRESH 40570000		
	093D 1F 093D 4057 DC AL1(RCPTC) 40580000		
	4058 * END; 40590000		
07	4059 * REG(XR2)=ADDR(NURSCA); /* XR2 PTR SCA */	40600000	
	093E 4060 MSC0260 EQU * 3985	40610000	
	093E C2 02 0000 4061 LA NURSCA,XR2 3985	40620000	
08	4062 * IF XR2->SCASYS1=OFF(SCADVER) THEN /* REFORMAT JOB QUEUE? */	40630000	
	0942 B9 20 58 4063 TBF SCASYS1(C,XR2),SCADVER 3986	40640000	
	4064 * XR2->SCADCFG1=OFF(SCAUIQFD); /* YES, RESET FLAG */	40650000	
	0945 F2 90 03 4065 JF MSC0280 3987	40660000	
09	0948 B8 02 12 4066 SBF SCADCFG1(C,XR2),SCAUIQFD 3987	40670000	
	4067 * XR2->SCASYS1=OFF(SCANRBLD+SCADVER); /*RESET FILE REBUILD CALLED */	40680000	
10	0948 4068 MSC0280 EQU * 3988	40690000	
	4069 SBF SCASYS1(C,XR2),SCANRBLD+SCADVER 3988	40700000	
	4070 */* */	40710000	
	4071 */***** */	40720000	
	4072 */* BUILD TTC ACE. */	40730000	
	4073 */***** */	40740000	
12	4074 */* */	40750000	
	4075 * REG(XR1)=ADDR(NURCPTCB+TCBTTC-1); /*XR1 PTR TCB TTC */	40760000	
	094E C2 01 0250 4076 LA NURCPTCB+TCBTTC-1,XR1 3994	40770000	
13	4077 * GEN; /* BUILD ACE */	40780000	
	4078 * PIQ DEV-QHDITC 40790000		
14	0952 F4 14 4C 4079 SVC SVCKPSVC,QHD-QDLOFF 40800000		
	0955 48 0955 4080 DC AL1(QHDITC+0) 40810000		
	4081 *** END OF EXPANSION ** 40820000		
15	4082 * IF XR2->SCADCFG2=OFF(SCANSPOL+SCANJOBQ) THEN /*CALL SPOOL OR JQ? */	40830000	
	0956 B9 30 13 4083 TBF SCADCFG2(C,XR2),SCANSPOL+SCANJOBQ 4001	40840000	
	4084 * DO; /* YES, CALL IPL ROUTINE */	40850000	
	0959 F2 10 05 4085 JF MSC0300 4002	40860000	
16	4086 * GEN; 40870000		
17	095C F4 01 10 4087 SVC SVCKIEWT,QREFRESH CALL SPOOL/JQ IPL ROUTINE 40880000		
	095F 0CE8 0960 4088 DC AL2(ENIPSP1PL) ADDRESS OF PNM LIST 40890000		
	4089 * END; 40900000		
18	4090 * IF XR2->SCADCP51=ON(SCANRBLD) THEN /* STOP COMMAND? */	40910000	
	0961 4091 MSC0300 EQU * 4008	40920000	
	0961 B8 40 70 4092 TBF SCADCP51(C,XR2),SCANRBLD 4008	40930000	
	4093 * DO; /* YES, CALL TTC ROUTINE */	40940000	
19	0964 F2 90 04 4094 JF MSC0320 4009	40950000	
20	4095 * GEN; 40960000		

MISCPR MISCPR - COMMAND PROCESSOR WAIT ROUTINE		PAGE 82	V09/11/81 12/08/81 02:16
ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT		
02	0957 F4 01 04 4097	40980000	
	096A 1F 096A 4098	40990000	
03	4100	41010000	
	4101	41020000	
04	4102	41030000	
	4103	41040000	
05	096B F4 01 10 4105	41060000	
	096E 0CF1 096E 4107	41080000	
06	4108	41090000	
	0970 35 01 0215 4110	41110000	
07	0974 36 01 08A8 4111	41120000	
	0978 F2 81 0C 4113	41140000	
08	4114	41150000	
	0978 0C 01 0215 08A8 4116	41170000	
09	4117	41180000	
	0981 F4 00 07 4119	41200000	
10	0984 0070 0985 4121	41220000	
	0986 C1 0986 4123	41240000	
11	4124	41250000	
	0987 B8 01 14 4126	41270000	
12	4127	41280000	
	098A F2 90 C7 4129	41300000	
13	4130	41310000	
	098D B9 0F 91 4132	41330000	
14	4133	41340000	
	0990 F2 10 BE 4135	41360000	
15	4136	41370000	
	0993 F4 00 06 4138	41390000	
16	4139	41400000	
	0996 0070 0997 4141	41420000	
17	4142	41430000	
	0998 01 0998 4144	41450000	
18	4145	41460000	
19	4146	41470000	
20	4147	41480000	

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22230000	
22230000	
22230000	

MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 46	V09/11/81 12/08/81 02:16
ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT		
02	080C 2226 SCASYS2 EQU SCASYS1+1 1 SYSTEM CONFIGURATION BYTE 6 22260000		
	080D 2226 SCANMATES EQU X'80' X'80' - COMM TASK BEING ASSIGNED 22270000		

MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 46	V09/11/81 12/08/81 02:16
ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT		
02	080C 2226 SCASYS2 EQU SCASYS1+1 1 SYSTEM CONFIGURATION BYTE 6 22260000		
	080D 2226 SCANMATES EQU X'80' X'80' - COMM TASK BEING ASSIGNED 22270000		

14	SCADSDLP C 001 009E 2464 2466	14	SCALOGSS C 001 0027 2225 2227
	SCADSECA C 001 0076 2348 2350		SCAMACDP C 001 0004 2394
15	SCADSECC C 001 0080 2378 2379		SCAMACDV C 001 0010 2392
	SCADSEUD C 001 0057 2267 2268	15	SCAMACMG C 001 0008 2393
	SCADSEUQ C 001 0059 2268 2269 2271		SCAMACSP C 001 0002 2395
16	SCADSLG C 001 005A 2271 2275		SCAMACU1 C 001 0008 2437 412
	SCADSLT C 001 008A 2384 2386	16	SCAMACU2 C 001 0004 2438 412
	SCADSNAT C 001 0090 2418 2420		SCAMACU3 C 001 0002 2439 412
	SCADSHA1 C 001 009B 2461 2462		SCAMACU4 C 001 0001 2440 412
17	SCADSHA7 C 001 009C 2462 2463		SCAMALL C 001 0040 2329 409
	SCADSP1A C 001 000A 2098 2100	17	SCAMARNR C 001 0040 2390
	SCADSSQS C 001 0099 2457 2459		SCAMATBS C 001 0080 2286
18	SCADSSCS C 001 002B 2228 2229		SCAMAUTO C 001 0080 2149
	SCADSSIO C 001 002D 2229 2231	18	SCAMAXRG C 001 000E 2108 2110
	SCADSSJQ C 001 0044 2242 2244		SCAMBADG C 001 0040 2519
19	SCADSSMS C 001 0029 2227 2228		SCAMBSCA C 001 0080 2177
	SCADSSPF C 001 0009 2624 4149 4284	19	SCAMBSV C 001 0015 2186 2190
	SCADSSPR C 001 0047 2244 2252		SCAMCCHK C 001 0040 2287
20		20	SCAMCFER C 001 0020 2411

09/11/81 12/08/81 02:16		MISCPR MISCPR - COMMAND PROCESSOR WAIT ROUTINE				PAGE 83	09/11/81 12/08/81 02:16		MISCPR MISCPR - COMMAND PROCES	
ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT			ERR LOC	OBJECT CODE	ADDR	
02	0967 F4 01 04	4096	SVC	SVCXFER,QREFRESH	CALL #CPTC	40970000	02	0999 5F 6F 6F 6F		
	096A 1F	096A 4097	DC	AL1(RCPTC)	RIB	40980000		099D B8 01 D9		
03		4098 * END;				40990000	03			
		4099 */*				41000000		09A0 F2 90 0C		
		4100 */*****				41010000				
04		4101 */* PROCESS FOR HISTORY FILE WRAP FEATURE.				41020000	04	09A3 B8 02 C3		
		4102 */*****				41030000				
		4103 */*				41040000				
05		4104 * GEN;			/* CALL HISTORY INIT TRANSIENT */	41050000	05	09A6 F2 90 06		
		0968 4105 MSCA0320 EQU *				41060000		09A9 0C 07 0880 0BA3		
		096B F4 01 10	4106	SVC	SVCXIENT,QREFRESH	41070000				
		096E 0CF1	096F 4107	DC	AL2(NIPSSHF1)	41080000	06			
06		4108 * REG(XR1)=VAR(NUMCPTCB+TCBJCB)<1:2>; /* GET INITIALIZATION JCB */				41090000				
		0970 35 01 0215	4109	L	NUMCPTCB+TCBJCB,XR1	41100000				
		4110 * IF ^ZERO,REG(XR1)=REG(XR1)+X00 THEN /* VALID ADDRESS? */				41110000	07			
		0974 36 01 0BA8	4111	A	X00,XR1	41120000				
		4112 * DO;			/* YES, FREE JCB */	41130000	07			
		0978 F2 81 0C	4113	JZ	MSCA0340	41140000	08			
08		4114 * NUMCPTCB+TCBJCB<1:2>=X00; /* RESET POINTER */				41150000		09AF 4	09AF 4	
		0978 0C 01 0215 0BA8	4115	PWC	NUMCPTCB+TCBJCB<002>,X00	41160000		09AF D2 02 00		
		4116 * GEN;			/* FREE JCB */	41170000	09			
		4117 * FREE LEN-JCBLNTH				41180000		09B2 8C 11 11 0889		
09		0981 F4 00 07	4118	SVC	SVCFREE,QD	41190000				
		0984 0070	0985 4119	DC	AL2(JCBLNTH) LENGTH OF AREA TO FREE	41200000	10	09B7 AC 07 28 08		
		0986 C1	0986 4120	DC	AL1<0+1>	41210000				
		4121 *** END OF EXPANSION **			FREE FUNCTION BYTE	41220000	11	09B8 F4 01 04		
		4122 * END;				41230000				
		4123 * IF XR2->SCADCFE3=ON(SCANOTTO) THEN /* NEED TO START AUTOCALL TASK? */				41240000	11	09BE 01	09BE 41	
12		0987 4124 MSCA0340 EQU *				41250000				
		0987 B8 01 14	4125	TBN	SCADCFE3,XR2,SCANOTTO	41260000	12	09BF 80 00 10		
		4126 * IF XR2->SCADLIMP^=OFF(SCANVCU1+SCANVCU2+SCANVCU3+SCANVCU4) THEN				41270000				
		4127 *NIPACU01:				41280000	13	09C2 F2 81 85		
		098A F2 90 C7	4128	JF	MSCA0360	41290000				
14		098D B9 0F 91	4129	TBF	SCADLIMP,XR2,SCANVCU1+SCANVCU2+SCANVCU3+SCANVCU4	41300000	14		09C5 41	
		4130 * DO;			/* YES, START IT */	41310000			09C5 41	
		0990 F2 10 BE	4131	JT	MSCA0380	41320000	15		09C5 41	
15		0993 4132 NIPACU01 EQU *				41330000			09C5 41	
		4133 */*				41340000			09C5 41	
		4134 */*****				41350000	16	09C5 34 02 086F		
		4135 */* GET SPACE FOR A JOB CONTROL BLOCK. IT WILL BE USED IN ATTACH OF */				41360000			09C5 41	
		4136 */* AUTOCALL TASK AND AS A WORK AREA FOR AUTOCALL TASK FEND.				41370000			09C5 41	
		4137 */*****				41380000	17	09C9 2C 08 086A 08		
		4138 */*				41390000			09C9 41	
		4139 * GEN;			/* GET SPACE FOR A JOB */	41400000	17		09CE 41	
18		0993 F4 00 06	4140 *	ASSIGN LEN-JCBLNTH		41410000		09CE 8F 00 09 0BA4		
		0996 0070	0997 4141	SVC	SVCASSIGN,QD	41420000	18	09D3 F2 04 0A		
		4142 * DC			AL2(JCBLNTH) ASSIGN LENGTH	41430000				
		0998 01	0998 4143	DC	AL1<1+0>	41440000	19		09D6 41	
		4144 *** END OF EXPANSION **			ATTIBUTES	41450000			09D6 41	
		4145 * XR1->JCBLNTH<1:1>=XR1->VAR(JCBLNTH-1)<1:1>				41460000	19	09D6 0E 0C 086C 0BA9		
		4146 *			-XR1->VAR(JCBLNTH-1); /* RESET JOB */	41470000	20		41	

09/11/81 12/08/81 02:16		MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION				PAGE 47	09/11/81 12/08/81 02:16		MISCPR MISCPR - MAIN STORAGE	
ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT			ERR LOC	OBJECT CODE	ADDR	
02	22860000	0040 2289	SCANNOUT EQU	X'40'	.. CONSOLE READY TO OUTPUT MESSAGE	22400000	02		000E	
	22870000	0020 2290	SCANNHELP EQU	X'20'	.. HELP FEATURE ACTIVE	22410000			000A	

14	SCALOGSS C 001 0027 2225 2227	SCAMHLD C 001 0020 2473
	SCAMACDP C 001 0004 2394	SCAMHVS2 C 001 000F 2482
	SCAMACDV C 001 0010 2392	SCAMHWP C 001 0080 2467
	SCAMACMG C 001 0008 2393	SCAMICRI C 001 0008 2403
15	SCAMACSP C 001 0002 2395	SCAMICR2 C 001 0002 2405
	SCAMACU1 C 001 0008 2437 4129	SCAMICS C 001 0004 2182
	SCAMACU2 C 001 0004 2438 4129	SCAMITEX C 001 0008 2593
16	SCAMACU3 C 001 0002 2439 4129	SCAMITOC C 001 0010 2580
	SCAMACU4 C 001 0001 2440 4129	SCAMITPL C 001 0010 2279
	SCAMALL C 001 0040 2329 4092	SCAMITPLA C 001 0080 2306
17	SCAMARR C 001 0040 2390	SCAMITPLC C 001 0040 2277
	SCAMATBS C 001 0080 2286	SCAMITPUP C 001 0010 2289
	SCAMAUTO C 001 0080 2149	SCAMJOBQ C 001 0020 2166
18	SCAMAXRG C 001 000E 2108 2110	SCAMJQFM C 001 0002 2158
	SCAMBADG C 001 0040 2519	SCAMJQHD C 001 0004 2156
	SCAMBSCA C 001 0080 2177	SCAMJQS C 001 0004 2333
19	SCAMBSV C 001 0015 2186 2196 4309*	SCAMKEYS C 001 0080 2338
	SCAMCHK C 001 0040 2287	SCAMKKF C 001 0080 2625
20	SCAMCFER C 001 0020 2411	SCAMKMSG C 001 0002 2173

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03	V09/11/81 12/08/81 02:16
	40970000
	40980000
	40990000
*/	41000000
***	41010000
*/	41020000
***	41030000
*/	41040000
T */	41050000
4020	41060000
	41070000
	41080000
*/	41090000
4024	41100000
*/	41110000
4025	41120000
*/	41130000
4026	41140000
	41150000
*/	41160000
4027	41170000
*/	41180000
	41190000
	41200000
	41210000
	41220000
	41230000
7*/	41240000
4036	41250000
4036	41260000
	41270000
	41280000
4038	41290000
	41300000
*/	41310000
4039	41320000
	41330000
*/	41340000
***	41350000
*/	41360000
*/	41370000
***	41380000
*/	41390000
*/	41400000
	41410000
	41420000
	41430000
	41440000
	41450000
	41460000
8*/	41470000

*MSCPR *MSCPR - COMMAND PROCESSOR WAIT ROUTINE		PAGE 84 V09/11/81 12/08/81 02:16	
01	ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT	
02	40970000	0999 5F 6F 6F 6F 4147 SLC JCBLLNTH-1(112,XR1),JCBLLNTH-1C,XR1) 4054 41480000	
	40980000	4148 * IF XR2->SCADSSPF=DNKSCAMK21) THEN /* X.21 FEATURE? 4054 41490000	
	40990000	099D B8 01 D9 4149 TBN SCADSSPF(XR2),SCAMK21 4055 41500000	
03	41000000	4150 * IF XR2->SCADSP3=DNKSCAMK21S) THEN /* AND SWITCHED? 4055 41510000	
	41010000	09A0 F2 90 0C 4151 JF MSCB0400 4056 41520000	
	41020000		
	41030000	09A3 B8 02 C3 4152 TBN SCADSP3(XR2),SCAMK21S 4056 41530000	
	41040000	4153 * NIPFNDAC+\$FNDONM(1:8)=NIP*GC21; /* YES, CHANGE TASK NAME 4057 41540000	
	41050000	09A6 F2 90 06 4154 JF MSCB0420 4057 41550000	
4020	41060000		
	41070000	09A9 0C 07 0880 08A3 4155 FWC NIPFNDAC+\$FNDONM(008),NIP*GC21 4057 41560000	
	41080000	4156 */* 41570000	
*/	41090000	4157 */***** 41580000	
4024	41100000	4158 */* FIND AUTOCALL TASK. IF TASK MODULE IS NOT FOUND, TERMINATE THE 41590000	
*/	41110000	4159 */* AUTOCALL FUNCTION. 41600000	
4025	41120000	4160 */***** 41610000	
*/	41130000	4161 */* 41620000	
4026	41140000	4162 * REG(XR2)=REG(XR1); /* XR2-> JCB AREA - FIND PARM 41630000	
	41150000	09AF 4163 MSCB0420 EQU * 4064 41640000	
*/	41160000	09AF 4164 MSCB0400 EQU * 4064 41650000	
4027	41170000	09AF D2 02 00 4165 LA 0C,XR1),XR2 4064 41660000	
*/	41180000	4166 * XR2->\$FNDLEN-1(1:18)=WRC(NIPFNDAC+\$FNDLEN-1)(1:18); /* PARMLIST 41670000	
	41190000	09B2 8C 11 11 0889 4167 FWC \$FNDLEN-1(018,XR2),NIPFNDAC+\$FNDLEN-1 4065 41680000	
	41200000	4168 * XR2->JCBPROG(1:8)=XR2->\$FNDONM; /* SAVE NAME IN JCB 41690000	
	41210000	09B7 AC 07 28 08 4169 FWC JCBPROG(008,XR2),\$FNDONM(XR2) 4066 41700000	
	41220000	4170 * GENKSVK SVCKFER,QREFRESH; /* FIND AUTOCALL TASK 41710000	
	41230000	09B8 F4 01 04 4171 SVC SVCKFER,QREFRESH 4067 41720000	
7*/	41240000	4172 * GENKDC AL1(RFIND)); /* 41730000	
4036	41250000	09BE 01 09BE 4173 DC AL1(RFIND) 4068 41740000	
4036	41260000	4174 * IF XR2->\$FNDTOT=0 THEN /* AUTOCALL TASK FOUND? 41750000	
	41270000	09BF 8D 00 10 4175 CLI \$FNDTOTC,XR2),0 4069 41760000	
	41280000	4176 *NIPACU02: 41770000	
4038	41290000	4177 * DO; /* YES, CONTINUE 41780000	
	41300000	09C2 F2 81 85 4178 JE MSCB0440 4071 41790000	
	41310000		
4039	41320000	09C5 4179 NIPACU02 EQU * 4071 41800000	
	41330000	4180 */* 41810000	
*/	41340000	4181 */***** 41820000	
***	41350000	4182 */* INET ATTACH PARAMETER LIST FROM FIND PARAMETER LIST. 41830000	
*/	41360000	4183 */***** 41840000	
*/	41370000	4184 */* 41850000	
***	41380000	4185 * NIPACTSK=INTJCB(1:2)=REG(XR2); /* JCB ADDRESS 41860000	
*/	41390000	09C5 34 02 08GF 4186 ST NIPACTSK=INTJCB,XR2 4077 41870000	
*/	41400000	4187 * NIPACTSK=INTLONK(1:12)=XR2->\$FNDONM; /* LONGER PARAM LIST 41880000	
***	41410000	09C9 2C 08 08GA 08 4188 FWC NIPACTSK=INTLONK(012),\$FNDONM(XR2) 4078 41890000	
*/	41420000	4189 * DO WHILE (PLUS,XR2->\$FNDONM=XR2->\$FNDONM-KD); /* REGION SIZE 41900000	
*/	41430000	09CE 3F 00 09 08AH 4191 SLC \$FNDONM(XR2),KD 4079 41920000	
	41440000	09B3 F2 04 0A 4192 JNP MSCB0470 4079 41930000	
	41450000		
	41460000	09B6 4193 MSCB0450 EQU * 4079 41940000	
8*/	41470000	4194 * NIPACTSK=INTMSSL(1:1)=WRC(NIPACTSK=INTMSSL(2)(1:1)+K1; /* 41950000	
		09B6 0E 0C 086C 08AH 4195 ALLC NIPACTSK=INTMSSL(2)(001),K1 4080 41960000	
		4196 * END; 41970000	

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47	V09/11/81 12/08/81 02:16
	23480000
	23490000

*MSCPR *MSCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 48 V09/11/81 12/08/81 02:16	
01	ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT	
02	23480000	080B 2398 SCANNING EQU K'08' .. DISPLAY ADDR COMPARE DUMP MESSAGE 23490000	
	23490000	080C 2399 SCANNING EQU K'04' .. ADDRESS COMPARE DUMP HAS TAKEN 23500000	

01	ERR LOC OBJECT CODE	
02		

SCAMHMT C 001 0020 2473	3864 4307	SCAMPWF C 001 0040 2165	
14 SCAMHLP C 001 0020 2288		SCAMPBLD C 001 0008 2280	3862 4066
SCAMHVSZ C 001 000F 2482		SCAMPFCG C 001 0002 2511	
SCAMHWP C 001 0080 2467		SCAMPILP C 001 0020 2579	
SCAMICR1 C 001 0008 2403		SCAMPSEC C 001 0080 2518	
15 SCAMICR2 C 001 0002 2405		SCAMPNAV C 001 0040 2506	4314
SCAMICS C 001 0004 2182		SCAMPNCF C 001 0001 2512	4314
SCAMITXC C 001 0008 2593		SCAMPNFT C 001 0010 2508	
16 SCAMIOCL C 001 0010 2580		SCAMPNAV C 001 0020 2507	
SCAMIPL C 001 0010 2279		SCAMPNRS C 001 0008 2181	
SCAMIPLA C 001 0080 2306		SCAMPNSA C 001 0080 2504	4314
17 SCAMIPLC C 001 0040 2277	4352	SCAMPNWP C 001 0040 2495	
SCAMIPUP C 001 0010 2289	3864 4362 4366 4408 4443	SCAMPNSV C 001 0008 2509	
SCAMJOBQ C 001 0020 2166	4083	SCAMPN2K C 001 0000 2106	2108
18 SCAMJQFM C 001 0002 2158	4018 4066 4438	SCAMNSACT C 001 0010 2152	
SCAMJQHD C 001 0004 2156		SCAMNSSEC C 001 0002 2334	
SCAMJQS C 001 0004 2333		SCAMNSFLG C 001 0008 2191	
19 SCAMKEYS C 001 0080 2338		SCAMNSIZE C 001 0006 2087	2095
SCAMKKF C 001 0080 2625	4284	SCAMNSJE C 001 0020 2330	
SCAMKMSG C 001 0002 2173		SCAMNSWF C 001 0020 2189	
20		20	

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ERR LOC OBJECT CODE	ADDR STMT	SOURCE STATEMENT	PAGE 85	V09/11/81	12/08/81	02:16
01		ERR LOC OBJECT CODE ADDR STMT SOURCE STATEMENT				
02	41480000	09DC CO 87 09CE 4197 B MSC00460 4081 41980000				
03	41500000	09E0 4198 MSC00470 EQU *	4081	41990000		
04	41510000	4199 */*	*/	42000000		
05	41520000	4200 */*****	*/	42010000		
06	41530000	4201 */* INITIALIZE JCB.	*/	42020000		
07	41540000	4202 */*****	*/	42030000		
08	41550000	4203 */*	*/	42040000		
09	41560000	4204 * XR2->SFNDLEN-1(1:18)=XR2->VAR(SFNDLEN-1)(1:18)	*/	42050000		
10	41570000	4205 * -XR2->VAR(SFNDLEN-1); /* RESET FIND	00478*/	42060000		
11	41580000	4206 SLC SFNDLEN-1(018,XR2),SFNDLEN-1(,XR2)	4088	42070000		
12	41590000	4207 * XR2->JCBDINIT=JCBPRLNG; /* INITIALIZE JCB DEFAULTS	*/	42080000		
13	41600000	4208 FVI JCBDINIT(,XR2),JCBPRLNG	4089	42090000		
14	41610000	4209 * XR2->JCBSCH2=JCBDNONI; /*	*/	42100000		
15	41620000	4210 FVI JCBSCH2(,XR2),JCBDNONI	4090	42110000		
16	41630000	4211 * XR2->JCBSCH3=JCBDNEOP; /*	*/	42120000		
17	41640000	4212 FVI JCBSCH3(,XR2),JCBDNEOP	4091	42130000		
18	41650000	4213 * XR2->JCBDJOBK(1:3)=NIPPLINI; /*	*/	42140000		
19	41660000	4214 FVC JCBDJOBK(002,XR2),NIPPLINI	4092	42150000		
20	41670000	4215 * XR2->JCBDJOBK(1:2)=XR2->JCBDJOBK; /*	*/	42160000		
21	41680000	4216 FVC JCBDJOBK(002,XR2),JCBDJOBK(,XR2)	4093	42170000		
22	41690000	4217 * XR2->JCBDJOBK(1:2)=VAR(NIPACTSK+BATPSSIZ)(1:1); /*	*/	42180000		
23	41700000	4218 FVC JCBDJOBK(002,XR2),NIPACTSK+BATPSSIZ	4094	42190000		
24	41710000	4219 * XR2->JCBDJOBK(1:2)=JCBDJOBK; /* STORE REGION SIZE	*/	42200000		
25	41720000	4220 FVC JCBDJOBK(,XR2),JCBDJOBK(,XR2)	4095	42210000		
26	41730000	4221 * REG(XR1)=SCBDJOBK(1:2); /* STORE JOB ID NUMBER IN JCB	*/	42220000		
27	41740000	4222 L SCBDJOBK,XR1	4096	42230000		
28	41750000	4223 * XR2->JCBDJOBK(1:2)=XR1->TUBMSID; /*	*/	42240000		
29	41760000	4224 FVC JCBDJOBK(002,XR2),TUBMSID(,XR1)	4097	42250000		
30	41770000	4225 */*	*/	42260000		
31	41780000	4226 */*****	*/	42270000		
32	41790000	4227 */* ATTACH A TCB FOR THE AUTOCALL TASK.	*/	42280000		
33	41800000	4228 */*****	*/	42290000		
34	41810000	4229 */*	*/	42300000		
35	41820000	4230 * GEN; /* ASSIGN ATTACH PARM LIST	*/	42310000		
36	41830000	4231 * ASSON LEN=BATLENG,QUEUE=YES		42320000		
37	41840000	4232 SVC SVCASSON,0 ASSIGN REQUEST		42330000		
38	41850000	4233 DC AL2(BATLENG+4) LENGTH + 4 FOR QUEUING		42340000		
39	41860000	4234 DC AL1(1-X*80') ATTRIBUTES		42350000		
40	41870000	4235 *** END OF EXPANSION ***		42360000		
41	41880000	4236 FVC BATLENG(1:25,XR1),NIPACTSK+BATLENG-1 /* MOVE PARM LIST	*/	42370000		
42	41890000	4237 FVC SFNDLEN(2,XR1),SFNDLEN(,XR1) /* SET LOAD ADDR	00478*/	42380000		
43	41900000	4238 CLC JCBDJOBK(,XR2),NIPACTSK /* X,ZI TASK?	00478*/	42390000		
44	41910000	4239 JNE NIPACTSK4 /* JUMP IF NOT	00478*/	42400000		
45	41920000	4240 SMI BATFLAG(,XR1),BATPRLNG /* X,ZI, SET LOGICAL=REAL	00478*/	42410000		
46	41930000	4241 NIPACTSK4 SVC SMCXCHG,QUEFRESH /* ATTACH AUTOCALL/X,ZI	00478*/	42420000		
47	41940000	4242 DC AL2(ONPSSACT)	*/	42430000		
48	41950000	4243 * NIPACTSK=REG(CR1); /* STORE RETURN CODE	*/	42440000		
49	41960000	4244 ST NIPACTSK,XR1	4117	42450000		
50	41970000	4245 * IF NIPACTSK(1:1) = 0 THEN /* DID ATTACH FAIL?	*/	42460000		
51	41980000	4246 CLI NIPACTSK-001,0	4118	42470000		
52	41990000	4247 * END; /* YES, ERROR CONDITION REPEATS	*/	42480000		
53	419970000	4248 JNE MSC00490	4119	42490000		

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ERR LOC OBJECT CODE	ADDR STMT	SOURCE STATEMENT	PAGE 49	V09/11/81	12/08/81	02:16
01		ERR LOC OBJECT CODE ADDR STMT SOURCE STATEMENT				
02	27940000	0095 2447 SCARDRECJ EQU SCARDLIM=4 4 END-OF-JOB SVC		24480000		2501
03	27950000	0095 2448 SCARDRECJ EQU SCARDLIM=4 4 END-OF-JOB SVC		24490000		2502

14	SCAMPUSF C 001 0040 2165		
	SCAMPBLD C 001 0008 2280	3862 4069 4412	
	SCAMPFCG C 001 0002 2511		
	SCAMPRLP C 001 0020 2579		
15	SCAMPSEC C 001 0080 2518		
	SCAMPRAW C 001 0040 2506	4314	
	SCAMPWCF C 001 0001 2512	4314	
16	SCAMPWFT C 001 0010 2508		
	SCAMPRAW C 001 0020 2507		
	SCAMPWS C 001 0008 2181		
	SCAMPWSA C 001 0080 2504	4314	
17	SCAMPWSP C 001 0040 2495		
	SCAMPWSV C 001 0008 2509		
	SCAMPWZK C 001 0000 2106	2108	
18	SCAMSACT C 001 0010 2152		
	SCAMSECC C 001 0002 2334		
	SCAMISFLG C 001 0008 2191		
19	SCAMISIZE C 001 0006 2087	2095	
	SCAMISJE C 001 0020 2330		
20	SCAMISNF C 001 0020 2189		

14	SCAM1YD C 001 0001 2293		
	SCAM128 C 001 0001 2315		
	SCAM1256 C 001 0002 2314		
	SCAM1512 C 001 0004 2313		
15	SCAM165M C 001 0041 2136		
	SCAM1FM C 001 0010 2311		
	SCAM10MG C 001 0000 2128		
16	SCAM1024 C 001 0008 2312		
	SCAM1255 C 001 0080 2389		
	SCAM128K C 001 0040 2089		
	SCAM13MG C 001 0001 2127		
17	SCAM130M C 001 00C1 2137		
	SCAM195M C 001 00E1 2138		
	SCAM2FM C 001 0020 2310		
18	SCAM2MFM C 001 0040 2309		
	SCAM256K C 001 0080 2088		
	SCAM260M C 001 0001 2139		
19	SCAM27MG C 001 0061 2126		
	SCAM62PC C 001 0040 2134		
20	SCAM65MG C 001 0001 2135		

01	ERR LOC OBJECT CODE	ADDR STMT	SOURCE STATEMENT
02	41980000	0A31 3B 01 0014	4249 * SCADCFG3(1:1)=OFF(SCAMDTTO); /* RESET AUTOCALL SUPPORT */
			4250 SBF SCADCFG3,SCAMDTTO 4120
03	41990000		4251 * END;
	42000000		4252 * ELSE
	42010000		4253 * DO; /* OKAY INIT FOR AUTOCALL TASK */
04	42020000	0A35 F2 87 0F	4254 J MSC80500 4123
	42030000		
	42040000	0A38 4255 MSC80490 EQU *	4123
	42050000		
05	42060000	0A38 0F 00 02F2 08A9	4256 * NUMPLBF1+F1ADLBUS(1:1)=VAR(NUMPLBF1+F1ADLBUS(1:1))-X1; /*USE CNTR*/
	42070000		4257 SLC NUMPLBF1+F1ADLBUS(001),X1 4124
	42080000		4258 * XR1->TCBSTAT6=ON(TCBOEDO); /* DEDICATED OVERRIDE FLAG */
	42090000	0A3E 7A 01 77	4259 SBN TCBSTAT6(XR1),TCBOEDO 4125
06	42100000		4260 * SCADCTUT(1:1)=SCADCTUT(1:1)-X1; /* DECREMENT USER TASK COUNT */
	42110000	0A41 0F 00 0060 08A9	4261 SLC SCADCTUT(001),X1 4126
	42120000		4262 * END;
07	42130000	0A47 4263 MSC80500 EQU *	4127
	42140000		4264 * END NIPACUD2;
	42150000		4265 * ELSE
	42160000	0A47 F2 87 04	4266 * DO; /* AUTOCALL TASK NOT FLUID */
	42170000		4267 J MSC80510 4130
09	42180000		0A4A 4268 MSC80440 EQU *
	42190000		4269 * SCADCFG3(1:1)=OFF(SCAMDTTO); /* RESET AUTOCALL SUPPORT */
10	42200000	0A4A 3B 01 0014	4270 SBF SCADCFG3,SCAMDTTO 4131
	42210000		4271 * END;
	42220000	0A4E 4272 MSC80510 EQU *	4132
	42230000		4273 * END NIPACUD1;
	42240000		4274 * ELSE
	42250000	0A4E F2 87 03	4275 * XR2->SCADCFG3=OFF(SCAMDTTO); /* RESET AUTOCALL SUPPORT */
	42260000		4276 J MSC80520 4135
12	42270000		0A51 4277 MSC80380 EQU *
	42280000		4278 SBF SCADCFG3,XR2,SCAMDTTO 4135
13	42290000	0A54 4279 MSC80520 EQU *	4135
	42300000		4280 *NIPSSPF:
	42310000		4281 * IF SC80SSPF(1:1)=ON(SC80SSPF) THEN /* NEED TO START *CIVIL TASK? */
	42320000		4282 *NIPSSPF EQU *
	42330000	0A54 4282 NIPSSPF EQU *	4137
	42340000	0A54 4283 MSC80360 EQU *	4137
	42350000		4284 TBN SC80SSPF,SC80SSPF 4137
15	42360000	0A54 3B 80 0009	4285 * DO; /* YES, START IT */
	42370000	0A58 F2 90 05	4286 JF MSC80540 4138
16	42380000		4287 /*
	42390000		4288 /*
	42400000		4289 /* CALL *MSK TO START *CIVIL TASK.
	42410000		4290 /*
	42420000		4291 /*
	42430000		4292 * GENL; /* CALL START FRAGMENT */
18	42440000	0A5B F4 01 3D	4293 SMC SMCXFRNT,QUEFRSH 42940000
	42450000	0A5E 0CFA	0A5F 4294 BC AL2(CMSKXFRSH) 42950000
	42460000		4295 * END;
	42470000		4296 * GENCLTITLE *MSCPR - PROCESS FOR REMOTE WORK STATIONS *;
19	42480000	0A60 4297 MSC80540 EQU *	4149
20	42490000		

01	ERR LOC OBJECT CODE	ADDR STMT	SOURCE STATEMENT	42500000
02				42510000
03				42520000
				42530000
				42540000
				42550000
04		0A60 C2 01 0000		42560000
				42570000
05		0A64 7B 20 5C		42580000
				42590000
		0A67 7B 01 15		42600000
				42610000
06		0A6A 7D 00 91		42620000
				42630000
07		0A60 F2 81 26		42640000
				42650000
		0A70 78 C1 A8		42660000
08				42670000
		0A73 F2 90 20		42680000
09				42690000
				42700000
10				42710000
				42720000
				42730000
11		0A76 4C 07 68 0888		42740000
				42750000
		0A7B C2 02 0064		42760000
12				42770000
		0A7F F4 01 10		42780000
		0A82 0CCD	0A83	42790000
13				42800000
				42810000
				42820000
14				42830000
				42840000
		0A84 2C 00 08A8 01		42850000
15				42860000
				42870000
16		0A89 75 02 82		42880000
				42890000
		0A8C 8C 07 2A 0A83		42900000
				42910000
17		0A91 F4 01 10		42920000
		0A94 0CC4	0A95	42930000
				42940000
18				42950000
				42960000
19		0A96 5F 07 6B 6B		42970000
				42980000
20		0A9A 4C 05 66 0A95		42990000

01	ERR LOC OBJECT CODE	ADDR STMT	SOURCE STATEMENT
02	24480000	Z501 *	RESERVED

01	ERR LOC OBJECT CODE	ADDR STMT	SOURCE STATEMENT	25020000
02				

01	ERR LOC OBJECT CODE	ADDR STMT	SOURCE STATEMENT
02			

13	SCAM1YD C 001 0001 2293	STOP C 001 0007 0490
14	SCAM128 C 001 0001 2315	STOPDNE C 001 0013 0462
	SCAM0256 C 001 0002 2314	STOPJOB C 001 0028 0483
	SCAM0512 C 001 0004 2313	STRTPRT C 001 0011 0460
	SCAM065M C 001 0041 2136	SVCASGN C 001 000A 2657
15	SCAM1FM C 001 0010 2311	SVCASSGN C 001 0006 2653 393
	SCAM10MG C 001 0000 2128	SWCCOMM C 001 0044 2703
	SCAM1024 C 001 0008 2312	SWCCXNT C 001 0050 2707
16	SCAM1255 C 001 0080 2389	SWCDSPECH C 001 0027 2687
	SCAM128K C 001 0040 2089	SWCDUMP C 001 0022 2682
	SCAM13MG C 001 0001 2127	SWCEXIT C 001 0011 2664 440
17	SCAM130M C 001 00C1 2137	SWCFD C 001 0040 2699
	SCAM195M C 001 00E1 2138	SWCFREE C 001 0007 2654 411
	SCAM2FM C 001 0020 2310	SWCFREEP C 001 0013 2666
18	SCAM2MFM C 001 0040 2309	SWCGETP C 001 0012 2665
	SCAM256K C 001 0080 2088	SWCGPOST C 001 0001 2648 3900
	SCAM260M C 001 00D1 2139	SWCGWAIT C 001 0000 2647
19	SCAM27MG C 001 0061 2126	SWCTOXT C 001 0045 2704
	SCAM62PC C 001 0040 2134	SWCTSEC C 001 0008 2655
	SCAM65MG C 001 0001 2135	SWC10 C 001 0041 2700
20		SWCK8TR C 001 005C 2711

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09/11/81 12/08/81 02:16		#M5CPR #M5CPR - PROCESS FOR REMOTE WORK STATIONS	PAGE 87 09/11/81 12/08/81 02:16	#M5CPR #M5CPR - PROCESS FOR REMOTE WORK STATIONS	
ERR LOC	OBJECT CODE	ADDR STMT SOURCE STATEMENT		ERR LOC OBJECT CODE ADDR S	
02	42500000	4299 */*	*/	02	
	42510000	4300 */*****	*/		0A9F 7A 40 5B
	42520000	4301 */* PROCESS FOR REMOTE WORK STATIONS	*/		
	42530000	4302 */*****	*/		
	42540000	4303 */*	*/		
	42550000	4304 * REG(XR1)=ADDR(NUBSCA); /* XR1 PTR SCA	*/		
	42560000	4305 LA NUBSCA,XR1	4155		
	42570000	4306 * XR1->SCASYS2=OFF(SCAMHLPD); /* RESET DEDICATION	*/		
	42580000	4307 SBF SCASYS2(XR1),SCAMHLPD	4156		
	42590000	4308 * XR1->SCAMBSV=OFF(SCAMDEAD); /*	*/		
	42600000	4309 SBF SCAMBSV(XR1),SCAMDEAD	4157		
	42610000	4310 * IF XR1->SCADLTM(1:1)=0 THEN /* COMMUNICATIONS? AND .....	*/		0AA2 38 10 005C
	42620000	4311 CLI SCADLTM(XR1),0	4158		
	42630000	4312 * IF XR1->SCADCF69=ON(SCAMRUSA+SCAMRUV+SCAMRUCF) THEN /* REMOTES?	*/		0AA6 F2 90 33
	42640000	4313 JE MSC0560	4159		
	42650000	4314 TBN SCADCF69(XR1),SCAMRUSA+SCAMRUV+SCAMRUCF	4159		0AA9 38 10 005C
	42660000	4315 * DO; /*YES, DO IPL AUTO WARY ONLINE */	*/		
	42670000	4316 JF MSC0580	4160		0AAD C2 01 0200
	42680000				
	42690000	4317 */*	*/		0AB1 4E 00 73 0BA9
	42700000	4318 */*****	*/		
	42710000	4319 */* DO AUTO WARY ONLINE FOR REMOTE WORK STATIONS	*/		
	42720000	4320 */*****	*/		0AB6
	42730000	4321 */*	*/		0AB6 75 01 00
	42740000	4322 * XR1->SCAPLM(1:8)=MIPMPPM; /* MOVE PARM LIST TO WORKAREA	*/		
	42750000	4323 PNC SCAPLM(COOR,XR1),MIPMPPM	4166		0AB9 70 F9 68
	42760000	4324 * REG(CR2)=ADDR(SCAPLM+IMPLEN-1); /*CR2 -> AUTO WARY PARM LIST	*/		0ABC F2 81 07
	42770000	4325 LA SCAPLM+IMPLEN+1,CR2	4167		
	42780000	4326 * GEN; /* CALL AUTO WARY ROUTINE	*/		
	42790000	4327 SWC SCKEINT,QUEFRESH	4177		0ABF 70 00 0C
	42800000	4328 DC ALZ(MIPMPPM)	4180		0AC2 C0 01 0AB6
	42810000	4329 */*	*/		
	42820000	4330 */*****	*/		0AC6 36 01 0BA8
	42830000	4331 */* ISSUE AUTO WARY MESSAGE	*/		
	42840000	4332 */*****	*/		0ACA F2 81 0F
	42850000	4333 */*	*/		
	42860000	4334 * WRC(MIPMPPM-CYCOPIC-CYCOPIC(1:1)-M2->IMPLCD);	*/		
	42870000	4335 PNC MIPMPPM-CYCOPIC-CYCOPIC(1:1),IMPLCD,CR2	4177		0ACD 70 10 01
	42880000	4336 * /* STORE COMPLETION IN PARM LIST	*/		
	42890000	4337 * REG(CR2)=M2->SCOPM(C1:2); /* GET A WORK AREA	*/		0AD0 F2 01 09
	42900000	4338 L SCOPM(CR2),M2	4179		
	42910000	4339 * M2->COPM(CR2)=MIPMPPM; /* STORE MESSAGE IN WORK AREA	*/		0AD3 4C 00 6B 0273
	42920000	4340 PNC COPM(CR2),MIPMPPM	4180		
	42930000	4341 * GEN; /* ISSUE IN AUTO WARY MESSAGE	*/		
	42940000	4342 SWC SCKEINT,QUEFRESH	4177		0ADB F4 00 1D
	42950000	4343 DC ALZ(MIPMPPM)	4180		0AD0 70
	42960000	4344 * END;	*/		
	42970000	4345 * M2->SCAPLM(1:8)=M2->SCAPLM(1:8)-M2->SCAPLM(1:8); /* RESET	*/		
	42980000	4346 MSC0580 EQU *	4186		
	42990000	4347 MSC0580 EQU *	4186		
	43000000	4348 SLC SCAPLM(COOR,XR1),SCAPLM(C,XR1)	4186		
	43010000	4349 * M2->SCARDWL(1:6)=C'IPL'IPL'; /* INIT VOLUME LABEL SAVE AREA	*/		0ADC
	43020000	4350 PNC SCARDWL(COOR,XR1),MSC0580	4187		0ADC

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09/11/81 12/08/81 02:16		#M5CPR #M5CPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION	PAGE 51 09/11/81 12/08/81 02:16	#M5CPR #M5CPR - MAIN STORAGE	
ERR LOC	OBJECT CODE	ADDR STMT SOURCE STATEMENT		ERR LOC OBJECT CODE ADDR	
02	25020000	2555 *		02	25560000







13	TCBDEVMT C 001 0008 2837	TCBKCALL C 001 0008 2848
	TCBKDKO C 001 0001 3012	TCBLCKDT C 001 0001 2829
	TCBKDKWT C 001 0020 2835	TCBLCKDT C 001 0080 2947
14	TCBDMEPD C 001 0002 2850	TCBLCKHT C 001 0004 2952
	TCBDMPPD C 001 0001 3001	TCBLCKPK C 001 0069 2946 2956
	TCBDSKTR C 001 0040 3027	TCBLCKPI C 001 0008 2951
15	TCBDSKWT C 001 0010 2836	TCBLCKSI C 001 0040 2948
	TCBDUMP C 001 0020 3028	TCBLCKSP C 001 0002 2953
	TCBDWAIT C 001 0010 2809 2815 4386 4394 4455	TCBLCKVI C 001 0020 2949
16	TCBECMER C 001 002F 2930	TCBLCKSI C 001 0010 2950
	TCBECMGW C 001 002B 2924	TCBLDISK C 001 005A 2938 2939
	TCBEXIT C 001 005F 2942 2943 2944	TCBLDREL C 001 0057 2936 2937
17	TCBEXTRA C 001 0020 2846	TCBLEN C 001 0080 3067
	TCBFORCD C 001 0020 2796	TCBLINMT C 001 0040 2834
	TCBFSWAP C 001 0004 2800	TCBLONGW C 001 0010 2797
18	TCBFWAIT C 001 0002 2828	TCBMABTM C 001 0010 3008
	TCBGWAIT C 001 0020 2808 2815	TCBMABXD C 001 00E0 2987
	TCBHMPT C 001 0002 3000	TCBMIC C 001 0057 2937
19	TCBICXMT C 001 0004 2838	TCBMRTMX C 001 0072 3017 3018
	TCBIDACT C 001 00E4 2960 4567	TCBMSAFL C 001 0008 3009
20	TCBIDBEL C 001 00EE 2970	TCBMS12 C 001 002C 2925 2926

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17/1 12/08/81 02:16	MSCPR MSCP - PROCESS FOR REMOTE WORK STATIONS	PAGE 90 V09/11/81 12/08/81 02:16	MSCPR MSCP - DATA AREAS
ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT		ERR LOC OBJECT CODE ADDR STMT
44010000	0827 80 0827 4451 DC AL1(PREEMPT+0+0)	44520000	02 448
44020000	4452 *** END OF EXPANSION **	44530000	4485
44030000	4453 * TRAIT PRSK-TCBDWAIT,Q-0 /* WAIT FOR IPL COMPLETE @0145*/	44540000	4486
44040000	4454 SVC SVCTWAIT,0	44550000	4487
44050000	0828 F4 00 1E 0828 4455 DC AL1(TCDBWAIT)	44560000	0846 4488
44060000	4456 *** END OF EXPANSION **	44570000	084A 0000 0848 4490
44070000	4457 * SEQJ /* TERMINATE WAIT ROUTINE @0145*/	44580000	084C 0000 0840 4491
44080000	4458 * LINKAGE TO END OF JOB ROUTINES	44590000	084E 0000 084F 4492
44090000	082C F4 00 04 4459 SVC X'04',X'00' EDJ SVC	44600000	0850 0000 0851 4493
44100000	082F 04 082F 4460 DC XL1'04' EDJ RIB	44610000	0852 ED 0852 4494
44110000	4461 * END OF EXPANSION	44620000	0853 07 0853 4495
44120000	4462 *** END OF EXPANSION **	44630000	0854 F0 0854 4496
44130000	4463 * END;	44640000	0855 0000 0856 4497
44140000	4464 * END;	44650000	0857 00000000 085A 4498
44150000	0830 4465 MSC0740 EQU * 4271	44660000	0858 B8 0858 4499
44160000	0834 4467 MSC0720 EQU * 4271	44670000	085C F9 085C 4500
44170000	4468 * GEN;	44680000	085D 0000 085E 4501
44180000	4469 * SEQJ /* @0145*/	44690000	0008 4502
44190000	4470 * LINKAGE TO END OF JOB ROUTINES	44700000	000C 4503
44200000	0834 F4 00 04 4471 SVC X'04',X'00' EDJ SVC	44710000	0080 4504
44210000	0837 04 0837 4472 DC XL1'04' EDJ RIB	44720000	0040 4505
44220000	4473 * END OF EXPANSION	44730000	0020 4506
44230000	4474 *** END OF EXPANSION **	44740000	4507
44240000	4475 *END PISCMENT;	44750000	0010 4508
44250000	0838 4476 MSC0690 EQU * 4280	44760000	4509
44260000	0838 4477 MSC0680 EQU * 4280	44770000	0008 4510
44270000	4478 *GEN DATA;	44780000	4511
44280000	4479 *END PISCMENT;	44790000	0004 4512
44290000	0838 4480 MSC0010 EQU * 4503	44800000	0002 4513
44300000	083F 4481 MSC0001 DC CLO06*IPLPRDC*	44810000	0001 4514
44310000	0840 C90703C90703 0845 4482 MSC0002 DC CLO06*IPLIPL*	44820000	000C 4515
44320000		44830000	0004 4516
44330000		44840000	0090 4517
44340000		44850000	0000 4518
44350000		44860000	000E 4519
44360000		44870000	0010 4520
44370000		44880000	0014 4522
44380000		44890000	0015 4523
44390000		44900000	0000 4524
44400000		44910000	0040 4525
44410000		44920000	0020 4526
44420000		44930000	0010 4527
44430000		44940000	0000 4528
44440000		44950000	0004 4529
44450000		44960000	0002 4530
44460000		44970000	0016 4532
44470000		44980000	0018 4533
44480000		44990000	0019 4534
44490000		45000000	4535
44500000		45010000	4536
44510000		45020000	4537

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17/1 12/08/81 02:16	MSCPR MSCP - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION	PAGE 94 V09/11/81 12/08/81 02:16	MSCPR MSCP - MAIN STORAGE IPL
ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT		ERR LOC OBJECT CODE ADDR STMT
26400000	2698 * DELAYED SVC P-RYTH EDWARDS	26990000	02

13	TCBKCALL C 001	0008	2848	
	TCBKWAIT C 001	0001	2829	
	TCBKCKDI C 001	0080	2947	
14	TCBKCKHI C 001	0004	2952	
	TCBKCKMK C 001	0069	2946	2956
	TCBKCKPI C 001	0008	2951	
15	TCBKCKSI C 001	0040	2948	
	TCBKCKSP C 001	0002	2953	
	TCBKCKVI C 001	0020	2949	
16	TCBKCKSI C 001	0010	2950	
	TCBLDISK C 001	005A	2938	2939 2940
	TCBLDREL C 001	0057	2936	2937 2938
17	TCBLEN C 001	0080	3067	
	TCBLINMT C 001	0040	2834	
	TCBLONGW C 001	0010	2797	
18	TCBMBATH C 001	0010	3008	
	TCBMAXID C 001	00E0	2987	
	TCBMTC C 001	0057	2937	
19	TCBMRTMX C 001	0072	3017	3018
	TCBMSAFL C 001	0008	3009	
20	TCBMSI2 C 001	002C	2925	2926

13	TCBPRSNR C 001	00F0	2866	
	TCBPRSN1 C 001	00F0	2865	
14	TCBPRSP C 001	00F0	2857	
	TCBPRSRJ C 001	00F0	2868	
	TCBPRSWT C 001	0000	2880	
	TCBPRUDH C 001	00E0	2881	
15	TCBPRUDL C 001	00B0	2889	
	TCBPRUDM C 001	00D1	2882	
	TCBPTRUT C 001	0080	2833	
16	TCBPUSH C 001	0008	2897	
	TCBQCNT C 001	0007	2893	
	TCBQWAT C 001	0008	2823	
17	TCBRDYQ C 001	000F	2899	
	TCBRGSIZ C 001	002D	2926	
	TCBRSE C 001	0027	2918	
18	TCBR7MB C 001	0013	2902	
	TCBRWAL C 001	0004	2827	
	TCBSOTAC C 001	0002	3046	
19	TCBSOTSO C 001	0040	3043	
	TCBSFILK C 001	0010	3029	
20	TCBSHRC C 001	0080	2993	

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MSICPR MSICPR - DATA AREAS PAGE 91 09/11/81 12/08/81 02:16

MSICPR MSICPR - DATA AREAS

01				
02	44520000			
	44530000			
	44540000			
	44550000			
	44560000			
04	44570000			
	44580000			
	44590000			
	44600000			
05	44610000			
	44620000			
	44630000			
	44640000			
	44650000			
	44660000			
	44670000			
	44680000			
	44690000			
	44700000			
09	44710000			
	44720000			
	44730000			
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	44750000			
	44760000			
	44770000			
	44780000			
	44790000			
	44800000			
	44810000			

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	ADDR
02		4484 *			44850000
		4485 *		*IPATCH ATACH CREATE=YES,MSI2=7,SWAP=YES,PRIV=YES,REFRSH=YES,	44860000
		4486 *		DATA=Y,INAME=Y,TASKID=TCBIDBLD,TUB=Y,REAL=YES,	44870000
03		4487 *		PRIOR=TCBPRBLD,SYS=Y,INIT=Y	44880000
		0846	4488	NIPATCH EQU *	44890000
04		0849	4489	DC 4X1'00'	44900000
		084A	4490	DC AL2(0)	44910000
		084C	4491	DC AL2(0)	44920000
		084E	4492	DC 2X1'00'	44930000
05		0850	4493	DC AL2(0)	44940000
		0852	4494	DC AL1CX'80'+X'40'+X'20'+X'00'+X'08'+X'04'+X'00'+X'01'	44950000
		0853	07	DC AL1(7)	44960000
		0854	F0	DC AL1(TCBPRBLD)	44970000
06		0855	0000	DC AL2(0)	44980000
		085A	4498	DC X14'0'	44990000
07		085B	B8	DC AL1CX'80'+X'00'+X'20'+X'10'+X'08'+X'00'+X'00'+X'00'	45000000
		085C	F9	DC AL1(TCBIDBLD)	45010000
		085D	0000	DC AL2(0)	45020000
08		0008	4502	EQU X'08'	45030000
		000C	4503	EQU SATLOND+1	45040000
		0008	4504	EQU X'80'	45050000
09		0040	4505	EQU X'40'	45060000
		0020	4506	EQU X'20'	45070000
		4507 *		OFF- JOB PASSED IN PARM LIST	45080000
10		0010	4508	EQU X'10'	45090000
		4509 *		OFF- ASSIGN JOB NAME	45100000
		0008	4510	EQU X'08'	45110000
11		4511 *		PUT DATA TO SESSION WORK AREA	45120000
		0004	4512	EQU X'04'	45130000
		0002	4513	EQU X'02'	45140000
		0001	4514	EQU X'01'	45150000
12		00EC	4515	EQU SATCREAT+SATREAL+SATTRMB+SATDATA+SATPRIV START INIT	45160000
		0004	4516	EQU SATSPOOL	45170000
13		0090	4517	EQU SATCREAT+SATREAL+SATTRMB+SATPRIV START SPOOL	45180000
		0000	4518	EQU SATFLAG+1	45190000
		000E	4519	EQU SATPRIO2+1	45200000
14		0000	4520	EQU SATPRIO2	45210000
		0000	4521	EQU SATTRUD	45220000
		0004	4522	EQU SATTRUD+4	45230000
15		0005	4523	EQU SATSSM+1	45240000
		0000	4524	EQU X'00'	45250000
		0040	4525	EQU X'40'	45260000
16		0020	4526	EQU X'20'	45270000
		0000	4527	EQU X'00'	45280000
		0000	4528	EQU X'00'	45290000
17		0004	4529	EQU X'04'	45300000
		0002	4530	EQU X'02'	45310000
		0001	4531	EQU X'01'	45320000
18		0006	4532	EQU SATFLAG+1	45330000
		0008	4533	EQU SATTASKID+2	45340000
19		001A	4534	EQU SATDATAD+1	45350000
		4535 *			45360000
		4536 *		ERROR RETURN CODES IN WRT IN ADDR AT 0000, WHERE 00:	45370000
20		4537 *		IF ATTACH WAS SUCCESSFUL, WRT RETURNS WITH ATTACHED TASKS TCB	45380000

01				
02				
03				
04				
05				
06				
07				
08		085F	00000000	0862
		0863	0000	0864
		0865	0000	0866
09		0867	0000	0868
		0869	0000	086A
10		086B	05	086B
		086C	01	086C
		086D	F0	086D
		086E	0000	086E
11		0870	00000000	0873
		0874	08	0874
12		0875	E4	0875
		0876	0000	0877
13				
14				
15		0878	08	0878
		0879	7BC7C3C1C340400	0880
		0881	80	0881
16		0882	0000000000000000	088A
17				
18				
19		088A	08	088A
		088B	7BC7C3C1C340400	0892
		0893	80	0893
20				

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MSICPR MSICPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION PAGE 95 09/11/81 12/08/81 02:16

MSICPR MSICPR - MAIN STORAGE

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ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	ADDR
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13	TCBPSNR C 001 00F0 2866	TCBPSNR C 001 00F0 2865	TCBPSNR C 001 00F0 2867	TCBPSNR C 001 00F0 2868
14	TCBPSRJ C 001 00F0 2868	TCBPSRJ C 001 00F0 2880	TCBPSRJ C 001 00F0 2881	TCBPSRJ C 001 00F0 2889
15	TCBPSRJ C 001 00F0 2882	TCBPSRJ C 001 00F0 2833	TCBPSRJ C 001 00F0 2897	TCBPSRJ C 001 00F0 2894
16	TCBPSRJ C 001 00F0 2823	TCBPSRJ C 001 00F0 2899	TCBPSRJ C 001 00F0 2900	TCBPSRJ C 001 00F0 2901
17	TCBPSRJ C 001 00F0 2926	TCBPSRJ C 001 00F0 2929	TCBPSRJ C 001 00F0 2918	TCBPSRJ C 001 00F0 2922
18	TCBPSRJ C 001 00F0 2902	TCBPSRJ C 001 00F0 2905	TCBPSRJ C 001 00F0 2827	TCBPSRJ C 001 00F0 3046
19	TCBPSRJ C 001 00F0 3043	TCBPSRJ C 001 00F0 3029	TCBPSRJ C 001 00F0 2993	
20				

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01	ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT
02	44850000	4538 * ADDRESS.
03	44860000	4539 *
04	44870000	0001 4540 BATERRO1 EQU X'01' NOT ENOUGH STORAGE
05	44880000	0002 4541 BATERRO2 EQU X'02' TASK NON-SWAPPABLE, AND NOT
06	44890000	4542 * ENOUGH STORAGE
07	44900000	0003 4543 BATERRO3 EQU X'03' TASK NON-SWAPPABLE, AND ITS
08	44910000	4544 * STORAGE REQUIREMENTS WILL
09	44920000	4545 * PUT A SWAPPABLE TASK TO SLEEP
10	44930000	0004 4546 BATERRO4 EQU X'04' ASSIGN FAILURE ON TCB
11	44940000	0005 4547 BATERRO5 EQU X'05' ASSIGN FAILURE ON RB
12	44950000	0006 4548 BATERRO6 EQU X'06' ALLOCATE FAILURE FOR SWAP AREA
13	44960000	0007 4549 BATERRO7 EQU X'07' ALLOCATE FAILURE FOR USWA
14	44970000	4550 *** END OF EXPANSION **
15	44980000	4551 *
16	44990000	4552 *IPACTSK ATACH CREATE=YES,MSI2-1,SWAP=YES,PRIV=YES,REFRSH=YES,
17	45000000	4553 * DATA-NO,NAME=Y,TASKID=TCBIDACT,TUB-NO,
18	45010000	4554 * PRIOR=TCBPRBLD,SYS=Y,V=DC
19	45020000	085F 4555 NIPACTSK EQU *
20	45030000	0862 4556 DC 4X1'00' SSSN OF MODULE
21	45040000	0864 4557 DC AL2(C) LINK EDIT ADDRESS
22	45050000	0866 4558 DC AL2(C) START CONTROL ADDRESS
23	45060000	0868 4559 DC 2X1'00' RLD OFFSET/ TOTAL SECTORS
24	45070000	086A 4560 DC AL2(C) LOAD ADDRESS
25	45080000	086B 85 086B 4561 DC AL1(X'80'+X'00'+X'00'+X'00'+X'04'+X'00'+X'01')
26	45090000	086C 01 086C 4562 DC AL1(C) *2K BLOCKS MAIN STORAGE
27	45100000	086D F0 086D 4563 DC AL1(TCBPRBLD) PRIORITY ONLY IF NEW TASK
28	45110000	086E 0000 086E 4564 DC AL2(C) TUB ADDRESS
29	45120000	0870 00000000 0873 4565 DC XL4'0' SSSN VALUE OF NEXT TRANSIENT
30	45130000	0874 98 0874 4566 DC AL1(X'80'+X'00'+X'00'+X'10'+X'08'+X'00'+X'00'+X'00')
31	45140000	0875 E4 0875 4567 DC AL1(TCBIDACT) TASK ID ONLY IF NEW TASK
32	45150000	0876 0000 0877 4568 DC AL2(C) ADDRESS OF REQUEST DATA
33	45160000	4569 *** END OF EXPANSION **
34	45170000	4570 *
35	45180000	4571 *IPFNDAC \$FNDP V=DC,TYPE=0,NAME=*GCAC,SKIP=USER
36	45190000	
37	45200000	4573 * PARAMETER LIST FOR SYSTEM FIND
38	45210000	
39	45220000	0878 4575 NIPFNDAC EQU *
40	45230000	0878 08 0878 4576 DC AL1(8) MEMBER TYPE
41	45240000	0879 78C7C3C13404040 0880 4577 DC CL8 *GCAC' MEMBER NAME
42	45250000	0881 80 0881 4578 DC AL1(128) SEARCH SYS LIBR AND
43	45260000	4579 * RETURN DIRECTORY ENTRY
44	45270000	0882 0000000000000000 0889 4580 DC XL8'0' OUTPUT BY SYSTEM FIND
45	45280000	4581 * END OF EXPANSION OF \$FNDP
46	45290000	4582 *** END OF EXPANSION **
47	45300000	4583 *IPFND21 \$FNDP V=DC,TYPE=0,NAME=*GC21,SKIP=USER
48	45310000	
49	45320000	4585 * PARAMETER LIST FOR SYSTEM FIND
50	45330000	
51	45340000	088A 4587 NIPFND21 EQU *
52	45350000	088A 08 088A 4588 DC AL1(8) MEMBER TYPE
53	45360000	088B 78C7C3F2F1404040 0892 4589 DC CL8 *GC21' MEMBER NAME
54	45370000	0893 80 0893 4590 DC AL1(128) SEARCH SYS LIBR AND
55	45380000	4591 * RETURN DIRECTORY ENTRY

01	ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT	45390000
02		4539 *	45400000
03		0001 4540 BATERRO1 EQU X'01' NOT ENOUGH STORAGE	45410000
04		0002 4541 BATERRO2 EQU X'02' TASK NON-SWAPPABLE, AND NOT	45420000
05		4542 * ENOUGH STORAGE	45430000
06		0003 4543 BATERRO3 EQU X'03' TASK NON-SWAPPABLE, AND ITS	45440000
07		4544 * STORAGE REQUIREMENTS WILL	45450000
08		4545 * PUT A SWAPPABLE TASK TO SLEEP	45460000
09		0004 4546 BATERRO4 EQU X'04' ASSIGN FAILURE ON TCB	45470000
10		0005 4547 BATERRO5 EQU X'05' ASSIGN FAILURE ON RB	45480000
11		0006 4548 BATERRO6 EQU X'06' ALLOCATE FAILURE FOR SWAP AREA	45490000
12		0007 4549 BATERRO7 EQU X'07' ALLOCATE FAILURE FOR USWA	45500000
13		4550 *** END OF EXPANSION **	45510000
14		4551 *	45520000
15		4552 *IPACTSK ATACH CREATE=YES,MSI2-1,SWAP=YES,PRIV=YES,REFRSH=YES,	45530000
16		4553 * DATA-NO,NAME=Y,TASKID=TCBIDACT,TUB-NO,	45540000
17		4554 * PRIOR=TCBPRBLD,SYS=Y,V=DC	45550000
18		085F 4555 NIPACTSK EQU *	45560000
19		0862 4556 DC 4X1'00' SSSN OF MODULE	45570000
20		0864 4557 DC AL2(C) LINK EDIT ADDRESS	45580000
21		0866 4558 DC AL2(C) START CONTROL ADDRESS	45590000
22		0868 4559 DC 2X1'00' RLD OFFSET/ TOTAL SECTORS	45600000
23		086A 4560 DC AL2(C) LOAD ADDRESS	45610000
24		086B 85 086B 4561 DC AL1(X'80'+X'00'+X'00'+X'00'+X'04'+X'00'+X'01')	45620000
25		086C 01 086C 4562 DC AL1(C) *2K BLOCKS MAIN STORAGE	45630000
26		086D F0 086D 4563 DC AL1(TCBPRBLD) PRIORITY ONLY IF NEW TASK	45640000
27		086E 0000 086E 4564 DC AL2(C) TUB ADDRESS	45650000
28		0870 00000000 0873 4565 DC XL4'0' SSSN VALUE OF NEXT TRANSIENT	45660000
29		0874 98 0874 4566 DC AL1(X'80'+X'00'+X'00'+X'10'+X'08'+X'00'+X'00'+X'00')	45670000
30		0875 E4 0875 4567 DC AL1(TCBIDACT) TASK ID ONLY IF NEW TASK	45680000
31		0876 0000 0877 4568 DC AL2(C) ADDRESS OF REQUEST DATA	45690000
32		4569 *** END OF EXPANSION **	45700000
33		4570 *	45710000
34		4571 *IPFNDAC \$FNDP V=DC,TYPE=0,NAME=*GCAC,SKIP=USER	45720000
35			
36		4573 * PARAMETER LIST FOR SYSTEM FIND	45740000
37			
38		0878 4575 NIPFNDAC EQU *	45760000
39		0878 08 0878 4576 DC AL1(8) MEMBER TYPE	45770000
40		0879 78C7C3C13404040 0880 4577 DC CL8 *GCAC' MEMBER NAME	45780000
41		0881 80 0881 4578 DC AL1(128) SEARCH SYS LIBR AND	45790000
42		4579 * RETURN DIRECTORY ENTRY	45800000
43		0882 0000000000000000 0889 4580 DC XL8'0' OUTPUT BY SYSTEM FIND	45810000
44		4581 * END OF EXPANSION OF \$FNDP	45820000
45		4582 *** END OF EXPANSION **	45830000
46		4583 *IPFND21 \$FNDP V=DC,TYPE=0,NAME=*GC21,SKIP=USER	45840000
47			
48		4585 * PARAMETER LIST FOR SYSTEM FIND	45860000
49			
50		088A 4587 NIPFND21 EQU *	45880000
51		088A 08 088A 4588 DC AL1(8) MEMBER TYPE	45890000
52		088B 78C7C3F2F1404040 0892 4589 DC CL8 *GC21' MEMBER NAME	45900000
53		0893 80 0893 4590 DC AL1(128) SEARCH SYS LIBR AND	45910000
54		4591 * RETURN DIRECTORY ENTRY	45920000

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01	ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT
02	27530000	2791 *XXXXXXXXXX THE FOLLOWING FIELDS ARE ORDER DEPENDENT XXXXXXXXXXXX

01	ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT	27630000
02		2791 *XXXXXXXXXX THE FOLLOWING FIELDS ARE ORDER DEPENDENT XXXXXXXXXXXX	

01	ERR LOC OBJECT CODE	ADDR
02	0894 0000000000000000	089B
03	089C 78C7C3F2F1404040	08A3
04		
05		
06	08A4 08	08A4
07	08A4	
08	08A4 0800	08A5
09	08A5	
10	08A5 000000	08A7
11	08A7	
12	08A7 000001	08A9
13	08A7	
14	08A7 0000	08A8
15	08A8	
16	08A8 0001	08A9
17	08A9	
18	08A9 01	08A9
19	08A9	
20	08A9 0100	08AA
21		
22	08AB 00	08AB
23		0080
24		
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01	ERR LOC OBJECT CODE	ADDR
02		

	TCBTTC	C 001	0051	2933	2934	4076	4446
	TCBTTIME	C 001	0006	2891	2893		
14	TCBTWA	C 001	0053	2934	2935		
	TCBTWACL	C 001	0004	2999			
	TCBTWAIT	C 001	0004	2811	2815		
15	TCBUDMPR	C 001	0080	3036			
	TCBWAFLG	C 001	007A	3049	3053		
	TCBWAIT	C 001	0080	2794			
16	TCBWAITD	C 001	0080	2806	2815		
	TCBWIOSP	C 001	0001	3047			
	TCBWMASK	C 001	0002	2817	2831		
17	TCBWMASK2	C 001	0003	2831	2842		
	TCBWSILK	C 001	0004	3031			
	TCBWSWA	C 001	0055	2935	2936		
18	TCBWAIT	C 001	0010	2822			
	TCBX	C 001	007D	3060	3062		
	TCBXINTQ	C 001	0011	2901	2902		
19	TCBXWAIT	C 001	0040	2807			
	TCB22RCS	C 001	0008	2997			
20	THREE	C 001	0003	0112			

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45390000		
45400000		
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45900000		
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45920000		

		*MSCPR *MSCPR - DATA AREAS				PAGE 93 V09/11/81 12/08/81 02:16	
01	ERR LOC OBJECT CODE	ADDR	STMT	SOURCE STATEMENT			
02	0B94	0000000000000000	0B9B 4592	DC XL8'0'	OUTPUT BY SYSTEM FIND	45930000	
			4593 *	END OF EXPANSION OF \$FNDP		45940000	
			4594 ***	END OF EXPANSION **		45950000	
03	0B9C	7BC7C3F2F1404040	0BA3	DC NIP*GC21 DC CL8'*GC21'	X.21 TASK NAME	45960000	
			4596 *			45970000	
			4597 ***			45980000	
			4598 *****			45990000	
			4599 *****	MISC EQUATES AND CONSTANTS		46000000	
			4600 *****			46010000	
			4601 ***			46020000	
			4602 *			46030000	
04	0BA4	08	0BA4 4603	X8 DC XL1'08'	CONSTANT OF 8	46040000	
			4604	ORG *-1		46050000	
06	0BA4	0800	0BA5 4605	X800 DC XL2'0800'	CONSTANT OF X'0800' (2K)	46060000	
			4606	ORG *-1		46070000	
07	0BA5	000000	0BA7 4607	X000 DC XL3'00'	CONSTANT OF ZERO	46080000	
			4608	ORG *-1		46090000	
	0BA7	000001	0BA9 4609	X001 DC XL3'000001'	CONSTANT OF ONE	46100000	
			4610	ORG *-3		46110000	
08	0BA8	0000	0BA8 4611	X00 DC XL2'0000'	CONSTANT OF ZERO	46120000	
			4612	ORG *-1		46130000	
09	0BA8	0001	0BA9 4613	X01 DC XL2'0001'	CONSTANT OF ONE	46140000	
			4614	ORG *-1		46150000	
	0BA9	01	0BA9 4615	X1 DC XL1'01'	CONSTANT OF 1	46160000	
			4616	ORG *-1		46170000	
10	0BA9	0100	0BAA 4617	X100 DC XL2'0100'	CONSTANT OF X'100'	46180000	
			4618 *			46190000	
11	0BAB	00	0BAB 4619	NIPSWTCH CC XL1'00'	IPL SWITCH BYTE	46200000	
			0080 4620	WAITEND EQU 128	REBUILD COMPLETE FLAG	46210000	
			4621 *			46220000	
			4622 ***			46230000	
			4623 *****			46240000	
			4624 *****	REMOTE WORK STATION DATA AREAS		46250000	
			4625 *****			46260000	
			4626 ***			46270000	
			4627 *			46280000	
14	0BAC	0000000000000000	0BB3 4628	NIPAVMSG DC XL8'00'	AUTO VARY MESSAGE PARMLIST	46290000	
			4630	ORG NIPAVMSG+CPCUSU1-CPCMCU		46300000	
15	0BAC	BC	0BAC 4631	DC AL1(CPCUIRL+CPCUSU4+CPCULOG+CPCUROL+CPCUOUT)		46310000	
			4632	ORG NIPAVMSG+CPCUSU2-CPCMCU SWITCH 2		46320000	
	0BAF	20	0BAF 4633	DC AL1(CPCUCOND)		46330000	
			4634	ORG NIPAVMSG+CPCUNIC-CPCMCU-1 MIC		46340000	
16	0BAD	5900	0BAE 4635	DC XL2'5900'		46350000	
			4636	ORG		46360000	
			4637			46370000	
			0BB4 4638	NIPAVPRG EQU *-	AUTO VARY PARMLIST	46380000	
			4639	NIPAVPRG DC XL8'00'	*	46390000	
18	0BB4	0000000000000000	0BB8 4640	ORG NIPAVPRG+RPLREQ		46400000	
			4641	DC AL1(RPLAUT)	REQUEST BYTE	46410000	
	0BBC		4642	ORG		46420000	
			4643 *	EQUATES FOR SAVE OF STARTUP PROCEDURE		46430000	
19	0ZDS	4644	NIPSTART EQU NIPSTART+48		STARTUP PROCEDURE SAVE AREA	46440000	
			0ZDF 4645	NIPSTRTE EQU NIPSTART+7	*	46450000	
						46460000	

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27920000		
27930000		

		*MSCPR *MSCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION				PAGE 57 V09/11/81 12/08/81 02:16	
01	ERR LOC OBJECT CODE	ADDR	STMT	SOURCE STATEMENT			
02	0040	2845	TCBCHKPT EQU X'40'		THIS TASK IS BEING CHECKPOINTED	28460000	
	0020	2846	TCBEXTRA EQU X'20'		EXTENDED TRACE ACTIVE	28470000	

15	TUBSAMS C 001 0006 3208	
	TUBSKIP C 001 0080 3156	
16	TUBSTANZ C 001 00E0 3335	
	TUBSUERP C 001 0080 3179	
	TUBSVH C 001 0010 3182	
17	TUBABTRM C 001 0001 3457	
	TUBACN C 001 0040 3396	
	TUBAIG C 001 0025 3385 3386	
18	TUBALRM C 001 0080 3491	
	TUBAPRNT C 001 003E 3471 3472	
	TUBASENT C 001 0020 3493	
19	TUDASGNB C 001 0043 3476 3478	
	TUBASGND C 001 0004 3172	
20	TUBASGNL C 001 0041 3475 3476	

	TUBCMD5 C 001 0010 3524	
	TUBCMD6 C 001 0020 3523	
16	TUBCMD7 C 001 0040 3522	
	TUBCMD8 C 001 0080 3521	
	TUBCMD9 C 001 0010 3533	
17	TUBCMD0 C 001 0003 3188	
	TUBCMD0 C 001 0004 3203	
	TUBCMSK C 001 0050 3547	
18	TUBCMSK1 C 001 004E 3520	
	TUBCMSK2 C 001 004F 3529	
	TUBCMSK3 C 001 0050 3538	
19	TUBCMD0N C 001 0024 3375	
	TUBCOMPL C 001 0001 3165	
20	TUBCOUNT C 001 0009 3216	

G01

*MISCPR *MISCPR - DATA AREAS		PAGE 94 V09/11/81 12/08/81 02:16	
ERR LOC	OBJECT CODE	ADDR STMT	SOURCE STATEMENT
01			
02		4646 *	46470000
		4647 *****	46480000
		4648 * MAINTENANCE AREA *	46490000
03		4649 *****	46500000
	OBBC	4650 NIPATCH EQU *	46510000
	OBED	4651 DS CL50	46520000
04	OCBE	4652 ORG *,256,190	46530000
		4653 *****	46540000
		4654 * WHERE-TO-GO TABLE *	46550000
05	OCBE FFFF	4655 *****	46560000
	OCBF	4656 NIPMINI DC XL2'FFFF'	46570000
			46580000
06	OCC0	OCC1 4658 NIPWRK DS CL2	46590000
	OCC0	4659 ORG *-2	46600000
	OCC0 C3D4C3E4	OCC3 4660 DC CL4'CMCU'	46610000
07		OCC4 4661 NIP@CMCU EQU *	46620000
	OCC4 000000	OCC6 4662 DC XL3'00'	46630000
	OCC7 00	OCC7 4663 DC AL1(C)	46640000
08	OCC8 00	OCC8 4664 DC AL1(C)	46650000
			46660000
09	OCC9 D9E6E5E8	OCC9 4666 DC CL4'RWVY'	46670000
		OCCD 4667 NIP@RWVY EQU *	46680000
	OCCD 000000	OCCF 4668 DC XL3'00'	46690000
10	OCCD 00	OCCD 4669 DC AL1(C)	46700000
	OCCD 00	OCCD 4670 DC AL1(C)	46710000
			46720000
11	OCD2 E2E5C1E3	OCD5 4672 DC CL4'SVAT'	46730000
		OCD6 4673 NIPSSATC EQU *	46740000
12	OCD6 000000	OCD8 4674 DC XL3'00'	46750000
	OCD9 00	OCD9 4675 DC AL1(C)	46760000
	OCD8 00	OCD8 4676 DC AL1(C)	46770000
			46780000
14	OCD8 D4E2C203	OCD8 4678 DC CL4'MSBL'	46790000
		OCD8 4679 NIPSSBLD EQU *	46800000
	OCD8 000000	OCE1 4680 DC XL3'00'	46810000
	OCE2 00	OCE2 4681 DC AL1(C)	46820000
15	OCE3 00	OCE3 4682 DC AL1(C)	46830000
			46840000
16	OCE4 D4E2E207	OCE7 4684 DC CL4'MSSP'	46850000
		OCE8 4685 NIPSP1PL EQU *	46860000
	OCE8 000000	OCEA 4686 DC XL3'00'	46870000
17	OCE8 00	OCE2 4687 DC AL1(C)	46880000
	OCEC 00	OCEC 4688 DC AL1(C)	46890000
			46900000
18	OCED D4E2C8C6	OCE9 4690 DC CL4'MSHF'	46910000
		OCE9 4691 NIPSSHF1 EQU *	46920000
	OCE9 000000	OCE3 4692 DC XL3'00'	46930000
19	OCE4 00	OCE4 4693 DC AL1(C)	46940000
	OCE5 00	OCE5 4694 DC AL1(C)	46950000
20			

F01

*MISCPR *MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION		PAGE 98 V09/11/81 12/08/81 02:16	
ERR LOC	OBJECT CODE	ADDR STMT	SOURCE STATEMENT
01			
02		000F Z909 TCORDDY EQU TCORCHAI+2	SYSTEM READY QUEUE CHAINING FIELD
		000F Z900 TCBSAMP EQU TCORDDY	SYSTEM READY QUEUE SPECIAL EQUATE
		0011 Z901 TCORNTD EQU TCORDDY+2	SYSTEM TRANSIENT QUEUE CHAINING FIELD
03		0013 Z902 TCORTRUB EQU TCORNTD+2	TAB ADDRESS OF REQUESTOR
			29030000
			29040000
		Z904 ***** THE FOLLOWING FIELDS ARE ORDER DEPENDENT *****	29050000
04		0015 Z905 TCORJCN EQU TCORTRUB+2	ADDRESS OF TASK JCL CONTROL BLOCK
		0017 Z906 TCORTRUB EQU TCORTRUB+2	ADDRESS OF REQUESTOR BLOCK POINTER
			29070000

*MISCPR *MISCPR - MAIN STORAGE	
ERR LOC	OBJECT CODE
01	
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15	TUBCND4	C 001	0008	3525					TUBKPLY C 001	0080
	TUBCND5	C 001	0010	3524					TUBKBD C 001	0040
	TUBCND6	C 001	0020	3523					TUBKPNTR C 001	0080
16	TUBCND7	C 001	0040	3522					TUBLEN C 001	0060
	TUBCND8	C 001	0080	3521					TUBLIOER C 001	0004
	TUBCND9	C 001	0010	3533					TUBLIOFR C 001	0002
17	TUBCND0	C 001	0003	3188	3201	3203			TUBLIOIP C 001	0002
	TUBCND0	C 001	0004	3203	3214				TUBLIOS C 001	0002
	TUBCMYK	C 001	0050	3547	3548				TUBL0P C 001	0020
18	TUBCMYK1	C 001	004E	3520	3529				TUBLTOFF C 001	0040
	TUBCMYK2	C 001	004F	3529	3538				TUBMBDCF C 001	0010
	TUBCMYK3	C 001	0050	3538	3547				TUBMCM C 001	0020
19	TUBCOMON	C 001	0024	3375	3385	3607			TUBMCN C 001	0080
	TUBCOMPL	C 001	0001	3165	3177				TUBMCNSL C 001	0040
20	TUBCOUNT	C 001	0009	3216	3218	3324			TUBMCOUT C 001	0004

PAGE	94	V09/11/81	12/08/81	02:16
*****	46470000			
*****	46480000			
*****	46490000			
*****	46500000			
*****	46510000			
*****	46520000			
*****	46530000			
*****	46540000			
*****	46550000			
*****	46560000			
IFER	46570000			
	46590000			
	46600000			
	46610000			
	46620000			
	46630000			
SECTORS	46640000			
T	46650000			
	46670000			
IENT	46680000			
	46690000			
SECTORS	46700000			
T	46710000			
	46730000			
	46740000			
	46750000			
SECTORS	46760000			
T	46770000			
	46790000			
SBLD	46800000			
	46810000			
SECTORS	46820000			
T	46830000			
	46850000			
IENT	46860000			
	46870000			
SECTORS	46880000			
T	46890000			
	46910000			
ITIALIZE	46920000			
	46930000			
SECTORS	46940000			
T	46950000			

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	
01						
02						
03	OCF6	D4E2D2D2	OCF9	4696	DC CL4'MSK'	#GAML START TRANSIENT
			OCFA	4697	MSKSSN EQU *	46970000
04	OCFA	000000	OCFC	4698	DC XL3'00'	MODULE SSS
			OCFD	00	OCFD 4699	DC AL1(0)
			OCFE	00	OCFE 4700	DC AL1(0)
			OD00	4701	MSCPREND EQU *+1	END OF #MSCPR
					4702 */*.END CHANGE ACTIVITY - #MSCPR	47030000
05	OCFF	4703	MSCADEND	EQU *		4503
	OADF	4704	END	MSCPRENT		47050000
06			LENGTH OF MODULE IS	1279		
07						
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PAGE	58	V09/11/81	12/08/81	02:16
ING FIELD	29000000			
AL EQUATE	29010000			
MAINTING FIELD	29020000			
	29030000			
	29050000			
	29060000			

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	
02	0002	2953	TCBLOKSP	EQU	'*02'	INTERLOCK FOR SPOOL FILE
				2954 *	EQU	'*01'
03	006A	2956	TCBSSTID	EQU	TCBLOKMK+1	SHARED STORAGE TASK IASK BITS
04	006B	2958	TCBTSKID	EQU	TCBSSTID+1	TASK ID

01						
02	SYMBOL	T	LEN	V		
03	SATACHER	C 001				
	SATBATCH	C 001				
	SATCOMMON	C 001				
	SATCREAT	C 001				
04	SATDATA	C 001				
	SATDATAA	C 001				
	SATERRO1	C 001				
05	SATERRO2	C 001				
	SATERRO3	C 001				
	SATERRO4	C 001				
06	SATERRO5	C 001				
	SATERRO6	C 001				
	SATERRO7	C 001				
07	SATFLAG	C 001				
	SATFLAG1	C 001				
	SATFRPRM	C 001				
08	SATINJC	C 001				
	SATINIT	C 001				
	SATJCB	C 001				
09	SATLENG	C 001				
	SATLOAD	C 001				
	SATSS12	C 001				
10	SATNCNIQ	C 001				
	SATNONAM	C 001				
	SATNTUB	C 001				
11	SATNSMAP	C 001				
	SATPRIOR	C 001				
	SATPRIV	C 001				
12	SATQINT	C 001				
	SATREAL	C 001				
	SATREFRESH	C 001				
13	SATSPool	C 001				
	SATSSSN	C 001				
	SATSYSTEM	C 001				
14	SATTSKID	C 001				
	SATTUBS	C 001				
	SATTUBS1	C 001				
15	SFNDDADR	C 001				
	SFNDDATT	C 001				
16	SFNDDAT1	C 001				
	SFNDDAT2	C 001				
	SFNDDAT3	C 001				
	SFNDDCOM	C 001				
17	SFNDDCRS	C 001				
	SFNDDF1A	C 001				
	SFNDDF1F	C 001				
18	SFNDDLBA	C 001				
	SFNDDLK	C 001				
	SFNDDMRT	C 001				
19	SFNDDNAB	C 001				
	SFNDDNBS	C 001				
20	SFNDDNST	C 001				

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ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	

16	TUBKKB0 C 001 0040 3578	
	TUBKPNTR C 001 0080 3630	
	TUBLEN C 001 0060 3599	
	TUBLTOER C 001 0004 3485	
	TUBLTOFR C 001 0002 3401	
17	TUBLTDFR C 001 0002 3486	
	TUBLTDS C 001 0002 3445	
	TUBLOP C 001 0020 3452	
18	TUBLTOFF C 001 0040 3492	
	TUBMBOCF C 001 0010 3464	
	TUBMCHD C 001 0020 3416	
19	TUBMCN C 001 0080 3395	3938
	TUBMCNSL C 001 0040 3414	
	TUBMCOU C 001 0004 3569	
20		

16	TUBPLPI C 001 0030 3622	3628
	TUBPKPP C 001 002E 3612	3613
	TUBPRESV C 001 0027 3608	3609
	TUBPRT C 001 0080 3549	
17	TUBPSUBC C 001 0031 3626	3627
	TUBQHDR C 001 0015 3341	3343
	TUBRAMER C 001 0001 3597	
18	TUBRCBK C 001 0004 3554	
	TUBRCNCL C 001 0083 3198	
	TUBRDMOD C 001 0001 3571	
19	TUBROYIP C 001 0001 3487	
	TUBROYPD C 001 0001 3512	
20	TUBREADY C 001 0008 3484	

G03

11/81 12/08/81 02:16	
46970000	
46980000	
46990000	
47000000	
47010000	
47020000	
47030000	
47040000	
47050000	

01	CROSS-REFERENCE					PAGE 96 V09/11/81 12/08/81 02:16
02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
03	\$ATACHER	C	001	0001	4531	
	\$ATBATCH	C	001	0090	4517	
	\$ATCOMDN	C	001	0040	4525	
04	\$ATCREAT	C	001	0080	4504	4515 4516 4517
	\$ATDATA	C	001	0008	4510	4515
	\$ATDATA0	C	001	0018	4533	3972* 4534
05	\$ATERRO1	C	001	0001	4540	
	\$ATERRO2	C	001	0002	4541	
	\$ATERRO3	C	001	0003	4543	
06	\$ATERRO4	C	001	0004	4546	
	\$ATERRO5	C	001	0005	4547	
	\$ATERRO6	C	001	0006	4548	
	\$ATERRO7	C	001	0007	4549	
07	\$ATFLAG	C	001	000C	4503	4240* 4518
	\$ATFLAG1	C	001	0015	4523	4532
	\$ATFRPRM	C	001	0001	4514	
08	\$ATINJC	C	001	0010	4527	
	\$ATINIT	C	001	00EC	4515	
	\$ATJCB0	C	001	0010	4521	4186*
09	\$ATLENG	C	001	0019	4534	3923 3927* 4233 4236 4236*
	\$ATLOAD	C	001	0008	4502	4188* 4503
	\$ATMSS12	C	001	0000	4518	4195* 4218 4519
10	\$ATNCNIQ	C	001	0002	4530	
	\$ATNONAM	C	001	0010	4508	4516 4517
	\$ATNRTUB	C	001	0004	4529	
11	\$ATNSWAP	C	001	0002	4513	
	\$ATPRIOR	C	001	000E	4519	4520
	\$ATPRIV	C	001	0004	4512	4515 4516
12	\$ATQKINT	C	001	0020	4526	
	\$ATREAL	C	001	0040	4505	4240 4515 4516
	\$ATREFRESH	C	001	0080	4524	
13	\$ATSPool	C	001	0004	4516	
	\$ATSSN	C	001	0014	4522	4523
	\$ATSYSTK	C	001	0008	4528	
14	\$ATTSKID	C	001	0016	4532	4533
	\$ATTUB0	C	001	0010	4520	3944* 3949* 3950 3974 4521 4522
	\$ATTUBAS	C	001	0020	4506	4515
15	\$FNDDADR	C	001	0002	0174	0176
	\$FNDDATT	C	001	000C	0195	0196 0197 0198 0199
	\$FNDDATI	C	001	000A	0196	
16	\$FNDDAT2	C	001	0008	0197	
	\$FNDDAT3	C	001	000C	0198	
	\$FNDDCOM	C	001	0011	0208	0211
17	\$FNDDCRS	C	001	0009	0194	0195 4191*
	\$FNDDF1A	C	001	0008	0171	
	\$FNDDF1F	C	001	0007	0182	
18	\$FNDDLDA	C	001	0008	0190	4188 4237*
	\$FNDDLK	C	001	0005	0179	0181 0182 4237
	\$FNDDMRT	C	001	0000	0199	0201
19	\$FNDDNMB	C	001	0008	0155	0157 4155* 4169
	\$FNDDNDS	C	001	0003	0176	0179 0180
20	\$FNDDNST	C	001	0005	0180	

01						
02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
03	\$FNDDOPR	C	001	0009	0157	0158
	\$FNDDREL	C	001	000E	0201	0202
	\$FNDDRDL	C	001	0008	0184	0185
04	\$FNDDSCT	C	001	0007	0181	0182
	\$FNDDTNS	C	001	0009	0189	0190
	\$FNDDTOT	C	001	0010	0202	0203
	\$FNDDTYP	C	001	0000	0150	0151
05	\$FNLEN	C	001	0012	0211	4186*
	\$FNMLDR	C	001	0040	0160	
	\$FNMLD8	C	001	0008	0151	
06	\$FNMQ	C	001	0004	0169	
	\$FNMPRC	C	001	0001	0154	
	\$FNMPR1	C	001	0008	0166	
07	\$FNMSB8	C	001	0004	0152	
	\$FNMSRC	C	001	0002	0153	
	\$FNMSYS	C	001	0080	0209	
08	\$FNMSYS	C	001	0080	0158	
	\$FNMLB	C	001	0010	0164	
	\$FNMLSE	C	001	0020	0162	
09	\$FNMLSR	C	001	0040	0210	
	#	C	001	0000	0104	
	##	C	001	0000	0105	
10	a	C	001	0002	0106	
	ACEND	C	001	0020	0475	
	ACERR	C	001	001E	0473	
11	ACMSG	C	001	001C	0471	
	ACRESUM	C	001	001F	0474	
	ACDUPTE	C	001	0021	0476	
12	ACECHAIN	C	001	0001	0223	0224
	ACECPERR	C	001	0010	0235	
	ACECSCL	C	001	0000	0231	
13	ACEIAR	C	001	0003	0224	0225
	ACEINUSE	C	001	0008	0237	
	ACEIOCHN	C	001	0020	0233	
14	ACELEN	C	001	0010	0245	
	ACELOG	C	001	0010	0234	
	ACENB	C	001	0005	0225	0226
15	ACEPRSK	C	001	00FE	0241	
	ACEPSCL	C	001	0080	0230	
	ACEPRATT	C	001	0008	0236	
16	ACEPRM1	C	001	0006	0226	0227
	ACEPRM2	C	001	0007	0227	0228
	ACEPRM3	C	001	0008	0228	0229
17	ACEPRIV	C	001	0040	0232	
	ACEQUES	C	001	0001	0240	
	ACETCB0	C	001	000F	0244	0245
18	ACETYPE	C	001	0009	0229	0230
	ACEXLOFF	C	001	0004	0239	
	ACEXRT	C	001	0008	0242	0243
19	ACEXRT	C	001	0000	0243	0244
	ADACTIVE	C	001	0004	0809	
20	ADACTPRQ	C	001	0001	1034	

F03

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29540000	
29550000	
29570000	
29590000	
29610000	

01	MISCPR MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION					PAGE 60 V09/11/81 12/08/81 02:16
02	ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	
			00C	3007	T0CB0NCPD EQU X'20" 3 OPTION CANCEL PENDING 30080000	
			00D0	3008	T0CB0NBTM EQU X'30" TASK IS IN ABNORMAL TERMINATION 30090000	
			0008	3009	T0CB0NAPL EQU X'08" 2 OPTION-FLUSH PROC 30100000	
03			0004	3010	T0CB0NSTAB EQU X'04" 2 OPTION-CONTINUE PROC 30110000	
			0002	3011	T0CB0NEID EQU X'02" TAKE ASYNC EXIT ON ERROR ONLY 30120000	
			0001	3012	T0CB0KO EQU X'01" DISKETTE CURRENT HAS BEEN PROCESSED 30130000	
04			0070	3014	T0CB0NCT EQU T0CB0STAT+1 ALLOCATED WORK STATION COUNT 30150000	

01	ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT
02					
03					
04					



16	TUBPMP C 001 002E 3612 3613
	TUBPRESV C 001 0027 3608 3609
	TUBPRT C 001 0080 3549
17	TUBPSUBC C 001 0031 3626 3627
	TUBQHDR C 001 0015 3341 3343
	TUBRAMER C 001 0001 3597
18	TUBRCBK C 001 0004 3554
	TUBRCNCL C 001 0083 3198
	TUBRMDD C 001 0001 3571
19	TUBRDYIP C 001 0001 3487
	TUBRDYPD C 001 0001 3512
	TUBREADY C 001 0008 3484
20	

16	TUBTCB C 001 0024
	TUBTSRQ C 001 0008
17	TUBTUB C 001 0034
	TUBUNITA C 001 0005
	TUBUSER C 001 002F
18	TUBUSSV C 001 0040
	TUBUSUP C 001 0080
	TUBUSTD C 001 0020
19	TUBUSHA C 001 0022
	TUBOILGJ C 001 0080
	TUBORMFL C 001 0020
20	

G04

CROSS-REFERENCE						
01	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
02	\$FNDOOPR	C	001	0009	0157	0171
03	\$FNDOREL	C	001	000E	0201	0202
	\$FNDORLD	C	001	0008	0184	0189 0194
	\$FNDOSET	C	001	0007	0181	0184
04	\$FNDDTNS	C	001	0009	0189	0190
	\$FNDDTOT	C	001	0010	0202	0208 4175
	\$FNDDTYP	C	001	0000	0150	0155 0174
05	\$FNMLEN	C	001	0012	0211	4167 4167* 4206 4206*
	\$FNMLDR	C	001	0040	0160	
	\$FNMLDB	C	001	0008	0151	
06	\$FNMMQ	C	001	0004	0169	
	\$FNMPRC	C	001	0001	0154	
	\$FNMPRF1	C	001	0008	0166	
07	\$FNMSB8	C	001	0004	0152	
	\$FNMSRC	C	001	0002	0153	
	\$FNMSYR	C	001	0080	0209	
08	\$FNMSYS	C	001	0080	0158	
	\$FNMLUB	C	001	0010	0164	
	\$FNMLUSE	C	001	0020	0162	
09	\$FNMLUSR	C	001	0040	0210	
	#	C	001	0000	0104	
	#	C	001	0000	0105	
10	a	C	001	0002	0106	
	ACDEND	C	001	0020	0475	
	ACDERR	C	001	001E	0473	
11	ACDMSG	C	001	001C	0471	
	ACDRESUM	C	001	001F	0474	
	ACDUPDTE	C	001	0021	0476	
12	ACECHAIN	C	001	0001	0223	0224
	ACECPERR	C	001	0010	0235	
	ACECSCL	C	001	0000	0231	
13	ACEIAR	C	001	0003	0224	0225
	ACEINUSE	C	001	0008	0237	
	ACEIOCHN	C	001	0020	0233	
14	ACELEN	C	001	0010	0245	
	ACELOG	C	001	0010	0234	
	ACEMAB	C	001	0005	0225	0226
15	ACEMASK	C	001	00FE	0241	
	ACEMSCL	C	001	0080	0230	
	ACEMATT	C	001	0008	0236	
16	ACEPARAM1	C	001	0006	0226	0227
	ACEPARAM2	C	001	0007	0227	0228
	ACEPARAM3	C	001	0008	0228	0229
17	ACEPRIV	C	001	0040	0232	
	ACEQUIES	C	001	0001	0240	
	ACETCBA	C	001	000F	0244	0245
18	ACETYPE	C	001	0009	0229	0242
	ACEXLOFF	C	001	0004	0239	
	ACEXR1	C	001	0008	0242	0243
19	ACEXR2	C	001	0000	0243	0244
	ADACTIVE	C	001	0004	0809	
20	ADDCMPRQ	C	001	0001	1034	

F04

#MISPR #MISPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION									
01	ERR	LOC	OBJECT	CODE	ADDR	STAT	SOURCE	STATEMENT	
02					007E 3062	TCBSTAT7	EQU	TCB#+1	TCB STATUS BYTE 7
					3063 *				
03					0080 3064	TCBSPWR	EQU	X"80"	SPOOL WRITER ID
					0040 3065	TCBSPURS	EQU	X"40"	SPOOL TERMINATION
04					0080 3067	TCBLEN	EQU	TCBSTAT7+2	LENGTH OF TCB + EXPANSION.
					3068 ***	END OF EXPANSION	***		
					3069 *	TUB			
05					3070				

30080000	
30090000	
30100000	
30110000	
30120000	
30130000	
30150000	
30160000	
30170000	

01	ERR	LOC	OBJECT	CODE
02				
03				
04				
05				

16	TUBTCB	C	001	0024	3373	3375	
	TUBTCB	C	001	0011	3325	3331	
	TUBTSRQ	C	001	0008	3399		
17	TUBTUB	C	001	0034	3391	3393 3949	
	TUBUNITa	C	001	0005	3214	3215	
	TUBUSER	C	001	002F	3388	3389	
18	TUBUSSV	C	001	0040	3462		
	TUBUSUP	C	001	0080	3461		
	TUBUSTD	C	001	0020	3370	3371 4224	
19	TUBUSMA	C	001	0022	3371	3372	
	TUBOILGJ	C	001	0080	3589		
	TUBORNFL	C	001	0020	3591		
20							

605

CROSS-REFERENCE						
02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
03	ADCFIND	C	001	0002	1033	
	ADCMATCH	C	001	0010	1030	1037
	ADCREAL	C	001	0040	1028	1037
04	ADCRESET	C	001	00FC	1037	
	ADCTASK	C	001	0080	1027	1037
	ADCTBF	C	001	0004	1032	1037
	ADCTBN	C	001	0008	1031	1037
05	ADCVERFY	C	001	0020	1029	1037
	ADEXIT	C	001	0080	0803	
	ADINQRY	C	001	0020	0805	
06	ADITRND	C	001	0002	0810	
	ADRSTMP	C	001	0020	0819	
	ADSC0960	C	001	0040	0818	
07	ADSTOPN	C	001	0080	0817	
	ADSTPRD	C	001	0001	0811	
	ADSTPTSK	C	001	0010	0822	
08	ADSYSDP	C	001	0040	0804	
	ADTRACE	C	001	0010	0806	
	ADWAITG	C	001	0008	0808	
09	ADFINPRG	C	001	0040	0854	
	ALLBIT	C	001	00FF	0128	
	ARR	C	001	0008	0099	
10	ASGNERR	C	001	0080	0853	
	ASGNFAIL	C	001	0080	0885	
	ASGNPAGE	C	001	0010	0856	
11	ASGNTRY	C	001	000F	0858	
	ASGNSEQ	C	001	0020	0855	
	ASGNATR	C	001	0008	0857	
12	ASSIGN	C	001	00C1	0493	
	AUTOSTAT	C	001	0012	0461	
	BATCOUNT	C	001	0005	3037	
13	BIT0	C	001	0080	0129	
	BIT1	C	001	0040	0130	
	BIT2	C	001	0020	0131	
14	BIT3	C	001	0010	0132	
	BIT4	C	001	0008	0133	
	BIT5	C	001	0004	0134	
15	BIT6	C	001	0002	0135	
	BIT7	C	001	0001	0136	
	BLANK	C	001	0040	0308	3462
16	BLKJOB	C	001	0006	0448	
	CANCEL	C	001	00C3	0487	
	CHANGE	C	001	00C7	0494	
17	CLNPRG	C	001	0022	0477	
	CNCICALL	C	001	0027	0482	
	CNCICBC	C	001	0001	0520	
18	CNCICDB	C	001	0020	0529	4633
	CNCICDP	C	001	0040	0508	
	CNCICFL	C	001	0004	0536	4631
19	CNCICLN	C	001	0006	0540	
	CNCICLB	C	001	0010	0512	4631
20	CNCICND	C	001	0028	0537	0546 0547 0548

605

MVS/CP - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION								
01	ERRR	LOC	OBJECT	CODE	ADDR	STRT	SOURCE	STATEMENT
02					3112			*****
					3113			*****
					3114			*****
03					3115			*****
					3116			*****
					3117			*****
04					3118			*****
					3119			*****
					3120			*****
05					3121			*****

30630000
30640000
30650000
30660000
30680000
30690000
30700000
30710000

16	TWALOAD	C	001	0000	3375		
	TWALPUT	C	001	0000	3375		
17	TWAREAL	C	001	0000	3375		
	TWASYS	C	001	0000	3375		
18	TWATWA	C	001	0000	3375		
	TWAXMA	C	001	0000	3375		
	TWAXLATE	C	001	0000	3375		
	TWAXLEN	C	001	0000	3375		
19	TWAXMAP	C	001	0000	3375		
	TWAXMAPL	C	001	0000	3375		
20	TWAXN	C	001	0000	3375		

01	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
03	CYCULEN	C	001	0000	0000	
	CYCULSD	C	001	0000	0000	
	CYCULSUB	C	001	0000	0000	
04	CYCULIN	C	001	0000	0000	
	CYCULIND	C	001	0000	0000	
	CYCULOUT	C	001	0000	0000	
05	CYCULOR	C	001	0000	0000	
	CYCULSTAT	C	001	0000	0000	
	CYCULS	C	001	0000	0000	
06	CYCULS1	C	001	0000	0000	
	CYCULS2	C	001	0000	0000	
	CYCS	C	001	0000	0000	
07	CYCLINQ	C	001	0000	0000	
	CYCLSVC	C	001	0000	0000	
	CYPCB	C	001	0000	0000	
08	CYPCU	C	001	0000	0000	
	CYPCODE	C	001	0000	0000	
	CYPIREL	C	001	0000	0000	
09	CYPINER	C	001	0000	0000	
	CYPIOTA	C	001	0000	0000	
	CYPIOTE	C	001	0000	0000	
10	CYPIPER	C	001	0000	0000	
	CYPISTD	C	001	0000	0000	
	CYPICLR	C	001	0000	0000	
11	CYPIOW	C	001	0000	0000	
	CYPIOPM	C	001	0000	0000	
	CYPIOPN	C	001	0000	0000	
12	CYPIOPT	C	001	0000	0000	
	CYPIOSTR	C	001	0000	0000	
	CYPIOSAE	C	001	0000	0000	
13	CYPIOSIN	C	001	0000	0000	
	CYPIOSIN	C	001	0000	0000	
	CYPIOSIN	C	001	0000	0000	
14	CYPIODLL	C	001	0000	0000	
	CYPIODV	C	001	0000	0000	
	CYPIODLL	C	001	0000	0000	
15	CYPIODR1	C	001	0000	0000	
	CYPIODR2	C	001	0000	0000	
	CYPIODR3	C	001	0000	0000	
16	CYPIODR4	C	001	0000	0000	
	CYPIODR5	C	001	0000	0000	
	CYPIODR6	C	001	0000	0000	
17	CYPIODR7	C	001	0000	0000	
	CYPIODR8	C	001	0000	0000	
	CYPIODR9	C	001	0000	0000	
18	CYPIODR10	C	001	0000	0000	
	CYPIODR11	C	001	0000	0000	
19	CYPIODR12	C	001	0000	0000	
	CYPIODR13	C	001	0000	0000	
20	CYPIODR14	C	001	0000	0000	

16	TWALOAD	C 001	0000	3650	
	TWAPUT	C 001	0001	3649	
17	TWAREAL	C 001	0040	3654	
	TWASYS	C 001	0002	3651	
	TWATWA	C 001	0000	3653	
18	TWANISWA	C 001	0004	3652	
	TWAXLATE	C 001	0000	3655	
	TWAXLEN	C 001	0008	3712	
19	TWAXMAP	C 001	0002	3707	3709
	TWAXMAPL	C 001	0003	3708	
	TWAXN	C 001	0007	3711	3712
20					

16	WDNEOJ	C 001	00E8	0375	
	WDNGRP	C 001	0020	0369	
17	WDNGRPG	C 001	0021	0371	
	WDNGRPI	C 001	0025	0370	
	WDNOJ	C 001	0004	0333	
18	WDOPC	C 001	0003	0328	
	WDOPM	C 001	0002	0311	
	WDOUTL	C 001	0005	0382	
19	WDQVR	C 001	0040	0314	
	WDPEC	C 001	0042	0360	
	WDPEF	C 001	0022	0361	
20					

G06

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CROSS-REFERENCE					
02	SYMBOL	T	LEN	VALUE	DEFN REFERENCES
03	CMCMUIC	C	001	0027	0523 0524 4335* 4634
	CMCMULEN	C	001	0028	0536
	CMCMUSDA	C	001	002A	0539 4340*
04	CMCMUSUB	C	001	0002	0518
	CMCMUNIN	C	001	0080	0525
	CMCMUNDIO	C	001	0040	0527
	CMCUCOUT	C	001	0080	0506 4631
05	CMCUCROL	C	001	0020	0510 4631
	CMCUSTAT	C	001	0010	0531
	CMCUSMS	C	001	0008	0514 4631
06	CMCUSW1	C	001	0025	0504 0523 4630
	CMCUSW2	C	001	0028	0524 0536 0537 0539 4632
	CNRS	C	001	000A	0453
07	CNCLINQ	C	001	0008	0454
	CNCLSVC	C	001	001D	0472
	CPATCB	C	001	00FE	0606 0607
08	CPMCMU	C	001	0025	0503 0504 0540 4335* 4630 4632 4634
	CPCODE	C	001	0024	0441 0503
	CPFIREL	C	001	007D	0584 0585
09	CPFIRER	C	001	007F	0585 0592
	CPINPDTA	C	001	0080	0594 0595 0597 3966* 3968* 3970
	CPINPDE	C	001	00F7	0595 0596 3962* 3964 3964*
10	CPINPEND	C	001	00F8	0597
	CPINPSTD	C	001	00FA	0596 0605
	CPTOCLR	C	001	00F0	0557
11	CPTOINW	C	001	0020	0545
	CPTOPMNI	C	001	002B	0556
	CPTOPTNT	C	001	0000	0567
12	CPTOPUT	C	001	0008	0548
	CPTORSTR	C	001	0040	0540
	CPTOSINE	C	001	0080	0558
13	CPTOSIN	C	001	0060	0559
	CPTOSINW	C	001	0010	0566
	CPTOUMF	C	001	0004	0549
14	CPTOULL	C	001	0025	0480
	CPVRTV	C	001	000F	0422
	CPONCALL	C	001	0026	0481
15	CPOPMIR1	C	001	0019	0430 0431
	CPOPMIR2	C	001	001C	0432 0433
	CPOPMIR3	C	001	001F	0434 0435
16	CPOPMIR4	C	001	0022	0436 0437 0439
	CPOPCNT	C	001	0023	0439 0441
	CPOPLIR1	C	001	0017	0429 0430
17	CPOPLIR2	C	001	001A	0431 0432
	CPOPLIR3	C	001	001D	0433 0434
	CPOPLIR4	C	001	0020	0435 0436
18	CPOPIS	C	001	0022	0437
	CPRESV	C	001	00FF	0807
	CPSSMFA	C	001	00FA	0598
19	CPTRB	C	001	00FC	0805 0806 3968*
	CPTRK	C	001	0080	0269 0425
	CPTRKEND	C	001	00FF	0270
20					

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MISCPR - MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION			
02	ADDR	SYMT	SOURCE STATEMENT
02	3142	**	*****
	3143	**	TERMINAL UNIT BLOCK (TEUB)
	3144	**	*****
03			
04	3146	**	*****
	3147	**	COMMON SECTION OF THE TUB
	3148	**	*****
05			
	3150	**	*****

MISCPR - MISCPR - MAIN 3

02	ADDR	SYMT	SOURCE STATEMENT
02	3143	**	*****
03			
04	3147	**	*****
	3148	**	*****
05			
	3150	**	*****

16	WDNEOS	C 001 00E8	0376	
	WDNGRP	C 001 0020	0369	
17	WDNGRPG	C 001 0021	0371	
	WDNGRPI	C 001 0025	0370	
	WDNOM	C 001 0004	0333 0334 0335	
18	WDOPC	C 001 0003	0328 0382	
	WDOPM	C 001 0002	0311 0328	
	WDOUPL	C 001 0005	0382 0383	
19	WDOVR	C 001 0040	0314	
	WDOPEC	C 001 0042	0360	
20	WDOPEF	C 001 0022	0361	

	WDRSTP	C 001 0044	0300	
	WDRSTD	C 001 0006	0289	
	WDRSTP	C 001 0002	0288	
17	WDRSTR	C 001 0002	0324	
	WDRTC	C 001 0001	0284 0311	
	WDRTG	C 001 0021	0350	
18	WDRTI	C 001 0025	0351	
	WDRUP	C 001 0080	0403	
	WDRUPD	C 001 000E	0401 0407	
19	WDSACQ	C 001 0099	0339	
	WDSAVE	C 001 0004	0322	
20	WDSLNE	C 001 0010	0408 0409	

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CROSS-REFERENCE				
SYMBOL	T	LEN	VALUE	DEFN REFERENCES
01				
02				
03	CPWRKL	C 001	0028 0547	0556
	CPWRKR	C 001	007C 0548	0584
	CPUSDM	C 001	0016 0415	0429
04	CPUSDMH	C 001	0080 0592	0594
	CSCALL	C 001	0080 2730	
	CXACDUMP	C 001	0019 0640	
	CXADINIT	C 001	0012 0633	
05	CXASGB	C 001	0003 0617	
	CXCONPMT	C 001	0014 0635	
	CXFDAL3	C 001	0007 0622	
06	CXFDERP	C 001	0013 0634	
	CXIOERP	C 001	0004 0619	
	CXLOAD	C 001	0003 0615	
07	CXPRALD	C 001	001C 0643	
	CXPRE	C 001	0016 0637	
	CXSPCK2	C 001	0006 0621	
08	CXNUMB	C 001	0002 0614	
	CXNUMEID	C 001	000C 0627	
	CXNUMLID	C 001	000F 0630	
09	CXNUMCID	C 001	0000 0628	
	CXNUMGETP	C 001	001D 0644	
	CXNUMLID	C 001	0011 0632	
10	CXNUMTOE	C 001	0017 0638	
	CXNUMLX	C 001	0001 0613	
	CXNUMEID	C 001	001E 0645	
11	CXNUMEID	C 001	0018 0642	
	CXNUMPD	C 001	0015 0636	
	CXNUMSLID	C 001	0010 0631	
12	CXNUMSIF	C 001	001A 0641	
	CXNUMTEID	C 001	0008 0626	
	CXNUMLID	C 001	001F 0646	
13	CXNUMEID	C 001	0008 0623	
	CXNUMLID	C 001	0018 0639	
	CXNUMLID	C 001	0020 0647	
14	CXNUMSPL	C 001	0005 0620	
	CXNUMS	C 001	0000 0612	
	CXNUMX	C 001	000A 0625	
15	CXNUMX1	C 001	0009 0624	
	CXNUMX2	C 001	000E 0629	
	CXNUMX3	C 001	0000 1379	
16	CXNUMX4	C 001	0040 0734	
	CXNUMX5	C 001	0080 0731	
	CXNUMX6	C 001	0020 0737	
17	CXNUMX7	C 001	0080 0143	
	CXNUMX8	C 001	0010 0789	
	CXNUMX9	C 001	0004 0791	
18	CXNUMX10	C 001	0001 0793	
	CXNUMX11	C 001	0008 0790	
	CXNUMX12	C 001	0002 0792	
19	CXNUMX13	C 001	0040 0787	
	CXNUMX14	C 001	0002 0802	
20	CXNUMX15	A 001	0008 3911 3904	

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ERRR	LOC	OBJECT CODE	ADDR	SYMT	SOURCE	STATEMENT
01						
02						
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16	XR2	C 001 0002 0097	3837* 3839 3839* 3841 3879* 3929* 3933 3933* 3935 3938 3941 3944 3949 3954 3958* 3960 3962 3964 3964 3966 3968 3970 3970* 3972 3974* 3976 3978 3984 3984* 3989 4061* 4063 4066 4069 4083 4092 4125 4129 4149 4152 4165* 4167 4169 4169 4175 4186 4188 4191 4206 4206 4208 4210 4212 4214 4216 4216 4218 4220 4220 4224 4238 4278 4325* 4335 4338* 4340 4429 4430
17			
18	X00	A 002 0BA8 4611	3986 4111 4115 4383
	X000	A 003 0BA7 4607	
	X001	A 003 0BA9 4609	
19	X01	A 002 0BA9 4613	
	X1	A 001 0BA9 4615	4195 4257 4261 4370
20	X100	A 002 0BAA 4617	

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CROSS-REFERENCE				
02	SYMBOL	T LEN	VALUE	DEFN REFERENCES
03	D1HPCSDA	C 001	0060	0962 0973
	D1HPCSTK	C 001	0061	0973 0974
	D1HPSTK	C 001	0062	0974 0976
04	D1IAR	C 001	0059	0951 0952
	D1IARS	C 001	0043	0915 0916
	D1ILSPCR	C 001	005F	0961 0962
	D1ILSMRK	C 001	0041	0913 0914
05	D1INDR1	C 001	0010	0725 0726 0754
	D1INL12	C 001	005C	0954 0955
	D1INL34	C 001	0050	0955 0960
06	D1IPI0BA	C 001	0039	0896 0897 0898
	D1IOLDAR	C 001	0000	0707 0712
	D1LATRA	C 001	0014	0757 0758
07	D1LDACEA	C 001	0046	0918 0919
	D1LDIDBA	C 001	0034	0881
	D1LDLTK	C 001	001F	0774 0775
08	D1LDLOAD	C 001	0022	0777 0779
	D1LDRTOT	C 001	0021	0776 0777
	D1LDSN	C 001	001E	0773 0774
09	D1LDSS	C 001	001D	0772 0773
	D1LDSTRT	C 001	0020	0775 0776
	D1LDTCBA	C 001	0048	0921
10	D1LOGLIM	C 001	004A	0925 0926
	D1LOGPT	C 001	0049	0922 0925
	D1LOGSIZ	C 001	0051	0938 0939
11	D1LOGSS	C 001	0050	0937 0938
	D1LOGSSH	C 001	004F	0934 0937
	D1LOGUSD	C 001	0052	0939 0940
12	D1PWTQE	C 001	0031	0874 0875
	D1PI0BA	C 001	0034	0877 0878 0879 0880 0881 0882
	D1PSATRS	C 001	002C	0869 0870
13	D1PSIZE	C 001	000F	0720 0725
	D1PWACEA	C 001	0033	0876 0877
	D1PKI0BA	C 001	0034	0880
14	D1PWRPT	C 001	002E	0871 0872
	D1NRDNT0	C 001	0000	0687 0688 0696
	D1NRDNT1	C 001	0001	0688 0689
15	D1NRDNT2	C 001	0002	0689 0690
	D1NRDNT3	C 001	0003	0690 0691
	D1NRDNT4	C 001	0004	0691 0692
	D1NRDNT5	C 001	0005	0692 0693
	D1NRDNT6	C 001	0006	0693 0694
	D1NRDNT7	C 001	0007	0694 0702
17	D1PCFULL	C 001	0080	0718
	D1PWPSCR	C 001	005A	0952 0953
	D1PREVIB	C 001	0055	0943
18	D1QSNARE	C 001	0038	0895 0896
	D1QSNARE	C 001	004E	0829 0934
	D1QSNARE	C 001	003F	0907 0908
19	D1RINCS	C 001	0060	1002 1004
	D1RINCS	C 001	006C	1001 1002
20	D1RINCPTR	C 001	0015	0758 0759

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MISCPR MISCPR - MAIN STORAGE I/O - COMMAND PROCESSOR FUNCTION				
02	ERR LOC OBJECT CODE	ADDR	SYMT	SOURCE STATEMENT
02	32500000	0006	3300B	TURBOONK EQU 'X'06" . READ ISSUED TO UNLOCKED KEYBOARD ERROR
	32510000	0007	3300A	TURBOOFF EQU 'X'07" . WS IS POWERED OFF
03	32520000	33005 *		EQU 'X'08" . RESERVED
	32530000	33006 *		EQU 'X'09" . SAVE OR RESTORE ERROR
04	32540000	33008 *		GROUP 4 - OPERATION CHECK ERRORS
	32560000	33009 *		( REFERENCE TURBOWSD BIT4 )
	32570000			

MISCPR MISCPR - MAIN ST

02	ERR LOC OBJECT CODE	ADDR	SYMT	SOURCE STATEMENT
02				
03				
04				





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END OF CHANGE FLAG REASONS

CROSS-REFERENCE						
02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
03	ECMTMR	C	001	0023	1053	
03	ECMTTC	C	001	0020	1050	4021
04	ERBAPO	C	001	0008	1143	
04	ERBAOP1	C	001	0004	1144	
04	ERBAOP2	C	001	0002	1145	
05	ERBAOP3	C	001	0001	1146	
05	ERBBUSY	C	001	0080	1084	
06	ERBCONE	C	001	0040	1085	
06	ERBCELOG	C	001	0001	1127	
06	ERBDACE	C	001	0008	1150	1151
07	ERBDCHN	C	001	0001	1073	1075
07	ERBDPCA	C	001	0006	1130	1131 1135
07	ERBDCTL	C	001	0004	1083	1103
08	ERBDVTI	C	001	0002	1075	1081
08	ERBDERA	C	001	0006	1131	
08	ERBDFLG	C	001	0005	1103	1130
09	ERBDISK	C	001	0040	1078	
09	ERBDISK1	C	001	0000	1076	
09	ERBDLEN	C	001	000C	1151	
10	ERBDLNI	C	001	000A	1148	
10	ERBDPIC	C	001	0008	1135	1137
10	ERBDONE	C	001	0020	1086	
11	ERBDOPT	C	001	0009	1137	1148 1150
11	ERBDQND	C	001	0003	1081	1083
11	ERBERR2	C	001	0010	1087	
12	ERBGATJ1	C	001	00C3	1077	
12	ERBTOER	C	001	0001	1132	
12	ERBNCTLM	C	001	00F0	1088	
13	ERBNCY	C	001	0006	1094	
13	ERBNERR	C	001	000F	1101	
13	ERBNENC	C	001	0040	1105	
14	ERBNERR	C	001	0002	1118	
14	ERBNRNCY	C	001	0004	1114	
14	ERBNLCA	C	001	0080	1079	
15	ERBNPTC	C	001	0007	1093	
15	ERBNPESG	C	001	0005	1095	
15	ERBNPLOG	C	001	0010	1108	
16	ERBNPWR	C	001	0004	1096	
16	ERBNPNSP	C	001	0020	1107	
16	ERBNPERR	C	001	0001	1119	
17	ERBNPOST	C	001	0008	1113	
17	ERBNPUR	C	001	0003	1097	
17	ERBNPERR	C	001	0003	1117	
18	ERBNPNT	C	001	0000	1133	
18	ERBNPTASK	C	001	0001	1123	
18	ERBNPSP	C	001	00F0	1138	
19	ERBNPSP	C	001	0080	1139	
19	ERBNPSP1	C	001	0040	1140	
19	ERBNPSP2	C	001	0020	1141	
19	ERBNPSP3	C	001	0010	1142	

02	SYMBOL	T	LEN	VALUE	DEFN
03	ERRCNCL	C	001	0017	0466
03	ERRCNCL	C	001	0016	0465
04	ERRROFF	C	001	0014	0463
04	ERRRESM	C	001	0018	0467
04	EXAM	C	001	0004	0839
05	FALSE	C	001	0090	0121
05	FDFAIL	C	001	0040	0886
05	FIFO	C	001	0000	1384
06	FIVE	C	001	0005	0114
06	FND	C	001	000E	0457
06	FOUR	C	001	0004	0113
07	FIADATTR	C	001	0022	1278
07	FIADATT1	C	001	0020	1273
07	FIADATT2	C	001	0023	1293
08	FIADBLKN	C	001	0012	1219
08	FIADCONT	C	001	0021	1276
08	FIADDATE	C	001	0008	1168
09	FIADDFLG	C	001	0000	1161
09	FIADDFQ	C	001	0027	1303
10	FIADFCM	C	001	001F	1271
10	FIADHIGH	C	001	0010	1216
10	FIADHOKY	C	001	0039	1327
11	FIADKBRK	C	001	0038	1338
11	FIADKEYL	C	001	0028	1317
11	FIADKEYO	C	001	002A	1319
12	FIADLABL	C	001	0008	1164
12	FIADLBOW	C	001	0011	1222
12	FIADLBS	C	001	0012	1224
13	FIADLSTK	C	001	002E	1321
13	FIADLSTP	C	001	0035	1325
13	FIADLSTR	C	001	0015	1226
14	FIADLWR	C	001	0025	1302
14	FIADPCBC	C	001	0030	1340
14	FIADRECL	C	001	000F	1214
15	FIADRECN	C	001	0012	1220
15	FIADRES3	C	001	003F	1341
16	FIADRFST	C	001	0015	1230
16	FIADSDIR	C	001	0008	1170
17	FIADSFGL	C	001	0000	1182
17	FIADSHEN	C	001	0015	1228
17	FIADSTDA	C	001	0018	1233
17	FIADSTIX	C	001	0031	1323
18	FIADTYPE	C	001	000C	1172
18	FIADVTC	C	001	0010	1237
19	FIALLGCD	C	001	0028	1343
19	FIALLGLB	C	001	0040	1346
19	FIALLLVA	C	001	001E	1262
20	FIALLZVTA	C	001	0012	1329

02	ERR LLOC	OBJECT CODE	ADDR	SYMT	SOURCE	STATEMENT
02			3407 *		TERMINAL MODE INDICATORS	*
03			3408 *		TERMINAL IN STANDBY MODE	*
03			3409 *		TERMINAL IN INITIAL MODE	*
03			3410 *		TERMINAL IN DATA MODE	*
03			3411 *		TERMINAL IN INTERRUPT MODE	*
04			3412		TERMINAL IN STANDBY MODE (CON)	
04			0040 3413		TERMINAL IN CONSOLE MODE (CON)	
04			0040 3414		TERMINAL IN CONSOLE MODE (OFF)	

02	ERR LLOC	OBJECT CODE	ADDR	SYMT	SOURCE	STATEMENT
02						
03						
04						

CROSS-REFERENCE					
02	SYMBOL	T	LEN	VALUE	DEFN REFERENCES
01	ERBTMID	C	001	0480	1104
03	ERRCNCL	C	001	0017	0466
	ERRCNCL	C	001	0016	0465
	ERROFF	C	001	0014	0463
04	ERRRESM	C	001	0018	0467
	EXAM	C	001	0004	0839
	FALSE	C	001	0090	0121
05	FDFAIL	C	001	0040	0886
	FIFO	C	001	0000	1384 1386
	FIVE	C	001	0005	0114
06	FND	C	001	000E	0457
	FOUR	C	001	0004	0113
	FIADATTR	C	001	0022	1278 1293
07	FIADATT1	C	001	0020	1273 1276
	FIADATT2	C	001	0023	1293 1302
	FIADBLKN	C	001	0012	1219
08	FIADCONT	C	001	0021	1276 1278
	FIADDATE	C	001	0008	1168 1170 1172
	FIADDFLG	C	001	0000	1161 1164
09	FIADDFQ	C	001	0027	1303 1305 1317 1329 1343 1372
	FIADENDA	C	001	0018	1235 1237
	FIADFCN	C	001	001F	1271 1273 1348
10	FIADHIGH	C	001	0010	1216
	FIADHOKY	C	001	0039	1327 1329 1338
	FIADIBKT	C	001	0038	1338 1340
11	FIADKEYL	C	001	0028	1317 1319
	FIADKEYD	C	001	002A	1319 1321
	FIADLABL	C	001	0008	1164 1168
12	FIADLBNW	C	001	0011	1222 1224
	FIADLBUS	C	001	0012	1224 4257*
	FIADLSTK	C	001	002E	1321 1323
13	FIADLSTP	C	001	0035	1325 1327
	FIADLSTR	C	001	0015	1226 1228 1230 1233
	FIADLNR	C	001	0025	1302 1303
14	FIADPCBQ	C	001	0030	1340 1341
	FIADRECL	C	001	000F	1214 1216 1219 1220 1222
	FIADRECN	C	001	0012	1220 1226
15	FIADRES3	C	001	003F	1341 1346
	FIADRFED	C	001	0027	1305
	FIADRFST	C	001	0015	1230
16	FIADSDIR	C	001	0008	1170
	FIADSFGL	C	001	0000	1182 1214
	FIADSPEN	C	001	0015	1228
17	FIADSTDA	C	001	0018	1233 1235
	FIADSTIX	C	001	0031	1323 1325
	FIADTYPE	C	001	000C	1172 1182
18	FIADVTOC	C	001	0010	1237 1262 1271 1366
	FIALLGCD	C	001	0028	1343
	FIALLGEM	C	001	0040	1346
19	FIALLGLB	C	001	0020	1348
	FIALLIWA	C	001	001E	1262
20	FIALLZWA	C	001	0012	1329

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MISCPR - MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION					
02	ERRR LLOC	OBJECT	CODE	ADDR	STMT SOURCE STATEMENT
02				0000 3462	TURBUSUP EQU *'00' .. USER DISPLAY IS UP 34620000
				0040 3462	TURBESSN EQU *'40' .. USER DISPLAY SAVED 34630000
				0020 3463	TURBSYLSL EQU *'20' .. SYSLIST DISPLAY UP 34640000
03				0010 3464	TURBIDUC EQU *'10' .. BROADCAST FAILURE 34650000
				0008 3465	TURBIDFR EQU *'08' .. WRT PROC WITH DATA ENTERED 34660000
				0004 3466	TURBSPLK EQU *'04' .. SAVE/RESTORE INTERLOCK 34670000
04				0002 3467	TURBPND EQU *'02' .. HELP FUNCTION PENDING 34680000
				0001 3468	TURBEBLK EQU *'01' .. KEYBOARD UNLOCKED 34690000

CROSS-REFERENCE						
02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
01						
03	FIAMBLRN	C	001	0080	1217	
03	FIAMCKPT	C	001	0040	1297	
03	FIAMCONS	C	001	0040	1174	
04	FIAMDIRC	C	001	0020	1175	
04	FIAMDLC	C	001	0020	1298	
04	FIAMDFG	C	001	0004	1287	
05	FIAMPCK	C	001	0010	1190	
05	FIAMGASK	C	001	0008	1300	
05	FIAMHKAS	C	001	0010	1283	
06	FIAMIFIL	C	001	0010	1299	
06	FIAMINDX	C	001	0080	1173	
06	FIAMINFR	C	001	0020	1281	
07	FIAMJOBR	C	001	0002	1179	
07	FIAMKOPR	C	001	0040	1280	
07	FIAMLBFL	C	001	0001	1212	
08	FIAMLTST	C	001	005C	1162	
08	FIAMPRGE	C	001	0040	1189	
08	FIAMNEW	C	001	0020	1205	
09	FIAMREC	C	001	0008	1285	
09	FIAMDLMV	C	001	0001	1290	
09	FIAMTAD	C	001	0080	1279	
10	FIAMPERM	C	001	0008	1177	
10	FIAMROFL	C	001	0010	1176	
10	FIAMRFIL	C	001	0002	1289	
11	FIAMSCFL	C	001	0080	1296	
11	FIAMSCLB	C	001	0080	1202	
11	FIAMSCRD	C	001	0080	1200	
12	FIAMSCRT	C	001	0001	1180	
12	FIAMSORT	C	001	0080	1188	
12	FIAMSPAL	C	001	0004	1206	
13	FIAMSPAZ	C	001	0002	1207	
13	FIAMSYSF	C	001	0001	1165	
13	FIAMTEMP	C	001	0004	1178	
14	FIAMWALL	C	001	0070	1260	
14	FIAMW1ST	C	001	0010	1255	
14	FIAMW2ND	C	001	0020	1257	
14	FIAMW3RD	C	001	0030	1258	
15	FIAMW4TH	C	001	0040	1259	
15	FIAMWDFG	C	001	0008	1192	
16	FIAMKTND	C	001	0080	1274	
16	FIIFLAG	C	001	001E	1366	1370
16	FINESTRT	C	001	00FF	1368	
17	FISSEND	C	001	0027	1372	
17	FISSTRT	C	001	0021	1370	
17	GETPDRP	C	001	0020	0836	
18	GETPNSIC	C	001	0010	0837	
18	GETPNDIC	C	001	0008	0838	
18	HOLD	C	001	00CB	0495	
19	HPMSGERR	C	001	0080	0963	
19	HPMSSMC	C	001	0010	0966	
19	HPMSSPND	C	001	0001	0970	0971
20	HPMNLTED	C	001	0000	0971	

F13

MSICPR MSICPR - MAIN STORAGE I/O - COMMAND PROCESSOR FUNCTION

ERR LOC OBJECT CODE ADDR STMT SOURCE STATEMENT

02	004A 3515	TUBRPFSS	EDU	TUBRPFSS+2	REJECT FILE - SS	35160000
02	004B 3516	TUBRPFN	EDU	TUBRPFSS+1	REJECT FILE - NUMBER SECTORS	35170000
03	004C 3517	TUBRPFSS	EDU	TUBRPFN+1	REJECT FILE - CURRENT SECTOR	35180000
03	004D 3518	TUBRPFSSP	EDU	TUBRPFSS+1	REJECT FILE - RELATIVE DISPLACEMENT	35190000
				3519 *		35200000
04	004E 3520	TUBRPFSSQ	EDU	TUBRPFSSP+1	FIRST COMMAND KEY MASK BYTE	35210000
04	004F 3521	TUBRPFSS	EDU	'X' '00'	ENABLE COMMAND KEY 8	35220000
04	0040 3522	TUBRPFSS	EDU	'X' '40'	ENABLE COMMAND KEY 7	35230000

ERR LOC OBJECT CODE

02						
03						
04						

CROSS-REFERENCE				
01	02	03	04	05
SYMBOL	T	LEN	VALUE	DEFN
HP125VCA	C	001	0020	0965
HPNOSTRT	C	001	0002	0969
HPNOTBSY	C	001	0008	0967 0971
HPSTART	C	001	0040	0964
HPWAITNG	C	001	0004	0968 0971
TAR	C	001	0010	0100
TARX	C	001	0008	0138 4419 4421
ICAD*2KP	C	001	0002	1495 1497
ICADCHTR	C	001	0005	1499 1509
ICADICDE	C	001	002F	1544 1546
ICADICSV	C	001	002A	1530 1532
ICADLSUB	C	001	0001	1493 1495
ICADRESV	C	001	003F	1554 1556
ICADSI FG	C	001	0030	1546 1550
ICADSI SC	C	001	0032	1550 1552
ICADSI ST	C	001	0034	1552 1554
ICADSSQS	C	001	0004	1497 1499
ICADSSYS	C	001	0000	1491 1493
ICADTRAD	C	001	000E	1516 1518
ICADTRRT	C	001	001E	1528 1530
ICADTRST	C	001	000F	1518 1528
ICADTRSV	C	001	0008	1509 1511
ICADKFLG	C	001	002D	1534 1544
ICADKTCB	C	001	002C	1532 1534
ICAD0001	C	001	000C	1514 1516
ICAD3270	C	001	000A	1511 1514
ICAPLENG	C	001	0040	1556
ICAPLOTR	C	001	0080	1500
ICAPL1TR	C	001	0001	1507
ICAPL2TR	C	001	0002	1506
ICAPL3TR	C	001	0004	1505
ICAPL4TR	C	001	0008	1504
ICAPSDAT	C	001	0080	1547
ICAPDSY	C	001	0080	1535
ICAPDATA	C	001	0020	1537
ICAPDATA	C	001	0040	1536
ICAP3270	C	001	0001	1512
IDDELETE	C	001	0023	0478
ILZASGB	C	001	0001	0618
ILZLWD	C	001	0000	0616
INDOPT1	C	001	001A	0469
IOB	C	001	0001	0101
JCBDFND	C	001	004F	1751 1754
JCBDCCB	C	001	0003	1763 1764
JCBDCIB	C	001	0052	1710 1712
JCBDCILB	C	001	0010	1651 1652
JCBDCSIB	C	001	0045	1747 1749
JCBDCIAG	C	001	002B	1678 1680
JCBDCATE	C	001	0009	1643 1645
JCBDFNG	C	001	0056	1716 1718 4218* 4220
JCBDFIFB	C	001	0054	1712 1714 4216*
JCBDELNG	C	001	0010	1772

MISCPR *MISCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION				
ERRR	LDIC	OBJECT	CODE	ADDR SYMT SOURCE STATEMENT
35160000	0004	35769	TUBDCOUT	EQU X'04' . ENTER HAS BEEN PRESSED AT THE SUBCONS
35170000	0002	35770	TUBDCSUB	EQU X'02' . ASSIGN MDSUB ACTIVATE ON THIS DEVICE
35180000	0001	35771	TUBDFIND	EQU X'01' . PERFORM READ MODIFIED
35190000	0055	35772	TUBDFGTD	EQU TUBATTRA+1 NEXT REPLY TO TD USE AT SUBCONSOLE
35200000	0057	35773	TUBDMATR	EQU TUBDFGTD+2 ADDRESS OF SUBCONSOLE MATRIX
35210000	0056	35775	TUBATPRB	EQU TUBDMATR+1 ATTRIBUTE BYTE 11

01	02	03	04	05
SYMBOL	T	LEN	VALUE	DEFN
JCBDEFSV	C	001	000F	1771
JCBDEXTA	C	001	0031	1684
JCBDFINA	C	001	0050	1708
JCBDFIND	C	001	004C	1702
JCBDFSFB	C	001	0014	1654
JCBDFSBL	C	001	0012	1652
JCBDINIT	C	001	0000	1567
JCBDIANK	C	001	0005	1623
JCBDINT2	C	001	0001	1579
JCBDJBIT	C	001	0047	1698
JCBDJBRG	C	001	0057	1718
JCBDJOBH	C	001	0061	1724
JCBDJQST	C	001	005A	1721
JCBDLANG	C	001	0062	1727
JCBDLCLA	C	001	006F	1752
JCBDLNPG	C	001	0048	1700
JCBDLPI#	C	001	0006	1766
JCBDMENF	C	001	005E	1720
JCBDMENL	C	001	0045	1696
JCBDMENU	C	001	0043	1695
JCBDMFTF	C	001	004E	1706
JCBDPDAT	C	001	000C	1645
JCBDPG1L	C	001	0038	1690
JCBDPG2L	C	001	003D	1691
JCBPLST	C	001	0005	1764
JCBOPR61	C	001	0033	1686
JCBOPR62	C	001	0035	1687
JCBOPR63	C	001	0028	1664
JCBOPR64	C	001	0018	1658
JCBOR65Z	C	001	002A	1676
JCBORTCO	C	001	002F	1682
JCBOSCH1	C	001	0002	1592
JCBOSCH2	C	001	0003	1602
JCBOSCH3	C	001	0004	1613
JCBOSCH4	C	001	0063	1737
JCBOSCH5	C	001	0062	1726
JCBOSLLE	C	001	0040	1704
JCBOSLLR	C	001	0055	1714
JCBOSLOB	C	001	0020	1680
JCBOSLST	C	001	000E	1647
JCBOSPID	C	001	005C	1722
JCBOSRBA	C	001	0001	1762
JCBOSSTAT	C	001	0029	1666
JCBDUPSI	C	001	0006	1633
JCBURELL	C	001	003F	1692
JCBURZL	C	001	0041	1593
JCBUSER	C	001	0060	1749
JCBUSR1	C	001	0037	1688
JCBUSR2	C	001	0039	1689
JCBUSR3	C	001	0016	1656
JCBULPRC	C	001	0020	1660
JCBULNTH	C	001	0070	1754

MISCPR *MISCPR - MAIN STO				
ERRR	LDIC	OBJECT	CODE	ADDR SYMT SOURCE STATEMENT
35160000	0004	35769	TUBDCOUT	EQU X'04' . ENTER HAS BEEN PRESSED AT THE SUBCONS
35170000	0002	35770	TUBDCSUB	EQU X'02' . ASSIGN MDSUB ACTIVATE ON THIS DEVICE
35180000	0001	35771	TUBDFIND	EQU X'01' . PERFORM READ MODIFIED
35190000	0055	35772	TUBDFGTD	EQU TUBATTRA+1 NEXT REPLY TO TD USE AT SUBCONSOLE
35200000	0057	35773	TUBDMATR	EQU TUBDFGTD+2 ADDRESS OF SUBCONSOLE MATRIX
35210000	0056	35775	TUBATPRB	EQU TUBDMATR+1 ATTRIBUTE BYTE 11

CROSS-REFERENCE						
02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
03	JCBDESV	C	001	000F	1771	1772
03	JCBDEXTA	C	001	0031	1684	1686
03	JCBDFINR	C	001	0050	1708	1710
04	JCBDFMND	C	001	004C	1702	1704
04	JCBDFSBF	C	001	0014	1654	1656
04	JCBDFSBL	C	001	0012	1652	1654
05	JCBDINIT	C	001	0000	1567	1579 4208*
05	JCBDINLK	C	001	0005	1623	1633
05	JCBDINTZ	C	001	0001	1579	1592
06	JCBDJBIT	C	001	0047	1698	1700 4224*
06	JCBDJBRG	C	001	0057	1718	1720 1721
06	JCBDJBRN	C	001	0061	1724	1726 4214* 4216
07	JCBDJQST	C	001	005A	1721	1722
07	JCBDLANG	C	001	0062	1727	1737
07	JCBDLCLA	C	001	006F	1752	
08	JCBDLNPG	C	001	0048	1700	1702
08	JCBDLPI#	C	001	0006	1766	1771
08	JCBDMENF	C	001	005E	1720	1724
09	JCBDMENL	C	001	0045	1696	1698
09	JCBDMENU	C	001	0043	1695	1696
09	JCBDMFTF	C	001	004E	1706	1708
10	JCBDPDAT	C	001	000C	1645	1647
10	JCBDPG1L	C	001	0038	1690	1691
10	JCBDPG2L	C	001	0030	1691	1692
11	JCBDPST	C	001	0005	1764	1766
11	JCBDPG1	C	001	0033	1686	1687
11	JCBDPG2	C	001	0035	1687	1688
12	JCBDPROG	C	001	0028	1664	1666 4169* 4238
12	JCBPSPB	C	001	0018	1658	1660
12	JCBPSSZ	C	001	002A	1676	1678 4220*
13	JCBPRTCD	C	001	002F	1682	1684
13	JCBPSC1	C	001	0002	1592	1602
13	JCBPSC2	C	001	0003	1602	1613 4210*
13	JCBPSC3	C	001	0004	1613	1623 4212*
14	JCBPSC4	C	001	0063	1737	1747
14	JCBPSC5	C	001	0062	1726	1727
15	JCBPSC6	C	001	0040	1704	1706
15	JCBPSC7	C	001	0055	1714	1716
15	JCBPSC8	C	001	0020	1680	1682
16	JCBPSC9	C	001	000E	1647	1651
16	JCBPSC10	C	001	005C	1722	
16	JCBPSC11	C	001	0001	1762	1763
17	JCBPSTAT	C	001	0029	1666	1676
17	JCBPST1	C	001	0006	1633	1643 3989*
17	JCBPST2	C	001	003F	1692	1693
18	JCBPST3	C	001	0041	1693	1695
18	JCBPST4	C	001	0060	1749	1751 1752
18	JCBPST5	C	001	0037	1688	1689
19	JCBPST6	C	001	0039	1689	1690
19	JCBPST7	C	001	0016	1656	1658
19	JCBPST8	C	001	0020	1660	1664
20	JCBPST9	C	001	0070	1754	3833 3841 3841* 4119 4142 4147 4147*

MBCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION				
02	ADDR	SYMT	SOURCE	STATEMENT
02	3620	*	EQU	'X'02" . RESERVED
02	3621	*	EQU	'X'01" . RESERVED
03	0080	3622	TUPLELEN	EQU TUPLELEN+1 LENGTH OF A BASIC PRINTER TUB
03	3623			
03	3624	*		PRINTER TUB ADDITION
04	0081	3626	TUBPSUBC	EQU TUBPLEN-1 SUBCONSOLE LOGICAL ID
04	0082	3627	TUBPSUBC	EQU TUBPSUBC-2 PRINTER TO DELIVER COMMANDS

MBCPR - MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION				
02	ADDR	SYMT	SOURCE	STATEMENT
02	3620	*	EQU	'X'02" . RESERVED
02	3621	*	EQU	'X'01" . RESERVED
03	0080	3622	TUPLELEN	EQU TUPLELEN+1 LENGTH OF A BASIC PRINTER TUB
03	3623			
03	3624	*		PRINTER TUB ADDITION
04	0081	3626	TUBPSUBC	EQU TUBPLEN-1 SUBCONSOLE LOGICAL ID
04	0082	3627	TUBPSUBC	EQU TUBPSUBC-2 PRINTER TO DELIVER COMMANDS

CROSS-REFERENCE						
02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
03	JCBMIBCH	C	001	0010	1607	
03	JCBMDEAD	C	001	0008	1597	
03	JCBMKAL	C	001	0020	1626	
04	JCBMDCMD	C	001	0002	1599	
04	JCBMDPRD	C	001	0004	1609	
04	JCBMDSRC	C	001	0001	1621	
05	JCBMEIBA	C	001	0001	1745	
05	JCBMEOMP	C	001	0004	1619	4212
05	JCBMEVPR	C	001	0004	1743	
06	JCBMEXTD	C	001	0001	1674	
06	JCBMFLIS	C	001	0040	1739	
06	JCBMFLUC	C	001	0010	1596	
07	JCBMHIPR	C	001	0030	1582	
07	JCBMICRC	C	001	0008	1608	
07	JCBMINT	C	001	0010	1573	
08	JCBMINDP	C	001	0002	1610	
08	JCBMINTK	C	001	0010	1741	
08	JCBMIPRC	C	001	0008	1586	
09	JCBMLIST	C	001	0020	1730	
09	JCBMLOPR	C	001	0010	1584	
09	JCBMOPR	C	001	0020	1583	
10	JCBMNEXT	C	001	0010	1731	
10	JCBMNPRT	C	001	0008	1574	
10	JCBMNDMT	C	001	0001	1611	4210
11	JCBMNSC	C	001	0004	1575	
11	JCBMNPRT	C	001	0001	1590	
11	JCBMNTER	C	001	0020	1571	
12	JCBMNTRA	C	001	0080	1568	
12	JCBMOPCL	C	001	0080	1603	
12	JCBMPPG15	C	001	0020	1740	
13	JCBMPNEP	C	001	0020	1606	
13	JCBMPRTY	C	001	0040	1604	
13	JCBMPUCL	C	001	0080	1593	
14	JCBMNSP	C	001	0004	1629	
14	JCBMNSVC	C	001	0010	1627	
14	JCBMNSWU	C	001	0008	1628	
15	JCBMNSGN	C	001	0080	1580	
15	JCBMNST	C	001	0010	1617	
15	JCBMNLQ	C	001	0002	1620	
16	JCBMNLCL	C	001	0040	1581	
16	JCBMNSC	C	001	0001	1631	
16	JCBMNSP	C	001	0002	1589	
17	JCBMNTUN	C	001	0020	1595	
17	JCBMNSG	C	001	0040	1569	4208
17	JCBMNSRT	C	001	0008	1618	
18	JCBMNSLT	C	001	0002	1630	
18	JCBMNSGJ	C	001	0080	1614	
18	JCBMNSLG	C	001	0040	1729	
19	JCBMNSLOG	C	001	0080	1624	
19	JCBMNSLOP	C	001	0002	1673	
19	JCBMNSOFF	C	001	0040	1615	
20	JCBMNSPCK	C	001	0002	1744	

02	SYMBOL	T	LEN	VALUE	DEFN	R
03	JCBMSPRT	C	001	0020	1616	
03	JCBMSRAL	C	001	0008	1742	
03	JCBMSYLB	C	001	0080	1728	
04	JCBMSYSN	C	001	0040	1625	
04	JCBMMLK	C	001	0080	1738	
04	JCBMUPS1	C	001	0080	1634	
05	JCBMUPS2	C	001	0040	1635	
05	JCBMUPS3	C	001	0020	1636	
05	JCBMUPS4	C	001	0010	1637	
06	JCBMUPS5	C	001	0008	1638	
06	JCBMUPS6	C	001	0004	1639	
06	JCBMUPS7	C	001	0002	1640	
07	JCBMUPS8	C	001	0001	1641	
07	JCBMUSLB	C	001	0004	1587	
07	JCBMMDKT	C	001	0020	1669	
08	JCBMMDSK	C	001	0010	1670	
08	JCBMMDINT	C	001	0008	1671	
08	JCBMMLIN	C	001	0040	1668	
09	JCBMMPX	C	001	0004	1672	
09	JCBMMPNT	C	001	0080	1667	
09	JCBMWTCD	C	001	0004	1598	
10	JCBMMPX	C	001	0040	1594	
10	JCBMMPDD	C	001	0001	1600	
10	JCBMMLDJ	C	001	0001	1577	
11	JCBMMLDS	C	001	0002	1576	
11	JCBMMLSCP	C	001	0003	1732	
11	JCBMMLPI	C	001	0004	1767	
12	JCBMMLPT	C	001	0006	1768	
12	JCBMMLPI	C	001	0008	1769	
12	JCBMLCRT	C	001	EEEE	1649	
13	JCBMLOFF	C	001	0000	1648	
13	JOBQ	C	001	0001	0485	
13	JOBQIN	C	001	0000	0456	
14	KEYREQ	C	001	0007	0450	
14	LDPCREQ	C	001	0040	0835	
14	LDINPROG	C	001	0080	0834	
15	LIFO	C	001	0010	1383	13
15	LOGTFULL	C	001	00FF	0923	
15	MENU	C	001	0001	0443	
16	MILCA3ZK	C	001	0001	0746	
16	MODE	C	001	0009	0452	
16	MPJOBERR	C	001	0008	0741	
17	PSCAD001	A	008	083F	4481	39
17	PSCAD002	A	006	0845	4482	43
17	PSCADEND	A	001	0CFF	4703	
18	PSCAD010	A	001	0838	4480	
18	PSCAD020	A	001	080A	3823	38
18	PSCAD030	A	001	0880	3956	
19	PSCAD040	A	001	0897	3931	39
19	PSCAD060	A	001	0886	3953	39
19	PSCAD080	A	001	0886	3952	39
20	PSCAD100	A	001	0882	3948	39

02	ERRR LOC	OBJECT CODE	ADDR	SYMT	SOURCE	STATEMENT	36750000
02			0022	3674	TAMPLOGED	REQU	34
02			3675	*			44
03			002D	3676	TAMPSSS	REQU	45
03			002E	3677	TAMPCLM	REQU	46
03			002F	3678	TAMPLOGR	REQU	47
04			0030	3679	TAMPLOGC	REQU	48
04			0031	3680	TAMPREQD	REQU	49
04			3681	*			50

02	ERRR LOC	OBJECT CODE	ADDR
02			003D
02			0020
03			0008
03			000F
03			000E
04			0004
04			0002

01		CROSS-REFERENCE				01	
02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES	02
03	JCBMSPRT	C	001	0020	1616		MSCA0110 A 001 08B6 3950
	JCBMSRAL	C	001	0008	1742		MSCA0130 A 001 08F9 3993
	JCBMSYLB	C	001	0080	1728		MSCA0150 A 001 08F9 3991
	JCBMSYSN	C	001	0040	1625		MSCA0160 A 001 092C 4046
04	JCBMTMLK	C	001	0080	1738		MSCA0170 A 001 08FE 4010
	JCBMUPS1	C	001	0080	1634		MSCA0190 A 001 0920 4040
	JCBMUPS2	C	001	0040	1635		MSCA0210 A 001 0919 4031
05	JCBMUPS3	C	001	0020	1636		MSCA0220 A 001 0910 4036
	JCBMUPS4	C	001	0010	1637		MSCA0230 A 001 0924 4042
	JCBMUPS5	C	001	0008	1638		MSCA0240 A 001 093A 4054
06	JCBMUPS6	C	001	0004	1639		MSCA0260 A 001 093E 4060
	JCBMUPS7	C	001	0002	1640		MSCA0280 A 001 094B 4068
	JCBMUPS8	C	001	0001	1641		MSCA0300 A 001 0961 4091
07	JCBMUSLB	C	001	0004	1587		MSCA0320 A 001 0968 4105
	JCBMWDKT	C	001	0020	1669		MSCA0340 A 001 0987 4124
	JCBMWSK	C	001	0010	1670		MSCA0360 A 001 0A54 4283
08	JCBMWINT	C	001	0008	1671		MSCA0380 A 001 0A51 4277
	JCBMULIN	C	001	0040	1668		MSCA0400 A 001 09AF 4164
	JCBMWPX	C	001	0004	1672		MSCA0420 A 001 09AF 4163
09	JCBMWPNT	C	001	0080	1667		MSCA0440 A 001 0A4A 4268
	JCBMWTCD	C	001	0004	1598		MSCA0450 A 001 09D6 4193
	JCBMWRREF	C	001	0040	1594		MSCA0460 A 001 09CE 4190
10	JCBMYDD	C	001	0001	1600		MSCA0470 A 001 09E0 4198
	JCBMILDJ	C	001	0001	1577		MSCA0490 A 001 0A38 4255
	JCBMILDS	C	001	0002	1576		MSCA0500 A 001 0A47 4263
11	JCBMILSCP	C	001	0008	1732		MSCA0510 A 001 0A4E 4272
	JCBMILPI	C	001	0004	1767		MSCA0520 A 001 0A54 4279
	JCBMILPI	C	001	0006	1768		MSCA0540 A 001 0A60 4297
12	JCBMILPI	C	001	0008	1769		MSCA0560 A 001 0A96 4347
	JCBSLCRT	C	001	EEEE	1649		MSCA0580 A 001 0A96 4346
	JCBSLOFF	C	001	0000	1648		MSCA0600 A 001 0ADC 4401
13	JOBQ	C	001	0001	0485		MSCA0610 A 001 0AC6 4381
	JOBQIN	C	001	0000	0456		MSCA0630 A 001 0AB6 4373
	KEYREQ	C	001	0007	0450		MSCA0650 A 001 0ADC 4399
14	LDFCHREQ	C	001	0040	0835		MSCA0670 A 001 0ADC 4398
	LDIRPROG	C	001	0080	0834		MSCA0680 A 001 0B38 4477
	LIFO	C	001	0010	1383	1385	MSCA0690 A 001 0B38 4476
15	LOGTFULL	C	001	00FF	0923		MSCA0700 A 001 0AE6 4410
	MENU	C	001	0001	0443		MSCA0710 A 001 0ADF 4407
	MILCA3ZK	C	001	0001	0746		MSCA0720 A 001 0B34 4467
16	MODE	C	001	0009	0452		MSCA0740 A 001 0B30 4465
	MPIDERR	C	001	0008	0741		MSCA0760 A 001 0B1F 4445
	MSCA001	A	008	083F	4481	3966	MSCPREND A 001 0D00 4701
17	MSCA002	A	006	0845	4482	4350	MSCPRENT A 001 0ADF 4405
	MSCA003	A	001	0CFF	4703		MSCPRINT A 001 0B00 3814
	MSCA0010	A	001	0838	4480		MSG C 001 0002 0444
18	MSCA0020	A	001	080A	3823	3819	MSGKCSSN A 001 0CFA 4697
	MSCA0030	A	001	080D	3956		NINE C 001 0009 0118
	MSCA0040	A	001	0897	3931	3955	NIPACTZ1 A 008 0B83 4595
19	MSCA0040	A	001	0806	3953	3937	NIPACTU A 001 0C4A 4661
	MSCA0080	A	001	0806	3952	3940	NIPARNAV A 001 0CDD 4667
	MSCA0100	A	001	0802	3948	3943	NIPACTSK A 001 0B5F 4555
20							

01	ERR	LOC	OBJECT	CODE	ADDR	SYMT	SOURCE	STATEMENT	01		
02					0000	3727	REFERENTIAL	EQU	X'10'	TRANSFER CONTROL ROUTINE	37280000
					0000	3728	NONPRIV	EQU	X'20'	PRIVILEGED TRANSPARENT	37290000
					0000	3729	NONPRIV	EQU	X'0B'	FIRST SECTOR IN TRANSPARENT AREA(HIGH)	37300000
03					0000	3730	NONPRIV	EQU	X'0F'	LAST SECTOR IN TRANSPARENT AREA(HIGH)	37310000
					0000	3731	REFEREND	EQU	X'0B'	DAR TRANSLATION ON	37320000
					0004	3732	REFEREND	EQU	X'04'	SET EA ON TRANSFER CONTROL	37330000
04					0002	3733	REFEREND	EQU	X'02'	SET EB ON TRANSFER CONTROL	37340000

CROSS-REFERENCE				
01	02	SYMBOL	T LEN VALUE	DEFN REFERENCES
03	03	MSCA0110 A 001	08B6 3950	3947
03	03	MSCA0130 A 001	08F9 3993	3982
03	03	MSCA0150 A 001	08F9 3991	3988
04	04	MSCA0160 A 001	092C 4046	
04	04	MSCA0170 A 001	08FE 4010	4045
04	04	MSCA0190 A 001	0920 4040	4020
05	05	MSCA0210 A 001	0919 4031	4023
05	05	MSCA0220 A 001	091D 4036	4030
05	05	MSCA0230 A 001	0924 4042	4039
06	06	MSCA0240 A 001	093A 4054	4050
06	06	MSCA0260 A 001	093E 4060	4053
06	06	MSCA0280 A 001	094B 4068	4065
07	07	MSCA0300 A 001	0961 4091	4085
07	07	MSCA0320 A 001	0968 4105	4094
07	07	MSCA0340 A 001	0987 4124	4113
08	08	MSCA0360 A 001	0A54 4283	4128
08	08	MSCA0380 A 001	0A51 4277	4131
08	08	MSCA0400 A 001	09AF 4164	4151
09	09	MSCA0420 A 001	09AF 4163	4154
09	09	MSCA0440 A 001	0A4A 4268	4178
09	09	MSCA0450 A 001	09D6 4193	
10	10	MSCA0460 A 001	09CE 4190	4197
10	10	MSCA0470 A 001	09E0 4198	4192
10	10	MSCA0490 A 001	0A38 4255	4248
11	11	MSCA0500 A 001	0A47 4263	4254
11	11	MSCA0510 A 001	0A4E 4272	4267
11	11	MSCA0520 A 001	0A54 4279	4276
12	12	MSCA0540 A 001	0A60 4297	4286
12	12	MSCA0560 A 001	0A96 4347	4313
12	12	MSCA0580 A 001	0A96 4346	4316
13	13	MSCA0600 A 001	0ADC 4401	4364
13	13	MSCA0610 A 001	0AC6 4381	4378
13	13	MSCA0630 A 001	0AB6 4373	4380
14	14	MSCA0650 A 001	0ADC 4399	4385
14	14	MSCA0670 A 001	0ADC 4398	4388
14	14	MSCA0680 A 001	0B38 4477	
15	15	MSCA0690 A 001	0B38 4476	
15	15	MSCA0700 A 001	0AE6 4410	
15	15	MSCA0710 A 001	0ADF 4407	4466
16	16	MSCA0720 A 001	0B34 4467	4409
16	16	MSCA0740 A 001	0B30 4465	4414
16	16	MSCA0760 A 001	0B1F 4445	4442
17	17	MSCPREND A 001	0D00 4701	4423
17	17	MSCPRENT A 001	0ADF 4405	4704
17	17	MSCPRENT A 001	0B00 3814	
18	18	MSC C 001	0D02 0444	
18	18	MSCCKSSN A 001	0CFA 4697	4254
18	18	MSINE C 001	0D09 0118	
19	19	NIPACU01 A 008	0BA3 4595	4155 4238
19	19	NIPACU02 A 001	0CC4 4661	4343
19	19	NIPAVMSG A 001	0CCD 4667	4328
20	20	NIPACTSK A 001	0B5F 4555	4186* 4188* 4195* 4218 4236

01	02	ERRR LOC OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT
02	02	372B0000	002B	37801	PPR0A2	EQU X'2B" SECURITY
02	02	37290000	002C	37802	PC0ND	EQU X'2C" COMMAND DCL INTERFACE
03	03	37310000	002D	37803	PC0DERR	EQU X'2D" I/O ERROR TRANSIENT
03	03	37320000	002E	37804	PC0EXTND	EQU X'2E" EOP EXTEND TRANSIENT
04	04	37340000	002F	37805	PC0UPDAT	EQU X'2F" EOP UPDATE TRANSIENT
04	04	37350000	0030	37806	PC0CHKPT	EQU X'30" CHECKPOINT TRANSIENT
04	04	37360000	0031	37807	PC0SPMIC	EQU X'31" SP00L TRANSIENT

01	02	ERRR LOC OBJECT CODE	ADDR
02	02	0B0F	01
03	03	0B10	35 02 0060
04	04	0B14	05 02 32



01		CROSS-REFERENCE					01						
02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES	02	SYMBOL	T	LEN	VALUE	DEFN	REF
03	NIPACU01	A	001	0993	4132								
	NIPACU02	A	001	09C5	4179								
	NIPACU04	A	003	0A21	4241	4239							
	NIPATACH	A	001	0B46	4488	3927							
04	NIPAVMS0	A	001	0BAC	4628	4335* 4630 4632 4634							
	NIPAVMSG	A	008	0BB3	4629	4340							
	NIPAVPR0	A	001	0BB4	4638	4640							
05	NIPAVPRM	A	008	0BB8	4639	4323							
	NIPFNDAC	A	001	0B78	4575	4155* 4167							
	NIPFND21	A	001	0B8A	4587								
06	NIPMINI	A	002	0CBF	4656	4214							
	NIPPATCH	A	001	0B8C	4650								
	NIPSPITL	A	001	0CE8	4685	4088							
07	NIPSSATC	A	001	0CD6	4673	3995 4242							
	NIPSSBLD	A	001	0CDF	4679								
	NIPSSHFI	A	001	0CF1	4691	4107							
08	NIPSSPF	A	001	0A54	4282								
	NIPSTART	C	001	02D8	4644	3968 4645							
	NIPSTRTE	C	001	02DF	4645								
09	NIPSWTCH	A	001	0B0B	4619	4041* 4044							
	NIPWORK	A	002	0CC1	4658	3874* 3875* 3877* 3879 4244* 4246							
	NORIT	C	001	0000	0125								
10	NOP	C	001	0000	0124								
	NPRV	C	001	0001	0142								
	NUL*LBFI	C	001	02E0	1885	1888 4257*							
11	NULACEQH	C	001	0100	1859	1862 3929 4051							
	NULADWRK	C	001	0700	1932								
	NULATQE	C	001	03A8	1914	1916							
12	NULADZK	C	001	07C0	1935								
	NULCPTCH	C	001	0002	1868								
	NULCPTCB	C	001	0200	1867	1871 3843* 4076 4109 4115* 4368 4390 4446							
13	NULCSETC	C	001	0380	1905	1907							
	NULCKIOB	C	001	01E0	1865	1867							
	NULDLTQE	C	001	03A0	1912	1914							
14	NULDPACE	C	001	0300	1918	1920							
	NULDPIOB	C	001	0380	1916	1918							
	NULDSTQE	C	001	0390	1907	1910							
15	NULDSPACE	C	001	0310	1891	1893							
	NULDSPACE	C	001	0370	1903	1905							
	NULDPLAF	C	001	03F0	1922	1937							
16	NULGLACE	C	001	0320	1893	1895							
	NULGLD01	C	001	2000	1946								
	NULGRACE	C	001	0340	1897	1899							
17	NULHWTC	C	001	0398	1910	1912							
	NULHWIOB	C	001	01C0	1862	1865							
	NULSSSQS	C	001	1000	1943	1946							
18	NULSPACE	C	001	0360	1901	1903							
	NULADIOB	C	001	02A8	1882	1885 4644							
	NULSCA	C	001	0000	1856	1859 3860 3890 4061 4305							
19	NULSPACE	C	001	03E0	1920	1922							
	NULSPACE	C	001	0350	1899	1901							
20	NULSPACE	C	001	0330	1895	1897							

01		MISCPR MAIN STORAGE IPL - COMMAND PROCESSOR FUNCTION					01	
02	ERRR LOC OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	02	ERRR LOC OBJECT CODE	ADDR
37820000	000F 01	000F	3854	0C	ALL(1=0) ATTRIBUTES	38550000		
37830000			3855	***	END OF EXPANSION ***	38560000		
37840000			3856	*	PREG(ARZ)=SCADMTUB(1-2); /* GET CONSOLE TUB JOB ADDRESS */	38570000		
37850000	001D 35 02 006D		3857	IL	SCADMTUB,ARZ	3829		
37860000			3858	*	PREG(ARZ)=ARZ->TUBJOB(1-2); /*	38300000		
37870000	0014 35 02 32		3859	IL	TUBJOB(ARZ),ARZ	3830		
37880000			3860	*	ARZ->JCALL(ARZ-1(1-112)=ARZ->JCALL(ARZ-1)- /* COPY TO NEW JOB */	38300000		

CROSS-REFERENCE

02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
03	NUBTRACE	C	001	0300	1888	1891
	NUBTRBUF	C	001	0700	1930	1932 1935 1937
	NUBTRWQ	C	001	02A3	1879	1882
04	NUBTWXL	C	001	0280	1871	1873 1879
	NUBTWXR	C	001	02A2	1873	3885
	NUBKIENT	C	001	0800	1926	1930 1941
05	NUFIXNUC	C	001	0000	1854	1856
	NULBLF1	C	001	0020	1886	1888
	NULACE	C	001	0010	1889	1891 1893 1895 1897 1899 1901 1903 1905 1907 1920 1922
06	NULACEQH	C	001	00C0	1860	1862
	NULADARK	C	001	00C0	1933	1935
	NULCPTCB	C	001	0080	1869	1871
07	NULENIOB	C	001	0020	1863	1865 1867 1918
	NULIPLAF	C	001	0310	1937	
	NULMSSQS	C	001	1000	1944	1946
08	NULRDI0B	C	001	0038	1883	1885
	NULSCA	C	001	0100	1857	1859
	NULTQE	C	001	0008	1908	1910 1912 1914 1916
09	NULTRBUF	C	001	0100	1929	1930
	NULTWQ	C	001	0005	1880	1882
	NULTWXR	C	001	0023	1872	1873 1879
	NULXIENT	C	001	0800	1927	1941
10	NUMBITS	C	001	000F	0126	
	NUVARNUC	C	001	1000	1941	1943
11	OFF	C	001	0004	0446	
	OFFMENU	C	001	0005	0447	
	OFFOCL	C	001	0024	0479	
12	ONE	C	001	0001	0110	
	OP1	C	001	0002	0140	4421
	OP2	C	001	0004	0139	4421
13	PLIFO	C	001	0040	1070	
	PPSCPBIT	C	001	0080	1959	4429
	PPSCRT1	C	001	0019	1978	
14	PPSCRT2	C	001	0018	1979	
	PPSEDFSG	C	001	0040	1960	
	PPSFLAG1	C	001	0001	1958	1963 4429*
	PPSLIBRA	C	001	0015	1974	1976
15	PPSNLOG	C	001	0020	1961	
	PPSPNME	C	001	0027	1985	1987
16	PPSPRGL	C	001	0000	1969	1970
	PPSPRGLH	C	001	0005	1965	1966
	PPSPRGLZ	C	001	000F	1970	1971
17	PPSPRGLZ1	C	001	0007	1966	1967
	PPSSGREG	C	001	0003	1963	1965
	PPSSGRIUF	C	001	001D	1980	1981
18	PPSSGRT	C	001	0018	1977	1978 1979 1980
	PPSSGRED	C	001	0018	1976	1977
	PPSSGLMR	C	001	001E	1981	1983
19	PPSTAGTD	C	001	0000	1956	1958
	PPSUPSI	C	001	001F	1983	1985 4430*
	PPSUSRL	C	001	0011	1971	1972
20	PPSUSRIH	C	001	0009	1967	1968

F20

PPSCPR MAIN STORAGE IPL - START FILE REBUILD, #MSBLD

ERRR LOC OBJECT CODE ADDR SYMT SOURCE STATEMENT

38250000	38250000	38250000	38250000	38250000	38250000
38250000	38250000	38250000	38250000	38250000	38250000
38250000	38250000	38250000	38250000	38250000	38250000
38250000	38250000	38250000	38250000	38250000	38250000
38250000	38250000	38250000	38250000	38250000	38250000

3846	*/	*/			
3847	*/	*****			
3848	*/	FILE REBUILD, #MSBLD, IS CONSIDERED AS PART OF IPL, BUT RUNS AS	*/		
3849	*/	A SEPARATE TASK AND NOT UNDER THE COMMAND PROCESSOR AS IPL DOES.	*/		
3850	*/	*/	*/		
3851	*/	A SYSTEM COMMUNICATION AREA FLAG "SCASBLD" IN BYTE "SCASYS1" IS	*/		
3852	*/	SET ON TO INDICATE TO ANY PROCESSES THAT WILL BE CALLED BY #MSBLD	*/		

ERRR LOC OBJECT CODE

0B73 00 87 00	0B74 0A 00 00	0B77 F4 00 01	0B7A 4C

CROSS-REFERENCE				
SYMBOL	T	LEN	VALUE	DEFN REFERENCES
PPSUSR2L	C	001	0013	1972 1974
PPSUSR2M	C	001	0708	1968 1969
PPSWAR01	C	001	002F	1987 1989
PPSWAR02	C	001	0037	1989 1991
PPSWAR03	C	001	003F	1991 1993
PPSWAR04	C	001	0047	1993 1995
PPSWAR05	C	001	004F	1995 1997
PPSWAR06	C	001	0057	1997 1999
PPSWAR07	C	001	005F	1999 2001
PPSWAR08	C	001	0067	2001 2003
PPSWAR09	C	001	006F	2003 2005
PPSWAR10	C	001	0077	2005 2007
PPSWAR11	C	001	007F	2007
PREEMPT	C	001	0080	1069 4451
PRIOR	C	001	0080	1381 1385 1386
PRIORF	C	001	0080	1386
PRIORL	C	001	0090	1385
PRTY	C	001	0003	0445
PRV	C	001	0000	0141 4419 4421
PSIPLF1	C	001	0004	0744
PSIPL11	C	001	0002	0745
PSR	C	001	0004	0098
QCPWAIT	C	001	0008	2724
QFRMEXM	C	001	0004	2721
QHDCLK	C	001	004E	1434
QHDCLG	C	001	004C	1433
QHDCCM1	C	001	0008	1398
QHDCCM1	C	001	005C	1441
QHDCCM2	C	001	005E	1442
QHDCCM3	C	001	0060	1443
QHDCCM4	C	001	0062	1444
QHDCCOCL	C	001	0054	1437
QHDCSB	C	001	0072	1452
QHDSCQ	C	001	0058	1439
QHDCKNT	C	001	0018	1406
QHDILK	C	001	0064	1445
QHDEIB	C	001	0080	1471
QHDERB	C	001	0074	1453
QHDEXAM	C	001	0086	1474
QHDEXTRA	C	001	009A	1468
QHDFD	C	001	0000	1394
QHDFDA	C	001	0030	1418
QHDFDB	C	001	0032	1419
QHDFDC	C	001	0034	1420
QHDFDD	C	001	0036	1421
QHDFLF	C	001	0084	1473
QHDFM	C	001	0076	1454
QHDFM1	C	001	0001	1378
QHDFMIST	C	001	006E	1450
QHDFINDEX	C	001	0090	1463
QHDFICONT	C	001	000A	1399
QHDFIO	C	001	0002	1395

SYMBOL	T	LEN	VALUE	DEFN
QHDIOA	C	001	0038	142
QHDKBR	C	001	001E	140
QHDLOAD	C	001	001C	140
QHDLOC	C	001	007A	145
QHDMTI	C	001	00A8	147
QHDNSACE	C	001	00A2	147
QHNULL	C	001	0000	137
QHDPDLH	C	001	00AA	147
QHDPILK	C	001	006C	144
QHDPRTQ	C	001	0044	142
QHDPTE	C	001	0004	139
QHDPTE1	C	001	0020	141
QHDPTE2	C	001	0022	141
QHDPTE3	C	001	0024	141
QHDPTE4	C	001	0026	141
QHDPTE5	C	001	0028	141
QHDPTE6	C	001	002A	141
QHDPTE7	C	001	002C	141
QHDPTE8	C	001	002E	141
QHDSQUAIL	C	001	0092	146
QHDSRPT	C	001	0094	146
QHDSCT	C	001	0096	146
QHDSSEC	C	001	0078	145
QHDSILK	C	001	0066	144
QHDSMA	C	001	007E	145
QHDSPLK	C	001	00AC	147
QHDSPTCB	C	001	0041	142
QHDSQB	C	001	0056	143
QHDSQE	C	001	004A	143
QHDSQS	C	001	0082	146
QHDSQSPT	C	001	0070	145
QHDSUBCN	C	001	009C	146
QHDSUBRA	C	001	009E	147
QHDTCBQ	C	001	0046	1430
QHDTIMEA	C	001	003E	1428
QHDTIMER	C	001	003C	1425
QHDTM	C	001	0050	1435
QHDTTC	C	001	0048	1431
QHDTUB	C	001	005A	1440
QHDTWA	C	001	001A	1407
QHDTWAF1	C	001	0098	1467
QHDFILK	C	001	0068	1447
QHDFSC	C	001	0006	1397
QHDFSQS	C	001	0080	1459
QHDXIENT	C	001	0042	1428
QHDXZ1	C	001	008E	1478
QHDSILK	C	001	006A	1448
QHWAIT	C	001	0008	2723
QHCHPRI	C	001	0018	2732
QHW	C	001	0010	2726
QHWV	C	001	0019	2731

ERR	LOC	OBJECT	CODE	ADDR	SYMT	SOURCE	STATEMENT
*/	38470000						
*/	38470000						
AS	*/	38470000					
DES	*/	38510000					
*/	38510000						
*/	38520000						

ERR	LOC	OBJECT	CODE	ADDR	SYMT	SOURCE	STATEMENT
02	0871	DD	87	00	3897	B	DTA*0005C,1) CHECK NEXT ELEMENT
02	0874	BA	00	00	3898	DTA*00030	SRN (C,Z),0 MARK TRACE FREE
03	0877	F4	00	00	3899	*	QPOST MASK-TCSWAIT POST IN CASE TASK WAITING
04	087A	40			3900	SVC	SVCPOST,0
05	087A	40			3901	DC	ALL(CCSWAIT)

ERR	LOC	OBJECT	CODE	ADDR	SYMT	SOURCE	STATEMENT
02	08AF	F2	87	04			
03	08B2	6C	01	10	34		

CROSS-REFERENCE				
01	02	03	04	05
SYMBOL	T	LEN	VALUE	DEFN
QHDIOA	C	001	0038	1422
QHDKBTB	C	001	001E	1409
QHDLOAD	C	001	001C	1408
QHDLOC	C	001	007A	1456
QHDMTI	C	001	00A8	1475
QHDNSACE	C	001	00A2	1472
QHDNULL	C	001	0000	1377 3954
QHDPLH	C	001	00AA	1476
QHDPLK	C	001	006C	1449
QHDPTQ	C	001	0044	1429
QHDPT	C	001	0004	1396
QHDPT1	C	001	0020	1410
QHDPT2	C	001	0022	1411
QHDPT3	C	001	0024	1412
QHDPT4	C	001	0026	1413
QHDPT5	C	001	0028	1414
QHDPT6	C	001	002A	1415
QHDPT7	C	001	002C	1416
QHDPT8	C	001	002E	1417
QHDQUAIL	C	001	0092	1464
QHDRFILK	C	001	0052	1436
QHDRPT	C	001	0094	1465
QHDSECT	C	001	0096	1466
QHDSEC	C	001	0078	1455
QHDSTLK	C	001	0066	1446
QHDSSNA	C	001	007E	1458
QHDSPK	C	001	00AC	1477
QHDSPTCB	C	001	0041	1427
QHDSQB	C	001	0056	1438
QHDSQE	C	001	004A	1432
QHDSQS	C	001	0082	1460
QHDSQSPT	C	001	0070	1451
QHDSUBCN	C	001	009C	1469
QHDSUBRA	C	001	009E	1470
QHDTCBQ	C	001	0046	1430
QHDTIMEA	C	001	003E	1426
QHDTIMER	C	001	003C	1425
QHDTRM	C	001	0050	1435
QHDTTIC	C	001	0048	1431 4080 4450
QHDITUB	C	001	005A	1440 3929
QHDTWA	C	001	001A	1407
QHDWTF1	C	001	0098	1467
QHDWTLK	C	001	0068	1447
QHDWASC	C	001	0006	1397 4051
QHDWASQS	C	001	0080	1459
QHDWIENT	C	001	0042	1428
QHDWZ1	C	001	009E	1478
QHDWTLK	C	001	006A	1448
QHDWAIT	C	001	0008	2723 2731 2732 2733
QHDWPRE	C	001	0018	2732
QHDWQ	C	001	0010	2726 2731 2732 4079
QHDWQW	C	001	0019	2731

01	02	03	04	05
SYMBOL	T	LEN	VALUE	DEFN
QHDREF	C	001	0002	2718
QHDREFRESH	C	001	0001	2717
QHDSCCT	C	001	0010	2725
QHDSPEC	C	001	0009	2733
QHDQSYSREQ	C	001	0004	2720
QHDQTOEXM	C	001	0008	2722
QHDQUEUE	C	001	0000	1380
QHDWAIT	C	001	0001	2716
QHDQXLOFF	C	001	0004	2719
QHDQXR2	C	001	0020	2727
QHDQXU	C	001	0040	2728
QHDQO	C	001	0000	2729
QHDQ1	C	001	0001	2715
QHDRAFA	C	001	001A	3764
QHDRAFFLOC	C	001	000C	3750
QHDRCRPT	C	001	0030	3786
QHDRCLOSE	C	001	0003	3741
QHDRCMD	C	001	002C	3782
QHDRCPERR	C	001	001D	3767
QHDRCRPT	C	001	0015	3759
QHDRCPTC	C	001	001F	3769
QHDRCMINT	C	001	003D	1009
QHDRDALOC	C	001	0000	3751
QHDROMCALL	C	001	0013	3757
QHDRELEASE	C	001	0003	0496
QHDREQJ	C	001	0004	3742
QHDREPLY	C	001	0009	0489
QHDRESTART	C	001	00E3	0492
QHDREXTND	C	001	002E	3784
QHDREXTNP	C	001	003B	3797
QHDREXTRA	C	001	0037	3793
QHDREXIND	C	001	0001	3739
QHDREXINDLIB	C	001	0019	3763
QHDREGLFAC	C	001	003A	3796
QHDREGLFR	C	001	0039	3795
QHDREICDA	C	001	0032	3788
QHDREICOB	C	001	0033	3789
QHDREICOD	C	001	0034	3790
QHDREICOD	C	001	0030	3799
QHDREINFO	C	001	000F	3753
QHDREIDERR	C	001	002D	3783
QHDRELIBRY	C	001	000A	3748
QHDRELOPEN	C	001	0016	3760
QHDREOFFLINE	C	001	0027	3777
QHDREOPEN	C	001	0002	3740
QHDREPGH1	C	001	0012	3756
QHDREPPALEN	C	001	0014	3758
QHDREPPA2	C	001	002B	3781
QHDREPRDM	C	001	0041	3803
QHDREPSW000	C	001	0000	3738
QHDREPSALOC	C	001	000E	3752
QHDRESETX	C	001	0020	3770

F22

01	02	03	04	05
ERR	LOC	OBJECT CODE	ADDR	SYMT SOURCE STATEMENT
39470000	00AF	F2	04	3946 * XRI->BATTUB(C1-Z)=KR2->TUBTUB; /* NO, SAVE HORIZONTAL TUB */
39470000				3947 J MSCAD110
39480000	00B2	6C	01	3948 MSCAD0100 EQU *
39490000				3949 MNC BATTUB(C002,KR1),TUBTUB(C,KR2)
39500000	00B6	3950	MSCAD0110	EQU *
39510000				3951

CROSS-REFERENCE

01	02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
03	QREF	C	001	0002	2718		
03	QREFRESH	C	001	0001	2717	3994 4025 4033 4056 4087 4096 4106 4171 4241 4293 4327 4342	
03	QSCT	C	001	0010	2725		
04	QSPEC	C	001	0009	2733		
04	QSYSREQ	C	001	0004	2720		
04	QTOEXM	C	001	0008	2722		
05	QUEUE	C	001	0000	1380		
05	QWAIT	C	001	0001	2716	2731 2733	
05	QXLOFF	C	001	0004	2719	4015 4079	
06	QXR2	C	001	0020	2727		
06	QXU	C	001	0040	2728		
06	QO	C	001	0000	2729	4118 4402 4449	
07	Q1	C	001	0001	2715		
07	RAFA	C	001	001A	3764		
07	RALLOC	C	001	000C	3750		
08	RCHKPT	C	001	0030	3786		
08	RCLDSE	C	001	0003	3741		
08	RCHD	C	001	002C	3782		
09	RCPERR	C	001	001D	3767		
09	RCPRT	C	001	0015	3759	4034	
09	RCPTC	C	001	001F	3769	4026 4057 4097	
10	RCTHINT	C	001	003D	1009		
10	RDNALOC	C	001	000D	3751		
10	RDMCALL	C	001	0013	3757		
11	RELEASE	C	001	0003	0496		
11	REOJ	C	001	0004	3742		
11	REPLY	C	001	0009	0489		
12	RESTART	C	001	00E3	0492		
12	REXTND	C	001	002E	3784		
12	REXTNP	C	001	0038	3797		
13	REXTRA	C	001	0037	3793		
13	RFIND	C	001	0001	3739	4173	
13	RFINDLIB	C	001	0019	3763		
14	RGLFAC	C	001	003A	3796		
14	RGLFR	C	001	0039	3795		
14	RICDA	C	001	0032	3788		
15	RICDB	C	001	0033	3789		
15	RICDC	C	001	0034	3790		
15	RICDD	C	001	0030	3799		
16	RIINFO	C	001	000F	3753		
16	RIOERR	C	001	002D	3783		
16	RLIBRY	C	001	000A	3748		
17	RLOPEN	C	001	0016	3760		
17	RLOFFLINE	C	001	0027	3777		
17	RLOPEN	C	001	0002	3740		
18	RPGHLT	C	001	0012	3756		
18	RPRMGN	C	001	0014	3758		
18	RPRM2	C	001	002B	3781		
19	RRODM	C	001	0041	3803		
19	RRSVDDO	C	001	0000	3738		
19	RSALOC	C	001	000E	3752		
20	RSETX	C	001	002D	3770		

MSICPR MAIN STORAGE IPL - START FILE REBUILD, MSIBLD

01	02	ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT
02	39470000		3996 * GENCTITLE *MSICPR - COMMAND PROCESSOR WAIT ROUTINE *);
02	39480000		
03	39490000		
03	39500000		
03	39510000		

MSICPR MSICPR - COMMAND PROCESSOR WAIT

01	02	ERR LOC OBJECT CODE	ADDR STMT SOURCE STATEMENT
02			3998 *
02			3999 *
03			4000 *
03			4001 *
03			4002 *
03			4003 *

CROSS-REFERENCE						
02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
03	RSGET	C	001	0008	3746	
	RSIN	C	001	0007	3745	
	RSLIST	C	001	0006	3744	
	RSLOG	C	001	0005	3743	
04	RSMFC	C	001	003C	3798	
	RSMISG	C	001	0009	3747	
	RSNAP	C	001	0011	3755	
05	RSORT	C	001	0036	3792	
	RSPALC	C	001	001C	3766	
	RSPMTC	C	001	0031	3787	
06	RSPOOL	C	001	001B	3765	
	RSPQMG	C	001	0043	3805	3806
	RSTREQ	C	001	0008	0451	
07	RSVNR	C	001	0022	3772	
	RSVTX	C	001	0035	3791	
	RSWSDM	C	001	0018	3762	
08	RTTC	C	001	001E	3768	
	RUPDAT	C	001	002F	3785	
	RVTDFD	C	001	0008	3749	
09	RVTORD	C	001	0010	3754	
	RWDAF	C	001	0024	3774	
	RWDCP	C	001	002A	3780	
10	RWDDA	C	001	0026	3776	
	RWDD8	C	001	0021	3771	
	RWDDG	C	001	0023	3773	
11	RWDDH	C	001	0028	3778	
	RWDDL	C	001	0038	3794	
	RWDDO	C	001	0025	3775	
12	RWDDQ	C	001	0029	3779	
	RWDDT	C	001	003F	3801	
	RWDDU	C	001	003E	3800	
13	RWDDH	C	001	0042	3804	
	RWDEE	C	001	0040	3802	
	RWPLSLN1	C	001	0001	2064	
14	RWPLSLN2	C	001	0002	2063	
	RWPLSLN3	C	001	0004	2062	
	RWPLSLN4	C	001	0008	2061	
15	RWPLATCH	C	001	0002	2035	
	RWPLATTR	C	001	0004	2049	
	RWPLAUT	C	001	0004	2025	4641
16	RWPLCDIT	C	001	0008	2044	
	RWPLCHK	C	001	0040	2027	
	RWPLCUD	C	001	0006	2054	2056
17	RWPLDACT	C	001	000A	2043	
	RWPLDAND	C	001	000C	2045	
	RWPLDSUC	C	001	0006	2039	
18	RWPLEXIS	C	001	0004	2037	
	RWPLGAT	C	001	0020	2026	
	RWPLINE	C	001	0009	2042	
19	RWPLLEN	C	001	0008	2066	4325
	RWPLLINE	C	001	0007	2056	2066
20	RWPLNDIS	C	001	0008	2041	

#MSICPR #MSICPR - COMMAND PROCESSOR WAIT ROUTINE							
02	ERR	LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT
02				3998	*/	*/	
				3999	*/	*/	
03				4000	*/	*/	WAIT FOR FILE REBUILD TO COMPLETE. AT THAT TIME OTHER TASKS CAN
				4001	*/	*/	BE INITIALIZED FOR AUTO START.
				4002	*/	*/	1. JOB QUEUE
				4003	*/	*/	2. AUTO SERIAL WRITER

02	ERR	LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT
02				39990000			
				40000000			
03				092C	3D	00	0061
				0930	F2	81	07
				0933	3D	00	0106

CROSS-REFERENCE						
02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
03	RWPLNOSP	C	001	0001	2034	
03	RWPLNPRT	C	001	0007	2040	
03	RWPLNRES	C	001	0003	2036	
04	RWPLOFF	C	001	0002	2024	
04	RWPLON	C	001	0001	2023	
04	RWPLPSUC	C	001	0005	2038	
05	RWPLRCD	C	001	0001	2030	2047 4335
05	RWPLREQ	C	001	0000	2020	2030 4640
05	RWPLSUCC	C	001	0000	2033	
06	RWPLTUB	C	001	0080	2028	
06	RWPLTUBA	C	001	0006	2051	
06	RWPLUSID	C	001	0003	2047	2049 2051 2054
07	RWSDM	C	001	0017	3761	
07	RXTEND	C	001	0043	3806	3808 3809
07	SCAMPNDM	C	001	0083	2531	2532
08	SCAMPICM	C	001	0083	2532	
08	SCAMPDB0	C	001	0040	2528	
08	SCAMPDB1	C	001	004F	2529	
08	SCAMPDB2	C	001	0081	2530	
09	SCAMPDB3	C	001	0085	2538	
09	SCAMP2KPS	C	001	000C	2102	2106
10	SCACKRST	C	001	0080	2589	
10	SCACONFG	C	001	002F	2231	2233
10	SCACSATB	C	001	0084	2381	2383
11	SCACSIZE	C	001	0011	2145	2148
11	SCACS16K	C	001	0004	2146	
11	SCAMPN2K	C	001	007A	2372	2374
12	SCADPTUB	C	001	0052	2261	2263
12	SCADABCT	C	001	0077	2350	2352
12	SCADBSCT	C	001	0053	2263	2265
13	SCADCF65	C	001	004B	2517	2527 2540
13	SCADCF61	C	001	0012	2148	2163 4018 4066* 4438*
13	SCADCF62	C	001	0013	2163	2176 4083
14	SCADCF63	C	001	0014	2176	2186 4125 4250* 4270* 4278*
14	SCADCF66	C	001	00C4	2586	2598
14	SCADCF67	C	001	009F	2466	2486
15	SCADCF68	C	001	00A7	2493	2503
15	SCADCF69	C	001	0048	2503	2515 4314
15	SCADCF52	C	001	0008	2100	2102
16	SCADCTR	C	001	0018	2199	2215
16	SCADCON1	C	001	0093	2451	
16	SCADCP6A	C	001	004D	2256	
17	SCADCP51	C	001	0070	2327	2337 4092
17	SCADCP52	C	001	0071	2337	2347 3980
17	SCADCP53	C	001	00C3	2576	2586 4152
18	SCADCP54	C	001	08C0	2544	2554
18	SCADCP4B	C	001	0082	2379	2381 3958 4338
18	SCADCPYR	C	001	00FF	2634	2636
19	SCADSP1	C	001	000C	2388	2398
19	SCADSP2	C	001	008D	2398	2408
19	SCADSP3	C	001	008E	2408	2418
20	SCADCTUT	C	001	0060	2301	2303 2319 4261*

MSICPR MSICPR - COMMAND PROCESSOR WAIT ROUTINE

ERR LOC OBJECT CODE ADDR SYMT SOURCE STATEMENT

39990000  
 40000000  
 40010000  
 40020000  
 40030000  
 40040000

4047 \* IF SCADPLUK+1(1:1)=0 /\* STARTUP ABENDED? OR ... \*/  
 4048 \* WARMONANCEQ+QINDUC(1:1)=0 THEN /\* USDOCH POST PENDING? \*/  
 092C 3D 00 0061 4049 CLI SCADPLUK+1,0 3978  
 0930 F2 81 07 4050 JE MSG0240 3978  
 0933 3D 00 0106 4051 CLI WARMONANCEQ+QINDUC,0 3978

ERR LOC OBJECT CODE

0957 F4 01 04  
 096A 1F

01		CROSS-REFERENCE				01	
02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES	02
03	SCADDATE	C	001	005F	2299	2301	03
	SCADDAY	C	001	005F	2298	2299	
	SCADDMIC	C	001	0001	2080		
04	SCADF1ST	C	001	0051	2260	2261	04
	SCADHFWK	C	001	00A4	2488	2491	
	SCADICSA	C	001	00C6	2598	2600	
05	SCADKCFG	C	001	0040	2115		05
	SCADKKGa	C	001	0008	2622	2624	
	SCADKLRC	C	001	0068	2317	2320 2322	
06	SCADLBF1	C	001	004F	2258	2260	06
	SCADLIM*	C	001	0091	2420	2447 4129 4311	
	SCADMATR	C	001	00E0	2636		
07	SCADNCFG	C	001	0079	2362	2372	07
	SCADMCTR	C	001	007B	2374	2375	
	SCADMERP	C	001	0040	2255	2256 2258	
08	SCADMG01	C	001	0073	2347	2348	08
	SCADMID*	C	001	007E	2376	2377	
	SCADPNTH	C	001	005E	2297	2298	
09	SCADPID*	C	001	0017	2197	2199	09
	SCADPMNT	C	001	0088	2386	2388	
	SCADPTUB	C	001	0060	2322	2323 3837 4222	
10	SCADPIND	C	001	0010	2141	2145	10
	SCADPSVC	C	001	0000	2083	2084	
	SCADPTUB	C	001	006F	2323	2327	
11	SCADREJA	C	001	0092	2449	2451	11
	SCADREL*	C	001	0016	2196	2197	
	SCADREJ*	C	001	0095	2447	2448 2449 2453	
12	SCADRFR*	C	001	00CE	2600	2602	12
	SCADRSC2	C	001	007F	2377	2378	
	SCADRSEC	C	001	00A2	2486	2488	
13	SCADRSPC	C	001	008F	2542	2544	13
	SCADSBFP	C	001	0048	2253	2255	
	SCADSCIM	C	001	0070	2375	2376	
14	SCADSDLP	C	001	009E	2464	2466	14
	SCADSDLS	C	001	0090	2463	2464	
	SCADSECa	C	001	0076	2348	2350	
15	SCADSECZ	C	001	0080	2378	2379	15
	SCADSEUD	C	001	0057	2267	2268	
	SCADSEUD	C	001	0059	2268	2269 2271	
16	SCADSL0G	C	001	005A	2271	2275	16
	SCADSL0T	C	001	008A	2384	2386	
	SCADSNAT	C	001	0090	2418	2420	
17	SCADSNM1	C	001	0098	2461	2462	17
	SCADSNM7	C	001	009C	2462	2463	
	SCADSP1a	C	001	000A	2098	2100	
18	SCADSSQ	C	001	0099	2457	2459	18
	SCADSSCS	C	001	0028	2228	2229	
	SCADSS10	C	001	0020	2229	2231	
19	SCADSSJQ	C	001	0044	2242	2244	19
	SCADSSPS	C	001	0029	2227	2228	
	SCADSSPF	C	001	0009	2624	4149 4284	
20	SCADSSPR	C	001	0047	2244	2252	20

01		#MSICPR #MSICPR - COMMAND PROCESSOR WAIT ROUTINE				01			
02	ERR	LOC	OBJECT	CODE	ADDR	STMT	SOURCE	STATEMENT	02
03	*/	40480000	0957	F4	01	04	4096	SVC SMCXFER, QREFRESH	40970000
	*/	40490000	096A	1F			096A	0097 (C) ALL(CRPTIC)	40980000
		40500000					4098	* ENDC;	40990000
		40510000					4099	*/	41000000
							4100	*/	41010000
							4101	*/	41020000
							4102	*/	41030000

01		#MSICPR #MSICPR - COMMAND PRO				01			
02	ERR	LOC	OBJECT	CODE	ADDR	STMT	SOURCE	STATEMENT	02
03			0999	5F	6F	6F	6F		
			099D	88	01	0*			
			09A0	F2	90	0C			



CROSS-REFERENCE

02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
03	SCADSSVC	C	001	0005	2085	2087
03	SCADTBUF	C	001	0097	2453	2455
03	SCADTKS2	C	001	00AA	2515	2517 3877 3890
04	SCADTLOK	C	001	0002	2415	
04	SCADTRS2	C	001	009A	2459	2461
04	SCADUCFG	C	001	0006	2602	2603 2604 2605 2606 2622
05	SCADUDT1	C	001	0005	2603	
05	SCADUDT2	C	001	0003	2604	
05	SCADUDT3	C	001	0001	2605	
05	SCADUDT4	C	001	00CF	2606	
06	SCADVICE	C	001	0055	2265	2267
06	SCADIDBR	C	001	0087	2540	2542
07	SCADIDBT	C	001	00AC	2527	2528 2529 2530 2531 2538
07	SCADIRKA	C	001	00A6	2491	2493
07	SCADISQS	C	001	0098	2455	2457
08	SCADIMID	C	001	00C2	2554	2556 2566 2576
08	SCADIMI1	C	001	00C1	2556	
08	SCADIMI2	C	001	00C2	2566	
08	SCADISLT	C	001	0085	2383	2384
09	SCADISVC	C	001	0003	2084	
09	SCADIXTRA	C	001	0078	2352	2362
10	SCADYEAR	C	001	005D	2296	2297
10	SCAFVTOC	C	001	001E	2218	2219
10	SCAFVTON	C	001	0020	2219	2221
11	SCAFVCLUR	C	001	0035	2235	2237
11	SCAFVFER	C	001	0080	2276	
11	SCAFVSI2	C	001	0033	2234	2235
12	SCATPLM1	C	001	0060	2319	3866* 4049 4440 4443*
12	SCATPLM2	C	001	0068	2320	4323* 4325 4348 4348*
12	SCATPLM5	C	001	0095	2448	
13	SCATPLM6	C	001	0059	2269	
13	SCAVTOC	C	001	0022	2221	2222
13	SCAVTON	C	001	0023	2222	2224
14	SCALOGSS	C	001	0027	2225	2227
14	SCANNCDP	C	001	0004	2394	
14	SCANNCDV	C	001	0010	2392	
15	SCANNCG	C	001	0008	2393	
15	SCANNCSF	C	001	0002	2395	
15	SCANNCL1	C	001	0008	2437	4129
15	SCANNCL2	C	001	0004	2438	4129
16	SCANNCL3	C	001	0002	2439	4129
16	SCANNCL4	C	001	0001	2440	4129
17	SCANNCL5	C	001	0040	2329	4092
17	SCANNCL6	C	001	0040	2390	
17	SCANNCL7	C	001	0080	2286	
18	SCANNCL8	C	001	0080	2149	
18	SCANNCL9	C	001	000E	2108	2110
18	SCANNCL0	C	001	0040	2519	
19	SCANNCL1	C	001	0080	2177	
19	SCANNCL2	C	001	0015	2186	2196 4309*
19	SCANNCL3	C	001	0040	2287	
20	SCANNCL4	C	001	0020	2411	

\*MSCPR \*MSCPR - COMMAND PROCESSOR UNIT ROUTINE

02	ERRR LOC	OBJECT CODE	ADDR	SYMT	SOURCE	STATEMENT
02	0999	5F 6F 6F 6F	4047		SILC	JOBULNTH-1(C112,WR1),JOBULNTH-1(C,WR1)
02	0999	5F 6F 6F 6F	4048	*	IF	WR2->SCADSSPF=ON(SCANNCL21) THEN /* K_21 FEATURE?
02	0999	5F 6F 6F 6F	4049		THEN	SCADSSPF(C,WR2),SCANNCL21
03	0999	F2 9D 0C	4050	*	IF	WR2->SCADCP53=ON(SCANNCL215) THEN /* AND SWITCHED?
03	0999	F2 9D 0C	4051		JF	*SCAD400

02	ERRR LOC	OBJECT CODE	ADDR	SYMT	SOURCE	STATEMENT
02	0999	CO 87 09CE	4097			
03	0999	F2 9D 0C	4098			
03	0999	F2 9D 0C	4099			
03	0999	F2 9D 0C	4100			

CROSS-REFERENCE						
02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
03	SCAMCFGS	C	001	0004	2192	
03	SCAMCLOG	C	001	0010	2190	
03	SCAMCLOK	C	001	0002	2282	
04	SCAMCNDE	C	001	0001	2174	
04	SCAMCNAT	C	001	0080	2164	
04	SCAMCOUT	C	001	0040	2339	
05	SCAMCPAF	C	001	0010	2341	
05	SCAMCPL	C	001	0080	2328	
05	SCAMCRAN	C	001	0008	2154	
06	SCAMCRT	C	001	0010	2273	
06	SCAMDATE	C	001	0008	2290	
06	SCAMDCKF	C	001	0040	2578	
07	SCAMDEAD	C	001	0001	2194	4309
07	SCAMDELE	C	001	0004	2343	
07	SCAMDFA	C	001	0010	2592	
08	SCAMDGM	C	001	0002	2292	
08	SCAMDPOK	C	001	00A5	2142	
08	SCAMDPU5	C	001	005A	2143	
09	SCAMDREC	C	001	0080	2363	
09	SCAMDS12	C	001	0001	2123	
09	SCAMDSKS	C	001	0081	2122	
10	SCAMDUAL	C	001	0080	2111	
10	SCAMDOMM	C	001	0001	2596	
10	SCAMEJCT	C	001	0004	2281	
11	SCAMERP	C	001	0001	2335	
11	SCAMFAIL	C	001	0010	2402	
11	SCAMFLOC	C	001	0010	2478	
12	SCAMFORK	C	001	0020	2401	
12	SCAMFUND	C	001	0004	2582	
12	SCAMHALC	C	001	0020	2476	
13	SCAMHDEL	C	001	0040	2470	
13	SCAMHELP	C	001	0020	2340	
13	SCAMHFT	C	001	0020	2473	
14	SCAMHLP	C	001	0020	2288	3864 4307
14	SCAMHSZ	C	001	000F	2482	
14	SCAMHWP	C	001	0080	2467	
15	SCAMICR1	C	001	0008	2403	
15	SCAMICR2	C	001	0002	2405	
15	SCAMICS	C	001	0004	2182	
16	SCAMICXC	C	001	0008	2593	
16	SCAMIOCL	C	001	0010	2580	
16	SCAMIPL	C	001	0010	2279	
17	SCAMIPLA	C	001	0080	2306	
17	SCAMIPLC	C	001	0040	2277	4352
17	SCAMIPLP	C	001	0010	2289	3864 4362 4366 4408 4443
18	SCAMJDBQ	C	001	0020	2166	4083
18	SCAMJDFM	C	001	0002	2158	4018 4066 4438
18	SCAMJDBD	C	001	0004	2156	
19	SCAMJUS	C	001	0004	2333	
19	SCAMKEYS	C	001	0080	2338	
19	SCAMKCKF	C	001	0080	2625	4284
20	SCAMKMSG	C	001	0002	2173	

*MSCPR *MSCPR - COMMAND PROCESSOR WAIT ROUTINE							
02	ERR	LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT
02	40480000		094C	00	07	094C	
03	40500000		094D	00	02	MSCAM47D	EQU *
03	40510000		4049				*/
03	40520000		4020				*/

02	ERR	LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT
02	40480000		0A31	3B	01	0014	
03	40490000						
03	40500000						
03	40510000						
03	40520000						

CROSS-REFERENCE				
SYMBOL	T	LEN	VALUE	DEFN REFERENCES
SCAMLATF	C	001	0008	2581
SCAMLCAF	C	001	0002	2183
SCAMLGER	C	001	0080	2399
SCAMLINI	C	001	0080	2432
SCAMLIN2	C	001	0040	2433
SCAMLIN3	C	001	0020	2434
SCAMLIN4	C	001	0010	2435
SCAMLSMF	C	001	0020	2559
SCAMLOTR	C	001	0020	2355
SCAMLOTX	C	001	0040	2354
SCAML1TR	C	001	0001	2207
SCAML1TX	C	001	0010	2203
SCAML2TR	C	001	0002	2206
SCAML2TX	C	001	0020	2202
SCAML3TR	C	001	0004	2205
SCAML3TX	C	001	0040	2201
SCAML4TR	C	001	0008	2204
SCAML4TX	C	001	0080	2200
SCAMPD32	C	001	0080	2187
SCAMPICA	C	001	0080	2409
SCAMPRIJE	C	001	0040	2179
SCAMPYBL	C	001	0008	2342 3980
SCAMP0000	C	001	0001	2584
SCAMPD10	C	001	0001	2184 4125 4250 4270 4278
SCAMP1E	C	001	0002	2193
SCAMPONK	C	001	0040	2400
SCAMPREP	C	001	0001	2283
SCAMPRT	C	001	00E0	2272
SCAMPRI0	C	001	0001	2620
SCAMPRI20	C	001	0002	2619
SCAMPRI40	C	001	0004	2618
SCAMPRI80	C	001	0008	2617
SCAMPUSF	C	001	0040	2165
SCAMPBLD	C	001	0008	2280 3862 4069 4412
SCAMPFCG	C	001	0002	2511
SCAMPILP	C	001	0020	2579
SCAMPSEC	C	001	0080	2518
SCAMPNAV	C	001	0040	2506 4314
SCAMPNCF	C	001	0001	2512 4314
SCAMPNFT	C	001	0010	2508
SCAMPNAV	C	001	0020	2507
SCAMPMS	C	001	0008	2181
SCAMPUSA	C	001	0080	2504 4314
SCAMPUSP	C	001	0040	2495
SCAMPUSV	C	001	0008	2509
SCAMPZK	C	001	0000	2106 2108
SCAMPACT	C	001	0010	2152
SCAMPSEC	C	001	0002	2334
SCAMPFLG	C	001	0008	2191
SCAMP5IZE	C	001	0006	2087 2095
SCAMP5JE	C	001	0020	2330
SCAMP5WF	C	001	0020	2189

ERR	LOC	OBJECT CODE	ADDR	SYMT	SOURCE	STATEMENT
42500000			4249	*	SCAMPRESK(1:1)=OFF(SCAMPD10);	/* RESET AUTOCALL SUPPORT */
42500000			4250		SBF SCAMPRES, SCAMPD10	4120
42500000			4251	*	END;	
42500000			4252	*	ELSE	
42500000			4253	*	DD;	/* DKEY INIT FOR AUTOCALL TASK */

CROSS-REFERENCE				
SYMBOL	T	LEN	VALUE	DEFN REFERENCES
SCAMSHFC	C	001	0020	2591
SCAMSHFM	C	001	0040	2188
SCAMSHNA	C	001	0010	2180
SCAMSPB	C	001	0001	2161
SCAMSPGP	C	001	0020	2151
SCAMSPOL	C	001	0010	2167 4083
SCAMSPRK	C	001	0040	2558
SCAMSRJE	C	001	0020	2178
SCAMST	C	001	0008	2332
SCAMSUBS	C	001	0004	2594
SCAMSWAP	C	001	0004	2510
SCAM32K	C	001	0010	2093
SCAMS48K	C	001	0018	2092
SCAMS64K	C	001	0020	2091
SCAMS96K	C	001	0030	2090
SCAMTACT	C	001	0001	2396
SCAMTELL	C	001	0001	2345
SCAMTOLD	C	001	0002	2344
SCAMUSF	C	001	0002	2595
SCAMWLD	C	001	0080	2545
SCAMWDR	C	001	0004	2169
SCAMWDRK	C	001	0008	2168
SCAMWSCB	C	001	0040	2410
SCAMWSE	C	001	0010	2331
SCAMWTC	C	001	0004	2291
SCAMXTRA	C	001	0080	2353
SCAMXZ1	C	001	0001	2632 4149
SCAMXZ15	C	001	0002	2583 4152
SCAMXZ11	C	001	0088	2442
SCAMXZ12	C	001	0044	2443
SCAMXZ13	C	001	0022	2444
SCAMXZ14	C	001	0011	2445
SCAMXZD	C	001	0001	2293
SCAMXZ28	C	001	0001	2315
SCAMXZ56	C	001	0002	2314
SCAMXZ12	C	001	0004	2313
SCAMXZ59	C	001	0041	2136
SCAMXZFF	C	001	0010	2311
SCAMXZMG	C	001	0000	2128
SCAMXZ24	C	001	0008	2312
SCAMXZ55	C	001	0080	2389
SCAMXZ8K	C	001	0046	2089
SCAMXZ96	C	001	0001	2127
SCAMXZ30	C	001	00C1	2137
SCAMXZ52	C	001	00E1	2138
SCAMXZFF	C	001	0020	2310
SCAMXZFF	C	001	0040	2309
SCAMXZ54K	C	001	0080	2088
SCAMXZ60	C	001	0001	2139
SCAMXZ76	C	001	00E1	2126
SCAMXZ7C	C	001	0040	2134
SCAMXZ96	C	001	0001	2135

SYMBOL	T	LEN	VALUE	DEFN	REFE
SCAOVER	C	001	0020	2278	4063
SCARDFMT	C	001	0067	2305	2317
SCARDVOL	C	001	0066	2303	2305
SCASDISK	C	001	000F	2110	2141
SCASHIST	C	001	0031	2233	2234
SCASHMSG	C	001	0038	2238	2239
SCASTOSS	C	001	0025	2224	2225
SCASHSG1	C	001	0038	2237	2238
SCASHSG2	C	001	0041	2240	2242
SCASPARK	C	001	0040	2364	
SCASSTWA	C	001	001A	2215	2216
SCASTOPS	C	001	0080	2577	
SCASHSG	C	001	003E	2239	2240
SCASYS	C	001	0000	2078	2080
SCASYS1	C	001	005B	2275	2285
SCASYS2	C	001	005C	2285	2296
SCATWASZ	C	001	001C	2216	2218
SCAUSERA	C	001	0049	2252	2253
SCAZKBAD	C	001	0008	2095	2098
SCAZKOK	C	001	0000	2096	
SCAZSPIN	C	001	0080	2112	
SCAZSPIN	C	001	0020	2113	
SCAZSPIN	C	001	0010	2114	
SETDUMP	C	001	0018	0470	
SEVEN	C	001	0007	0116	
SENIPL	C	001	0010	0459	
SIX	C	001	0006	0115	
SPECIAL	C	001	0007	0449	
START	C	001	00E2	0491	
STATEND	C	001	000F	0458	
STATUS	C	001	00C4	0486	
STOP	C	001	0007	0490	
STOPDOME	C	001	0013	0462	
STOPJOB	C	001	0028	0483	
STRTPRT	C	001	0011	0460	
SWCRSGN	C	001	000A	2657	
SWCRSGN	C	001	0006	2653	3932
SWCDDRM	C	001	0044	2703	
SWCDDMT	C	001	0050	2707	
SWCDSPEH	C	001	0027	2687	
SWCDUMP	C	001	0022	2682	
SWCEKIT	C	001	0011	2664	4402
SWCFD	C	001	0040	2699	
SWCFREE	C	001	0007	2654	4118
SWCFREEP	C	001	0013	2666	
SWCGTTP	C	001	0012	2665	
SWCGPOST	C	001	0001	2648	3900
SWCGMRT	C	001	0000	2647	
SWCDDMT	C	001	0045	2704	
SWCISEC	C	001	0008	2655	
SWCTD	C	001	0041	2700	
SWCDBTR	C	001	009C	2711	

ERR	LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT
42500000			4299	*/	*/	
42510000			4300	*/	*/	
42520000			4301	*/	PROCESS FOR REMOTE WORK STATIONS	*/
42530000			4302	*/	*/	
42540000			4303	*/	*/	
42550000			4304	*	FREE(REF)=ADDR(UNRSCA);	*/
					*/	REF PTR SCA

ERR	LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT
43000000						
43010000						
43020000						
43030000						
43040000						
43050000						

01		CROSS-REFERENCE				01	
02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES	02
03	SCADVER	C	001	0020	2278	4063 4069	03
	SCARDFMT	C	001	0067	2305	2317	
	SCARDVOL	C	001	0066	2303	2305 4350*	03
04	SCASDISK	C	001	000F	2110	2141	04
	SCASHIST	C	001	0031	2233	2234	
	SCASHMSG	C	001	0038	2238	2239	04
05	SCASTOSS	C	001	0025	2224	2225	05
	SCASMSG1	C	001	0038	2237	2238	
	SCASMSG2	C	001	0041	2240	2242	05
06	SCASPARK	C	001	0040	2364		06
	SCASSTMA	C	001	001A	2215	2216 3874	
	SCASTOPS	C	001	0080	2577		06
07	SCASMSG	C	001	003E	2239	2240	07
	SCASYS	C	001	0000	2078	2080 2083 2085	
	SCASYS1	C	001	005B	2275	2285 3862* 4063 4069* 4352*	07
	SCASYS2	C	001	005C	2285	2296 3864* 4307* 4362 4366* 4408 4412	
08	SCATWRSZ	C	001	001C	2216	2218 3875	08
	SCAUSER@	C	001	0049	2252	2253	
	SCAZKBD	C	001	0008	2095	2098	08
09	SCAZKOK	C	001	0000	2096		09
	SCAZSPIN	C	001	0080	2112		
10	SCASPTN	C	001	0020	2113		10
	SCAMSPIN	C	001	0010	2114		
	SETDUMP	C	001	001B	0470		10
11	SEVEN	C	001	0007	0116		11
	SGN1PL	C	001	0010	0459		
	SIX	C	001	0006	0115		11
	SPECIAL	C	001	0007	0449		
12	START	C	001	00E2	0491		12
	STATEND	C	001	000F	0458		
	STATUS	C	001	00C4	0486		12
13	STOP	C	001	0007	0490		13
	STOPDONE	C	001	0013	0462		
	STOPJOB	C	001	0028	0483		13
14	STRTPRT	C	001	0011	0460		14
	SNCASGN	C	001	000A	2657		
	SNCASGN	C	001	0006	2653	3932 3922 4141 4232	14
15	SNCDDPM	C	001	0044	2703		15
	SNCDDMT	C	001	0050	2707		
	SNCDDSPCH	C	001	0027	2687		15
16	SNCDDNP	C	001	0022	2682		16
	SNCCKIT	C	001	0011	2664	4402	
	SNCDFD	C	001	0040	2699		16
17	SNCDFREE	C	001	0007	2654	4118	17
	SNCDFREEP	C	001	0013	2666		
	SNCDETP	C	001	0012	2665		17
18	SNCPOST	C	001	0001	2648	3900	18
	SNCQDUNIT	C	001	0000	2647		
	SNCQDUNIT	C	001	0045	2704		18
19	SNCQDSEC	C	001	0008	2655		19
	SNCQD	C	001	0041	2700		
20	SNCQDTR	C	001	005C	2711		20

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01		MSQPR - PROCESS FOR REMOTE WORK STATIONS				01	
02	ERR	LOC	OBJECT	CODE	ADDR	SYMT	SOURCE STATEMENT
02	43080000				4351	*	WRI->SCASYS1(1:10)=DNC(SMPLIC); /* SET IPL PROCESSING COMPLETE */
	43010000				00AF	7A	40 5B
	43020000				4352		SBN SCASYS1C,WRI,SCAMPLIC
	43030000				4353	**/*	
	43040000				4354	**/*	IF A STARTUP PROCEDURE HAS BEEN REQUESTED, IT WILL BE STARTED

02	ERR	LOC	OBJECT	CODE	ADDR	SYMT	SOURCE STATEMENT
02							
03							

CROSS-REFERENCE				
01	02	03	04	05
SYMBOL	T	LEN	VALUE	DEFN
03	SVCLOAD	C	001	0052 2709
04	SVCLOG	C	001	001A 2673
04	SVCMOVEI	C	001	002A 2690
04	SVCOP	C	001	00F4 2735
04	SVCPIR	C	001	0000 2660
05	SVCPOST	C	001	0003 2650 4449
05	SVCPOSTA	C	001	0019 2672
05	SVCPOSTI	C	001	002B 2691
06	SVCPPSWC	C	001	000B 2658
06	SVCQSWC	C	001	004C 2705 4079
06	SVCPREP	C	001	0026 2686
07	SVCPRIQ	C	001	0024 2684
07	SVCPT	C	001	0042 2701
07	SVCQS	C	001	0020 2679
08	SVCQSCAN	C	001	001B 2674
08	SVCQUEUE	C	001	000E 2661
08	SVCQWAIT	C	001	002C 2692
09	SVCREQ	C	001	0021 2681
09	SVCROYCK	C	001	0025 2685
09	SVCREQ	C	001	0021 2680 2681
10	SVCRIPT	C	001	0028 2688
10	SVCSCB	C	001	000F 2662
10	SVCSESUW	C	001	0009 2656
11	SVCSEQ	C	001	0029 2689
11	SVCSTEST	C	001	0023 2683
11	SVCSTID	C	001	0015 2668
12	SVCSTH	C	001	001F 2678
12	SVCSTIN	C	001	0014 2667
12	SVCSTIR	C	001	0016 2669
13	SVCSTKAT	C	001	0017 2670
13	SVCSTOD	C	001	002E 2694
13	SVCSTPOST	C	001	0010 2676 4393
14	SVCSTUA	C	001	0051 2708
14	SVCSTWAIT	C	001	001E 2677 4454
15	SVCSTWTK	C	001	0005 2652
15	SVCSTWTK	C	001	0002 2649 4015
15	SVCSTWTC	C	001	0043 2702
15	SVCSTWF	C	001	0020 2693
16	SVCSTWFER	C	001	0004 2651 4025 4033 4056 4096 4171
16	SVCSTWFR	C	001	00F5 2736
16	SVCSTWENT	C	001	0010 2663 3994 4087 4106 4241 4293 4327 4342
17	SVCSTWRF	C	001	0018 2671
17	SVCSTWSD	C	001	0080 0832
17	SVCSTWYS	C	001	0040 1382
18	TABSFNCL	C	001	0020 0887
18	TABSFNDR	C	001	0010 2910 2911
18	TABSFNDR	C	001	001F 2911 2912
18	TABSFNDR1	C	001	0024 2914 2915
19	TABSFNDR2	C	001	0025 2915 2916
19	TABSFNDR3	C	001	0026 2916 2917
20	TABSFNDR4	C	001	0027 2917

PROCESS FOR REMOTE WORK STATIONS				
01	02	03	04	05
ERRR	LOC	OBJECT	CODE	ADDR STMT SOURCE STATEMENT
02	43520000			4400 * BEGIN;
02	43530000			4401 *SVCWGRD EQU *
02	43540000			4402 SVC SVCXKIT,BO /* EXIT TO COMMAND PROCESSOR */
03	43550000			4403 *SVCPRNT*:

01	02	03	04	05
SYMBOL	T	LEN	VALUE	DEFN
03	TCBAPSFR	C	001	0021 2912 2913
03	TCBQHDR	C	001	002F 2931
03	TCBARQ	C	001	0023 2913 2914
04	TCBARSE	C	001	0018 2907
04	TCBAKR1	C	001	0019 2908 2909
04	TCBAKR2	C	001	001B 2909 2910
05	TCBABTRM	C	001	0010 2996
05	TCBAEOEO	C	001	0002 3011
05	TCBAFAIL	C	001	005F 2943
06	TCBARQCT	C	001	0076 3023 3024
06	TCBASGNQ	C	001	0050 2941 2942
06	TCBASRMT	C	001	0002 2839
07	TCBATNS	C	001	0080 3026
07	TCBATRS	C	001	004F 2932 2933
07	TCBATTCB	C	001	0040 2994
08	TCBAWAIT	C	001	0080 2819
08	TCBAWST	C	001	0070 3014 3015
08	TCBBAT	C	001	0078 3035 3040
09	TCBBEGL	C	001	0028 2923 2924
09	TCBCAT	C	001	0071 3016 3017
09	TCBCATH	C	001	0070 3015
10	TCBCALL	C	001	0010 2847
10	TCBCAIN	C	001	0000 2898 2899
10	TCBCIKPT	C	001	0040 2845
11	TCBCIPLQ	C	001	0009 2894 2897
11	TCBCINT	C	001	0074 3019 3021
11	TCBCILPO	C	001	0004 2998
12	TCBCI2PO	C	001	0040 3006
12	TCBCI3PO	C	001	0020 3007
12	TCBCIB	C	001	0017 2906 2907
13	TCBCIEDO	C	001	0001 3033 4259
13	TCBCIEWAT	C	001	0008 2837
13	TCBCIKO	C	001	0001 3012
14	TCBCIKTAT	C	001	0020 2835
14	TCBCI2PO	C	001	0002 2850
14	TCBCI3PO	C	001	0001 3001
15	TCBCISKR	C	001	0040 3027
15	TCBCISKAT	C	001	0010 2836
15	TCBCI2PP	C	001	0020 3028
16	TCBCIWAIT	C	001	0010 2809 2815
16	TCBCIECHER	C	001	002F 2930
16	TCBCIECHW	C	001	0028 2924
17	TCBCIEKTY	C	001	005F 2942 2943
17	TCBCIEKTR	C	001	0020 2946
17	TCBCIFORCD	C	001	0020 2796
18	TCBCISAMP	C	001	0004 2800
18	TCBCIWAIT	C	001	0002 2828
18	TCBCIWAIT	C	001	0020 2808 2815
19	TCBCI2PP	C	001	0002 3000
19	TCBCIWAIT	C	001	0004 2838
19	TCBCI2PP	C	001	00E4 2940 4567
20	TCBCIEBEL	C	001	00EE 2970

PROCESS FOR REMOTE WORK STATIONS				
01	02	03	04	05
ERRR	LOC	OBJECT	CODE	ADDR STMT SOURCE STATEMENT
02	0827	BO		0827 *4401
03	082E	F4 DC 13		082E *4402

CROSS-REFERENCE				
SYMBOL	T	LEN	VALUE	DEFN REFERENCES
TCBAPSFR	C	001	0021	2912 2913
TCBAQHDR	C	001	002F	2931
TCBARQ	C	001	0023	2913 2914
TCBARSE	C	001	0018	2907
TCBAKR1	C	001	0019	2908 2909
TCBAKR2	C	001	0018	2909 2910
TCBABTRM	C	001	0010	2996
TCBAE0E0	C	001	0002	3011
TCBAFAIL	C	001	005F	2943
TCBARQCT	C	001	0076	3023 3024
TCBASGND	C	001	0050	2941 2942
TCBASRMT	C	001	0002	2839
TCBATNS	C	001	0080	3026
TCBATRS	C	001	004F	2932 2933
TCBATTCH	C	001	0040	2994
TCBAWAIT	C	001	0080	2819
TCBAMVCT	C	001	0070	3014 3015 3016
TCBBAT	C	001	0078	3035 3040
TCBDEGL	C	001	0028	2923 2924 2925
TCBCAT	C	001	0071	3016 3017
TCBCATH	C	001	0070	3015
TCBCCALL	C	001	0010	2847
TCBCHAIN	C	001	0000	2898 2899 4375 4379
TCBCHKPT	C	001	0040	2845
TCBCHPLQ	C	001	0009	2894 2897
TCBCHMT	C	001	0074	3019 3021
TCBCHLPD	C	001	0004	2998
TCBCHZPD	C	001	0040	3006
TCBCHOPD	C	001	0020	3007
TCBCHB	C	001	0017	2906 2907 2908 2913
TCBDED0	C	001	0001	3033 4259
TCBDEVAT	C	001	0008	2837
TCBDED	C	001	0001	3012
TCBCKTAT	C	001	0020	2835
TCBCKEPO	C	001	0002	2850
TCBCKPPD	C	001	0001	3001
TCBCKSTR	C	001	0040	3027
TCBCKSWT	C	001	0010	2836
TCBCKAPP	C	001	0020	3028
TCBCKMNT	C	001	0010	2809 2815 4386 4394 4455
TCBCKEYR	C	001	002F	2930
TCBCKEYW	C	001	0028	2924
TCBCKEYI	C	001	005F	2942 2943 2944
TCBCKEYNA	C	001	0020	2846
TCBCKFNCD	C	001	0020	2796
TCBCKSAMP	C	001	0004	2800
TCBCKMNTT	C	001	0002	2828
TCBCKMNTT	C	001	0020	2808 2815
TCBCKMNTT	C	001	0002	3000
TCBCKMNTT	C	001	0004	2838
TCBCKMNTT	C	001	00E4	2980 4567
TCBCKMNTT	C	001	00EE	2970

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SYMBOL	T	LEN	VALUE	DEFN
TCBIDBLD	C	001	00F9	2981
TCBIDBSC	C	001	00F5	2977
TCBIDBTS	C	001	00E6	2961
TCBIDCCP	C	001	00E8	2961
TCBIDCIC	C	001	00EC	2966
TCBIDCP	C	001	00F0	2977
TCBIDGA	C	001	00FE	2984
TCBIDGCE	C	001	00E8	2961
TCBIDIBS	C	001	00FD	2984
TCBIDIMS	C	001	00ED	2961
TCBIDINT	C	001	00EF	2977
TCBIDITH	C	001	00E5	2961
TCBIDJQ	C	001	00F2	2974
TCBIDMR	C	001	00F4	2974
TCBIDPER	C	001	00EA	2966
TCBIDOSP	C	001	00F6	2978
TCBIDOSD	C	001	00F8	2979
TCBIDSFS	C	001	00F3	2975
TCBIDSNE	C	001	00E7	2963
TCBIDSNF	C	001	00E9	2965
TCBIDSNR	C	001	00F8	2981
TCBIDSNI	C	001	00F7	2980
TCBIDSRI	C	001	00FA	2983
TCBIDS44	C	001	00FC	2985
TCBIDNPD	C	001	0001	2851
TCBIDNSP	C	001	0020	3044
TCBIDNCT	C	001	0058	2940
TCBIDQAT	C	001	0075	3021
TCBIDWAIT	C	001	0008	2810
TCBIDCB	C	001	0015	2905
TCBJSTIN	C	001	0004	2799
TCBKCALL	C	001	0008	2848
TCBKAMT	C	001	0001	2829
TCBKCKDI	C	001	0080	2947
TCBKCKHI	C	001	0004	2952
TCBKCKPK	C	001	0069	2946
TCBKCKPT	C	001	0008	2951
TCBKCKSI	C	001	0040	2948
TCBKCKSP	C	001	0002	2953
TCBKCKVI	C	001	0020	2949
TCBKCKSI	C	001	0010	2950
TCBKDISK	C	001	005A	2938
TCBKDEL	C	001	0057	2936
TCBKLEN	C	001	0080	3067
TCBKLNAT	C	001	0040	2834
TCBKLNCH	C	001	0010	2797
TCBKLNTH	C	001	0010	3008
TCBKLNKD	C	001	00E0	2987
TCBKLNK	C	001	0057	2937
TCBKLNTRK	C	001	0072	3017
TCBKLNWFL	C	001	0008	3009
TCBKLNWIZ	C	001	002C	2925

ERR LLOC	OBJECT CODE	ADDR	SYMT	SOURCE STATEMENT
0027	BC	0027	4451	BC ALL(CPREEMPT-0-D)
			4452	**** END OF EXPANSION ****
0028	F4 BC IF	0028	4454	WAIT INSK-TCBDMATT,0 /* WAIT FOR IPL COMPLETE 001457/
0028	LD	0028	4455	BC ALL(TCBDMATT)

01
02
03

01
02
03

CROSS-REFERENCE						
02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
03	TCBIDBLD	C	001	00F9	2982	4377 4500
03	TCBIDBSC	C	001	00F5	2977	
03	TCBIDBTS	C	001	00E6	2962	
04	TCBIDCCP	C	001	00EB	2967	
04	TCBIDCIC	C	001	00EC	2968	
04	TCBIDCP	C	001	00F0	2972	
05	TCBIDGA	C	001	00FE	2986	
05	TCBIDGCE	C	001	00E8	2964	
05	TCBIDIBS	C	001	00FD	2984	
06	TCBIDIMS	C	001	00ED	2969	
06	TCBIDINT	C	001	00EF	2971	
06	TCBIDITH	C	001	00E5	2961	
07	TCBIDJQ	C	001	00F2	2974	
07	TCBIDPR	C	001	00F4	2976	
07	TCBIDPER	C	001	00EA	2966	
08	TCBIDOSP	C	001	00F6	2978	
08	TCBIDSOS	C	001	00FB	2979	
08	TCBIDSFS	C	001	00F3	2975	
09	TCBIDSGE	C	001	00E7	2963	
09	TCBIDSNF	C	001	00E9	2965	
09	TCBIDSNR	C	001	00F8	2981	
10	TCBIDSNL	C	001	00F7	2980	
10	TCBIDSRJ	C	001	00FA	2983	
10	TCBIDS44	C	001	00FC	2985	
11	TCBIDQPD	C	001	0001	2851	
11	TCBIDQSP	C	001	0020	3044	
11	TCBIDNCT	C	001	0058	2940 2941	
12	TCBIDQNT	C	001	0075	3021 3023	
12	TCBIDWAT	C	001	0008	2810 2815	
12	TCBIDWB	C	001	0015	2905 2906 3843* 4109 4115*	
13	TCBIDJSTN	C	001	0004	2799	
13	TCBIDCALL	C	001	0008	2848	
13	TCBIDWAT	C	001	0001	2829	
14	TCBIDCKD1	C	001	0080	2947	
14	TCBIDCKD1	C	001	0004	2952	
14	TCBIDCKPK	C	001	0069	2946 2956	
15	TCBIDCKP1	C	001	0008	2951	
15	TCBIDCKS1	C	001	0040	2948	
15	TCBIDCKSP	C	001	0002	2953	
16	TCBIDCKVT	C	001	0020	2949	
16	TCBIDCKST	C	001	0010	2950	
16	TCBIDCKSK	C	001	005A	2938 2939 2940	
17	TCBIDCKREL	C	001	0057	2936 2937 2938	
17	TCBIDCKLEN	C	001	0080	3067	
17	TCBIDCKWAT	C	001	0043	3034	
18	TCBIDCKWCH	C	001	0010	2797	
18	TCBIDCKWTH	C	001	0010	3088	
18	TCBIDCKWUD	C	001	00E0	2987	
19	TCBIDCKPAC	C	001	0057	2937	
19	TCBIDCKPAC	C	001	0072	3017 3018	
19	TCBIDCKPFL	C	001	0008	3009	
20	TCBIDCKPSIZ	C	001	002C	2925 2926	

02	SYMBOL	T	LEN	VALUE	DEFN	REF
03	TCBMSTAB	C	001	0004	3010	
03	TCBNDUMP	C	001	0008	3030	
03	TCBNIDIO	C	001	0002	2801	
04	TCBNRDY	C	001	00BE	2815	
04	TCBNSCNT	C	001	0073	3018 3019	
04	TCBNSWAP	C	001	0001	2802	
05	TCBPRBCH	C	001	00C0	2886	
05	TCBPRBEL	C	001	00F0	2874	
05	TCBPRBLD	C	001	00F0	2867 4490	
06	TCBPRBSC	C	001	00F4	2859	
06	TCBPRBTS	C	001	00F0	2876	
06	TCBPRCCP	C	001	00F0	2871	
07	TCBPRCIC	C	001	00F0	2872	
07	TCBPRCIN	C	001	00D0	2885	
07	TCBPRCP	C	001	00FC	2856	
08	TCBPRPDF	C	001	00F1	2879	
08	TCBPREM	C	001	00F3	2860	
08	TCBPREXT	C	001	00F0	2861	
09	TCBPRGCE	C	001	00F0	2877	
09	TCBPRIMS	C	001	00F0	2873	
09	TCBPRINT	C	001	00F0	2875	
10	TCBPRINV	C	001	00FF	2855	
10	TCBPRIOR	C	001	0005	2853 2891	
10	TCBPRIQ	C	001	0060	2989 2991	
11	TCBPRITH	C	001	00F4	2862	
11	TCBPRPR	C	001	00F0	2858	
11	TCBPRPER	C	001	00F0	2870	
12	TCBPRSDP	C	001	00F8	2863	
12	TCBPRSDS	C	001	00F9	2864	
12	TCBPRSYE	C	001	00FB	2878	
13	TCBPRSNF	C	001	00F0	2869	
13	TCBPRSNR	C	001	00F0	2866	
13	TCBPRSNL	C	001	00F0	2865	
14	TCBPRSP	C	001	00F0	2857	
14	TCBPRSRJ	C	001	00F0	2868	
14	TCBPRSM	C	001	0000	2880	
15	TCBPRUDH	C	001	00E0	2881	
15	TCBPRUDL	C	001	0080	2889	
15	TCBPRUDM	C	001	0001	2882	
16	TCBPRUM	C	001	0080	2833	
16	TCBPRUSH	C	001	0008	2897 2898	
16	TCBPRWAT	C	001	0007	2893 2894	
17	TCBPRWAT	C	001	0008	2823	
17	TCBPRWQ	C	001	000F	2899 2900	
17	TCBPRWQ	C	001	0020	2926 2929	
18	TCBPRWSE	C	001	0027	2918 2922	
18	TCBPRWUB	C	001	0013	2902 2905	
18	TCBPRWUT	C	001	0004	2827	
19	TCBPRWVAC	C	001	0002	3046	
19	TCBPRWSD	C	001	0040	3043	
19	TCBPRWFLK	C	001	0010	3029	
20	TCBPRWDR	C	001	0080	2993	

02	ERR	LOC	OBJECT	CODE	ADDR	SYMT	SOURCE	STATEMENT
02	4484			*				
02	4485			**PRATCH			CREATE-YES, MISSIZ-?, SWAP-YES, PRIN-YES, REFRESH-YES,	
02	4486			*			DATA-Y, JNAME-Y, TASKID-TCBIDBLD, TUB-Y, REAL-YES,	
03	4487			*			PROR-TCBIDBLD, SYS-Y, INIT-Y	

02	ERR	LOC	OBJECT	CODE	ADDR	SYMT	SOURCE	STATEMENT
02	4485			0080				
02	4486			0080				
03	4487			0080				



CROSS-REFERENCE				
02	SYMBOL	T	LEN	VALUE DEFN REFERENCES
03	TCBNSTAB	C	001	0004 3010
03	TCBNDUMP	C	001	0008 3030
03	TCBNDIO	C	001	0002 2801
04	TCBNRDY	C	001	000E 2815
04	TCBNSCNT	C	001	0073 3018 3019 4370* 4390
04	TCBNSWAP	C	001	0001 2802
05	TCBPRBCH	C	001	00C0 2886
05	TCBPRBEL	C	001	00F0 2874
05	TCBPRBLD	C	001	00F0 2867 4496 4563
06	TCBPRBSC	C	001	00F4 2859
06	TCBPRBTS	C	001	00F0 2876
06	TCBPRCCP	C	001	00F0 2871
07	TCBPRCIC	C	001	00F0 2872
07	TCBPRCNW	C	001	00D0 2885
07	TCBPRCCP	C	001	00FC 2856
08	TCBPRDOF	C	001	00F1 2879
08	TCBPREH	C	001	00F3 2860
08	TCBPREXT	C	001	00F0 2861
09	TCBPRDCE	C	001	00F0 2877
09	TCBPRIMS	C	001	00F0 2873
09	TCBPRINT	C	001	00F0 2875
09	TCBPRINTV	C	001	00FF 2855
10	TCBPRIOR	C	001	0005 2853 2891
10	TCBPRIQ	C	001	0060 2909 2991
11	TCBPRITH	C	001	00F4 2862
11	TCBPRPR	C	001	00F0 2858
11	TCBPRPER	C	001	00F0 2870
12	TCBPRSDP	C	001	00F8 2863
12	TCBPRSDS	C	001	00F9 2864
12	TCBPRSYE	C	001	00F8 2878
13	TCBPRSNF	C	001	00F0 2869
13	TCBPRSNR	C	001	00F0 2866
13	TCBPRSNL	C	001	00F0 2865
14	TCBPRSP	C	001	00F0 2857
14	TCBPRSLJ	C	001	00F0 2868
14	TCBPRSMAT	C	001	0000 2880
15	TCBPRSDH	C	001	00E0 2881
15	TCBPRSDL	C	001	0080 2889
15	TCBPRSDH	C	001	00D1 2882
16	TCBPRMAT	C	001	0080 2833
16	TCBPRUSH	C	001	0008 2897 2898
16	TCBPRCHT	C	001	0007 2893 2894
17	TCBPRMAT	C	001	0008 2823
17	TCBPRDQ	C	001	000F 2899 2900 2901
17	TCBPRSLZ	C	001	0020 2926 2929
18	TCBPRSE	C	001	0027 2938 2922
18	TCBPRMAB	C	001	0013 2902 2905
18	TCBPRMAT	C	001	0004 2827
19	TCBPRSDAC	C	001	0002 3046
19	TCBPRSDSD	C	001	0040 3043
19	TCBPRFILK	C	001	0010 3029
20	TCBPRSDAC	C	001	0000 2998

MPCPR - DATA AREAS			
02	ERR	LOC	OBJECT CODE
02	4538	*	ADDRESS
02	4539	*	
03	0001	4540	WATERRO1 EQU 8'01
03	0002	4541	WATERRO2 EQU 8'02

MPCPR - DATA AREAS			
02	ERR	LOC	OBJECT CODE
02	0044	0000000000000000	
03	0041	780707F2	

01		CROSS-REFERENCE				
02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
03	TCBSTAR	C	001	0059	2939	
	TCBSMFDN	C	001	0080	3057	
	TCBSMFT	C	001	007C	3053	3060
04	TCBSNARQ	C	001	0002	3032	
	TCBSOP	C	001	0008	2798	
	TCBSPLRS	C	001	0040	3065	
05	TCBSPLSP	C	001	0010	3045	
	TCBSPOL	C	001	002F	2929	2930 2931 2932
	TCBSPUNK	C	001	0080	3042	
06	TCBSPWTR	C	001	0080	3064	
	TCBSQBCT	C	001	0068	2945	2946
	TCBSSTID	C	001	006A	2956	2958
07	TCBSTAT1	C	001	0000	2792	2804
	TCBSTAT2	C	001	0001	2804	2817 4386
	TCBSTAT3	C	001	0004	2842	2853
08	TCBSTAT4	C	001	006E	2991	3003 4420*
	TCBSTAT5	C	001	006F	3003	3014
	TCBSTAT6	C	001	0077	3024	3035 4259*
	TCBSTAT7	C	001	007E	3062	3067
09	TCBSUSP	C	001	0002	2812	2815
	TCBSUSPD	C	001	0004	2849	
	TCBSUSPS	C	001	0079	3040	3049
10	TCBSWAIT	C	001	0040	2820	3901
	TCBSWAPD	C	001	0040	2795	
	TCBSWAPQ	C	001	000F	2900	
11	TCBSYSM	C	001	0020	2995	4420
	TCBTAS	C	001	0020	2821	
12	TCBTERM	C	001	0080	2844	
	TCBTHBIT	C	001	0080	3005	
	TCBTQE	C	001	0067	2944	2945
13	TCBTSKID	C	001	0068	2958	2989 4377 4390*
	TCBTSSN	C	001	002A	2922	2923
	TCBTTC	C	001	0051	2933	2934 4076 4446
14	TCBTTIME	C	001	0006	2891	2893
	TCBTWA	C	001	0053	2934	2935
	TCBTWACL	C	001	0004	2999	
15	TCBTWAIT	C	001	0004	2811	2815
	TCBUDMPR	C	001	0080	3036	
	TCBWFLG	C	001	007A	3049	3053
16	TCBWAIT	C	001	0080	2794	
	TCBWAITD	C	001	0080	2806	2815
	TCBWIOSP	C	001	0001	3047	
17	TCBWIPSK	C	001	0002	2817	2831
	TCBWIPSK2	C	001	0003	2831	2842
	TCBWISLK	C	001	0004	3031	
18	TCBWSHA	C	001	0055	2935	2936
	TCBWAIT	C	001	0010	2822	
	TCBK	C	001	007D	3060	3062
	TCBWNTQ	C	001	0011	2901	2902
19	TCBWAIT	C	001	0040	2807	
	TCBZZRCS	C	001	0008	2997	
20	THREE	C	001	0003	0112	

01		#MISCPR #MISCPR - DATA AREAS							
02	ERR	LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT		
45390000	02	0B94	0000000000000000	0B98	4592	DC	XLB'D'	OUTPUT BY SYSTEM FIND	45930000
45400000					4593	**	END OF EXPANSION OF #FNDP		45940000
45410000					4594	**	END OF EXPANSION **		45950000
45420000	03	0B9C	78C7C3F2F1404040	0B93	4595	WTP#GC21	DC	CLB #GC21' X.Z1 TASK NAME	45960000

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CROSS-REFERENCE				
SYMBOL	T	LEN	VALUE	DEFN REFERENCES
01	TIME	C	001 000C	0455
03	TIMESTAT	C	001 0019	0468
	TPP#EOV	C	001 0000	3659
04	TRALOAD	C	001 0080	0831
04	TRUE	C	001 0010	0120
	TUB\$ACTV	C	001 0080	3167
	TUB\$CMPL	C	001 0040	3168
05	TUB\$CNCL	C	001 00C3	3195
	TUB\$DA	C	001 00C0	3190
	TUB\$DEAD	C	001 0002	3298
06	TUB\$DPST	C	001 0040	3615
	TUB\$DTCS	C	001 0001	3186
	TUB\$ERR	C	001 0001	3174
07	TUB\$EXEC	C	001 00C0	3192
	TUB\$EXTD	C	001 0020	3616
	TUB\$IDLE	C	001 00C2	3194
08	TUB\$KBDP	C	001 00C0	3339 3935
	TUB\$LOCK	C	001 0040	3563
	TUB\$MTR	C	001 00E3	3338
09	TUB\$NGLD	C	001 00E2	3337
	TUB\$NIO	C	001 0020	3158
	TUB\$NO2	C	001 0040	3180
10	TUB\$NRMD	C	001 0005	3301
	TUB\$OUPPT	C	001 0027	3206
	TUB\$PNSV	C	001 00E0	3191
11	TUB\$POFF	C	001 0007	3304
	TUB\$POLL	C	001 00C1	3193
	TUB\$PRMA	C	001 00E1	3336
12	TUB\$PUPM	C	001 0080	3614
	TUB\$PWI	C	001 00A7	3205
	TUB\$RACT	C	001 0000	3175
13	TUB\$RDIN	C	001 0042	3210
	TUB\$RDMD	C	001 0022	3212
	TUB\$RDSH	C	001 0062	3209
14	TUB\$RDUK	C	001 0006	3303
	TUB\$REAL	C	001 0040	3157
	TUB\$RSTR	C	001 0007	3211
15	TUB\$SANE	C	001 0002	3207
	TUB\$SANS	C	001 0006	3208
	TUB\$SKIP	C	001 0080	3156
16	TUB\$STANZ	C	001 00E0	3335
	TUB\$UERP	C	001 0080	3179
	TUB\$WH	C	001 0010	3182
17	TUB\$WTRM	C	001 0001	3457
	TUB\$WCV	C	001 0040	3796
	TUB\$WTC	C	001 0025	3385 3386
18	TUB\$WZM	C	001 0080	3491
	TUB\$WZMT	C	001 003E	3471 3472
	TUB\$WZMT	C	001 0020	3493
19	TUB\$WZND	C	001 0043	3476 3478
	TUB\$WZND	C	001 0004	3172
	TUB\$WZNL	C	001 0042	3475 3476

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ERRR	LOC	OBJECT	CODE	ADDR	SYMT	SOURCE	STATEMENT
02				4646 *			
02				4647 *			
03				4648 *		INTERNAL AREA	
03				4649 *			
04				4650 *		PATCH AREA	
04				4651 *		PATCH AREA	
04				4652 *		PATCH AREA	
05				4653 *			
05				4654 *		WHERE-TO-GO TABLE	
05				4655 *			

SYMBOL	T	LEN	VALUE	DEFN
01	TUBATTRA	C	001 0054	356
03	TUBATTRB	C	001 0058	357
	TUBATTRC	C	001 0058	358
04	TUBATTR1	C	001 0035	339
	TUBATTR2	C	001 0036	340
	TUBATTR3	C	001 0037	342
	TUBATTR4	C	001 0038	343
05	TUBATTR5	C	001 0039	344
	TUBATTR6	C	001 003A	345
	TUBATTR7	C	001 0044	347
06	TUBATTR8	C	001 0045	348
	TUBATTR9	C	001 0048	350
07	TUBAUT08	C	001 0020	318
	TUBBADGE	C	001 0080	3505
	TUBCHAIN	C	001 0013	333
08	TUBCLER	C	001 0010	355
	TUBCLR9D	C	001 0080	356
	TUBCMDRJ	C	001 0010	348
09	TUBCMD1	C	001 0001	352
	TUBCMD10	C	001 0020	353
	TUBCMD11	C	001 0040	353
10	TUBCMD12	C	001 0080	353
	TUBCMD13	C	001 0001	354
	TUBCMD14	C	001 0002	354
11	TUBCMD15	C	001 0004	354
	TUBCMD16	C	001 0008	354
	TUBCMD17	C	001 0010	354
12	TUBCMD18	C	001 0020	354
	TUBCMD19	C	001 0040	354
	TUBCMD2	C	001 0002	352
13	TUBCMD20	C	001 0080	353
	TUBCMD21	C	001 0001	353
	TUBCMD22	C	001 0002	353
14	TUBCMD23	C	001 0004	353
	TUBCMD24	C	001 0008	353
15	TUBCMD3	C	001 0004	352
	TUBCMD4	C	001 0008	352
	TUBCMD5	C	001 0010	352
	TUBCMD6	C	001 0020	352
16	TUBCMD7	C	001 0040	352
	TUBCMD8	C	001 0080	352
	TUBCMD9	C	001 0010	353
17	TUBCMD0	C	001 0003	3188
	TUBCMD00	C	001 0004	3203
	TUBCHK	C	001 0050	3547
18	TUBCHK1	C	001 004E	3520
	TUBCHK2	C	001 004F	3529
	TUBCHK3	C	001 0050	3538
19	TUBCONDN	C	001 0024	3375
	TUBCONPL	C	001 0001	3165
20	TUBCOUNT	C	001 0009	3216

CROSS-REFERENCE				
01	02	03	04	05
SYMBOL	T	LEN	VALUE	DEFN REFERENCES
TUBATTRA	C	001	0054	3561 3572
TUBATTRB	C	001	0058	3575 3585
TUBATTRC	C	001	0058	3587 3598
TUBATTR1	C	001	0035	3393 3404 3938
TUBATTR2	C	001	0036	3404 3426 3941 3976* 3978*
TUBATTR3	C	001	0037	3426 3437
TUBATTR4	C	001	0038	3437 3448
TUBATTR5	C	001	0039	3448 3459
TUBATTR6	C	001	003A	3459 3470
TUBATTR7	C	001	0044	3478 3489
TUBATTR8	C	001	0045	3489 3500
TUBATTR9	C	001	0048	3503 3515
TUBAUTOB	C	001	0020	3181
TUBBADGE	C	001	0080	3505
TUBCHAIN	C	001	0013	3331 3333 3929 3933 3954
TUBCLER	C	001	0010	3552
TUBCLRAD	C	001	0080	3562
TUBCMDRJ	C	001	0010	3483
TUBCMDT	C	001	0020	3397
TUBCMD1	C	001	0001	3528
TUBCMD10	C	001	0020	3532
TUBCMD11	C	001	0040	3531
TUBCMD12	C	001	0080	3530
TUBCMD13	C	001	0001	3546
TUBCMD14	C	001	0002	3545
TUBCMD15	C	001	0004	3544
TUBCMD16	C	001	0008	3543
TUBCMD17	C	001	0010	3542
TUBCMD18	C	001	0020	3541
TUBCMD19	C	001	0040	3540
TUBCMD2	C	001	0002	3527
TUBCMD20	C	001	0080	3539
TUBCMD21	C	001	0001	3537
TUBCMD22	C	001	0002	3536
TUBCMD23	C	001	0004	3535
TUBCMD24	C	001	0008	3534
TUBCMD3	C	001	0004	3526
TUBCMD4	C	001	0008	3525
TUBCMD5	C	001	0010	3524
TUBCMD6	C	001	0020	3523
TUBCMD7	C	001	0040	3522
TUBCMD8	C	001	0080	3521
TUBCMD9	C	001	0010	3533
TUBCMD	C	001	0003	3188 3201 3203
TUBCMD	C	001	0004	3203 3214
TUBCFSK	C	001	0050	3547 3548
TUBCFSK1	C	001	004E	3520 3529
TUBCFSK2	C	001	004F	3529 3538
TUBCFSK3	C	001	0050	3538 3547
TUBCOMMON	C	001	0024	3375 3385 3607
TUBCOMPL	C	001	0001	3165 3177
TUBCOUNT	C	001	0009	3216 3218 3324

MISCPR - MISCPR - DATA AREAS				
ERRR	LOC	OBJECT CODE	ADDR	SYMT SOURCE STATEMENT
46470000				
46480000				
46490000		00F6	D4E2D2D2	00F9 4696 DC (DL4 MISCK) *GATE START TRANSIENT
46500000		00FA	000000	00FA 4697 MISCKSSN EQU * 46980000
46510000		00FC	000000	00FC 4698 DC XLB 'BD' *MODULE 555 46990000
46520000		00FD	00	00FD 4699 DC (ALL)CO) *NUMBER OF TEXT SECTORS 47000000
46530000		00FE	00	00FE 4700 DC (ALL)CO) *RLD DISPLACEMENT 47010000
46540000				0000 4701 MISCPREND EQU *-1 *END OF MISCPR 47020000
46550000				4702 **..END CHANGE ACTIVITY - MISCPR 47030000
46560000		00FF	00	00FF 4703 MISCPREND EQU * 4503 47040000
46570000		000F	4704	END MISCPRENT 47050000

01	02	03	04	05
SYMBOL	T	LEN	VALUE	DEFN
TUBCPAID	C	001	0026	33
TURDATA	C	001	003C	34
TURDATA	C	001	0007	32
TUBDEVIC	C	001	0003	32
TUBDEVID	C	001	0014	33
TUBDXTA	C	001	0053	35
TUBDGTUB	C	001	005A	35
TUBDMATX	C	001	0057	35
TUBDPRST	C	001	002F	36
TUBDRESV	C	001	0027	33
TUBECM	C	001	0000	31
TUBERAID	C	001	0018	33
TUBERBFG	C	001	0017	33
TUBERPCT	C	001	0016	33
TUBERRCT	C	001	001E	33
TUBFCNSL	C	001	0001	34
TUBFLAG	C	001	0002	31
TUBFMSK	C	001	0051	35
TUBGATJD	C	001	0010	35
TUBGATJP	C	001	0040	36
TUBGCHAR	C	001	0047	35
TUBHELP	C	001	0008	35
TUBHELPM	C	001	0047	35
TUBHPND	C	001	0002	34
TUBHZQ	C	001	0080	34
TUBIARF	C	001	0010	34
TUBIDEL	C	001	0001	34
TUBIIS	C	001	0080	34
TUBIMI	C	001	0040	34
TUBINPA	C	001	0002	34
TUBINQ1	C	001	0040	34
TUBINQ2	C	001	0020	34
TUBIDERR	C	001	0040	34
TUBIPS	C	001	0020	34
TUBIQPP	C	001	0010	34
TUBJCB	C	001	0032	33
TUBKBULK	C	001	0001	34
TUBKOPLY	C	001	0080	35
TUBKKB	C	001	0040	35
TUBKPWR	C	001	0080	36
TUBLEN	C	001	0060	35
TUBLOER	C	001	0004	34
TUBLOFR	C	001	0002	34
TUBLOIP	C	001	0002	34
TUBLIUS	C	001	0002	34
TUBLOP	C	001	0020	34
TUBLOFF	C	001	0040	34
TUBLODF	C	001	0010	34
TUBLOPD	C	001	0020	34
TUBLOPN	C	001	0080	33
TUBLOPNSL	C	001	0040	34
TUBLOPNT	C	001	0004	35

01	02	03	04	05
SYMBOL	T	LEN	VALUE	DEFN
WATERBATCH	C	001	0001	
WATERBATCH	C	001	0090	
WATERCOMMON	C	001	0040	
WATERDATA	C	001	000E	
WATERDATA	C	001	001E	
WATERROZ	C	001	0000	
WATERROZ	C	001	0000	
WATERROZ	C	001	0000	

CROSS-REFERENCE				
02	SYMBOL	T LEN	VALUE	DEFN REFERENCES
03	TUBCPAID	C 001	0026 3386	3387
03	TUBCTSAV	C 001	003C 3470	3471
03	TURDATA	C 001	0007 3215	3216
04	TUBDEVIC	C 001	0003 3201	
04	TUBDEVIC	C 001	0014 3333	3341 3935
04	TUBDEXTA	C 001	0053 3557	3561
05	TUBDGTUB	C 001	005A 3585	3587
05	TUBDMATX	C 001	0057 3573	3575
05	TUBDPRST	C 001	002F 3613	3622
06	TUBDRESV	C 001	0027 3387	3388
06	TUBECM	C 001	0000 3154	3165
06	TUBERAID	C 001	0018 3355	3356
07	TUBERBFG	C 001	0017 3349	3355
07	TUBERPCT	C 001	0016 3343	3349
07	TUBERRCT	C 001	001E 3369	3370
08	TUBFCNSL	C 001	0001 3402	
08	TUBFLAG	C 001	0002 3177	3188
08	TUBFMSK	C 001	0051 3548	3557
09	TUBGATJD	C 001	0010 3580	
09	TUBGATJP	C 001	0040 3631	
09	TUBGCHAR	C 001	0047 3501	
10	TUBHELP	C 001	0008 3553	
10	TUBHELPM	C 001	0047 3500	3501 3503
10	TUBHPND	C 001	0002 3467	
11	TUBHZQ	C 001	0080 3439	
11	TUBIARF	C 001	0010 3431	
11	TUBIDEL	C 001	0001 3446	
12	TUBITS	C 001	0080 3428	
12	TUBIMI	C 001	0040 3429	
12	TUBINPA	C 001	0002 3423	
13	TUBINQ1	C 001	0040 3440	
13	TUBINQ2	C 001	0020 3441	
13	TUBIOERR	C 001	0040 3481	
14	TUBIPS	C 001	0020 3430	
14	TUBIQMP	C 001	0010 3442	
14	TUBJCB	C 001	0032 3390	3391 3839 3984
15	TUBKBULK	C 001	0001 3468	
15	TUBKDPLY	C 001	0080 3577	
15	TUBKKBD	C 001	0040 3578	
16	TUBKPATR	C 001	0080 3630	
16	TUBLEN	C 001	0060 3599	
16	TUBLIOER	C 001	0004 3485	
17	TUBLIOFR	C 001	0002 3401	
17	TUBLIOIP	C 001	0002 3486	
17	TUBLIUS	C 001	0002 3445	
18	TUBLOP	C 001	0020 3452	
18	TUBLOFF	C 001	0040 3492	
18	TUBMBOCF	C 001	0010 3464	
19	TUBMCPD	C 001	0020 3416	
19	TUBMCH	C 001	0080 3395	3938
19	TUBMCHSL	C 001	0040 3414	
20	TUBMCOU	C 001	0004 3569	

CROSS-REFERENCE				
02	SYMBOL	T LEN	VALUE	DEFN REFERENCES
03	WATBATCH	C 001	0001 4531	
03	WATBATCH	C 001	0090 4517	
03	WATCONDN	C 001	0040 4525	
04	WATCREAT	C 001	0080 4504	4515 4516 4517
04	WATDATA	C 001	0008 4510	4515
04	WATDATA	C 001	0018 4533	3972* 4534
05	WATERRO1	C 001	0001 4540	
05	WATERRO2	C 001	0002 4541	
05	WATERRO3	C 001	0003 4543	

		CROSS-REFERENCE					
01	02	SYMBOL	T LEN	VALUE	DEFN	REFERENCES	
03		TUBMDATA	C 001	0010	3417	3978	
		TUBMDOTA	C 001	0010	3494		
		TUBMDME	C 001	0070	3418		
04		TUBMENUA	C 001	0008	3421		
		TUBMENU2	C 001	0020	3507		
		TUBMHLP	C 001	0004	3595		
05		TUBMHOLD	C 001	0010	3565		
		TUBMIC	C 001	001A	3356	3358	
		TUBMINIT	C 001	0030	3419		
06		TUBMTQDS	C 001	0020	3482		
		TUBMKANJ	C 001	0020	3579		
		TUBMLOCL	C 001	0040	3199		
07		TUBMOFF	C 001	0020	3564		
		TUBMRDTA	C 001	0008	3465		
		TUBMRTSC	C 001	0010	3508		
08		TUBMSGGA	C 001	0001	3424		
		TUBMSGCT	C 001	003F	3472	3475	
		TUBMSGID	C 001	0055	3572	3573	
09		TUBMSGRT	C 001	0080	3473		
		TUBMSGR2	C 001	0040	3474		
		TUBMSTDY	C 001	0080	3413		
10		TUBMSUB	C 001	00C0	3200		
		TUBMSTN	C 001	0040	3415	3941 3978	
		TUBNOSUB	C 001	0002	3570		
11		TUBONL	C 001	0008	3183		
		TUBOPSTS	C 001	0030	3389	3390	
		TUBOPTS	C 001	001B	3358	3368	
12		TUBORN	C 001	0040	3451		
		TUBORY	C 001	0080	3450		
		TUBPATRI	C 001	0034	3629	3638	
13		TUBPCFGA	C 001	0022	3372	3373	
		TUBPCRLN	C 001	002D	3611	3612	
		TUBPELEN	C 001	0040	3642		
14		TUBPERES	C 001	003F	3641	3642	
		TUBPEXTA	C 001	0026	3607	3608	
		TUBPFMLN	C 001	002C	3610	3611	
15		TUBPFIND	C 001	002B	3609	3610	
		TUBPGTUB	C 001	0033	3627	3629	
		TUBLEN	C 001	0030	3622	3626	
16		TUBPLPI	C 001	0035	3638	3641	
		TUBPPXPP	C 001	002E	3612	3613	
		TUBPRESV	C 001	0027	3608	3609	
17		TUBPRT	C 001	0080	3549		
		TUBPSUBC	C 001	0031	3626	3627	
		TUBQHDR	C 001	0015	3341	3343	
18		TUBRAMER	C 001	0001	3597		
		TUBRCBK	C 001	0004	3554		
		TUBRCNCL	C 001	0083	3198		
19		TUBRPMOD	C 001	0001	3571		
		TUBRDYIP	C 001	0001	3487		
		TUBRDYPD	C 001	0001	3512		
20		TUBREADY	C 001	0008	3484		

		CROSS-REFERENCE					
01	02	SYMBOL	T LEN	VALUE	DEFN	REFERENCES	
		IFNDDOPR	C 001	0009	0157	0171	
03		IFNDDREL	C 001	000E	0201	0202	
		IFNDDRLD	C 001	0008	0184	0189 0194	
04		IFNDDISCT	C 001	0007	0181	0184	
		IFNDDTMS	C 001	0009	0189	0190	
		IFNDDTOT	C 001	0010	0202	0208 4175	
		IFNDDTYP	C 001	0000	0150	0155 0174	
05		IFNDDLEN	C 001	0012	0211	4167 4167* 4206 4206*	
		IFNDDLDR	C 001	0040	0160		

CROSS-REFERENCE

02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
03	TUBREXEC	C	001	0000	3196	
04	TUBRFSS	C	001	004A	3515	3516
05	TUBRFDSP	C	001	0040	3518	3520
06	TUBRFN	C	001	004B	3516	3517
07	TUBRFSS	C	001	004A	3515	3516
08	TUBRTISU	C	001	0004	3184	
09	TUBRINCM	C	001	0002	3185	
10	TUBRIFOV	C	001	0008	3581	
11	TUBRLDN	C	001	0020	3551	
12	TUBRLUP	C	001	0040	3550	
13	TUBRPOLL	C	001	0001	3197	
14	TUBRSF	C	001	0008	3454	
15	TUBRST1	C	001	0008	3443	
16	TUBRST2	C	001	0004	3444	
17	TUBRSVD	C	001	005F	3598	3599
18	TUBRSW	C	001	0010	3453	
19	TUBSENSE	C	001	000F	3324	3325
20	TUBSENS0	C	001	000A	3218	3233
21	TUBSENS1	C	001	0008	3233	3245
22	TUBSENS2	C	001	000C	3245	3263
23	TUBSENS3	C	001	000D	3263	3265
24	TUBSENS4	C	001	000E	3265	3322
25	TUBSENS5	C	001	000F	3322	
26	TUBSEN	C	001	0010	3398	3398
27	TUBSIANF	C	001	0001	3435	
28	TUBSIIS	C	001	0008	3432	
29	TUBSIPI	C	001	0004	3433	
30	TUBSIQCT	C	001	0010	3368	3369
31	TUBSIIPS	C	001	0002	3434	
32	TUBSIILK	C	001	0004	3466	
33	TUBSIHQ	C	001	0002	3456	
34	TUBSIHQD	C	001	0000	3480	
35	TUBSIATA	C	001	0004	3422	
36	TUBSIPTJ	C	001	0004	3400	
37	TUBSIHCH	C	001	0008	3568	
38	TUBSIWER1	C	001	0004	3510	
39	TUBSIWER2	C	001	0002	3511	
40	TUBSIWDD	C	001	0008	3509	
41	TUBSIYLSL	C	001	0020	3463	
42	TUBSIYCB	C	001	0024	3373	3375
43	TUBSIYCB	C	001	0011	3325	3331
44	TUBSIYHQ	C	001	0008	3399	
45	TUBSIYHB	C	001	0034	3391	3393 3440
46	TUBSIYHCB	C	001	0005	3214	3215
47	TUBSIYSER	C	001	002F	3388	3389
48	TUBSIYSSW	C	001	0040	3462	
49	TUBSIYSH	C	001	0000	3461	
50	TUBSIYSD	C	001	0020	3390	3371 4224
51	TUBSIYSHA	C	001	0022	3371	3372
52	TUBSIYSLGJ	C	001	0000	3509	
53	TUBSIYNFL	C	001	0020	3591	

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CROSS-REFERENCE

02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
03	ABCDEFBAND	C	001	0002	1033	
04	ABCDEFATCH	C	001	0010	1030	1037
05	ABCDEFREAL	C	001	0040	1028	1037
06	ABCDEFSET	C	001	00FC	1037	
07	ABCDEFASK	C	001	0080	1027	1037
08	ABCDEFB	C	001	0004	1032	1037
09	ABCDEFBN	C	001	0008	1031	1037
10	ABCDEFBPHY	C	001	0020	1029	1037
11	ABCDEFBTT	C	001	0080	0803	

CROSS-REFERENCE

02	SYMBOL	T	LEN	VALUE
03	TUBOUNGJ	C	001	0040
04	TUB1OPT	C	001	0002
05	TUB2IG	C	001	0008
06	TUB2RF	C	001	0010
07	TUB2UG	C	001	0018
08	TUB960	C	001	0040
09	TUAPCEND	C	001	0014
10	TUAPCNLS	C	001	000F
11	TUAPCOTM	C	001	002E
12	TUAPCSFQ	C	001	003C
13	TUAPCURI	C	001	000E
14	TUAPERPS	C	001	0033
15	TUAPINQ	C	001	0017
16	TUAPLCL	C	001	0009
17	TUAPLGT0	C	001	0022
18	TUAPLOGC	C	001	0030
19	TUAPLOGR	C	001	002F
20	TUAPMDSA	C	001	0008
21	TUAPMDO1	C	001	0008
22	TUAPMUSE	C	001	0000
23	TUAPMCLC	C	001	0037
24	TUAPMSBC	C	001	0006
25	TUAPMSDE	C	001	0007
26	TUAPMSFO	C	001	0008
27	TUAPMS12	C	001	0001
28	TUAPMS34	C	001	0002
29	TUAPMS56	C	001	0003
30	TUAPMS78	C	001	0004
31	TUAPMS9A	C	001	0005
32	TUAPMNG	C	001	0039
33	TUAPMSWE	C	001	000C
34	TUAPMSCV	C	001	000F
35	TUAPMCO1	C	001	0001
36	TUAPMSNS	C	001	000A
37	TUAPMSTAT	C	001	0027
38	TUAPMISQ	C	001	0031
39	TUAPMUSER	C	001	000C
40	TUAPMUSA	C	001	0018
41	TUAPMSSS	C	001	0020
42	TUAPMLAT	C	001	0038
43	TUAPMDET	C	001	0000
44	TUAPMLND	C	001	0000
45	TUAPMPT	C	001	0001
46	TUAPMREL	C	001	0040
47	TUAPMYS	C	001	0002
48	TUAPMTR	C	001	0000
49	TUAPMUSA	C	001	0004
50	TUAPMLATE	C	001	0000
51	TUAPMLLN	C	001	0000
52	TUAPMHP	C	001	0002
53	TUAPMPL	C	001	0003
54	TUAPM	C	001	0007

CROSS-REFERENCE

02	SYMBOL	T	LEN	VALUE
03	CINCIPITC	C	001	0027
04	CINCIPLEN	C	001	002F
05	CINCIPSSB	C	001	0029
06	CINCIPSR	C	001	000C
07	CINCIPUN	C	001	000C
08	CINCIPV	C	001	000C
09	CINCIPW	C	001	000C
10	CINCIPX	C	001	000C
11	CINCIPY	C	001	000C
12	CINCIPZ	C	001	000C
13	CINCIPAA	C	001	000C
14	CINCIPBB	C	001	000C
15	CINCIPCC	C	001	000C
16	CINCIPDD	C	001	000C
17	CINCIPEE	C	001	000C
18	CINCIPFF	C	001	000C
19	CINCIPGG	C	001	000C
20	CINCIPHH	C	001	000C
21	CINCIPII	C	001	000C
22	CINCIPJJ	C	001	000C
23	CINCIPKK	C	001	000C
24	CINCIPLL	C	001	000C
25	CINCIPMM	C	001	000C
26	CINCIPNN	C	001	000C
27	CINCIPOO	C	001	000C
28	CINCIPPP	C	001	000C
29	CINCIPQQ	C	001	000C
30	CINCIPRR	C	001	000C
31	CINCIPSS	C	001	000C
32	CINCIPTT	C	001	000C
33	CINCIPUU	C	001	000C
34	CINCIPVV	C	001	000C
35	CINCIPWW	C	001	000C
36	CINCIPXX	C	001	000C
37	CINCIPYY	C	001	000C
38	CINCIPZZ	C	001	000C

CROSS-REFERENCE						
02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
03	TUBOUNGJ	C	001	0040	3590	
03	TUB1OPT	C	001	0002	3596	
03	TUB2IG	C	001	0008	3593	
04	TUB2RF	C	001	0010	3592	
04	TUB2UG	C	001	0018	3594	
04	TUB960	C	001	0040	3506	
05	TWAPCEND	C	001	0014	3692	
05	TWAPCNLS	C	001	000F	3697	
05	TWAPCOMM	C	001	002E	3677	
06	TWAPCSHQ	C	001	003C	3702	
06	TWAPCURI	C	001	000E	3695	
06	TWAPERPS	C	001	0033	3700	
07	TWAPINQ	C	001	0017	3673	
07	TWAPLCL	C	001	0009	3668	
07	TWAPLGI0	C	001	0022	3674	
08	TWAPLOGC	C	001	0030	3679	
08	TWAPLOGR	C	001	002F	3678	
08	TWAPMDSA	C	001	0008	3670	
09	TWAPMDO1	C	001	0008	3693	
09	TWAPMUSE	C	001	0000	3689	
09	TWAPMCLC	C	001	0037	3682	
10	TWAPPSBC	C	001	0006	3665	
10	TWAPPSDE	C	001	0007	3666	
10	TWAPPSFO	C	001	0008	3667	
11	TWAPPS12	C	001	0001	3660	4426 4434
11	TWAPPS34	C	001	0002	3661	
11	TWAPPS56	C	001	0003	3662	
12	TWAPPS78	C	001	0004	3663	
12	TWAPPS9A	C	001	0005	3664	
12	TWAPRRNG	C	001	0039	3684	
13	TWAPSAVE	C	001	000C	3671	
13	TWAPSCSV	C	001	000F	3696	
13	TWAPSC01	C	001	0001	3690	
14	TWAPSSINS	C	001	000A	3669	
14	TWAPSTAT	C	001	0027	3699	
14	TWAPTRIQ	C	001	0031	3680	
15	TWAPUSER	C	001	000C	3672	
15	TWAPUSSA	C	001	001B	3698	
15	TWAPUSSS	C	001	0020	3676	
16	TWAPPLAT	C	001	0038	3683	
16	TWANGET	C	001	0000	3650	
16	TWANLOAD	C	001	0080	0833	
17	TWANPUT	C	001	0001	3649	
17	TWANREAL	C	001	0040	3654	
17	TWANSYS	C	001	0002	3651	
18	TWANTAN	C	001	0000	3653	
18	TWANUSMA	C	001	0004	3652	
18	TWANULATE	C	001	0000	3655	
19	TWANLEN	C	001	0008	3712	
19	TWANRWP	C	001	0002	3707	3709
19	TWANRWP1	C	001	0003	3708	
20	TWANRWH	C	001	0007	3711	3712

CROSS-REFERENCE						
02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
03	CPWMLC	C	001	0027	0529	0524 4535* 4634
03	CPWMLLEN	C	001	0028	0536	
03	CPWMLSDR	C	001	002A	0539	4540*
04	CPWMLSUB	C	001	0002	0518	
04	CPWMLTNRV	C	001	0080	0525	
04	CPWMLTND	C	001	0040	0527	
05	CPWMLTUT	C	001	0080	0506	4631
05	CPWMLTOL	C	001	0020	0510	4631
05	CPWMLSTAT	C	001	0010	0531	

CROSS-REFERENCE					
02	SYMBOL	T	LEN	VALUE	DEFN
03	TWAXNEXT	C	001	0004	3709
03	TWAXSS	C	001	0006	3710
03	TW0	C	001	0002	0111
04	UNCOND	C	001	0087	0122
04	VARY	C	001	00E5	0488
04	WAITEND	C	001	0080	4620
05	WDPLNE	C	001	000F	0407
05	WDACI	C	001	0008	0337
05	WDACQ	C	001	0009	0338
06	WDAEOJ	C	001	00F8	0378
06	WDAEOS	C	001	00F0	0377
06	WDATD	C	001	000C	0387
07	WDASFL	C	001	00FF	0379
07	WDCANL	C	001	0010	0372
07	WDCANLG	C	001	0011	0374
07	WDCANLI	C	001	0015	0373
08	WDCLR	C	001	0080	0355
08	WDCPHELP	C	001	00FF	0390
09	WDEFFL	C	001	0005	0383
09	WDEGTA	C	001	0000	0342
09	WDELNE	C	001	0011	0409
10	WDERS	C	001	0040	0352
10	WDETG	C	001	0041	0353
10	WDETI	C	001	0045	0354
11	WDEVE	C	001	0088	0357
11	WDEVG	C	001	0081	0359
11	WDEVI	C	001	0085	0358
12	WDEVK	C	001	0080	0356
12	WDFAIL	C	001	0032	0368
12	WDFPH	C	001	0012	0362
13	WDFPHG	C	001	0013	0364
13	WDFPHI	C	001	0017	0363
13	WDFPHD	C	001	0040	0315
14	WDFMTN	C	001	0016	0412
14	WDGET	C	001	0001	0330
14	WDGTA	C	001	000C	0341
15	WDINDA	C	001	0014	0411
15	WDINW	C	001	0005	0334
15	WDIOPC	C	001	0000	0388
16	WDLN	C	001	0017	0413
16	WONEOJ	C	001	00E8	0376
16	WONEOS	C	001	00E0	0375
17	WONGRP	C	001	0020	0369
17	WONGRPG	C	001	0021	0371
17	WONGRPI	C	001	0025	0370
18	WONWA	C	001	0004	0333
18	WOPPC	C	001	0003	0328
18	WOPPM	C	001	0002	0311
19	WODUTL	C	001	0005	0382
19	WODWR	C	001	0040	0314
19	WODEC	C	001	0042	0360
20	WODEF	C	001	0022	0361



CROSS-REFERENCE				
02	SYMBOL	T	LEN	VALUE DEFN REFERENCES
01				
03	TWAXNEXT	C	001	0004 3709 3710
	TWAXSS	C	001	0006 3710 3711
	TWD	C	001	0002 0111
04	UNCOND	C	001	0087 0122
	VARY	C	001	00E5 0488
	WAITEND	C	001	0080 4620 4041 4044
05	WDMLNE	C	001	000F 0407 0408
	WDACI	C	001	0008 0337
	WDACQ	C	001	0009 0338
06	WDAEOJ	C	001	00F8 0378
	WDAEOS	C	001	00F0 0377
	WDAID	C	001	000C 0387 0388
	WDASFL	C	001	00FF 0379
07	WDCANL	C	001	0010 0372
	WDCANLG	C	001	0011 0374
	WDCANLI	C	001	0015 0373
08	WDCLR	C	001	0080 0355
	WDCPHELP	C	001	00FF 0390
09	WDEFFL	C	001	0005 0383 0384
	WDEGTA	C	001	0000 0342
	WDELNE	C	001	0011 0409 0410
10	WDERS	C	001	0040 0352 0353 0354
	WDETG	C	001	0041 0353
	WDETI	C	001	0045 0354
	WDEVE	C	001	0088 0357
11	WDEVG	C	001	0081 0359
	WDEVI	C	001	0085 0358
12	WDEVK	C	001	0080 0356
	WDFAIL	C	001	0032 0368
	WDFPH	C	001	0012 0362
13	WDFPHG	C	001	0013 0364
	WDFPHI	C	001	0017 0363
	WDFPHD	C	001	0040 0315
	WDFPHN	C	001	0016 0412 0413
14	WDGET	C	001	0001 0330 0332 0334 0346 0350 0353
	WDGTA	C	001	000C 0341
15	WDINDA	C	001	0014 0411 0412
	WDINW	C	001	0005 0334 0336 0348 0351 0354
	WDIOPC	C	001	0000 0388 0392 0401
16	WDLEN	C	001	0017 0413 0415
	WDNEOJ	C	001	00E8 0376
	WDNEOS	C	001	00E0 0375
17	WDNERP	C	001	0020 0369
	WDNERPG	C	001	0021 0371
	WDNERPI	C	001	0025 0370
	WDNDW	C	001	0004 0333 0334 0335
18	WDOPC	C	001	0003 0328 0382
	WDOPH	C	001	0002 0311 0328
	WDOUTL	C	001	0005 0382 0383
19	WDQWR	C	001	0040 0314
	WDPEC	C	001	0042 0360
20	WDPEF	C	001	0022 0361

CROSS-REFERENCE				
02	SYMBOL	T	LEN	VALUE DEFN REFERENCES
01				
03	CPWARK	C	001	0028 0547 0556
	CPWARKR	C	001	007C 0548 0584
	CPWASUM	C	001	0016 0425 0429
	CPWASUMFN	C	001	0080 0592 0594
04	CSCALL	C	001	0080 2730
	CXNCIDIMP	C	001	0019 0640
	CXADINETT	C	001	0012 0633
05	CXASIGB	C	001	0003 0617
	CXCCOMBNT	C	001	0014 0625

CROSS-REFERENCE				
02	SYMBOL	T	LEN	VALUE DEFN REFERENCES
01				
03	WDPEX	C	001	001A 0365
	WDPMW	C	001	0006 0335 0347
	WDPOGE	C	001	0045 0301
04	WDPRUF	C	001	0008 0319
	WDPTG	C	001	0001 0325
	WDPTH	C	001	0003 0332
05	WDPTI	C	001	0020 0317
	WDPUT	C	001	0007 0336
	WDRAAC	C	001	0002 0331 0332 0335
06	WDRAACR	C	001	0001 0287
	WDRAFN	C	001	0011 0291
	WDRAFS	C	001	0038 0298
07	WDRAFS	C	001	0032 0296
	WDRAFW	C	001	0018 0293
	WDRAQD	C	001	0008 0290
08	WDRCOG	C	001	0041 0367
	WDRCDI	C	001	0045 0366
	WDRCCL	C	001	0020 0405
09	WDRCMD	C	001	0004 0323
	WDRCN	C	001	0040 0404
	WDRCOS	C	001	000E 0343
10	WDRCOSN	C	001	0008 0320
	WDRECA	C	001	0007 0384 0385
	WDREL	C	001	000A 0340
	WDRES	C	001	0020 0349 0350 0351
11	WDRTG	C	001	0051 0305
	WDRTGF	C	001	0050 0304
12	WDRTJ	C	001	0052 0306
	WDRTJ	C	001	0034 0297
	WDRCBD	C	001	0014 0292
13	WDRCNV	C	001	0024 0294
	WDRCFL	C	001	0040 0299
	WDRCOK	C	001	0000 0286
14	WDROL	C	001	0020 0316
	WDROPAL	C	001	0048 0303
	WDROPE	C	001	0080 0308
15	WDROPEP	C	001	0084 0309
	WDROPUN	C	001	0046 0302
	WDORREL	C	001	0028 0295
16	WDORSCJ	C	001	0056 0307
	WDORSPF	C	001	0044 0300
	WDORSTD	C	001	0006 0289
17	WDORSTP	C	001	0002 0288
	WDORSTR	C	001	0002 0324
	WDORTC	C	001	0001 0284 0311
18	WDORTG	C	001	0021 0350
	WDORTI	C	001	0025 0351
	WDORIP	C	001	0080 0403
19	WDORIPD	C	001	000E 0401 0407
	WDORIPQ	C	001	0099 0339
	WDORIPV	C	001	3004 0322
20	WDORIPW	C	001	0010 0408 0409

CROSS-REFERENCE						
02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
01						
03	WDPEX	C	001	001A	0365	
	WDPNW	C	001	0006	0335	0347
	WDPOGE	C	001	0045	0301	
04	WDPRT	C	001	0008	0319	
	WDPRUF	C	001	0001	0325	
	WDPTG	C	001	0003	0332	
05	WDPTH	C	001	0020	0317	
	WDPTI	C	001	0007	0336	
	WDPUT	C	001	0002	0331	0332 0335 0336 0345 0346 0348
06	WDACC	C	001	0001	0287	
	WDACR	C	001	0011	0291	
	WDRAF	C	001	0038	0298	
	WDRAF5	C	001	0032	0296	
07	WDRAF7	C	001	0018	0293	
	WDRAQ	C	001	0008	0290	
	WDRCDS	C	001	0041	0367	
08	WDRCOI	C	001	0045	0366	
	WDRCI	C	001	0020	0405	
	WDROMD	C	001	0004	0323	
09	WDRON	C	001	0040	0404	
	WDROS	C	001	000E	0343	
	WDROSN	C	001	0008	0320	
10	WDRECA	C	001	0007	0384	0385
	WDREL	C	001	000A	0340	
	WDRES	C	001	0020	0349	0350 0351
11	WDRTI	C	001	0051	0305	
	WDRTF	C	001	0050	0304	
	WDRTG	C	001	0052	0306	
12	WDRTJ	C	001	0034	0297	
	WDRTK	C	001	0014	0292	
	WDRTM	C	001	0024	0294	
13	WDRTN	C	001	0040	0299	
	WDRTX	C	001	0000	0286	
	WDROL	C	001	0020	0316	
14	WDROP	C	001	0048	0303	
	WDROP	C	001	0080	0308	
	WDROP	C	001	0084	0309	
15	WDROP	C	001	0046	0302	
	WDREL	C	001	0028	0295	
	WDREJ	C	001	0056	0307	
16	WDREPF	C	001	0044	0300	
	WDRETD	C	001	0006	0289	
	WDRETP	C	001	0002	0288	
17	WDRETR	C	001	0002	0324	
	WDRETC	C	001	0001	0284	0311
	WDRTG	C	001	0021	0350	
18	WDRTI	C	001	0025	0351	
	WDREIP	C	001	0080	0403	
	WDREIP	C	001	000E	0401	0407
19	WDREICQ	C	001	0099	0339	
	WDREINE	C	001	0004	0322	
20	WDREINE	C	001	0010	0408	0409

GOS

CROSS-REFERENCE						
02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
01						
03	DTAP0005	A	004	004A	3086	3082 3083 3097
	DTAP0010	A	003	004E	3087	3094 3095
	DTAP0020	A	001	0051	3088	3092
04	DTAP0030	A	003	0074	3088	3087* 3089 3091 3091*
	DTAP0040	A	005	0083	3088	3094*
	DTAP0050	A	005	0080	3086	3096 3097
	DTAP0060	A	002	0085	3089	3084* 3088
05	DTAP0070	A	005	0083	3085	3086* 3086
	DTAP0080	A	005	0082	3087	3088 3090* 3090

CROSS-REFERENCE						
02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES
01						
03	WDSRG	C	001	0013	0346	
	WDSRPI	C	001	0017	0348	
	WDSRPN	C	001	0016	0347	
04	WDSRCM	C	001	0009	0398	
	WDSRCN	C	001	0008	0397	
	WDSRCT	C	001	0000	0392	
05	WDSRCW	C	001	000A	0399	
	WDSR01	C	001	0001	0394	
	WDSR02	C	001	0002	0395	
	WDSR03	C	001	0003	0396	
06	WDSR04	C	001	0010	0344	
	WDSR05	C	001	0008	0380	
	WDSR06	C	001	0012	0345	
07	WDSR07	C	001	0080	0313	
	WDSR08	C	001	0009	0385	
	WDSR09	C	001	0010	0318	
08	WDSR10	C	001	0012	0410	
	WDSR11	C	001	0006	0321	
09	WDSR12	C	001	0008	0386	
	WDSR13	C	001	0029	0484	
	WDSR14	C	001	0010	0888	
	WDSR15	C	001	0020	0788	
10	WDSR16	C	001	0040	3725	
	WDSR17	C	001	0020	3726	
	WDSR18	C	001	0080	3724	
11	WDSR19	C	001	0010	3727	
	WDSR20	C	001	0004	3732	
	WDSR21	C	001	0002	3733	
12	WDSR22	C	001	0008	3731	
	WDSR23	C	001	0001	3734	
	WDSR24	C	001	0110	3808	
13	WDSR25	C	001	0088	3809	
	WDSR26	C	001	000F	3730	
	WDSR27	C	001	0008	3729	
14	WDSR28	C	001	0020	3728	
	WDSR29	C	001	0001	0096	3
15						3
						4
						4
						4
16	XR2	C	001	0002	0097	3
						3
						3
17						4
						4
						4
18	X00	A	002	00A8	4611	3
	X000	A	003	00A7	4607	
	X001	A	003	00A9	4609	
19	X01	A	002	00A9	4613	
	X1	A	001	00A9	4615	4
	X100	A	002	00A9	4617	
20						

01		CROSS-REFERENCE										01							
02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES						02	SYMBOL	T	LEN	VALUE	DEFN	REFE	
	WDSPG	C	001	0013	0346								X8	A	001	08A4	4603	4191	
03	WDSP1	C	001	0017	0348							03	X800	A	002	08A5	4605		
	WDSPN	C	001	0016	0347								ZERO	C	001	0000	0109		
	WDSRCM	C	001	0009	0398							04	ZONEBITS	C	001	00FO	0127		
04	WDSRCN	C	001	0008	0397								TOTAL STATEMENTS FLAGGED IN THIS AS						
	WDSRCT	C	001	0000	0392								STATEMENTS FLAGGED AS WARNINGS						
	WDSRCW	C	001	000A	0399														
05	WDSRO1	C	001	0001	0394														
	WDSRO2	C	001	0002	0395														
	WDSRO3	C	001	0003	0396														
06	WDSTI	C	001	0010	0344	0345 0346 0347 0348													
	WDSTMR	C	001	0008	0380														
	WDSTP	C	001	0012	0345														
07	WDSYS	C	001	0080	0313														
	WDTUB	C	001	0009	0385	0386													
	WDUNF	C	001	0010	0318														
08	WDVSLN	C	001	0012	0410	0411													
	WDWTR	C	001	0006	0321														
	WD960	C	001	0008	0386	0387													
09	WRT	C	001	0029	0484														
	WQSFAIL	C	001	0010	0888														
	XAREAREF	C	001	0020	0788														
10	XEADFF	C	001	0040	3725														
	XEBOFF	C	001	0020	3726														
	XEXAPTD	C	001	0080	3724														
11	XFERCTL	C	001	0010	3727														
	XFEREADN	C	001	0004	3732														
	XFEREBON	C	001	0002	3733														
12	XFERIADN	C	001	0008	3731														
	XFERIADN	C	001	0001	3734														
	XFLNBYT	C	001	0110	3808														
13	XFLNBYD	C	001	0088	3809														
	XNTAREAS	C	001	000F	3730														
	XNTAREAS	C	001	0008	3729														
14	XNTPRIV	C	001	0020	3728														
	XRI	C	001	0001	0096	3841 3843 3860* 3862 3864 3866 3874 3875 3877 3927 3944 3949													
						3960 3972 3974 3986* 4012* 4021 4076* 4109* 4111* 4147 4147 4165													
15						4222* 4224 4236 4237 4237 4240 4244 4259 4305* 4307 4309 4311													
						4314 4323 4338 4348 4348 4350 4352 4368* 4370 4375 4375* 4377													
						4379 4383* 4386 4390 4417* 4420 4446*													
16	XR2	C	001	0002	0097	3837* 3839 3839* 3841 3879* 3929* 3933 3933* 3935 3938 3941 3944													
						3949 3954 3958* 3960 3962 3964 3964 3966 3968 3970 3970* 3972													
						3974* 3976 3978 3984 3984* 3989 4061* 4063 4066 4069 4083 4092													
17						4125 4129 4149 4152 4165* 4167 4169 4169 4175 4186 4188 4191													
						4206 4206 4208 4210 4212 4214 4216 4216 4218 4220 4220 4224													
						4238 4278 4325* 4335 4338* 4340 4429 4430													
18	X00	A	002	08A8	4611	3986 4111 4115 4383													
	X000	A	003	08A7	4607														
	X001	A	003	08A9	4609														
19	X01	A	002	08A9	4613														
	X1	A	001	08A9	4615	4195 4257 4261 4370													
20	X100	A	002	08AA	4617														

01		CROSS-REFERENCE										01							
02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES						02	SYMBOL	T	LEN	VALUE	DEFN	REFE	
	DIIHPCSDA	C	001	0860	0962	0973													
03	DIIHPCSTK	C	001	0861	0973	0974													
	DIIHPCSTK	C	001	0862	0974	0976													
	DIIIPAR	C	001	0859	0951	0952													
04	DIIIPARS	C	001	0848	0925	0926													
	DIIILSPICR	C	001	085F	0961	0962													
	DIIILSWRK	C	001	0841	0913	0914													
05	DIIIPDR1	C	001	0810	0725	0726 0754													
	DIIIPDR2	C	001	080C	0858	0859													

01		CROSS-REFERENCE										01							
02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES						02	SYMBOL	T	LEN	VALUE	DEFN	REFE	
	DIIIPQSAV	C	001	0863	0976	0976													
03	DIIIPRQ	C	001	085B	0953	0953													
	DIIIPRABL	C	001	0840	0908	0908													
	DIIIPWEIN	C	001	0842	0914	0914													
04	DIIISECA	C	001	0816	0759	0759													
	DIIISETAB	C	001	086B	0993	0993													
	DIIISHP#	C	001	080E	0712	0712													
05	DIIISTG#	C	001	0811	0754	0754													
	DIIISTGPR	C	001	081C	0865	0865													

01		CROSS-REFERENCE				01		
02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES	02	
03	X8	A	001	08A4	4603	4191	03	
	X800	A	002	08A5	4605			
	ZERO	C	001	0000	0109			
	ZONEBITS	C	001	00F0	0127			
04	TOTAL STATEMENTS FLAGGED IN THIS ASSEMBLY =						0	04
05	STATEMENTS FLAGGED AS WARNINGS =						0	05
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

01		CHANGE		01	
02	MODULE NAME	FLAG	02	03	04
	*MSCPR	aa613	12		
		aa022			
		aa145			
		aa184			
		aa224			
		aa255			
		aa344			
		aa419			
		aa478			
08	END OF THE CHANGE ACTIVITY				
09					
10	CHANGE				
	aa613	S317310	SS1	SU	05
	aa022	PI0304	SS	CP	03
	aa145	PI0402	SS		04
	aa184	PI0419	SSP		04
	aa224	PI0441	SS	AD	04
	aa255	PI0702	CSP		07
	aa344	PI0551	CSP		05
	aa419	PI0802	SSP		08
	aa478	PI0807	TEL		08
16	END OF CHANGE FLAG REASONS				
17					
18					
19					
20					

01		CROSS-REFERENCE				01	
02	SYMBOL	T	LEN	VALUE	DEFN	REFERENCES	02
	DERIVEDAV	C	001	0063	0976	0980	
	DERIVQ	C	001	0058	0953	0954	
	DERIVPABL	C	001	0040	0908	0913	
	DISAMETH	C	001	0042	0914	0915	
	DISSECT	C	001	0016	0759	0760	
	DISSETSHD	C	001	006B	0993	1801	
	DISMFA	C	001	000E	0712	0720	
	DISSTG	C	001	0011	0754	0755	
	DISSTG2	C	001	001E	0760	0772	

01		CHANGE		01	
02	SYMBOL	T	LEN	VALUE	02
	ECMTIMER	C	001	0024	10
	ECMTRM	C	001	0023	10
	ECMTTC	C	001	0020	10
	EIGHT	C	001	0008	08
	ERBAPD	C	001	0008	10
	ERBAP1	C	001	0004	10
	ERBAP2	C	001	0002	10
	ERBAP3	C	001	0001	10
	ERBAP4	C	001	0000	10

CHANGE ACTIVITY SUMMARY - V07/23/79									
MODULE NAME	FLAG	REFERENCE							
#MSCPR	aaG13	1256							
	aa022	386	387						
	aa145	58	58	2725	3957	3961	3963	3965	3967
		3969	3971	3973	3975	3977	3979	3981	3983
		3985	3987	4361	4363	4365	4367	4371	4372
		4374	4382	4384	4387	4389	4392	4406	4411
		4413	4437	4444	4448	4453	4457	4469	
	aa184	707							
	aa224	819	820	821					
	aa255	706							
	aa344	822							
	aa419	1240	1241	1242	1243	1244	1245	1246	1247
		1248	1249	1250	1251	1252	1253	1254	1255
		1257	1258	1259	1260				
	aa478	59	59	4146	4148	4150	4153	4168	4205
		4237	4238	4239	4240	4241	4583	4595	
END OF THE CHANGE ACTIVITY SUMMARY									
CHANGE FLAG REASONS - V07/23/79 - AS OF 12/08/81 02:17									
aaG13	S317310	SS1	SU	05	07/09/80	JUB	47N		
aa022	PI0304	SS	CP	03	07/18/77	TWB	47E		
aa145	PI0402	SS	_	04	03/30/78	CKS	44A		
aa184	PI0419	SSP		04	07/06/78	RMR	47Z		
aa224	PI0441	SS	AD	04	10/18/78	SDD	47V		
aa255	PI0702	CSP		07	01/25/79	TJL	49D		
aa344	PI0551	CSP		05	06/15/79	SDD	47V		
aa419	PI0802	SSP		08	01/11/80	JUB	47N		
aa478	PI0807	TEL		08	06/16/80	KEU	48J		
END OF CHANGE FLAG REASONS									

CROSS-REFERENCE					
SYMBOL	T	LEN	VALUE	DEFIN	REFERENCES
RECMTIMER	C	0001	00024	1054	
RECMTFRM	C	0001	00023	1053	
RECMTTC	C	0001	00020	1050	48Z1
FEIGHT	C	0001	00008	0117	
FERBANDP0	C	0001	00008	1143	
FERBANDP1	C	0001	00004	1144	

SYMBOL	T	LEN	VALUE	DEFIN	REFERENCES
ERRBTMID	C	0001			
ERRONCL	C	0001			
ERRONSL	C	0001			
ERRROFF	C	0001			
ERRRESM	C	0001			
ERRR	C	0001			