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	_		1 DTSS EX 2 3	THINGS STILL TO BE DEFINITIONS ION	E DONE	DTSS TRADE SECRET	2 25 63	
			4 5	SYST LOW	TEM WIDE INTERESTING CORE LAYOUT	CONSTANTS	81 96	0
	0		.7 8	OPCO	EX REGISTERS DDES HINE CONSTANTS		143 189 202	0
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1	0		34 35	LIST ELEMENT MACRO MULTI-PROCESSOR CO	D DEFINITIONS DDE GENERATION MACROS		1118 1132	0
	0		36 37 39	INTERRUPT CONTROL BUG DESTROY REC CKPT CHECKPOINT	GISTERS		1172 1189 1256	0
			40 43 46	QUEUING MACROS LIST ELEMENT ALLO	CATION MACROS		1264 1393	
	0		4.8 4.9	CONSOLE LOGGING MA COPY MACRO COPY CONTROL LIST	ELEMENT DEFINITION		1496 1563 1579	0
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	0		5 5 6 2	CATALOG OPERATIONS MACROS	S MACROS		1749 1966	0
	0		66 67 68	PAGE TABLE SIZE DE PIO MACRO XLOG MACRO	EFINITIONS		2133 2154 2180	0
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	\sim				THINGS STILL TO BE DONE				
	0		2 5 2 6	*	TTLS THINGS STILL TO BE DONE				0
	0		27 28	* *	STORAGE MANAGEMENT NEW ALLOCATION SYSTEM WITH B	IT MAPS			0
	\cap		29 30	* *	DEALLOCATE SCRATCHED SCRATCH				0
	\cup		31 32	*	STATISTICS TOTAL USE OF SELECTED FILES				0
	0		33 34	*	PHYSICAL I/O RESET STATUS ON DEVICE DRIVE:	S .			0
	0		35 36	*	FIX KLUDGE IN PIO WHERE T	APES AND CONSOLE USE SAME ERROR REC ME CALL TO PIO CAN USE A SHORTER LI			0
	0		37 38	* *	MME CHANGES AND IMPROVEMENTS MISCELLANEOUS				O
	\circ		39 40	*	BETTER ERROR RECOVERY IN CAT BETTER ERROR RECOVERY ON PAR				\circ
			41	*	RECOVER FROM PAGE TABLE I/O			[22SEP78]	
1	\circ		4 2 4 3	*	WON'T BOOT WITH DEVICE 77 CHANGE DA FORMAT FOR LARGER (MASS STORAGE DEVICES, MORE DEVICES		[30MAY80]	0
	$\overline{}$		4 4 4 5	*	CHANGE CATALOG FORMAT FOR HAUSE >1 CATALOG BUFFER	SHED CATALOGS		[09bec79] [09bec79]	
	0		46	*	USE 21 CATALOG BOTTER			[09DEC79]	0
	0		47 48	*	WHY IT'S NOT DONE:			[09DEC79] [09DEC79]	0
			4 9 5 0	*	1) WE DIDN'T THINK OF IT.			[09DEC79] [09DEC79]	
	0		5 1 5 2	*	2) WE COULDN'T FIND A GOOD W	AY TO DO IT.		[09DEC79] [09DEC79]	0
	\circ		5 3 5 4	*	3) WE COULDN'T AGREE ON HOW	TO DO IT.		[09DEC79] [09DEC79]	0
			5 5 5 6	* .	4) IT WAS TOO RADICAL A CHAN	G E _		[09DEC79] [09DEC79]	O
	0		57 58	* *	5) IT WAS TOO EXPENSIVE TO IN			[09DEC79] [09DEC79]	0
	0		5 9 6 0	*	6) IT WAS ONE MORE STRAW THA	T WOULD BREAK THE CAMEL'S BACK.		[09DEC79] [09DEC79]	0
	\cup		61 62	*	-S. J. GA			[09DEC79] [09DEC79]	
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0	63	DEFINITIONS IOM FLAG			0
0	64 65	TTLS DEFINITIONS IOM FLAG * IOM VERSION, NEW SWAPPER			0
	66 000001 67	* IOMFLG EQU 1		500050707	
0	68 69 70	* MACROS FOR USE W/ *		[09DEC79] [09DEC79] [09DEC79]	0
0	71 72 73	IFIOM MACRO IFE IOMFLG,1,ENDIOM"ASSEMBLE IF IOM ENDM IFIOM		[09DEC79] [09DEC79] [09DEC79]	0
0	7 4 7 5	* IFIOC MACRO		[09DEC79] [09DEC79]	0
	76 77 78	INE IOMFLG,1,ENDIOC"SKIP IF IOM ENDM IFIOC		[09DEC79] [09DEC79] [09DEC79]	0
0	79 80	* NOTE: SOMETIMES THIS FLAG IS USED TO MEAN * 6000 OR 66 INSTEAD OF 600.		[09DEC79] [09DEC79]	0
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				DEFIN	NITIONS SYSTEM WI	DE INTERESTING CONSTANTS			0
			81 82 *	TTLSS	S SYSTEM WIDE INT	ERESTING CONSTANTS		[01SEP79] [01SEP79]	O
0			83 * 84 *					[01SEP79] [01SEP79]	0
			85 86	HEAD	0			[01SEP79] [01SEP79]	0
		000002	87 NPF 88 *	OS EQU	2	MAX NUMBER OF PROCESSORS ASSEMB	LED FOR	[01SEP79] [01SEP79]	Ü
			89 * 90 *					[01SEP79] [01SEP79]	0
		000240	91 TOT	J BOOL	240	MAX NUMBER OF SIMULTANEOUS JOBS	ON SYSTEM	[01SEP79] [30MAY80]	Ö
		202002	93 * 94 *			MEMORY ADDRESSING IS INVOKED		[08YAM0E] [08YAM0E]	•
		200000	95 FE1	CE EQU	64 * 1024	32K WASN T ENOUGH		E30MAY80]	0
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. 0			٠,	96 97	*	TTLSS	LOW CORE LAYOUT				0
0				98 99	* *	IOM LC	OW CORE ALLOCATIO	N			0
0				100 101	*	HEAD	V				0
_			000000	102 103 104	INTV	BOOL	0	INTERRUPT VECTOR LENGTH = 100(8)			
0			000100	105	UTICK	BOOL	100	SPECIAL TIMEOUT TICKERS LENGTH = 100(8)		[22SEP78] [22SEP78]	Q
·			000200	107 108	USTAT	BOOL	200	DEVICE STATUS LENGTH 100(8)		[22SEP78] [22SEP78]	0
0			000300	109 110	USPEC	BOOL	300	SPECIAL INTERRUPT TASKS LENGTH = 100(8)		[22SEP78] [22SEP78]	0
0			000400	111 112	PTYPE	BOOL	400	PHYSICAL DEVICE TYPE LENGTH = 100(8)		[22SEP78] [22SEP78]	
0			000500	113 114	UQS	BOOL	500	POINTERS TO DEVICE QUEUES LENGTH = 100(8)		[22SEP78] [22SEP78]	0
0			000600	115 116	PDA	BOOL	600	PHYSICAL DEVICE ADDRESS LENGTH = 100(8)		[22SEP78] [22SEP78]	0
			000700	117 118	PREF	B00L	700	PREFERENCE TABLE LENGTH = 100(8)		[22SEP78] [22SEP78]	_
0			001000	119 120 121	PATCH	800L	1000 1200	PATCH AREA LENGTH = 200(8)		[22SEP78] [22SEP78]	0
0			001200	122 123	XSTAT	BOOL BOOL	1300	PAGE TABLE DEVICE ADDRESSES LENGTH = 100(8) STATISTICS AREA POINTERS LENGTH = 40(8)		[22SEP78] [22SEP78] [22SEP78]	\circ
\bigcirc			001340	124	IMW	B00L	1340	INTERRUPT WORDS LENGTH = 40(8)		[22SEP78] [22SEP78]	
0			001400	126 127	мвх	BOOL	1400	MAILBOX AREA LENGTH = 200(8)		[22SEP78] [22SEP78]	0
0			001600	128 129 130	PTABS	BOOL	1600	FOUR INTERLEAVED TABLES OF STRIDE FOUR USED FOR PHYSICAL I/O LENGTH = 140(8)		[22SEP78] [09DEC79] [22SEP78]	Q
0			001740	131 132	PQS	B00L	1740	QUEUES FOR CHANNELS LENGTH = 140(8)		[22SEP78] [22SEP78]	0
0			002100	133 134 135	STTS	BOOL	2100	STATUS RETURN AREA LENGTH = 60(8)		[22SEP78] [22SEP78] [22SEP78]	Q
0			002200		FTVS	BOOL	2200	FAULT VECTORS LENGTH = 40(8) PER CP		[01SEP79] [01SEP79]	0
			002300	138 139	CFILE	EQU	32*\$NPROS+FTVS	CORE FILE DA AREA LENGTH = 40(8)		[01SEP79] [01SEP79]	
0			002340	141	SISTK	EQU	32+CFILE	SYSTEM FAULT INTERRUPT STACK LENGTH = 40(8)		[01SEP79]	0
0			003400	142	FVELS	BOOL	3400	DEFAULT FAULT VECTOR LOCATION ON DPS 8/4X ELS			0
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	V				DEFINI	TIONS INDEX R	EGISTERS				
0			143 144	*	TTLSS	INDEX REGISTE	R S				0
0			145 146	*	SYMBOL	IC INDEX REGIST	ERS				0
0			147 148 149	* * *			TYPICAL USAGE (E.G. IN OTHER CONVENTIONS (E.G.			[09DEC79] [09DEC79]	0
			150 151	*			OTHER CONVENTIONS CE.O.	, 1107			_
		000001	152	Х	HEAD EQU	0,A,C,E,H,I 1	SCRATCH REGISTER				0
		200000	153	Y	EQU	2	SCRATCH REGISTER				
		000003 000004	154 155	Z	E Q U E Q U	3	SCRATCH REGISTER POINTER TO LIST ELEM	A C A I T			
		000004	156	1	EQU	5	JOB NUMBER	3 C IV I			
		000006	157	P	EQU	6	PERMANENT POINTER				C \
			158	S	EQU	7		CURRENT STATE VECTOR			\circ
			159	*						[09DEC79]	
		000000	160	• • •	EQU	0	SYMBOL TO INDICATE D	DATA TO BE FILLED IN		[09DEC79]	\circ
			161 162	*	HEAD	V /2 V 7 1 AI					
		000001	163	X	HEAD EQU	K,Q,X,Z,L,N	SCRATCH REGISTER				
		000002	164	Ŷ	EQU	2	SCRATCH REGISTER				\circ
		000002	165	Z	EQU	3	SCRATCH REGISTER				
		000004	166	T	EQU	4	POINTER TO LIST ELEM	A F NIT			
		000005	167	j	EQU	5	JOB NUMBER				O
		000006	168	P	EQU	6	PERMANENT POINTER				
0		000007	169	S	EQU	7		CURRENT STATE VECTOR			\bigcirc
			170	*						[09DEC79]	\circ
		000000	171		EQU	0	SYMBOL TO INDICATE D	DATA TO BE FILLED IN		[09DEC79]	
			172	*							0
			173		HEAD	W					
_			174	X	EQU	1	SCRATCH REGISTER				_
			175	Y	EQU	2	SCRATCH REGISTER				\circ
			176 177	<u> </u>	EQU	5	SCRATCH REGISTER	ACAIT		•	
			178	1	E Q U E Q U	5	POINTER TO LIST ELEM JOB NUMBER	MENT			_
			179	D D	EQU	6	PERMANENT POINTER				
i		000007	180	S	EQU	7		CURRENT STATE VECTOR			
		323001	181	*		,	AUGUSTE EVENTION OF	JOHNERY GIRTE VECTOR		[09DEC79]	$\overline{}$
		000000	182	• • :•	EQU	0	SYMBOL TO INDICATE D	DATA TO BE FILLED IN		[09DEC79]	\circ
			183	*							
			184	*	DEBUGG	ING SYMBOLS					\circ
			185	* '			·				0
			186		HEAD	0					
0		000011	187	DEBUG	EQU	9					\circ
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. 0		4.00		ONSOPCODES			505	0
		189 190 191	* *	OPCODES			[05N0V77] [05N0V77]	0
0		192 193	*	FERENCE THESE INSTRUCTIONS	WHEN DTSS GMAP	16AUG74	[09DEC79]	
Ο		194 195 196	OPCREF (DIS,LBAR,LDT,SMIC,CIOC DPD,OPSYN,DATE RSW,RMCM,SMCM,LDAC			[09DEC79] [09DEC79] [09DEC79]	0
0		197 198	OPCREF L OPCREF F	LDQC,SZNC,LCPR,SCPR RSCR,SSCR,CIOC,DIS			[09DEC79] [09DEC79]	0
0		199 200 20 1	OPCREF N	MLDA,MLDQ,MLDAQ MSTA,MSTQ,MSTAQ _MBA,LMBB			[09DEC79] [09DEC79] [09DEC79]	0
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			DEFINITIONSM	ACHINE CONSTANTS				
0	20		TTLSS MACHINE	CONSTANTS			£05N0V77.3	0
0	2 (2 (2 ()4	BITS FOR REPEAT	INSTRUCTIONS				0
	20 002000 20	76	HEAD M BOOL 2000	M FOR MACHI TALLY POSIT				
	001000 20 000400 20	O8 ABIT	BOOL 1000 BOOL 400	INCREMENT F	IRST REGISTER ON RPD ECOND REGISTER ON RPD			0
0	000200 21 000 1 00 21	10 CBIT	B00L 200 B00L 100	LOAD XO FRO	M BITS O-17 OF INSTRUCTION F ZERO INDICATOR ON			0
	000040 21 000020 21	13 TMI	B00L 40 B00L 20	TERMINATE I	F ZERO INDICATOR OFF F NEGATIVE INDICATOR ON		;	0
	000010 21 000004 21	15 TRC	B00L 10 B00L 4	TERMINATE I	F NEGATIVE INDICATOR OFF F CARRY INDICATOR ON			-
	000002 21 000001 21 21	17 TOV	B00L 2 B00L 1		F CARRY INDICATOR OFF F OVERFLOW INDICATOR ON			0
0	21	19 *	BITS WE USE IN	INDICATOR REGISTER				0
	004000 22 001000 22	21 OVMSK	B00L 4000 B00L 1000		P FAULT ON OVERFLOW ING A PARITY ERROR			
	000400 22 000200 22	PMSK	BOOL 400 BOOL 200		P FAULT ON PARITY ERROR			0
0	000040 22 000001 22	25 MWRD 26 SQUEZ	B00L 40 B00L 1	MULTI-WORD	INTERRUPT INDICATOR INDICATOR BIT, SAYS JOB IS SQUE	EZED		, O
	22 23 22	28 *	DCW MANIPULATIO	N BITS				0
	000000		B00L 000000	IOTD ACTION	CODE FOR DOWS		[08AUG77]	
0	010000 23 020000 23 030000 23	32 TDCW	B00L 010000 B00L 020000 B00L 030000	IOTP ACTION TDCW ACTION IONTP ACTIO			[08AUG77] [08AUG77] [08AUG77]	0
0	020000 23 020000 23	34 35 IONPB	BOOL 020000		THE DIFFERENCE BETWEEN IOTP AN	D IONTP	[08AUG77] [08AUG77]	\circ
0	040000 23 040000 23	NCB	B00L 40000	NO CHANGE B			[08AUG77]	C
	700000 23 040000 23 020000 24	39 E C	B00L 700000 B00L 040000 B00L 020000	IDCW BIT TO	FICATION BITS CHANGE THE ADDRESS EXTENSION SPECIFY COMMAND CHAINING		[05N0V77] [05N0V77]	
0	24	41 *	BOOL 020000	TOCM STI IC	STECTIO COMMAND CHAINING		[05N0V77]	C
0	24	43 *	PUB AND DEVICE	DEFINITIONS, MOSTLY	FOR IOM USE			С
	000174 24	45 PBMAX	EQU 31*4* EQU 8*4		BER, ADJUSTED FOR I/O AD CHANNEL ON IOM			
0	000174 24 000077 24	47 PBMSK	EQU 31*4 EQU 63	MASK FOR AD	JUSTED PUB FIELD MISSIBLE DEVICE NUMBER			Ç
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		М			DEFINIT	IONS MACHINE C	ONSTANTS		_
			249		EJECT			[09DEC79]	0
			250 251	*	MASK FO	R THE OP CODE FI	ELD		0
		777000	252 253	* OPCD	800 L	777000			
0		777700 000100	254	TLMK TAL1	B00L B00L	777700 000 1 00	TALLY FIELD MASK TALLY OF ONE		0
		000100	256	*					
	,	,	257 258	*	BIIS KE	TURNED FROM RSW			
		030000 010000		PTYPE DPSE	B00L B00L	030000 010000	(UPPER) PROCESSOR TYPE MASK (UPPER) TYPE CODE FOR DPS-E PROCESSORS		\sim
		020000	261	ELS	800L	020000	(UPPER) TYPE CODE FOR ELS PROCESSORS		
_		007740	262 263	FTVMK	BOOL	007740	(UPPER) FAULT VECTOR SWITCHES		
		040000		TSOPT	B00L	040000	(LOWER) TIME-SHARING OPTION (66/X7)	E30DEC763	0
		004000		NSA	BOOL	004000	(LOWER) PROCESSOR IS IN VIRTUAL MODE		
		002000 001000		SER66	800 L 800 L	002000 001000	(LOWER) PROCESSOR IS A SERIES 66		\circ
		000400		CACHE	BOOL	000400	(LOWER) PROCESSOR HAS CACHE MEMORY INSTALLED		
		000200		EXMEM	B00L	000200	(LOWER) PROCESSOR HAS EXTENDED MEMORY OPTION		0
		000100 000040			BOOL	000100 000040			_
		000020		EIS	B00L B00L	000020	(LOWER) PROCESSOR HAS EIS INSTALLED		Ö
		000010	273	SLMEM	BOOL	000010	(LOWER) PROCESSOR HAS SLOW MEMORY		\circ
		000004		OVRLP	BOOL	000004	(LOWER) PROCESSOR HAS NO OVERLAP		_
		000003	3 275 276	PROCN	BOOL	000003	(LOWER) PROCESSOR NUMBER		0
			277		UPPER	FTVMK			
			278 279		LOWER	TSOPT, NSA, SER 66	S, CACHE, EXMEM, EIS, SLMEM, OVRLP, PROCN	[30DEC76]	0
			2 8 9	*	SPECIAL	ADDRESSES USED	TO READ SCU REGISTERS (WITH RSCR INSTRUCTION)	[22SEP78] [22SEP78]	
			281	* .				[22SEP78]	0
		0000 1 0 000040		SCFIG SCCLK	800 L 800 L	000010 000040	CONFIGURATION SWITCHS REAL-TIME CLOCK	[22SEP78] [22SEP78]	~
		000040		SCMDR	B00L	000040	STORE UNIT MODE REGISTER	[22SEP78]	. 0
			285	*		ELDS DEFINED IN	THE STORE UNIT MODE REGISTER (RETURNED FROM RSCR 60) \star	CSS	
		007760	286 287	* Syndr	* CSS BOOL	7760	SYNDROME NON-ZERO IF AN EDAC HAS OCCURRED ***CSS		\circ
		000017		STUID	BOOL	17.	STORE UNIT ID (0=1K , 17=4K MOS , OTHER=CORE) ***CSS	;	0
			289	*				[05N0V77]	
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_ 0	M DEFINITIONS MACHINE CONSTANTS	. 0
0	290 EJECT 291 * [05Nov77] 292 * FAULT NUMBERS [05Nov77] 293 *	0
0	000000 294 SHD EQU 0 SHUTDOWN FAULT [05Nov77] 000001 295 MEM EQU 1 MEMORY (STORE) FAULT [05Nov77] 000002 296 MME EQU 2 MME FAULT [05Nov77] 000003 297 FAU EQU 3 FAULT TAG FAULT [05Nov77]	
0	000003 277 FAU EQU 3 FAULT TAG FAULT 000004 298 TIM EQU 4 TIMER RUNOUT FAULT [05N0V77] 000005 299 CMD EQU 5 COMMAND FAULT [05N0V77] 000006 300 DRL EQU 6 DERAIL FAULT [05N0V77]	0
0	000007 301 LOK EQU 7 LOCKUP FAULT [05NOV77] 000010 302 CON EQU 8 CONNECT FAULT [05NOV77] 000011 303 PAR EQU 9 PARITY FAULT [05NOV77]	0
0	000012 304	Ö
0	000015 307 OVE EQU 13 OVERFLOW FAULT [05NOV77] 000016 308 DIV EQU 14 DIVIDE CHECK FAULT [05NOV77] 000017 309 EXE EQU 15 EXECUTE FAULT [05NOV77]	0
0	310 * 311 * DEFINE SIZE OF CPU FAULT VECTOR	0
0	312 * 000040 313 FVSIZ BOOL 40 SIZE OF CPU FAULT VECTOR (16 FAULT TYPES)	0
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l	М		DEFINI	ITIONSSTATE VEC	TORS		
0		741		A W A W M			\circ
_		314 315 316	TTLSS HEAD	STATE VECTORS S	FOR STATE VECTOR		
\circ	000000		REG EQU	0	REGISTERS		\circ
	000010		AREG EQU	REG+8	EIS ADDRESS REGISTERS	[08AUG77]	
0	000020 000030	320	PTLEN EQU IC EQU	AREG+8 PTLEN+8	EIS POINTER AND LENGTH REGISTERS INSTRUCTION COUNTER/INDICATOR REGISTER	[08AUG77] [08AUG77]	0
_	000031		BARS EQU	IC+1	RELATIVE BAR IN SQUEEZE MODE		_
	000032 000032		TACES EQU LIMIT EQU	BARS+1 TACES	UPPER STATUS WORD ONE FOR TRAP OF RUN LOWER MAX CORE LIMIT IMPOSED		\circ
 	000033		TIMER EQU	LIMIT+1	TIMES FOR USER USE		
	000034		UTYPE EQU	TIMER+1	UPPER USER TYPE	[01FEB77]	0
		326			LOWER SPARE	[01FEB77]	\cup
	000035		FTYPE EQU	UTYPE+1	UPPER FAULT TYPE CODE OF LAST FAULT		
0	000035		BUSY EQU	FTYPE	LOWER NUMBER OF TRAPS OUTSTANDING		\circ
	000036		SWAP EQU	BUSY+1	UPPER NO. TIMES JOB HAS SWAPPED		
	000036		FRUN EQU	SWAP	LOWER FILE REFERENCE # IN SUPRA JOB		_
\circ	000037 000040		QUANT EQU JACES EQU	FRUN+1 QUANT+1	MAX RUNTIME IMPOSED BY SUPRA JOB JOB ACCESS IMPOSED BY SUPRA JOB		\circ
	000041		CATW EQU	JACES+1	MAX WORDS ALLOWED TO ADD TO CATALOGED FILES		
	000042		SCRW EQU	CATW+1	MAX WORDS ALLOWED TO ADD TO SCRATCH FILES		\bigcirc
	000043		JTIME EQU	SCRW+1	TIME ACCUMULATED BY TERMINATED INFRA JOBS		0
	000044		TCPU EQU	JTIME+1	ACTUAL CPU TIME ACCUMULATED (INC. TERM. INFRAS)	E04JUL773	
0	000045		TIO EQU	TCPU+1	I/O UNITS ACCUMULATED (INCLUDING TERMINATED INFRAS		\bigcirc
	000046		TCORE EQU	TIO+1	CORE UNITS ACCUMULATED (INC. TERM INFRAS)	E04JUL773	
1	000047		INTP EQU	TCORE+1	UPPER POINTER TO LAST TRAP/FAULT GIVEN	[04JUL77]	
	000047		BIT EQU	INTP	LOWER BIT CODED INFO (SEE B\$ BITS)		\circ
	000050 000051		JMEM EQU SVMEM EQU	BIT+1 JMEM+1	REQUESTED LEN/LOC OF JOB REQUESTED LEN/LOC OF STATE VECTOR		
	000052		STIME EQU	SVMEM+1	TIMER VALUE LAST PLACED IN STREG+7		\bigcirc
	000053		IOCHG EQU	STIME+1	IO UNITS ON THIS QUANTUM		\cup
 	000054		CORET EQU	IOCHG+1	CORE QUANTUM TIMER		
0	000055	346	CLEN EQU	CORET+1	LENGTH OF JOB FOR CORE SIZE CHARGES		\bigcirc
	000056		SPEC EQU	CLEN+1	HEAD/TAIL FCBS OF STACKED SPECIALS	[1700 176]	_
•	000057		HOLE EQU	SPEC+1	UPPER TOTAL SPACE OCCUPIED BY HOLES	[O1FEB77]	
0	000070	349	EDEC FOU	HOLE 1	LOWER SPARE	[01FEB77]	\circ
	000060		FREE EQU * CSS	HOLE+1	LINK HEADER TO FREE STORAGE LIST	[1700 176]	
			* WAS		ENGTH OF FR LIST / LENGTH OF STATE VECTOR	[04JUL77]	
	000061		CPFAC EQU	FREE+1	CP USAGE FACTOR	20.002113	
	000062		IOFAC EQU	CPFAC+1	IO UNITS FACTOR		
	000063		SFAC EQU	IOFAC+1	SCHEDULING FACTOR		$\overline{}$
	000064		PID EQU	SFAC+1	PROJECT ID (3 WORDS)		,
	000067		UMPY EQU	PID+3	UNITS MULTIPLIER (ROYALTY)		
	000070		IOUCH EQU	UMPY+1	IO CHARGES ACCUMULATED		С
	000071 000072		IOTIM EQU PTIMR EQU	IOUCH+1	IO CORE LOCKOUT TIME PREVIOUS TIMER WHEN USER LAST INTERRUPTED		
	000072		PTIMR EQU FCB EQU	IOTIM+1 PTIMR+1	LENGTH OF FR LIST / LENGTH OF STATE VECTOR	[04JUL77]	
	000073		* * CSS		LENGTH OF THE LIST / LENGTH OF STATE VECTOR	C0400E773	C
	000074		FR EQU	FCB+1	FCB / INDEX -> LOC/LEN		
0		364	- · -		LOC IS RELATIVE TO \$STATE		\sim
		365	*			[09DEC79]	Ÿ
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		S			TIONSSTATE VECTORS			0
			366 367	UPPER LOWER	TACES, UTYPE, FTYPE, SWAP, INTP, LIMIT, BUSY, FRUN, BIT	HOLE	[09DEC79] [09DEC79]	
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	S		DEFINI	TIONS FILE CON	TROL BLOCKS		
0	-	719				500	0
		368 369 *	TTLSS	FILE CONTROL B	LUCKS	[09DEC79] [09DEC79]	
0	202222	370	HEAD	F O	HDDED ACCECC WITH WHICH EILE TO COST		0
1	000000 000000	371 ACC 372 TYPE	EQU EQU	0	UPPER - ACCESS WITH WHICH FILE IS OPEN LOWER - PREFERENCE / TYPE		-
0	000001	373 ABOF 374		1	UPPER - WHEN BUSY, PTR TO CONTROLLING LIST EL IF SIGNED, PTR TO BLOCK FOR RESET STATUS		0
0	000001	375 376 RET 377	EQU	1	IF MESSAGE EXISTS, PTR TO SUPRA TRAP LOWER - FRN IN SUPRA JOB IF A PASSED FILE IF A BUSY CM, FRN AT CURRENT SLAVE END		0
	000002		EQU	2	IF REGULAR CATALOGED FILE		
	000000				UPPER - POINTER TO CSUSE LIST ENTRY		0
	000000	380 381			LOWER - MAXIMUM ACCESSES ALLOWED ON FILE IF SHARED FILE		
0	000000	382 383			UPPER - FRN OF DATA FCB + SIGN BIT LOWER - MAXIMUM ACCESSES ALLOWED ON FILE		0
		384 385			IF COMUNICATIONS FILE UPPER POINTER TO THE TABLE ENTRY FOR THE MASTE		
0		386			LOWER POINTER TO THE TABLE ENTRY FOR THIS END		\circ
	000003		EQU	3	UPPER IF A BUSY CS, TRAP LOCATION		
\circ		388 389			IF A BUSY JOB FILE, TRAP LOCATION		\circ
		389 390			IF IN CS COPY, FR OF COMM FILE IF MESSAGE EXISTS, LOC IN SUPRA	· ·	
0		391			LOWER - IF A BUSY CM, LENGTH LEFT TO COPY		\cap
\cup		392			IF A BUSY CS. FRN OF OTHER END		
•		393			IN INITIAL SWAP FCB, FRN OF SUPRA JOB		بند
	000004	394 395 POIN	IT EQU	/.	IF MESSAGE EXISTS, MESSAGE LENGTH FILE POINTER		
	00004	395	vi EQU	4	WHEN DEST. FILE, DEBIT TO SSSCRW OR SSCATW		
	000005		EQU	5	FILE LENGTH OR CATALOG MAX		\cap
\cup		398			ZERO FOR JOB FILES MEANS JOB TERM®D		\smile
	000006		EQU	6	FIRST DEVICE ADDRESS		_
		400 * 401 *	FORMAT	OF DATA FCB FOR	SHARED FILES		Q
1		402 *	TOREMI	OF DATA ICO TOR	SHIRLD FIELD		
		403 ACC		0	ACCESSES = 0		\cap
		404 TYPE		0	TYPE OF FILE BEING SHARED IN PREF FIELD		\cup
	000000		эт	1	TYPE FIELD = F\$DATA ABORT = R\$SIGN (NOT ABORTARIE)		<u>_</u>
		406 ABOF 407 RET	()	1	ABORT = B\$SIGN (NOT ABORTABLE) RET = TRAP LOCATION FOR MME		\circ
		408 CAT		2	UPPER - POINTER TO MASTER CSUSE		
0	000000	409			LOWER - POINTER TO OUR C\$USE		$\dot{\bigcirc}$
	000003		EQU	3	SOURCE FILE POINTER SAVED HERE		\smile
	000004 000005	411 PT2 412 CPL	E Q U E Q U	4 5	DEST FILE POINTER SAVED HERE COPY LENGTH		
\mathcal{O}	000006		EQU	6	UPPER - FRN OF SOURCE FILE OF COPY		\circ
	000006		EQU	SFR	LOWER - FRN OF DESTINATION FILE		•
	. 000007		EQU	7	MAX DEBIT TO CATW		
	000010		. EQU	8	LENGTH OF DATA FCB	# # # # # # # # # # # # # # # # # # #	
		417 * 418	UPPER	ACC, ABORT, SFR		[09DEC79] [09DEC79]	<u> </u>
0		419	LOWER	TYPE, RET, DFR		[09DEC79]	\cup
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	F		DEFINITIONS FILE CONT	ROL BLOCKS		
		420	EJECT			O
0		421 * 422 * 423 *	FOLLOWING FORMAT. BIT	E FILE PREFERENCE IN BITS 26-31 IN THE S 26-28 UNUSED.		0
0		424 * 425 *		S 29-31 PREFERENCE SPECIFIED BY CREATOR IED IN BITS 32-35 BY THE FOLLOWING CODES.		0
	00001		B00L 17	TYPE FIELD MASK		
0	00000 00000	02 429 CTL	B00L 1 B00L 2	A CATALOG AS A FILE A CATALOGED FILE OR CATALOG	16AUG74 16AUG74	Ö
	00000 00000		800L 0 800L 1	REGULAR SCRATCH FILE REGULAR SCRATCH CATALOG		0
0	00000 00000	02 432 RCF	B00L 2 B00L 3	REGULAR CAT FILE REGULAR CAT CAT	•	\cup
0	00000	D4 434 SPE	BOOL 4	SPECIAL FILES	16AUG74	Ö
	00000 00000	05 436 SSC	B00L 4 B00L 5	SPECIAL SCRATCH FILE SPECIAL SCRATCH CAT		
0	00000 00000		B00L 6 B00L 7	SPECIAL CAT FILE (DEVICE FILE) SPECIAL CAT CAT		0
	00001	10 439 SPL	BOOL 10 -	OTHER SPECIAL TYPES	16 AUG74	
0	0000 1 0000 1	11 441 CM	B00L 10 B00L 11	COMUNICATIONS SLAVE COMMUNICATIONS MASTER		O
	00001 00001		B00L 12 B00L 13	RUNNING JOB NONEXISTANT FILE		
0	00001	14 444 OFL	B00L 14	OFF LINE FILE	[170c 74°	,
0		16 446 SHR	B00L 15 B00L 16	SHARED MODE OR STACKED SPECIAL DATA FCB SHARED MODE FILE (NOTE: CTL ON, CTF OFF)	[1700 T76]	
	00001	14 447 SPT 448 *	B00L 14	ALL SPECIAL FILE TYPES	16 AUG74	_
0		20 449 PREF	B00L 20	FILE PREFERENCE FIELD MULTIPLIER	[09DEC79]	
'	00016 20000	00 451 PASSD	B00L 160 B00L 200000	PREFERENCE FIELD MASK FLAG FOR PASS-IN-PROGRESS		
0	40000 10000	00 452 ALT 00 453 LALT	B00L 400000 B00L 100000	FLAG BIT TO INDICATE FILE ALTERED LENGTH OF THE FILE HAS BEEN ALTERED		0
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~	F	DEFINITIONS CAT	ALOG SYMBOLS		
	454 455	TTLSS CATALOG S	YMBOLS	[09DEC79]	0
0	456 457	HEAD C		[09DEC79] [09DEC79]	0
0	458 459 000000 460	* CATALOG HEADER * MAX EQU O	MAXIMUM TOTAL FILE LENGTH	[09DEC79] [09DEC79]	0
0	000001 461 000002 462 463	ALOC EQU 1 TRAN EQU 2 * *-* NOTE: WORD T	ACTUAL TOTAL FILE LENGTH *-* NON-ZERO IF CAT HAS TRANSPARENT SUBCATS WO HAS SPECIAL MEANING FOR CORE CATS.		0
	000003 464 465	CKSUM EQU 3	HEADER CHECKSUM FOR A NON-CORE CATALOG FOR THE MFD. A CHECKSUM OF THE ENTIRE		0
	466 000004 467 000005 468	CLEN EQU 4 INDEX EQU 5	CATALOG IS STORED HERE ON A SOFT CRASH UPPER - LEN OF DA LIST UPPER - POINTER TO FIRST ENTRY		
- 0	000005 469 000006 470	ENTRY EQU 5 CN EQU 6	LOWER - NUMBER OF ENTRIES LENGTH OF CAT		O
0	000007 471 472 473	CDA EQU 7 * CATALOG ENTRY	DA LIST OF CAT	[09DEC79] [09DEC79]	0
0	474 000000 475	* LEN EQU O	UPPER - LENGTH OF ENTIRE FCB	[09DEC79]	0
0	000001 476 000003 477 000005 478	NAME EQU 1 PASS EQU 3 DATE EQU 5	UPPER - DATE LAST USED		0
0	000006 479 000006 480	DALT EQU 6 TYPE EQU 6	UPPER - DATE LAST ALTERED LOWER- MISC INF		0
	000007 481 000010 482 000011 483	ACC EQU 7 N EQU 8 DA EQU 9	ACCESS INFORMATION LENGTH OF FILE OR MAX OF A CAT FIRST DA OF THE FILE		
	4 3 4 4 8 5	* UPPER CLEN,INDE	X > DALT	[09DEC79]	
	4 8 6 4 8 7 4 8 8	LOWER ENTRY TYP * * CSS **	'E	[090EC79]	Q
0	489 490 000004 491	CSS MULTI BUFFEREPOSITIONAL POINTE	R TABLE		.0
0	000000 492 000001 493	PPPDA EQU O PPSEG EQU 1	NUMBER OF WORDS PER ENTRY IN TABLE PDA SEGMENT NUMBER		0
0	000002 494 000003 495 496	PPPTR EQU 2 BFPTR EQU 3 * HISTORY TABLE	HISTORY POINTER BUFFER POINTER		\mathcal{C}
0	000004 497 000000 498 000001 499	NENT EQU 4 HCNT EQU 0 HPDA EQU 1	NUMBER OF WORDS PER ENTRY IN TABLE HISTORY COUNTER PDA		0
0	000002 500 000003 501 502	HSEG EQU 2 HUSE EQU 3 * HISTORY AND BUFFE	SEGMENT NUMBER INDICATES HISTORY IN USE BY PPTAB R SIZES		0
0	000014 503 000050 504 505	NBUF EQU 12 NHIS EQU 40 *	*-* NUMBER OF CATALOG BUFFERS NUMBER OF CATALOG HISTORIES		0
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	C	506		DEFINITIONSC * CSS **	ATALOG SYMBO	LS			0
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	_	С	DEFINITIONS CATALOG SY	MBOLS			
1	0	507 508	EJECT ★			[09DEC79]	0
	0	509 510		RIES WHEN USED FOR CATALOGED FILES		[09DEC79]	0
	_	000000 511 000001 512	USEDA EQU O	DA OF SUPRA CATALOG PLUS ENTRY NUMBER UPPER - USE FLAGS (FOR SHARED FILES, 1ST LINK)			
	0	513 000002 514		LOWER ATTACHMENT COUNT LENGTH OF A CSUSE LIST ENTRY			0
	0	515 516	*	WHEN USED AS COMFILE TABLE ENTRIES			
	^	517 518	* OR SHARED FILE ENTRIES	WHEN OSED AS CONFILE PADEL ENTRIES			
	0	519 520	HEAD F				0
	0	000000 521 522	BIT EQU O	UPPER BITS FOR THE COMFILE (BITS 1-11) BIT O IS ALWAYS ON AND BITS 12-17 ARE ALWAYS OFF	· •		
	0	000000 523 000000 524		LOWER LINK TO NEXT END OF THE FILE FOR COMFILES -			0
	_	525 526 527		THE MASTER END IS LINKED TO THE LOWEST SLAVE END SLAVE ENDS ARE LINKED IN INCREASING ORDER.) ,		
,	0	000001 523 000001 529	J EQU 1	THE HIGHEST SLAVE IS LINKED TO THE MASTER. UPPER JOB NUMBER AT THIS END LOWER FRN OF THE COMFILE AT THIS END			
	0	530 531	* UPPER BIT.J	LOWER TRIVOT THE CONTIEL AT THIS END		[09DEC79]	0
	0	532	LOWER LINK, FR			[09DEC79]	0
	\cup						\circ
	0						0
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	F		DEFINIT	IONSB\$ BITS			
0		5 3 3 5 3 4	TTLSS	B\$ BITS	GENERAL BIT DEFINITIONS	[09DEC79] [09DEC79]	
0	400000 040000	535 536 SIGN 537 TRAPE	HEAD BOOL BOOL	B 400000 040000	SIGN BIT E REGISTER FLAG FOR SLAVE TRAP PROGRAMS	[09DEC79] [09DEC79] [09DEC79]	0
0	002000	538 * 539 MKS	BOOL	2000	MULTIPLE OF K CURRENTLY USED IN SLAVE MEM	[09DEC79]	Ö
0	001000 001000 000040 000100	540 SSV 541 LSV 542 MXFCB 543 UTYPS	BOOL BOOL EQU EQU	1000 1000 32 64	STANDARD SV SIZE LARGE SV SIZE MAX LENGTH OF AN FCB *****MAY BE INCOMPLETELY PARAMA' NUMBER OF VALID USER TYPES	TERIZED [01FEB77]	0
0	000100 000036	544 MXSV 545 MXLG 546 *	E Q U E Q U	64	MAX NUMBER OF FRNS FOR SMALL STATE VECTOR MAX LENGTH TO LOG ON LOG MME	[170CT76] [30DEC76]	0
0	400000	547 * 548 *		INITIONS FOR J\$B	IT SWAP IN PROGRESS		\circ
0	200000 100000 040000	549 SWAP 550 CORE 551 TERM 552 CONA	800L 800L 800L 800L	200000 100000 40000	1 IF IN CORE, O IF NOT 1 - IN PROCESS OF TERMINATE / NOT IF 1 MUST BE RESET BY IMMEDIATE SUPRA		0
0	020000 010000 004000	553 CONB 554 MDA 555 SWREQ	B00L B00L B00L	20000 10000 4000	IF 1 MAY BE RESET BY ANY JOB ABOVE INITIAL SWAPIN IN PROGRESS SWAP-REQUESTED BIT		0
0	002000 001000 000400	556 557 PBLK 558 UPS	B00L B00L B00L	2000 1000 400	SWAP IN OF PURE PROCEDURE IN PROGRESS UNSET PAUSE - SWAP BIT	[09DEC79] [09DEC79] [09DEC79]	0
0	000200 000100	559 RUN 560	800L 800L	200 100	JOB IS RUNNING OR QUEUED TO RUN	[09DEC79] [09DEC79]	0
0	000040	562 * 563 LIMIT	WAS * CSS BOOL	40	JOB IS LIMITED IN CRU USAGE	[08AUG77]	0
0	000020 000010 000004	566 TERMC	* CSS BOOL BOOL BOOL	** 20 10 4	SET IF AT BOTTOM OF TERMINATING TREE TEMPORARY FLAG TO INDICATE FRO OP UNTRAPPED ERROR OCCURRED ON SWAP-IN		0
0	000002	568 COURT 569 CLOCK	800L 800L	2 1	COURTESY SHOT IN PROGRESS CLOCK RUNNING	500050707	0
0	414000	570 CPBLK	EQU	SWAPTHUATSWREW	BITS WHICH BLOCK COPY SUBROUTINE	[09 DE C 79]	0
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		8			DEFINIT	IONSB\$ BITS			
Ç)		571		EJECT			[01SEP79]	0
			572 573	*					
C)		574	*	BIT DEF	INITIONS FOR SE	BBIT		0
		40000	575	*		40000			
C)	400000 200000		SPINP ENTRY	800L 800L	400000 200000	SPECIAL INTERRUPT IS PENDING INITIAL EXEC ENTRY FLAG		0
		100000		NRUN	BOOL	100000	JOB RUN WITH "NEW" RUN MME		
)	040000		SPOVE	BOOL	040000	SPECIAL INTERRUPT STACK HAS OVERFLOWED		
		050000	580 581	TRAPP *	BOOL * WAS	020000 BOOL 010000"S	JOB RUN AS SLAVE TRAP PROGRAM	[01SEP79]	
			582	*	* WAS	BOOL 004000"S		[01SEP79]	\circ
C)		583	*	* CSS	**			0
		010000		TRAPR	BOOL	10000	SLAVE TRAP PROGENY BIT	6	
)	004000		NPRN	BOOL	4000	NON-PRIVILEGED RUN IN PROGRESS		\circ
		002000	586 587	* LPAUS	* CSS BOOL	** 002000	JOB HAS ISSUED A "LONG PAUSE"	[09DEC79]	
_	`	001000		FLOG	B00L	001000	JOB HAS 1330ED A CONG FAUSE JOB HAS LOG MME OUTSTANDING	[22JUN76]	
)		589	*					\cup
			590	*	BIT DEF	INITIONS FOR Ja	STYPE		
)	400000	591 592	*	2001	400000	MONITOD		\circ
		200000		M O N C R R E S	800L 800L	200000	MONITOR CORE RESIDENT		
)	100000		SV	800L	100000	LARGE STATE VECTOR		Ö
	,	040000		CATPR	BOOL	040000	SPECIAL CATALOG PRIVILEGE; ALLOWS:	[09DEC79]	\circ
'.			596				1) CREATE INFINITE MAX CATALOGS		_
)		597 598				2) PREALLOCATE LARGE SCRATCH CATALOGS 3) CMAX BELOW ALLOC	[1700 176]	\circ
		020000		DUMP	B00 L	20000	LOAD-DUMP PRIVILIGE; ALLOWS:	211061103	
)		600				1) NON-SHRINKING STATE VECTOR		\circ
_	,		601				2) PROVIDE DEVICE ADDRESS MME		•
			602 603				3) PREALLOCATION OF SCRATCH FILES4) CATALOG WITH CODED DATES, DAYS USED COUNTS		
C)		604				5) CATALOG, OPEN WITHOUT QUOTA CHECKS		0
		010000		PDQ	BOOL	10000	EXPRESS SERVICE BIT		•
)		606	*	* WAS		4000 "JOB MAY CRASH SYSTEM	[170cT76]	0
		201000	607	*	* CSS	* * 	IOD MAY SET DEGLECT INTO IN DUN LICE		
	`	004000	608 609	PID *	BOOL * CSS	4000 **	JOB MAY SET PROJECT ID'S IN RUN LIST		\bigcirc
)	002000		LOG	BOOL	2000	JOB MAY LOG TO CONSOLE	[170cT76]	0
			611	*				E170CT76]	
)		612	*	DEFINIT	IONS FOR SSFTYF	PE	[170cT76]	Ç
		000001	613 614	* MME	EQU	1	JOB ISSUED MME	[170CT76] [170CT76]	
1 ~	\	000001		DIR	EQU	2	JOB 1550ED MME JOB GOT FAULT AND HAD A DIRTY FAULT VECTOR	[1700176]	
)	000003		PAR	EQU	3	A PARITY FAULT OCCURRED WHILE THE JOB WAS EXECUTING	[170cT76]	
ı		000004	617	TROF	EQU	4	JOB SHOULD BE RESCHEDULED AND SENT BACK OUT	[170cT76]	
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_	В		DEFINITIONS -	B\$ BITS				
0		618 619 *	EJECT					0
		620 *	BIT DEFINITION	ONS FOR FSACCES	S			0
0	40000 20000 20000	623 BSY	B00L 40000 B00L 20000 B00L 20000	00 BUS	ALOG BIT Y BIT SWORD TO BE CHECKED FLAG			0
0	200000 100000 040000	625 SHR 626 RET	BOOL 20000 BOOL 10000 BOOL 40000	00 SHA 00 RET	RED BIT FOR ACCESS WORD URN BIT			0
	020000 010000 004000	628 PASSD 629 EX	B00L 20000 B00L 10000 B00L 4000	0 FIL 0 EXE	E HAS BEEN PASSED CUTE / SEARCH BIT			0
0	002000 001000 057000	631 WT 632 RD	B00L 2000 B00L 1000	WRI	T E D	`		Ö
	000400 000777 000400	634 LS 635 UBITS	BOOL 400 BOOL 777 BOOL 400	USE USE		16AUG74		0
0	000200 000040	637 CR	B00L 200 B00L 40	COM	M FILE BIT SAYING SLAVE END ISSUED REA TRAP 1 - NO TRAP			0
		640 * 641 * 642	BIT DEFINITION	ONS FOR F\$BIT	ZERO IS ALWAYS ON TO DISTINGUISH THE EN	JTRY		0
	200000	643 644 *	B00L 4000(B00L 20000	FR00 00 MUS	M A CATALOG DA T BE ONE Y IN PROGRESS	,		0
0	190000 040000		BOOL 10000 BOOL 40000	00 DRI	VE IN PROGRESS VE HAS ISSUED RESET STATUS AND MASTER HA ECHOED THE OPERATION	A S		0
	020000 010000 004000	650 CFCL 651 CFSCL	BOOL 2000 BOOL 1000 BOOL 4000	0 AN THE THI	OPERATION HAS BEEN ABORTED BY RESET STAT FILE IS BEING CLOSED S END REQUESTED A CLOSE	US		0
	002000 001000 000400 000200	653 CFRSV 654 CFRVM	B00L 2000 B00L 1000 B00L 400	FIL FIL	S END HAS BREAK PERMISSION E IS RESERVED FOR THE SOME SLAVE END E IS RESERVED FOR THIS END			0
0	000100	656 CSHRR 657 *	B00L 200 B00L 100 B00L 40	LAS MUS	S END WAITING FOR SHARED MODE ACCESS T SHARED COPY INITIATED WAS A READ T BE ZERO		[14JUL76]	0
		658 * 659 * 660 * 661 *	B00L 20 B00L 10 B00L 4 B00L 2	MUS MUS	T BE ZERO T BE ZERO T BE ZERO T BE ZERO			0
	370400	662 *	B00L 1	MUS +CFGA+CFC+CFD+C	T BE ZERO T BE ZERO FR+CFRVM BITS WHICH MAKE THE FILE BUSY S 12-17 ARE ALHAYS ZERO TO DISTINGUISH			0
0		665			S 12-17 ARE ALWAYS ZERO TO DISTINQUISH ENTRY FORM A CATALOG DA			0
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	0	INSERT 06/18/8	1 06:56:2	8 DTSS E	EXECUTIVE	(INSERT SEGMENT	DTSS TRADE SEC	RET PAGE	21	0
		В			DEFINI	TTIONSB\$ BITS				
	0		666 667		EJECT				[09DEC79]	0
	0		668 669 670	*		EFINITIONS FOR X4 HARED FILE ACCESS	FLAGS ON COMFILE MME'S SES.			0
	0		400000 671 200000 672	RSVS	BOOL BOOL	400000 200000	DON*T TRAP SLAVE SOURCE RESERVE SLAVE SOURCE COMFILE			0
	0		000400 673 000200 674 177177 675	RSVD	BOOL BOOL EQU	400 200 -1-NTPS-RSVS-N	DON [®] T TRAP DESTINATION RESERVE DESTINATION COMFILE ITPD-RSVD ILLEGAL BITS	16AUG74 16AUG74		0
	0		676 677 678	*	BIT FL	AGS IN X4 FOR LO	G MME		[22JUN76] [22JUN76] [22JUN76]	0
	0		400000 679 200000 680	DING FILE	B00L B00L	400000 200000	RING CONSOLE ALARM LOG TO FILE ONLY		[22JUN76] [22JUN76]	0
			681 682	*	BIT DE	EFINITIONS FOR CE	SUSE			
	0		683 400000 684 200000 685	CAP	B00L B00L	400000 200000	APPEND FLAG FOR C\$USE WRITE FLAG FOR C\$USE			0
			100000 686 040000 687	HLD CSHR	B00L B00L	100000 040000	FILE IS HELD OPEN BY EXEC SHARED MODE FLAG FOR C\$USE		•	0
	0		600002 688 200003 689 690	CCAL	E Q U E Q U	CWT+CAP+2 CWT+3	ALL ATTCHMENTS ON FILE ALL ATTCHMENTS ON CATALOG			0
			691 692	*	BIT DE	FINITIONS FOR CA	SUSE FLAGS			· ·
	0		400000 693	DLU	BOOL	400000	DLU IS NOT CURRENT			0
			200000 694 100000 695		BOOL BOOL	200000 100000	DLA IS NOT CURRENT FILE HAS BEEN ALTERED			0
			040000 696 020000 697	APREL	BOOL BOOL	40000 20000	APPEND HAS BEEN RELEASED LENGTH HAS BEEN ALTERED			\cup
	0		007777 698		800L	7777	MASK FOR HOLD COUNT FIELD			0
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0	B 699	DEFINITIONSB\$ BITS EJECT		[09DEC79]	0
	700 701	* BIT DEFINITIONS FOR C\$AC	CESS	20/0201/3	0
	702 400000 703 200000 704	STRAP BOOL 200000	FILE IS PROTECTED BY A TRAP PROGRAM FILE IS PROTECTED BY A SLAVE TRAP PROGRAM		
	020000 705 020000 706 000400 707	TLESC BOOL 20000	FILE IS ACCESSABLE THROUGH CLIMBING SPECIAL SCAN CONVENTIONS ARE ILLEGAL EXEC TRAP BIT FOR VALIDATION FILES		<u> </u>
	000200 708 000100 709	TMUD BOOL 200 TBIL BOOL 100	EXEC TRAP BIT FOR MASTER USER DIRECTORY EXEC TRAP BIT FOR BILLING CATALOG		O
	000040 710 000020 711 000010 712	TBAK BOOL 20	EXEC TRAP BIT FOR PERIPHERALS AND SUCH EXEC TRAP BIT FOR BACKGROUND JOB CATS EXEC TRAP BIT FOR LIBRARIES		0
0	000004 713 000002 714 000001 715	TMFD BOOL 2	EXEC TRAP BIT FOR MONITOR/SYSTEMS CATS EXEC TRAP BIT FOR MASTER FILE DIRECTORY EXEC TRAP BIT FOR SYSTEMS PROGRAMMERS		Ö
0	000777 716 717	TALL BOOL 777	ALL EXEC TRAP BITS		O
0	718 719 000000 720	<pre>* BIT DEFINITIONS FOR SPEC * STM EQU 0</pre>	SET MODE		0
	000001 721 000002 722 000003 723	SRS EQU 2	READ COMMUNICATION FIRL SLAVE RESET STATUS ON COMM. FILE BREAK		0
0	000004 724 000005 725	PF EQU 4 RF EQU 5	PASS FILE RETURNED FILE		0
	000006 726 000010 727 000012 728	ITA EQU 8 D EQU 10	FILE CLOSED ILLEGAL TRAP ADDRESS DRIVE		Ö
	000013 729 000014 730 000015 731	W EQU 12	READ WRITE REQUEST STATUS		\bigcirc
	000016 732 000017 733	T EQU 14 SP EQU 15	TRUNCATE SET POINTER	F 1 5 N F C 7 4 7	0
	000024 734	MRD EQU 20	MULTI-RECORD DRIVE (DCWS)	[15DEC76]	0
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0	B DEFINITIONSB\$ BITS 735 EJECT [09DEC79]	0
0	736 * 737 * GENERAL BIT DEFINITIONS FOR STATUS RETURNS 16AUG74	O
	738 * 000000 739 OK BOOL O OK 000020 740 STAT BOOL 20 STATUS WAS RESET	\circ
	000040 741 QUEX BOOL 40 QUOTAS EXCEEDED 000060 742 NSTOR BOOL 60 SYSTEM OUT OF STORAGE 000100 743 ACER BOOL 100 ACCESS ERROR	0
0	000120 744 BUSY BOOL 120 FILE BUSY 000140 745 ERRA BOOL 140 A REGISTER PARAMETER ERROR	0
	000200 747 ERRO BOOL 200 XO PARAMETER ERROR 000220 748 ERR1 BOOL 220 X1 PARAMETER ERROR	0
0	000240 749 ERR2 BOOL 240 X2 PARAMETER ERROR 000260 750 ERR3 BOOL 260 X3 PARAMETER ERROR 000300 751 ERR4 BOOL 300 X4 PARAMETER ERROR	Q
0	000320 752 ERR5 BOOL 320 X5 PARAMETER ERROR 000360 753 ERR7 BOOL 360 X7 PARAMETER ERROR	O
0	000400 754 RERR BOOL 400 RECOVERABLE ERROR 000420 755 UERR BOOL 420 UNRECOVERABLE ERROR 000440 756 UNABL BOOL 440 NOT SUFFICIENTLY ENABLED [01May79]	0
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	В			DEFINI	ITIONSB\$ BITS				
C									\cap
		757 758	*	EJECT			16AUG74 16AUG74		\mathcal{L}
~		758 759	*	SPECIF	IC BIT DEFINITI	IONS FOR STATUS RETURNS	16AUG74 16AUG74		$\overline{}$
	,	760	*				16AUG74		\bigcirc
		761 762	*	COPY, h	VRITE, READ, DRIVE	E, READ CAT, READ CAT AND OPEN	16AUG74		
	00000		* SFE	800L	1	SOURCE FILE EXHAUSTED	16AUG74 16AUG74		\circ
	00000	02 764	DFE	BOOL	2	DESTINATION FILE EXHAUSTED	16AUG74		
	00000		COMP	B00L	SFE-DFE	(CONSTANT FOR SWITCHING STATUS)		[15DEC76]	\cap
`	0000		INA	800L	3,	OPERATION INAPPROPRIATE	16AUG74)
_	00000		S P T D P T	B00L B00L	4 5	SOURCE POINTER OUT OF BOUNDS DESTINATION POINTER OUT OF BOUNDS	16AUG74 16AUG74		_
	00000		CFB	BOOL	6	COMFILE BUSY	16AUG74		\circ
	00000	07 770	NAS	BOOL	7	OTHER END NOT ACCEPTING SPECIALS	16AUG74		
	00001	10 771	BDW	BOOL	10	BAD DCW	16AUG74		\bigcirc
	00001		SVF	BOOL	14	STATE VECTOR FULL	16 AUG74		\mathcal{C}
	0000 1	15 773 774	JSW *	BOOL	15	JOB SWAPPED OUT OF CORE	16AUG74		_
)	774 775	*	CATALO	G		16AUG74 16AUG74		\circ
		776	*	UNIALU	- -		16 AUG74		
	00000	01 777	ITP	BOOL	1	ILLEGAL TRAP PROTECTION	16AUG74		$\overline{}$
	00001		TPL	BOOL	1 4	PREFERENCE OF SCRATCH FILE TOOO LOW		[01MAY79]	$\overline{}$
		779 200	*	A P. P. A.	DACE DEDITE		16AUG74		
)	780 781	*	OPEN, E	ERASE, REPLACE		16611071		С
	00000		* PRL	BOOL	1	PARTIAL SUCCESS	16AUG74 16AUG74		
			CTF	BOOL	1	X2 POINTS TO CATALOGED FILE (FROM CATL)	100014		
	00000	784	PRE	800L	2	PREFERENCE TOO LOW (FROM CATL)			
	00000		LOK	BOOL	2	LOCKOUT			
		03 786	NOF NOR	800L	3	FILE NOT FOUND			C
	00000 00000		PRV FAL	800L 800L	4 5	PROTECTION VIOLATION FAIL ON CLIMB			
	00000		BTN	BOOL	6	BAD TREE NAME			
	00000	07 790	CLE	BOOL	7	CLIMB ERROR			
	00001		OFL	BOOL	10	OFF LINE FILE			
¦ C	00001		SPR	BOOL	11	SPECIAL FILE CANNOT BE REMOVED			С
	00001	12 793 794	FER *	BOOL	12	FORMAT ERROR			
	N. Company of the Com	794 795	*	FORMAT	T ERROR SUB-STAT	USES			
<u>_</u>		796	*		2 233 318.				<u> </u>
	00000		LNG	EQU	1	NAME TOO LONG			
	00000		AST	EQU	2	TOO MANY ASTERISKS IN *** SCAN			C
	00000 00000		MUD DPS	E Q U E Q U	.5 4	ILLEGAL USER NUMBER FORMAT DUAL PASSWORD			
	0000		CHR	EQU	5	ILLEGAL CHARACTER			
	00000	208 80	ILF	EQU	6	ILLEGAL FORMAT			
	00000	07 803	ILC	EQU	7	ILLEGAL CONVENTION (CONVENTIONS ARE DISAL			
C	00001		ILS	EQU	8	ILLEGAL USE OF "/" CONVENTION (CATALOG, RE		[09DEC79]	C
•		805 806	*	rrr	CAT		14 84077	[09DEC79]	-
_		806 807	*	CCE,UN	VUNI		16AUG74 16AUG74		
	00000		FNC	BOOL	1	FILE NOT CATALOGED	16AUG74		
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0	B DEFINITIONSB\$ BITS			\cap
_	000003 810 ITB BOOL 3 ILLEGAL TRAP BITS 1	16AUG74 16AUG74		
0		16AUG74		0
0	814 *	16AUG74 16AUG74 16AUG74		0
		16AUG74		
0	000001 818 SLL BOOL 1 TRUNCATE SPEC. LEN LONGER THAN CURRENT 1	16AUG74 16AUG74		
0	000001 820 TRO BOOL 1 TIMER RUNOUT ON A RUN 000002 821 ABO BOOL 2 JOB ABORTED (STATUS RETURN ON A RUN)			Ö
0		16AUG74		0
	000006 825 SWP BOOL 6 SWAP-OUT ERROR 1	16AUG74 16AUG74	EDD 11117/1	
	000001 826 LG2 BOOL 1 LOG - LOG ALREADY OUTSTANDING 000002 827 LGNBF BOOL 2 LOG - NO BUFFER AVAILABLE 000003 828 LGESC BOOL 3 LOG - ESCAPE SEQUENCE OVERFLOW		[22JUN76] [22JUN76]	0
0	DOUBLES DOUL S LOUS SERVENCE OVERFLOW		[22JUN76]	0
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	В	DEFINI	TIONSLIST ELEM	ENT SYMBOLS		
	829 830	* TTLSS	LIST ELEMENT SY	MBOLS		0
0	8 3 1 8 3 2	*	QUEUE MANAGEMEN	T SYMBOL DEFINITIONS		\circ
0	833 000000 834 000000 835 000001 836	HEAD LINK EQU RUN EQU QLEN EQU	Q O O	QUEUE LINK (UPPER HALF) TRANSFER ADDRESS FOR MASTER TASK QUEUE	F00056707	0
0	837 838 839	QLEN EQU * UPPER LOWER	RUN+1 LINK RUN	LENGTH OF ELEMENT HEAD	[09DEC79] [09DEC79] [09DEC79] [09DEC79]	0
0	840 841 842	* *		NTROL SYMBOL DEFINITIONS		0
0	843 777777 844 777777 845	HEAD LINK EQU LEN EQU	T -1 -1	LINK TO PREVIOUS STORAGE BLOCK LENGTH OF AVAILABLE STORAGE IN BLOCK		O
0	846 847 848	* UPPER LOWER	LINK LEN		[09DEC79] [09DEC79]	0
0	849 850 851	* * *		ATED TASK STRUCTURE LIST ELEMENT	[09DEC79]	0
0	852 000001 853 000002 854	HEAD IENT EQU ILEN EQU	x 1 2	IOC QUEUE ENTRY LENGTH OF STRUCTURE		0
	855 856 857	* * HEAD	E			0
0	000001 858	XJ EQU	1	LOC OF X - J IN LIST ELEMENT		0
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(Е			DEFINIT	TIONSPHYSICAL	I/O DEFINITIONS			
			859 860	*	TTLSS	PHYSICAL I/O DE	EFINITIONS		C09DEC793 C09DEC793	0
0			861 862 863	* * *	PHYSIC/	AL IO CALL AND S	TORAGE BLOCKS	16AUG74 16AUG74	[09DEC79]	0
0		000001	864 1 865	DEV	HEAD EQU	I 1	(UPPER) PHYSICAL UNIT NUMBER	16 AUG74		0
		000001 000002	2 867 868	TYPE CMD	E Q U E Q U	TYPE+1	(LOWER) DEVICE TYPE (UPPER) CURRENT COMMAND TABLE POINTER (LOWER) SAVED COMMAND TABLE POINTER			0
0		000003 000003 000003	3 870 3 871	PUB PUBL SPRET	EQU EQU EQU	CMD+1 PUB PUB	(UPPER) PUB NUMBER *4 (LOWER) (LOWER) SPECIAL TIMEOUT RETURN		[09DEC79]	0
0		000004 000005 000006	873	SEKAD QWORD URET	EQU EQU EQU	PUB+1 SEKAD+1 QWORD+1 CALLING	(FULL) SEEK ADDRESS (FULL) FAKE IOC QUEUE WORD (UPPER) USER RETURN ADDRESS PARAMETERS			
0		000006 000007 000007	3 876 7 877	A DE XT MODE MODEL	EQU EQU	URET URET+1 MODE	(LOWER) ADDRESS EXTENSION (BITS 0-5 OF 24 (UPPER) MODE OF OPERATION (LOWER)	BIT ADD.)	[05N0V77]	O
0		000010 000011 000012	879 880	DAC QUEWD DCWWD	EQU EQU EQU	MODE+1 DAC+1 QUEWD+1	(FULL) DEVICE ADDRESS CODE (FULL) PACKED VERSION OF QWORD ON RETURN (FULL) DCW RESIDUE		20/0201//3	0
0		000013 000014 000015	3 882 4 883	SIDCW SKDCW IDCW	E Q U E Q U	DCWWD+1 SIDCW+1 SKDCW+1	(FULL) SEEK IDCW WHEN NEEDED (FULL) SEEK DCW WHEN NEEDED (FULL) IOM COMMAND			0
0		000016	885 886	D C W	EGU	IDCW+1	(FULL) BEGINNING OF DCW LIST			0
0	·		887 888 889	*	UPPER LOWER	DEV.PUB.URET.MC	T, MODEL, ADEXT	4 (4)) 7 7 4	E O 9 DE C 7 9] E O 9 DE C 7 9] E O 9 DE C 7 9]	\circ
			890 891 892	*	HEAD	ANNEL DEFINITION:		16AUG74 16AUG74 16AUG74		<u></u>
0		000040 000010	894 895	N C H A N F P C H N	EQU EQU HEAD	32 8 x	TOTAL NUMBER OF CHANNELS FIRST PAYLOAD CHANNEL IS 8	16AUG74 16AUG74 16AUG74		0
0		000004 000010 000014	897 898	F AUCH C ONCH S N A C H	EQU EQU	1 * 4 2 * 4 3 * 4	FAULT CHANNEL * 4 CONNECT CHANNEL * 4 SNAPSHOT CHANNEL * 4	16AUG74 16AUG74 16AUG74		0
0		000020 000024 000030	900 901	WRACH BTCH SPECH	E Q U E Q U	4 * 4 5 * 4 6 * 4	WRAP AROUND CHANNEL * 4 BOOTLOAD CHANNEL * 4 SPECIAL STATUS CHANNEL * 4	16AUG74 16AUG74 16AUG74		0
0		000034 000000 000001	903 904	S C R C H L P W L P W X	EQU EQU EQU	7 * 4 0 1	SCRATCH PAD CHANNEL * 4 RELATIVE LOCATION OF LPW IN MBX RELATIVE LOCATION OF LPWX IN MBX	16AUG74 16AUG74 16AUG74		0
0		000002 000003		S C W D C W	EQU EQU	2 3	RELATIVE LOCATION OF SCW IN MBX RELATIVE LOCATION OF DCW IN MBX	16AUG74 16AUG74		Ó
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06/18/81 06 : x	• 56 • 28 907 908 909		E (INSERT SEGMENT ITIONS ——PHYSICAL	DTSS TI/O DEFINITIONS	RADE SECRET	PAGE 28	CO9DEC79]	0 0 0 0
	910 911 912 913 914		OMMUNICATIONS ARE	Α			[09DEC79] [09DEC79] [09DEC79]	0
	001400 915 916 917 001340 918	MBX EQU	V\$MBX V\$IMW	128 WORDS 4 WORD MAILE 32 WORDS INTERRUPT WOR				0 0
)	919 920 002340 921 922 923	SISTK EQU * *	V\$SISTK	32 WORDS SYSTEM INTERR	RUPT STATUS STACK			0
)	001412 924 001413 925 926	PCWA EQU PCWB EQU *	MBX+CONCH+2 PCWA+1	WHERE WE PUT PCWA FOR I/O SAME FOR PCWB				0
))	000001 927 928 929 930 931	*	1 CTED CORE LOCATIO	BOOTLOAD PCWB CONTAINING	16. 16. 16.	AUG74 AUG74 AUG74		0 0
0	932 933 934 935 936	HEAD * BITS HEAD	Z FOR I\$QUEWD B		16	AUG74	[05N0V77] [05N0V77] [05N0V77]	0 0
0	937 000100 938	* IORET BOOL	000100	RET CODE FIELD			E05NOV773 E05NOV773	0 0
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	В		DEFIN	ITIONSPHY	SICAL I/O DEFINITIONS		
С		939 940 *	EJECT			[09DEC79] [05N0V77]	Q
C		941 * 942 *	I\$MOD	EMODE OF O	PERATION	203,10 4773	0
 C		943 * 944 * 945 *		IS A CODE SP OLLOWING VAL	ECIFYING THE TYPE OF OPERATION. IT MAY HAVE UES		0
		945 * 946 947 *	HEAD	I			
	0700 1000	100 948 MDR		070000 100000	RESET MPC . CONSOLE AWAIT READY	[01SEP79]	Q
С	1100 1400 1500	100 951 MDR	V BOOL	110000 140000 150000	AWAIT SPECIAL INTERRUPT USE NORMAL ERROR RECOVERY SUPRESS ALL ERROR RECOVERY		0
C	2000 2 1 00	100 953 MDS 100 954 MDS	B BOOL BOOL	200000 210000	SET BINARY (OR H716 NORMAL MODE) SET DECIMAL (OR H716 DUMP MODE)		0
	2200 2310 2320 2330	000 956 MDD 000 957 MDD	1 B00L 2 B00L	220000 231000 232000	SET ASCII <> EBCDIC MODE FOR 9 TRACK TAPES SET 200 BPI SET 556 BPI	[04JUL77] [04JUL77] [04JUL77]	0
C	2330 2340 2350 2400	000 959 - MDD 000 960 - MDD	4 B00L 5 B00L	233000 234000 235000 240000	SET 800 BPI SET 1600 BPI SET 6250 BPI SET DEFAULT HIGH DENSITY	[04JUL77] [04JUL77] [01May79] [04JUL77]	0
C	2500 2600	000 962 MDS 000 963 MDS	L B00L A B00L	250000 260000	SET DEFAULT LOW DENSITY SET ASCII	[04JUL77]	0
 - 	2700 3000 3100	100 965 MDF 100 966 MDE	R BOOL	270000 300000 310000	SET FILE PROTECT FORWARD SPACE RECORD BACKSPACE RECORD		0
C	3200 3300 3400	100 968 MDB	F BOOL	320000 330000 340000	FORWARD SPACE FILE BACKSPACE FILE WRITE BLANK TAPE/ CONSOLE ALARM		0
C	3510 3500 3600	000 971 MDE	F BOOL	351000 350000 360000	DATA SECURITY ERASE WRITE END-OF-FILE XX WRITE ONE CHAR RECORD XX	[01MAY79]	0
C	3700 3710 4000	100 974 MDR	U BOOL	370000 371000 400000	REWIND REWIND AND UNLOAD READ	[04JUL77]	Ģ
C	4100 4200 4300	100 977 MDR 100 978 MDF	H BOOL TO BOOL	410000 420000 430000	MULTI RECORD READ READ TRACK HEADER (DISK) FORMAT TRACK (DISK) OO	[04JUL77] [01May79] [01May79]	С
C	4310 4320 4330	100 980 MDF 100 981 MDF	T2 B00L T3 B00L	431000 432000 433000	01 10 11	[01MAY79] [01MAY79] [01MAY79]	Ç
С	6000 6100 6200	100 983 MDM 100 984 MDW	W BOOL	600000 610000 620000	WRITE MULTI RECORD WRITE WRITE IMAGE (PRINTER)	[04JUL77] [04JUL77] [04JUL77]	C
	6300 6400 6500	000 986 MDL 000 987 MDL	C BOOL BOOL	630000 640000 650000	WRITE VFC (PRINTER) LOAD CONTROL STORE (MPC) LOAD MAIN MEMORY (MPC)	[04JUL77] [04JUL77] [04JUL77]	С
C	6600 6700 7000	100 989 MDD	S BOOL	660000 670000 700000	LOAD PERSONALITY (MPC) READ DETAIL STATUS XXXXX DIAGNOSTIC——SPECIAL FORMAT XXXXX	[04JUL77] [04JUL77]	С
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_	I			DEFINI	TIONS PHYSICAL	I/O DEFINITIONS			
0		991	*						0
		992 993	*		ED HERE ARE SYMB(ENTRIES.	OLS TO REFERENCE THE CATALOG TRACKS LIMITS			
	20220	994 .	*						0
	00000		C N L O W C N U P R	BOOL BOOL	0 1	OFFSET FOR LOWER ADDRESS LIMIT OFFSET FOR CATALOG TRACKS UPPER LIMIT			0
0		997 998	*			RREG			\cup
0		999			_				0
		1000 1001		HEAD	0				•
0	00230	0 1002	CFILE	EQU	V\$CFILE	BEGINNING OF CORE FILE POINTERS			
_		1003 1004		HEAD	Z				
0	00010	1005	115	5011	77.7	LENGTH OF DOLLARS DIGGE FOR DIGGE DOCT			\circ
	00010	0 1006 1007	LLEN *	EQU	32 * 2	LENGTH OF DCW LIST BLOCK FOR DISK BOOT			
0		1008 1009	* *		SETS UP A QUEUE OHAS THE FOLLOWING	DESCRIPTER VECTOR			\circ
		1010	*	WHICH	and the roccowing	ייין פּ			
0		1011 1012	* *	WORD	CONTENT				\circ
		1013	*	-1	Q\$NPRI(0-17)	Q\$BUSY(18-35)		·	
0		1014 1015	* *	0 1	Q\$START(0-17) Q\$INDEX(0-17)	0(30-35) TAG(30-35)			\circ
		1016	*	• • •	• • •	•••			
0		1017 1018	*	NPRI	• • •	• • •			0
		1019	*						
		1020 1021	*	HEAD	Q				
	77777	1022 7 1 023	* NPRI	EQU	-1	UPPER HALF-NUMBER OF PRIORITY LEVEL			
	77777	7 1024	BUSY	EQU	-1	LOWER HALFPOINTER TO ACTIVE BLOCK			0
	00000 00000		INDEX START	EQU EQU	+1 0	START OF PRIORITY INDEXES FIRST ENTRY IN QUEUE			-
0	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1027	*			TINST ENTRY TO GOLDE			0
		1028 1029		UPPER LOWER	NPRI BUSY			[09DEC79] [09DEC79]	0
		1030	*					[09DEC79]	
0		1031 1032	*	TIMER	QUEUE LIST ELEMEN	IT DEFINITION .			0
		1033 1034	*	11540	V				\circ
0		1035	*	HEAD	X				0
	00000	1 1036 1037	TIM *	EQU	1	PLACE WHERE TIME IS STORED			Ų
		1038	*	* CSS	**				0
		1039 1040	*	SCHF	DULING FACTOR COM	MONLY REFERRED TO ENTITIES CSS			,
0	00004	1041	*						\circ
	00001	7 1042	WORP	EQU	15	PRIORITY NUMBER WHERE WORST IS DEFINED			
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0	X DEFINITIONS PHYSICAL I/O DEFINITIONS	0
	000004 1043 SPDEF EQU 4 DEFAULT SCHEDULING PRIORITY (UNITY) 1044 * * CSS ** 1045 *	0
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	X		DEFINI	TIONSPHYSICAL	DEVICE TYPES		
	1046		TTLSS	PHYSICAL DEVICE	TYPES		[21APR77]
	1047	*					[21APR77]
	1048	*					[21APR77]
	1049	*	PHYSIC	AL DEVICE TYPES ((THE VALUES IN USPTYPE)		[21APR77]
	1050	*					[21APR77]
	1051		HEAD	U			[21APR77]
	1052	- 4 - 5	- 544				[21APR77]
	000001 1053	D170	EQU	1	DSS170(2314) AND DSS180		[21APR77]
	000002 1054	M201	EQU	2	MDU201 DRUM		[21APR77]
	000003 1055	D167	EQU	3	DSS167 DISK		[21APR77]
	000004 1056		EQU	4 r	SPARE		[21APR77]
	000005 1057	N. 1 & 1	EQU	5	SPARE		[21APR77]
	000006 1058 000007 1059	DUAL	EQU	6 7	SPLIT DEVICE (DUAL DRUMS)		[21APR77]
	000007 1059 000010 1060	T A P 7 T A P 9	EQU	γ 8	7 TRACK MAG TAPE 9 TRACK MAG TAPE		[21APR77] [21APR77]
	000010 1060	CON	E Q U E Q U	9	CONSOLE		[21APR77]
	000017 1062	RDR	EQU	10	CARD READER		[21APR77]
	000013 1063	PN10	EQU	11	100 CPM CARD PUNCH		[21APR77]
	000014 1064	P201	EQU	12	PRT201 PRINTER		[21APR77]
	000015 1065	DN30	EQU	13	DATANET 30		[21APR77]
	000016 1066	PN30	EQU	14	300 CPM CARD PUNCH		[21APR77]
	000017 1067	D191	EQU	15	DSS191 AND MSU400 DISK		[21APR77]
	000020 1068	н716	EQU	16	HISI 716		[21APR77]
	000021 1069	P301	EQU	17	PRT301 PRINTER		[21APR77]
	000022 1070	P400	EQU	18	PRT400 AND PRU1200/1600 PRINTER		[21APR77]
	000023 1071	MPC	EQU	19	MPC	•	[21APR77]
	000024 1072	M 4 5 1	EQU	20	MSU451 DISK		[21APR77]
	000025 1073	L6	EQU	21	HISI LEVEL 6 FEP		[09DEC79]
	1074						[09DEC79]
	000026 1075	PTYMX	EQU	22	MAX+1 LEGAL PHYSICAL DEVICE TYPES		[09DEC79]
	1076	*					E21APR773
	1077	*	PERIPH	ERAL ALLOCATION T	TYPES (THE VALUES IN D\$ATYPE)		[21APR77]
	1078	*					[21APR77]
	1079		HEAD	D			[21APR77]
	1080			_			[21APR77]
	000001 1081	M201	EQU	1	MDU201 DRUM		[21APR77]
	000002 1082	D170F	EQU	2	DSS170(2314) AND DSS180 FILE TRACKS		[21APR77]
	000003 1083	D170C	EQU	5	DSS170(2314) AND DSS180 CATALOG TRACKS		[21APR77]
	000004 1084	D167	EQU	4 5	DSS167 DISK		[21APR77]
	000005 1035	DUAL	EQU) 4	SPARE		[21APR77]
	000006 1086	DUAL 0170	EQU	7	SPLIT DEVICE (DUAL DRUMS)		[21APR77]
	000007 1087 000010 1088	D170 D191	EQU	(Q	DSS170(2314) AND DSS180 ENTIRE PACK. DSS191 AND MSU400 DISK, ENTIRE PACK		[21APR77]
	000010 1033	D191 D191C	EQU	υ 0			[21APR77]
	000017 1089	D191C	EQU EQU	9 10	DSS191 AND MSU400 DISK, CATALOG TRACKS DSS191 AND MSU400 DISK, FILE TRACKS		[21APR77] [21APR77]
	000012 1090	D1917 M451	EQU	11	MSU451 DISK, ENTIRE PACK		[21APR77]
	000013 1091	M451C	EQU	12	MSU451 DISK, CATALOG TRACKS		[21APR77]
	000015 1093	M4516	EQU	13	MSU451 DISK, FILE TRACKS		[21APR77]
	1094	ロサノロ	£ 4 0	x 😅	HOUSE DIOUS TIEF THEOLO		[21APR77]
	000016 1095	ATYMX	EQU	14	MAX + 1 LEGAL ALLOCATION TYPE		[21APR77]
	000010 10/5	71 T T T T T T T T T T T T T T T T T T T	_ ~ 0	• •	Construction of the state of the content of the Construction of th		

on confidences.				0
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: 0	INSERT 06/18/81 06:56:28 DTSS EXECUTIVE (IN	SERT SEGMENT) DTSS TRADE SECRET	PAGE 33	0
	D GENERAL PU	JRPOSE MACRO DEFINITIONS		<u>.</u>
0	1096 TTLS GE 1097 *	ENERAL PURPOSE MACRO DEFINITIONS		0
0	1098 * 1099 * MACRO TO C	CALL ALLOCATION ROUTINE TO ALLOCATE N WORDS OF A GIVEN PREF.		0
0	1101 * IS OK RETU 1102 * IF ARGUMEN	T POINTING TO A CONTROL LIST ELEMENT, ARGUMENT #1 IS N, #2 JRN, #3 IS ERROR RETURN FOR OUT OF STORAGE, #4 IS PREFERENCE. NT #5 IS "GET" THEN THE MACRO WILL GENERATE A GET OF SARY CONTROL LIST ELEMENT.		
0	1104 * 1105 ALC MACRO Nø	OK,NOK,PREF,(GET)		0
	1107 GETD 8 1103 LDA #1	GET A CONTROL LIST ELEMENT FOR ALLOCATION GET LENGTH TO ALLOCATE		0
0	1110 LDA #2 1111 ADA #3	SNDA,T SAVE IN LIST ELEMENT POU OK RETURN SOL ERROR RETURN		0
0	1113 LDA #4 1114 STA KS	STYPE,T SAVE FOR ALLOCATION		0
0	1115 TRA K\$ 1116 ENDM AL 1117 *	SALC ALLOCATE A BLOCK C	[09DEC79]	Ö
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		D			LIST E	LEMENT MACRO DE	FINITIONS			Ċ
			1118		TTLS	LIST ELEMENT	MACRO DEFINITIONS			Ó
0			1119 1120 1121 1122	* * * PROTO	MACRO	POINTER	COPY PROTOTYPE L	IST ELEMENT		0
0			1123 1124 1125	1 4070	EAX TSXO ENDM	X • # 1 E\$PROTO PROTO	POINT TO PROTOTY CALL SUBROUTINE	PE		0
0			1126 1127 1128	* *						0
0			1129 1130 1131	INVERT	MACRO TSXO ENDM	E\$ INVT INVERT	INVERT TOP TWO E CALL SUBROUTINE	LEMENTS OF LIST		0
0			1131		2,40,1	1,446.01				O
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		D			MULTI-	PROCESSOR CODE GENERATION M	ACROS		
\circ			1132		TTLS	MULTI-PROCESSOR CODE GENE	RATION MACROS		0
0			1133 1134	*	Α	P R O C			0
			1135 1136	*	THIS M	ACRO REPEATS THE MACRO ARGU	MENT ONCE FOR EACH		
0			1137 1138	*		SOR NUMBER IN THE SYSTEM, L PROCESSORS.	P TO A MAXIMUM OF		0
			1139 1140	* APROC	MACRO	MACRO-NAME			
0			1141	ATROC	PMC	SAVE,OFF			0
			1142		CRSM	SAVE, OFF	2.3		
\circ			1143 1144		PROS CRSM	(0,1,2,3,4,5,6,7),(#1),(# RESTORE	2)		\circ
			1145		ENDM	APROC			
0			1146	*					0
			1147	*	S	P R O C			
_			1148 1149	*	тите м	ACRO REPEATS THE MACRO ARGU	IMENT ONCE FOR EACH NON-		
\circ			1150	*		L PROCESSOR IN THE SYSTEM.			0
			1151	*		HT PROCESSORS.			
0			1152	*					0
<u> </u>			1153	SPROC	MACRO	MACRO-NAME			<u> </u>
_			1154 1155		PMC	SAVE,OFF SAVE,OFF			
\circ			1156		C R S M P R O S	(1,2,3,4,5,6,7),(#1),(#2)			0
		•	1157		CRSM	RESTORE			
0			1158		ENDM	SPROC			\circ
			1159	*					<u> </u>
			1160	*	PROS I	S A SUBSIDIARY MACRO CALLED	BY APROC AND SPROC		_
\circ			1161	*	MACRO	LICT NAME			\circ
			1162 1163	PROS	MACRO PMC	LIST, NAME RESTORE			
0			1164		IDRP	#1			
			1165		IFL	#1,\$NPROS,4		16AUG74	•
_			1166		IFE	*#3 *,* *			_
\circ			1167 1168		#2 INE	#1 *#3*,**			\circ
			1169		#2	#3#1			
0			1170		IDRP				\cap
			1171		ENDM	PROS	•		<u>e</u>
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	D				UPT CONTROL MAC					0
		1172 1173 1174	*	TTLS	INTERRUPT CON	TROL MACROS				O
		1174 1175 1176	* * *		MACROS TO MAS	K INTERRUPTS ON/OF	F -			0
0		1177 1178	* Dabl	MACRO						0
0		1179 1180 1181 1182		R M C M A N A Q S M C M E N D M	X \$ M E M X \$ D A B L X \$ M E M D A B L	READ MASK FROM DISABLE SPECTIN SET NEW MASK	MEMORY CONTROLLER JIT-TERM-MARK		[09DEC79]	0
0		1183 1184	* ENABL	MACRO						0
0		1185 1186 1187 1188		R M C M O R A Q S M C M E N D M	XSMEM XSENABL XSMEM ENABL	READ MEMORY CON ENABLE SPEC—TER SET THE MASK			[09DEC79]	Ó
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0	INSERT	06/18/81	06:56:28	DTSS	EXECUTIVE	(INSERT	SEGMENT)		DTSS TRADE SECRET	PAGE 37	0
		D			BUG	DESTROY	REGISTER	S			
0			4400		TTLO	D.1.0	BE B T B A U	N C T C T C D C			0
1			1189 1190	*	TTLS	BOG	DESTROY	(EGISTERS			
\bigcirc			1191	*							\cap
\mathcal{O}			1192	*							
			1193 1194	*					T WHICH USES IT. FOR		
\circ			1194	*					D TO A DIFFERENT VALUE FOR ALUES FOR THE SEGMENTS.		0
			1196	*					NT BUGS ITS REGISTERS.		
\circ			1197	*			7.00000	,			0
~			1198 1199	*			- 750000(- 750100(•
\sim			1200	*			- 750200G				
\cup			1201	*					T IT TO 750300(8)		\mathcal{O}
			1202	*							
\bigcirc			1203 1204	*							\circ
			1204	*	THIS M	ACRO GENI	ERATES CO	DE THAT LOADS A D	ISTINCTIVE PATTERN		
\bigcirc			1206	*					MENT LIST. THIS IS		\bigcirc
\mathcal{O}			1207	*					TALLY CORRECT, SO		
			1208	*	THAT E	RRORS MA	Y BE DETE	CTED AT AN EARLY	PHASE OF THE DEBUGGING.		_
\circ			1209 1210	*	THE US	AGE OF TH	HIS MACRO	IS BUG (A,Q,O,T,	X3)		
			1211	*				THE LIST ARE THOS			
0			1212	*	DESTRO	YED. THI	E REGISTE	RS MENTIONED ARE	ASSUMED TO BE INDEX		\circ
~			1213	*	REGISTI	ERS UNLES	SS A OR Q	OR AQ			,)
\sim			1214 1215	*							\sim
\circ			1216	BUG	MACRO						$\mathcal{C}_{\mathcal{C}}$
			1217		IFE	BUGBUG	0.1				
\circ			1218		YOU	MUST	0 5		R THIS SEGMENT. SEE BUG MA	CRO IN INSERT FILE	С
			1219 1220		I N E P M C	SAVE OF		SKIP IF NOT DEBU	GGING		
0			1221		IDRP	#1					\sim
			1222		BUGA	#1		BUG ALL REGISTER	S FROM CALL		<u> </u>
_			1223 1224		I DRP PMC	DECTAR	=				,
\circ			1225		EN D M	RESTORI BUG					C
			1226	BUGA	MACRO			SUBSIDIARY MACRO	TO BUG ONLY ONE REGISTER		
0			1227		CRSM	SAVE, O		CREATE SYMBOLS			C
			1228 1229		PMC	ON		LIST OUR USES	OCK THE HE ADE DUCCTNO D. A		
$\overline{}$			1229		I F E L D A	BUGBUG		MOLE FULLUWING BL	OCK IFF WE ARE BUGGING R-A		
0			1231		ORA	BUGBUG					
			1232		IFE			THE REST OF THIS			
0			1233	A	MARK						C
			1234 1235	*	IFE	1#11.10	0 .0 ASSF	MBLE NEXT BLOCK I	FF BUGGING R-0		
\cap			1236		LDQ	BUGBUG					
\mathcal{O}			1237		ORQ	BUGBUG	, DL				<u> </u>
_			1238	0	IFE	0,1,E0	M SKIP TI	L END OF MACRO			•
\circ			1239 1240	Q *	MARK						C
			, , , ,								
\bigcirc											`

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0							0
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0	D	1241	IFE		S XT BLOCK IFF BUGGING R-AQ		0
		1242 1243 1244	L D A O R A L D Q	BUGBUG, DU BUGBUG, DL BUGBUG, DU			0
0		1245 1246 1247	ORQ IFE AQ MARK	BUGBUG, DL 0,1,EOM SKIP TI	LL END		0
0		1248 1249 1250	* LDX IFE	#1,BUGBUG,DU 0,1,EOM			[04JUL77]
0		1251 1252 1253	EOM MARK PMC BUGBUG SET	OF F BUGBUG +1	KEEP THE LISTING NEET INCREMENT BUGGING CONSTANT		0
0		1254 1255	C R S M E N D M	RESTORE BUGA			O
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0		D		CKPT	· CHECKPOINT MACR	0				
		12 12	57 *	TTLS	CKPT CHECKPO	INT MACRO				
0		12 12 12	59 *	MACRO		FOLLOWED BY A NUMB	RED EDOM 0-35			0
0		12 12	6 1 62	I N E X E D	SDEBUG,0,1 SCKPT	SKIP IF NOT DEBUGG	GING			0
0		12	0.5	ENDM	CKPT					0
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\bigcirc		D			QUEUING	MACROS				
0			1264 1265	*	TTLS	QUEUING MACROS				O
0			1266 1267 1268	* *						0
0			1269 1270	* *		Q U E U E				0
0			1271 1272 1273 1274	*	NAME TO	BE ASSIGNED TO	IS QUEUE, QDV, PRIOR WHER THE QUEUE, AND PRIOR IS SOLVED BE ASSIGNED, SET TO	AN OPTIONAL		0
0			1275 1276	QUEUE	MACRO CRSM	SAVE.OFF	1000005 2 1 5 05 1 0 0 5 0 5			0
0			1277 1278 1279 1280	QSET	SET INE SET ZERO	2 #2,"" #2 QSET,0	ASSUME 2-LEVEL QUEUE UNLESS SPECIFIED OTHERW WHICH CASE USE THE SPEC INITIALLY NOT BUSY			Ó
0			1231 1282 1283	#1	ARG ARG	0 0 QSET,1,2	LAST ELEMENT POINTER PRIORITY 1 INDEX			0
0			1284 1285 1286		INE DUP ARG	1,QSET-1 *-1,N*	CAN T DUP O TIMES DEVELOP REST OF QUEUE INDIRECTION			0
0			1287 1288		C R S M E N D M	RESTORE QUEUE				0
0			1289 1290 1291				THE LIST ELEMENT ON TH			0
0			1292 1293 1294	*	IS PTQ		E SPECIFIED INDEX REGISTS R IS THE REGISTER AND QD' VECTOR.			0
0			1295 1296 1297		MACRO LDX		POINT TO QUEUE LOAD POINTER TO LIST EL			0
0			1298		ENDM	PTQ	ZERO INDICATOR SET IF E	MPTY QUEUE		
0										0
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O IMSERT O6/18/81 O6/15/25 DISS EXECUTIVE (IMSERT SEGMENT) DISS TRABE SECRET PAGE 41 O								0
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C	0	INSEKI U6/18/81	00:56:28	DISS EXECUTI	VE (INSERT SEGMENT	DISS TRADE SECRET	PAGE 41	0
1301	_	D		QUEL	JING MACROS			_
1307	\circ		1299	EJEC	т			O
1307 E N 0 1308 C 1309 E N 0 1301 E N 0 1301 E N 0 1301 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0 E N 0								
1303				*	F N	a		. 0
1305 LEVEL ITS USAGE IS END RRADOUAPRIOR WHERE XR IS AN INDEX 1336 RICEISTR WHICH POINTS TO THE LIST THE PRIVATE ASSUMENCE AND PRIOR IS THE OPTIONAL PRIORITY O				*	L .,			
1906 Control 1907 Control 1907								0
1507 15 THE QUEUE-NAME, AND PRIOR IS THE OPTIONAL PRIORITY 1308 0 14 15 15 15 15 15 15 15								·
1309			1307	* IS 1	HE QUEUE-NAME, AND	PRIOR IS THE OPTIONAL PRIORITY		\circ
O					THE ENTRY (2 ASSUME	D IF NOT SPECIFIED)		0
1311					30	ENQUEUE		
1315			1311	CRSM	1 SAVE, OFF			O
1314								_
1315								0
1317		,	1315					
1518	0					QUEUE WITH LOW PRIORITY		0
O						QUEUE WITH HIGH PRIORITY		
1321			1319	IFE	0,1,7	SKIP REST OF MACRO		$\hat{\Box}$
O 1322 QSET SET 2 ASSUME NO PRIORITY SPECIFIED 1324 QSET SET #3' IF NOT BLANK 1324 QSET SET #3' SET IT TO SPECIFIED LEVEL 1325 EAX Z-ASET PRIORITY 1326 ISSUM RESTORE 1327 CRSM RESTORE 1330 * O 1331 * MT Q QUEUES THE TASK POINTED TO BY REGISTER T ON THE 1330 * MASTER TASK QUEUE. IT'S FUNCTION IS IDENTICAL TO THE 1331 * MASTER TASK QUEUE. IT'S FUNCTION IS IDENTICAL TO THE 1335 * EXPANSION OF 'ENQ T-BMTASK'. BUT REQUIRES LESS CODE 1337 * O 1337 * O 1337 O 133						QUEUE-DESCRIPTOR VECTER		Û
1325						ASSUME NO PRIORITY SPECIFIED		\circ
O 1325			1323	INE		IF NOT BLANK		O
1326								
1328								O
1329 * 1330 * 1331 *								
O 1330 * 1331 * M T Q 1331 * MTQ QUEUES THE TASK POINTED TO BY REGISTER T ON THE O 1335 * MASTER TASK QUEUE. IT'S FUNCTION IS IDENTICAL TO THE 1336 * EXPANSION OF 'ENQ T. SMTASK', BUT REQUIRES LESS CODE 1337 * O 1338 MTQ MACRO QUEUE A MASTER TASK 1339 TSXO Q\$MTQ GO QUEUE THE TASK O 1340 ENDM MTQ 1341 * O 1341 * O 1342 * MTQ A QUEUES THE TASK BLOCK POINTED TO BY REGISTER T 1345 * WITH THE RESTART LOCATION IN AL ON THE MASTER TASK QUEUE	\circ				1 ENQ			0
1332 * MTQ QUEUES THE TASK POINTED TO BY REGISTER T ON THE 1333 * MASTER TASK QUEUE. IT'S FUNCTION IS IDENTICAL TO THE 1335 * EXPANSION OF 'ENQ T, \$MTASK', BUT REQUIRES LESS CODE 1336 * 1337 * 1338 MTQ MACRO QUEUE A MASTER TASK 1339 TSXO Q\$MTQ GO QUEUE THE TASK 1340 ENDM MTQ 1341 * MTQ A 1342 * MTQ A 1344 * MTQA QUEUES THE TASK BLOCK POINTED TO BY REGISTER T 1345 * WITH THE RESTART LOCATION IN AL ON THE MASTER TASK QUEUE	ı		1330	*				
1333 * MTQ QUEUES THE TASK POINTED TO BY REGISTER T ON THE 1334 * MASTER TASK QUEUE. IT'S FUNCTION IS IDENTICAL TO THE 1335 * EXPANSION OF 'ENQ T,*MTASK', BUT REQUIRES LESS CODE 1336 * 1337 * QUEUE A MASTER TASK 1339 TSXO Q\$MTQ GO QUEUE THE TASK 1340 ENDM MTQ 1341 * 1342 * MTQ A 1342 * MTQ QUEUES THE TASK BLOCK POINTED TO BY REGISTER T 1344 * MTQA QUEUES THE TASK BLOCK POINTED TO BY REGISTER T 1345 * WITH THE RESTART LOCATION IN AL ON THE MASTER TASK QUEUE	\circ				мт	Q		0
MASTER TASK QUEUE. IT'S FUNCTION IS IDENTICAL TO THE 1335 * EXPANSION OF 'ENQ T, \$MTASK', BUT REQUIRES LESS CODE 1336 * 1337 * 1338 MTQ MACRO QUEUE A MASTER TASK 1339 TSXO Q\$MTQ GO QUEUE THE TASK 1340 ENDM MTQ 1341 * 1342 * MTQA QUEUES THE TASK BLOCK POINTED TO BY REGISTER T 1343 * MTQA QUEUES THE TASK BLOCK POINTED TO BY REGISTER T 1345 * WITH THE RESTART LOCATION IN AL ON THE MASTER TASK QUEUE					QUEUES THE TASK PO	INTED TO BY REGISTER T ON THE		
Table to the tend 1, \$ mitask ? But requires less code 1336 * 1337 * 1338 MTQ MACRO QUEUE A MASTER TASK 1339 TSXO Q\$ mtQ GO QUEUE THE TASK 1340 ENDM MTQ 1341 * 1342 * MTQA 1343 * 1344 * MTQA QUEUES THE TASK BLOCK POINTED TO BY REGISTER T 1345 * WITH THE RESTART LOCATION IN AL ON THE MASTER TASK QUEUE	0		1334	* MAS1	ER TASK QUEUE. IT	S FUNCTION IS IDENTICAL TO THE		\bigcirc
O 1337 * 1338 MTQ MACRO QUEUE A MASTER TASK 1339 TSXO Q\$MTQ GO QUEUE THE TASK O 1340 ENDM MTQ O 1341 * 1342 * MTQ A O 1343 * 1344 * MTQA QUEUES THE TASK BLOCK POINTED TO BY REGISTER T O 1345 * WITH THE RESTART LOCATION IN AL ON THE MASTER TASK QUEUE					ANSION OF 'ENQ TASM	TASK. BUT REQUIRES LESS CODE		~
1333 MIQ MACRO QUEUE A MASTER TASK 1339 TSXO Q\$MTQ GO QUEUE THE TASK 1340 ENDM MTQ 1341 * 1342 * MTQ A 1343 * 1344 * MTQA QUEUES THE TASK BLOCK POINTED TO BY REGISTER T 1345 * WITH THE RESTART LOCATION IN AL ON THE MASTER TASK QUEUE								\cap
O 1340 ENDM MTQ 1341 * 1342 * MTQA 1343 * 1344 * MTQA QUEUES THE TASK BLOCK POINTED TO BY REGISTER T 1345 * WITH THE RESTART LOCATION IN AL ON THE MASTER TASK QUEUE								\cup
1341 * 1342 * MTQA 1343 * 1344 * MTQA QUEUES THE TASK BLOCK POINTED TO BY REGISTER T 1345 * WITH THE RESTART LOCATION IN AL ON THE MASTER TASK QUEUE						GO QUEUE THE TASK		
1343 * 1344 * MTQA QUEUES THE TASK BLOCK POINTED TO BY REGISTER T 1345 * WITH THE RESTART LOCATION IN AL ON THE MASTER TASK QUEUE					, 111, 3			\circ
1344 * MTQA QUEUES THE TASK BLOCK POINTED TO BY REGISTER T 1345 * WITH THE RESTART LOCATION IN AL ON THE MASTER TASK QUEUE						M T Q A		
1345 * WITH THE RESTART LOCATION IN AL ON THE MASTER TASK QUEUE					QUEUES THE TASK R	LOCK POINTED TO BY REGISTER T		0
1346 *			1345					
$\setminus \setminus \setminus$	0		1346	* MTOA MACE	20			\circ
1347 MTQA MACRO 1348 TSXO Q\$MTQA CALL SUBROUTINE TO QUEUE TASK						CALL SUBROUTINE TO QUEUE TASK		
1349 ENDM MTQA			1349	END				0
1350 *			1350	*				· .
								\cap

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		D			QUEUIN	G MACROS			
			1351 1352	*					\circ
0			1353 1354	*		D E Q			0
0			1355 1356 1357	* * *	USAGE	IS DEQ XR,QDV	ST ELEMENT FROM A QUEUE WHERE XR IS REGISTER WHICH WILL BE LOADED E TOP ELEMENT OF THE QUEUE. QDV IS THE		C
0			1358 1359 1360	* * *		NAME. THE ZERO BLOCK ON THE QU	INDICATOR IS SET ON IF THERE EUE.		\mathbb{C}
			1361 1362	DEQ	MACRO EAX	X , #2	DEQUEUE LOAD QUEUE NAME		
			1363 1364 1365		TSXO EAX ENDM	Q\$DEQ #1,0,Y DEQ	EXECUTE NECESSARY CODE LOAD REGISTER WITH LIST ELEMENT ADDRESS		Č
			1366 1367 1368	* * *				[1700 T76]	
			1369 1370	*	THE CU	RRENT STACK OF L	W MASTER TASK WITH OPTIONAL PARAMETER IST ELEMENTS WILL BE KEPT ONLY IF 'KEEP'	[170CT76] [170CT76]	C
0			1371 1372 1373	* * MTASK	IS SPE	CIFIED AS AN OPT	IONAL THIRD PARAMETER KEEP	[170CT76] [170CT76] [170CT76]	С
0			1374 1375 1376		IFE GETD IFE	'#2','',2 1,NBUG 0,1,9		[170CT76] [170CT76]	C
0			1377 1378		GETD IFE	2,NBUG !#2!,!ZER0!,2		[170CT76] [170CT76] [170CT76]	С
0			1379 1380 1381		STZ IFE IFE	1,T 0,1,5 '#2','STC1',2	PARAMETER IS ZERO	[170CT76] [170CT76] [170CT76]	С
0			1382 1383 1384		STC1 IFE LDA	1.T 0.1.2 #2	PARAMETER IS IC/IR (NON-ZERO) PARAMETER IS #2	[170CT76] [170CT76]	Ç
			1385 1386		S T A L D A	# 2 1 , T # 1 , DL	SAVE IT RESTART ADDRESS	[170CT76] [170CT76] [170CT76]	С
			1387 1388 1389		MTQA IFE LDX	'#3','KEEP',2 T,T\$LINK,T	QUEUE TASK TO START AT #1 POP BACK LIST ELEMENT	[170CT76] [170CT76] [170CT76]	
			1390 1391		I F E L D X	0,1,1 T,0,DU	SPPML	[170CT76] [170CT76]	
			1392		ENDM	MTASK		[1700 T76]	Ç
0									С
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\Box	D			LIST E	LEMENT ALLOCATIO	N MACROS				0
		1393		TTLS	LIST ELEMENT A	LLOCATION MACROS				
		1394 1395	*							\sim
O		1396	*							0
		1397	*	THE FO	LLOWING MACROS M	ANIPULATE LIST EL	_EMENTS			
0		1398.	*				TOP ELEMENT OF A LINKED			\bigcirc
		1399	*				-1 OF A LIST ELEMENT			
_		1400 1401	*	CONTAI			WD O OF THE PREVIOUS LIST	•		_
0		1401	*	ΔΙΙ Μ Δ		ENGTH OF THIS ELE SH XT AS APPROPRIA	EMENT NOT COUNTING THE LINK			0
		1403	*	nee na	CRES FOI MID FOO	m x ng mi konki				
0		1404	*	THE GE	T MACRO RETURNS	A LIST ELEMENT OF	R DIES TRYING. CALLS ARE			0
		1405	*	GET	(LEN,I) LE		FIED IN LOCATION LEN			
		1406	*	GET	AL	LENGTH RIGHT JU				
\circ		1407	*	GET	AU	LENGTH RIGHT JU				\circ
		1408 1409	*	GETD	LENGTH	EXPLICIT LENGTH	1			
		1410	*	FACH O	E THESE MACROS H	IAS AN OPTIONAL SE	ECOND PARAMETER *NBUG*		[1700 T76]	\circ
		1411	*				NOT BE BUGGED SINCE		[170CT76]	\circ
		1412	*	THE CA	LLING ROUTINE IS	ABOUT TO FILL IT	T COMPLETELY.		[170CT76]	
0		1413	*						[170CT76]	\circ
		1414	GET	MACRO	(LENGTH, I/AU/A	L) NBUG			[170CT76]	
		1415 1416		INE	'#1','AU',3 '#1','AL',1					÷
0		1417		INE LDA	#1 / AL / /					0
		1418		ALS	18					
		1419		IFE	'#2','NBUG',2				[1700 T76]	0
		1420		TSXO	ASGETNB	CALL TO ENTRY T	THAT WILL NOT BUG THE LIST ELI	EMENT	[170cT76]	\mathcal{L}
		1421		IFE	0,1,1				[1700 T76]	
		1422		TSXO	A\$GET					\circ
		1423 1424	GETD	E N D M M A C R O	GET LENGTH.NBUG				[1700 T76]	
		1425	GEID	LDA	#1,DU				[1700170]	0
0		1426		IFE	'#2','NBUG',2				[1700 T76]	\circ
		1427		TSXO	A \$ GETNB	CALL TO ENTRY 1	THAT WILL NOT BUG THE LIST ELI	EMENT	[1700 T76]	4
0		1423		IFE	0.1.1				[170cT76]	0
		1429		TSXO	A\$GET					
		1430 1431	*	ENDM	GETD					
		1431	*	THE GE	TR MACRO RETURNS	TO OK TE SHCCESS	SFUL AND TO NOT OK IF NOT.			\circ
		1433	*				IS ASSUMED FOR THAT FIELD			
		1434	*		IS AS IN GET					. 0
		1435	*						[05NOV77]	
		1436	GETB	MACRO		(U),(OK),(NOT OK)),(CALL BY GETBQ)		[05N0V77]	. .
		1437		INE	'#1','AU',3					\bigcirc
		1438 1439		I N E L D A	*#1*/ AL*/1 #1					
		1440		ALS	18					0
0		1441		TSXO	A\$BUF				[05N0V77]	Ų
		1442		INE	1#41,1*1,8	CHECK FOR CALL	FROM GETBQ		[05N0V77]	
0		1443		IFE	!#2 ','', 1				[05N0V77]	C
		1444		TRA	#3	UNAVAILABLE			[01MAY79]	
										<i>-</i>

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0		D		Ĺ	.IST EL	EMENT ALLOCATION	MACROS				C
			1445 1446	I	NE FE	'#2','',5 '#3','',1				[01MAY79] [01MAY79]	
0			1447	I	TRA INE	*+2 !#3 *, **,1	GOT IT			[01MAY79] [01MAY79]	С
0			1449 1450 1451	Т	RA RA ENDM	#3 #2 GETB	UNAVAILABLE GOT IT			[01 MA Y79] [01 MA Y79]	С
			1 4 5 2 1 4 5 3	* * T	THE GET	BQ MACRO RETURNS	TO *+1 WITH THE LIS				С
			1454	* T	HE MEM	TORY BECOMES AVAI	E THE REQUEST IS QUE LABLE.	UED AND HANDLED WHE	N		
0			1456 1457 1458	*		IS AS IN GETB	`			[05N0V77] [05N0V77]	С
0			1459	C	MACRO CRSM GETB	(LENGTH,I/AL/AU SAVE,OFF (#1),,,*	ATTEMPT TO GET A BU	IF F E R		[05N0V77] [05N0V77] [05N0V77]	C
			1461 1462	T	SXO CRSM	A\$BUFQ RESTORE		LABLE, QUEUE FOR ON	E	[05N0V77]	C
			1 4 6 3 1 4 6 4	*	NDM	GETBQ					
0			1465 1466 1467	*	THE REL 1ACRO	. MACRO RELEASES	THE BLOCK POINTED TO	BY T AND POPS T.			С
0			1468 1469	Т	SXO	A\$REL REL					C
			1470 1471			PINK MACRO SHRINK	S THE BLOCK POINTED	TO BY XR TO THE			C
_			1472 1473	*		SPECIFIED	N				-
0			1474 1475 1476		AX NE	(LENGTH,I/AU/AL Y,0,#2 '#1','AU',3	POINTER TO LIST ELE	MENT			С
0			1477 1478	I	NE DA	'#1','AL',1 #1					C
			1479 1480	Т	SXO	18 A&SHRI					C
			1481	E	ENDM	SHRINK					
0											C
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<i>,</i>	D			LIST EL	EMENT ALLOCATION	MACROS			
0		1482 1483	*	EJECT					0
0		1484 1485 1486	* *			S THE BLOCK POINTED BY XR TO THE LENGT	TO BY THE LINK WORD TH SPECIFIED		0
0		1487 1488 1489	EXPAND	MACRO INE INE	(LENGTH, I/AU/AL "#1", "AU", 3 "#1", "AL", 1) , X R			O
0		1490 1491		L D A A L S	#1 18				0
0		1492 1493 1494		INE EAX TSXO	'X','#2',1 X,0,#2 A\$EXP	POINTER TO POINTER	?		0
0		1495		ENDM	EXPAND				0
0									0
0									0
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	D			CONSOLE	LOGGING MACROS			
\circ		1496		TTLS	CONSOLE LOGGING	MACROS		0
		1497 1498	*					
\circ		1499 1500	*			OTH THE CONSOLE AND THE LOG FILE. CALL IT ACTERS OF TEXT AND UP TO FOUR ARGS TO BE		O
0		1501	*			LOG ROUTINE WILL APPEND THE TIME TO THE END.		\circ
Ŭ		1502 1503	* L O G	MACRO	(TEXT),WORD1,	WORD4)
0		1504		CRSM	SAVE, OFF			\circ
		1505 1506		STZ TSX	I\$FLOG 0,I\$LOG	DON'T INHIBIT DEVICE OUTPUT		,
_		1507		BCI	2,#1	CAN BE CALLED FROM THE OUTSIDE WORLD TEXT ARGUMENT	E08AUG7	77 ^
\circ		1508		INE	'A#2','A'	ANY ARGUMENT HERE?	2004001	0
		1509		ARG	# 2	YES, POINT TO IT		
\bigcirc		1510		INE	'A#3','A'	SIMILARLY FOR THE REST		\circ
		1511		ARG	#3			•
_		1512 1513		INE ARG	* A # 4 * , * A * # 4			~~
\circ		1514		INE	1#51,11			O.
		1515		ARG	#5			
\circ		1516		CRSM	RESTORE			0
_		1517		ENDM	LOG			_
\sim		1518 1519	* *	SAME AS	S ABOVE BUT NO LO	OGGING TO CONSOLE		\sim
\circ		1520	*	0,1,1,E	70042 001 40 20	7561766 10 6076566		0
		1521	LOGF	MACRO				
0		1522		CRSM	SAVE,OFF			
		1523 1524		STZ STC2	I\$FLOG I\$FLOG		£22JUN7 [22JUN7	
\bigcirc		1525			I\$LOG		L 2 2 J UN 7	0,1
\circ		1526		BCI	2 , # 1			O
		1527		INE	1#21,11			
\circ		1528 1529		ARG INE	#2 !#3 !,!!			\circ
		1530		ARG	#3			•
0		1531		INE	1#41,11			\cap
$\overline{}$		1532		ARG	#4			
_		1533		INE	1#5 4, 11			_
\circ		1534 1535		ARG CRSM	#5 RESTORE			\circ
		1536		ENDM	LOGF			
0		1537	*					0
_		1538	ΛLARM	MACRO	CAUE OFF	RING CONSOLE ALARM AFTER LOG		_
		1539 1540		INHIB NOP	SAVE, OFF 91356, DU	UNINHIBIT SIGNAL ALARM WANTED		$\overline{}$
0		1541		INHIB	RESTORE	RESTORE INHIBIT		\circ
		1542		ENDM	ALARM			
0								0
0								\cap
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, 0	D			CONSOL	E LOGGING MACROS				0
Ö		1543 1544 1545 1546	*	EJECT	MACRO			[27 [27	2JUN76] 2JUN76] C37NUL2 C37NUL2
		1547 1548 1549	*		RINTS A MESSAGE ICATION WITH THE	ON THE DEVICE ASSIGNOPERATOR.	SNED FOR	[2; [2;	E 670UCS E 670UCS E 670UCS
0		1550 1551 1552	*	ORDERS	BEGIN WITH VERB	S		[27 [27	2JUN76] 2JUN76] 2JUN76]
0		1553 1554 1555	*	N	OT TO BE CALLED	FROM I/O INITIATION	N	[2]	2JUN76] 2JUN76] 2JUN76]
0		1556 1557 1558	ORDER	MACRO IFE ARG	N, (TEXTSTRING) #1,0,1 ERROR	IN ORDER MACRO		[27 [27	[67NULS C67NULS C67NULS
O		1559 1560 1561 1562		TSX TRA BCI ENDM	<pre>0.I\$ORDER *+1+#1 #1.#2????? ORDER</pre>	GOTO SUBROUTINE TRANSFER AROUND T	TEXT	[22	2JUN76] 2JUN76] 2JUN76]
		1302		ENDI	ONDER			LZA	2JUN76]
									0
0									O
0									0
		•							0
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		D			COPY M					
1			1563 1564 1565	*	TTLS	COPY MACRO				
			1566 1567	* *						O
0			1568 1569 1570	COPY	MACRO IFE GETD	'A#3','A',2	S TO TRANSFER, RESTART ADDRESS, EWORKING BLOCK]PAGES		0
0			1571 1572		I F E STX	C\$LISLN 1,2,2 T,T\$LINK+#3	GET A WORKING BLOCK LINK USER WORK AREA PROPPERLY			0
0			1573 1574 1575		E A X L C A S T A	T,#3 #1 C\$STAT2,T	GET MINUS NUMBER OF WORDS TO TRANSFER			0
			1576 1577		LDA TRA	#2.DL C\$COPY	STORE IN LIST ELEMENT GET RESTART LOCATION ON COMPLETION OF COPY AND COPY			· · ·
			1578		ENDM	COPY				0
						•				O _y
0										0
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	D COPY CONTROL LIST ELEMENT DEFINITION	Ó
0	1579 TTLS COPY CONTROL LIST ELEMENT DEFINITION 1580 *	
0	1581 * 1582 *	0
0	1583 * 1584 HEAD C FOR COPY 1585	0
0	000001 1536 STAT2 EQU 1 000002 1587 TEMPN EQU 2	0
	000003 1588 OLDN EQU 3 000004 1589 F2DA EQU 4	Ü
0	000005 1590 BUFPT EQU 5 000006 1591 STAT1 EQU 6 000007 1592 IODA EQU 7	0
0	000010 1593 SKIP EQU 8 000011 1594 CPYN EQU 9	0
0	000012 1595 RX EQU 10 000013 1596 RY EQU 11 000014 1597 RZ EQU 12	Ö
0	000015 1598 XFER EQU 13 000016 1599 COM EQU 14 000017 1600 OFST1 EQU 15	0
0	000020 1601 URET EQU 16 000021 1602 RRET EQU 17 000022 1603 LISLN EQU 18 LENGTH OF LIST ELEMENT	0
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0	INSERT 06/18/81 0	6:56:28 DT	SS EXECUTIVE	(INSERT SEGMENT)	DTSS TRADE SECRET PAGE 5	0	0
-	С		CATALOG	CONTROL LIST ELE	EMENT DEFINITIONS		
\circ		1604	TTLS	CATALOG CONTROL	LIST ELEMENT DEFINITIONS	[01MAY79]	\circ
		1605 * 1606 *					_
		1607 *			JLATED BY THE FOLLOWING MACROS AND SUBROUTINES.		\circ
		1608 * 1609 *			THE CATALOG ROUTINES IN THE NEXT SECTION TO QUEUE PERFORM CATALOG IO.		
0		1610 *	WITH TH	HE EXCEPTION OF TH	HE MACROS WSC, DUSE, ATACH, AND DTACH		\circ
		1611 * 1612 *			ARE CONTROLLED BY A LIST ELEMENT POINTED TO S OF THIS LIST ELEMENT ARE AS FOLLOWS:		
		1613 *					Ų
_		1614 1615	HEAD	С	WORD O CONTAINS Q\$LINK / Q\$RUN	[01MAY79]	
0	00000		A EQU	1	DEVICE ADDRESS OF CATALOG HEADER		0
	00000			2	NAME OF FILE BEING SEARCHED FOR (TWO WORDS)		
0	000004		ORD EQU	4	PASSWORD OF FILE (TWO WORDS)		Ċ
	00000			6	USED FOR SAVING REGISTERS J, P, S, O (TWO WORDS)		\circ
_	000010 000010			8	RETURN FROM CATALOG SUBROUTINE (UPPER) POINTER TO C&USE ENTRY (LOWER)		
	00001			o 9	USER PERMISSIONS FOR PROTECTION CHECKS (UPPER)		\circ
	00001			9	FLAGS CONTROLLING OPERATION (LOWER)		4
0	000017	2 1624 CA		1 0	ACCESS WORD		\cap
			TES EQU	11	CODED DLU AND DLM FOR INSC		\circ
	000014		AGE EQU	12	USAGE COUNTER FOR INSC	[01MAY79]	
0	00001	5 1627 AQ 5 1628 AQ		13 14	USER'S REG A FOR SLAVE TRAP USER'S REG Q FOR SLAVE TRAPS	[01MAY79]	\circ
			SPT EQU	15	POINTER TO PASSWORD LIST (UPPER)	EO1MAY79.3 EO1MAY79.3	
	000017		SLE EQU	15	POINTER TO PASSWORD LIST ELEMENT IFF SEPARATE (LOWER)	E09DEC793	\circ
	00002	0 1631 PW	FLG EQU	16	BIT CODED WORD TELLING WHICH LEVELS HAVE PWS	E01MAY793	\circ
	00005		MND EQU	17	POINTER TO WORD BEYOND LAST WORD OF NAME IN TREE (UPPER		•
\circ			MPT EQU	NAMND	POINTER TO STARING (OR CURRENT IF IN CATS) NAME (LOWER)		\circ
			ITS EQU ENO EQU	18 CBITS	BITS FOR CCE (UPPER) MME NUMBER FOR SLAVE TRAPS (UPPER)	[01MAY79] [01MAY79]	
0		2 1636 TA			TERMBITS OF SLAVE TRAPS (UPPER)	[01MAY79]	0
	00002		LEN EQU		LENGTH OF LIST ELEMENT HEAD	[09DEC79]	\circ
		1638 *				[09DEC79]	
0		1639	UPPER		NAMND, CBITS, MMENO	[09DEC79]	0
		1640 1641 *	LOWER	USEP, FLAG, PASLE,	MAMPIPIACC	[09DEC79]	
\cap		1642 *	BIT DEF	INITIONS FOR CSFL	_ A G		\cap
		1643 *					Ņ
	00000			1	USER HAS SUPPLIED A PASSWORD		
0	00000			2	AN FCB EXISTS BEHIND THE CONTROLLING LIST ELEMENT		\bigcirc
	000004 000010		N BOOL OTA BOOL	4 10	USER HAS OWNER PERMISSION ON THE CATALOG QUOTA CHECKS SHOULD BE PERFORMED ON THE FILE		
\sim	000070		ATE BOOL	20	DO NOT CHECKS SHOULD BE PERFORMED ON THE FILE		$\overline{}$
0	000040		TCH BOOL	40	GFCBC SHOULD NOT GET A C\$USE LIST ENTRY		Ŷ
	000100	1650 CL		100	DO CLIMBING ACCESS FOR CATL AND CATS		
0	000200			200	B\$CLI NEEDED ON DESTINATION FILE OF CATL		\bigcirc
	000400		MSK BOOL	400	FLAGS AN 'OLD' MME WHICH DOES NOT USE A TRAP MASK	[01MAY79]	~
	020000	1653 Э 1654 не	LD BOOL	20000	B\$AP, B\$RD, B\$WT FLAG NEEDED ACCESSES ON CATALOG FILE IS HELD NON-DEALOCATABLE	[01MAY79] [01MAY79]	$\overline{}$
0	020000	1655 *			THE TO HELD HOW DENEUGRINDER	LO COMETZA	\bigcup
. ,							

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. 0	INSERT	06/18/	81 06:	:56:28	DTSS E	XECUTIVE	(INSERT SEGMENT)			DTS	S TRADE SECR	ЕТ	PAGE	51	0
~		С				CATALO	G CONTROL LIST EL	LEMENT	DEFINI	TIONS						
				1656 1657	* *	BIT DE	FINITIONS FOR C\$0	CBITS								0
0			000001 000002 000004	1658 1659	R N A M R P W D R A C C	B00L B00L B00L	1 2 4	USEI		TO R	EPASSW	FILE JORD FILE ACCESSES				0
0			000010		RDAT	BOOL	10	USEF	R WISHES	то с	HANGE	DLU/DLM				0
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_		С			CATALO	S SUBROUTINES -	- GENERAL MACROS				
			1662 1663	*	TTLS	CATALOG SUBRO	UTINES GENERAL M	ACROS			O
0			1664 1665	* *	GENERAL	_ MACROS					
			1666 1667	*							\circ
			1668 1669	*	STATE	ECTOR. ARGUME	NT #1 IS THE INDEX	FILE CONTROL BLOCK IN THE REGISTER CONTAINING THE FI			Û
0			1670 1671 1672	* * FCBPNT	MACRO	INDEX	HE DESIRED FCB.				0
			1673 1674 1675	r C D M N I	L D X X E D E N D M	Z,\$FR,*#1 E\$FCBPT FCBPNT	GET A RELATIVE P CHECK VALIDITY A	OINTER TO THE FILE CONTROL ND MAKE ABSOLUTE	BLOCK		0
0			1676 1677 1678	* * *			ND THE CORRESPONDIN AND RETURNS IT IN	G SUBROUTINE FINDS A NEW REGISTER 'X'.		[170CT76] [170CT76] [170CT76]	Ö
0			1679 1680	* GFR	MACRO					[170CT76] [170CT76]	0
0			1681 1682		T S X O E N D M	\$ G F R G F R	CALL THE APPROPR	IATE SUBROUTINE		[170CT76] [170CT76]	0
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0	INSERT	06/18/81	06:56:28	DTSS EX	ECUTIVE	(INSERT SEGMENT)	DTSS	TRADE SECRET	PAGE S	53	0
_		С			QLOCK	AND QNLOCK MACROS					
0			1683		TTLS	QLOCK AND QNLOC	K MACROS				0
I			1684	*						[170CT76]	
0			1685	*	MULTIP	ROCESSING QUEUE L	OCK AND UNLOCK MACROS			[170CT76] [170CT76]	\circ
			1686 1687	* QLOCK	MACRO					[170C176]	
			1683	# E O O N	TSXO	X\$QLOCK	LOWER THE SEMAPHORE			[170CT76]	0
			1689		ENDM	QLOCK				[170CT76]	
			1690 1691	*	MACDO					[170CT76]	_
\circ			1691 1692	QNLOCK	M A C R O X E D	XSQNLCK	RAISE THE SEMAPHORE			[170CT76] [170CT76]	\circ
			1693		ENDM	QNLOCK	NAISE THE SEMANTORE			[1700176]	
			1694	*		. •				• • •	0
0			1695	*							
			1696	*			ES A SCRATCH CATALOG HEA				*.
0			1697 1698	*			NTING TO A LIST ELEMENT R. THE PREFERENCE DESIR				\circ
			1699	*			\$CDA OF THE LIST ELEMENT.				
			1700	*			ITAIN THE DEVICE ADDRESS				(
			1701	*	HEADER	•					\circ
			1702	*			LOCATION FOR ERROR RETU				
0			1703 1704	*			TER), #2 IS A POINTER TO	THE LENGTH WHICH			\circ
			1704	*	2 HOOF D	BE ALLOCATED FOR	THE CATALUG.				
			1706	*							\cap
			1707	*							\cup
			1703	WSC	MACRO		WRITE SCRATCH CATALOG				
			1709		CRSM	SAVE,ON	057 110 1 707 51 515 515	411.0047700		•	\circ
			1710 1711		GETD	8 V - T \$1 T N P - T	SET UP LIST ELEMENT FOR				
			1711		L D X A L C	X,T\$LINK,T #2,#6,#3,(C\$CDA	GET POINTER TO CAT FCB (AX) ALLOCATE STORAGE F				$\overline{}$
			1713	#3	REL	11 C F 11 O F 11 O F 1 C W C V C	RELEASE ALLOCATION CONT				\cup
			1714		LDA	B\$NSTOR, DU	GET ERROR STATUS				
			1715		TRA	#1	ALLOCATION FAILURE, NO				\circ
-			1716	#6	LDA	K\$NDA,T	DEVICE ADDRESS FOR NEW				
_			1717 1718		L D X S T A	X,T\$LINK,T C\$CDA,X	GET POINTER TO CATALOG AND STORE IN IT THE NEW				√ `\
0			1719		REL	C4C0M#A	RELEASE THE ALLOCATION				\mathcal{O}
1			1720		GETD	ISDCW+1	SET UP LIST ELEMENT FOR				
0			1721		LDA	I\$MDWR,DU	GET WRITE COMMAND				0
			1722		STA	I\$MODE,T	AND STORE IN 10 LIST EL				_
_			1723		LDX	X,T\$LINK,T	GET POINTER TO CATALOG				\sim
\circ			1724 1725		L D A S T A	C\$CDA,X I\$DAC,T	AND GET DA FOR IO OPERA AND STORE IN IO LIST EL				0
			1726		STX	X,I\$DCW,T	STORE STARTING ADDRESS				
			1727		EAQ	CSHEADL	LENGTH OF CATALOG HEADE				0
			1728		STZ	C\$CKSUM,X	INITIALIZE CHECKSUM FIE				<u> </u>
_			1729		TSX	Y.X\$CKSUM	COMPUTE HEADER CHECKSUM				_
\circ			1730 1731		L D X S T A	X,T\$LINK,T C\$CKSUM,X	POINT TO PROTOTYPE HEAD SET CHECKSUM IN HEADER	ER AGAIN			0
			1732		LDX	X,C\$HEADL+1,DU	GET NUMBER OF WORDS TO	TRANSFER			
			1733		SXL	X, I \$ D C W, T	AND STORE IN DCW				\circ
			1734		LDX0	0,00	LOAD ADDRESS EXTENSION	FOR CAT HEADER		[05N0V77]	Ÿ
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\circ		С			QLOCK	AND QNLOCK MACROS				0
			1735 1736 1737		SXLO TSXO LDA	ISADEXT,T ISIO ISQUEWD,T	LIST ELEMENTS ARE IN FIRST 256K DO 10 OPERATION		E05NOV77]
			1738 1739		ANA TZE		I/O COMPLETE, GET STATUS OF OPERATION GET RET BITS, WHICH GIVE STATUS TRANSFER IF IO OPERATION OK			0
0			1740 1741 1742	* *		ERROR IN IO OPE	RATION, SO DEALLOCATE PREVIOUSLY ALLOCATED SPAC	E		0
0			1743 1744	*	REL LDA	B\$RERR,DU	RELEASE IO LIST ELEMENT GET ERROR STATUS			0
			1745 1746 1747	#5	TRA REL CRSM	#1 RESTORE	AND GIVE ERROR RETURN IO IS OK, DONE, RELEASE IO LIST ELEMENT			0
0			1748		ENDM	WSC				0
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C	\supset		С	1749			OPERATIONS MACE				C 0.4 MA V 7.0 7	0
· ·	O			1750 1751	*	TTLS	CATALOG OPERATI				[01MAY79]	0
				1752 1753 1754	* * *	IT GETS		ZE THE CATALOG ROUT ROL LIST ELEMENT AN				
	ر			1755 1756	*	AS USUA		TATARTING WITH CAT	C MUST TERMINATE			0
)			1757 1758 1759	* * C A T C	MACRO	(NO	AR GUMENTS)				0
	\subset			1760 1761		GETD STZ	C \$ C A C C +1 Q \$ R U N , T	GET A CATALOG CON NO TASK TO DO	NTROL LIST ELEMENT			0
	\supset			1762 1763 1764	*	TSX ENDM	X,C\$CAT CATC	GO QUEUE THE OPER	RATION			0
	C			1765 1766 1767	* *			FDA SUBROUTINE TO C ENTRY WITH JUST THE	GET A FILE CONTROL E DA'S			
)			1768 1769 1770	GFDA	MACRO TSXO ENDM	(NO ARGUMENTS) C\$GFDA GFDA	USE THE SUBROUTIN	N E		[01MAY79]	0
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0		С	1771		CATALO(S OPERATIONS MACR) S	,		0
0			1772 1773 1774 1775	* *			READ IN THE FIRST SEGMENT OF A CATALOG.			\bigcirc
0			1776 1777 1778	* * *	POSSIBL BS	E STATUS RETURNS OK OPERATION	RO IS A POINTER TO THE DEVICE ADDRESS. IN C\$CSTAT ARE I SUCCESSFUL IN READING IN CATALOG			0
0			1779 1780 1781	*			ON IN THE CATALOG HAS BEEN DESTROYED			0
0			1782 1783 1784	CATH	MACRO CRSM IFE	DAPTR, 'TRAP'OR' SAVE, OFF #2, 'TRAP', 2	TRAP MEANS SET SLAVE TRAP STUFF			Ö
0			1785 1786 1787		GETD IFE GETD	C\$LELEN 0,1,1 C\$USAGE+1	GET A CONTROLLING LIST ELEMENT		[09DEC79]	0
0			1788 1789 1790		LDA STA LDA	C \$ C R E T , D L Q \$ R U N , T # 1	GET ADDRESS OF RETURN ROUTINE SAVE FOR TRANSFER ONCE HEADER IS READ IN GET DEVICE ADDRESS OF CATALOG			Ö
0			1791 1792 1793		STA IFE LDQ	C\$HDA,T #2,*TRAP*,11 S\$REG+4,S	SAVE IN CONTROL BLOCK		[29JAN77]	
0			1794 1795 1796		STQ LDQ STQ	C\$ AQ 1 , T S\$ REG+5 , S C\$ AQ 2 , T			[29JAN77] [27NAL92] [29JAN77]	0
0			1797 1798 1799		L D X A D L X M L D A	X, \$\$ I C, S X, \$B A S E -1, X	GET POINTER TO MME+1 MAKE ABSOLUTE GET MME NUMBER		[08AUG77] [08AUG77]	
0			1800 1801 1802		ANA ALS EAX	-1.DU 9 X.O.AU	ONLY SANS MME ID PUT INTO X			0
0			1803 1804 1805		STX TSX CRSM	X,C\$MMENO,T X,C\$CAT RESTORE	SAVE FOR SLAVE TRAP SET RETURN IN XR-X AND ENTER CATALOG ROUTINE			0
0			1806		ENDM	CATH				0
										0
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0	INSERT 06/1	8/81 06:56:28	DTSS EXECUTIV	E (INSERT SEGMENT)	DTSS TRADE SECRET	PAGE	57	0
0		1907		OG OPERATIONS MACROS			504447707	0
		1807 1808 1809	EJECT *				[01MAY79] [01MAY79] [01MAY79]	0
		1810 1811	* CATL		CATALOG LOOKUP ROUTINE CATL IS USED FOR 'TALLY'	OPS.	E01MAY793 E01MAY793	
0		1812 1813 1814	* CATL MACRO TSXO	CSCTENT			[01MAY79] [01MAY79] [01MAY79]	0
0		1815 1816 1817	E N D M ★ ★	CATL			[01MAY79] [01MAY79] [01MAY79]	0
0		1818 1819	TCATL MACRO TSXO	C\$TLENT			[01MAY79] [07YAM10]	0
0		1 820	ENDM	TCATL			E01MAY79J	0
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O INSERT	06/18/81	06:56:28	DTSS EXECUTIV	VE (INSERT SEGMEN	Т)	DTSS TRADE SECRET	PAGE 58	0
	С		CATA	LOG OPERATIONS MA	CROS			
0		1821 1822	* EJEC	т				0
		1823	*		TO 054050 505 500 500		•	\circ
		1824 1825		ER IN A CATALOG.	WHEN CALLING INDEX	TRY WITH A GIVEN ENTRY T POINTS TO A FILE CONTRO		
		1826 1827		K FOR THE CATALOG US RETURNS IN CSC		IS BEING SOUGHT. POSSIBL	E	0
		1828 1829	*	B\$OK ENTRY	WAS FOUND OR IN READING CATALO	0.6		
0		1830	*	B\$UERR ENTRY	WAS NOT FOUND OR CAT	TALOG HAS BEEN DAMAGED		O
		1831 1832	* *	B\$FNC FILE B	ECAME A SCRATCH FILE	E (NOT CATALOGED)		\circ
		1833 1834	* CATN MACR	O DA/NULL				
0		1835 1836	CRSM IFE		IF FIRST ARGUMENT	T IS NULL		. 0
		1837 1838	TSXO IFE		JUST CALL SUBROUT			
0		1839	CATH	#1	READ IN HEADER OF			C
		1840 1841	L D A T N Z	C	CHECK STATUS OF F BAD DON'T DO (
		1842 1843	LDA STC2	C\$HDA,T C\$CATR,T	GET DA AGAIN SET RETURN			
0		1844 1845	TRA CRSM	C \$ C A T A C	JUMP INTO CATAC			С
		1846	ENDM					
0								C
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		С			CATALO	G OPERATIONS MACR	0 S				_
\circ			1847		EJECT						0
l			1848	*							
			1849	*							0
			1850	* .				TES AN ENTRY IN THE COUSE			_
			1851 1852	*				ALOG. IT SETS THE C\$USEFL) THE C\$USE ENTRY IN C\$USE			0
			1853	*		EX REGISTER X.					0
			1854	*				ASE OF A CSUSE LIST OVERF			. •
0			1855 1856	*				ARATE RETURN TO BE TAKEN I S NOT UPDATE THE C\$USEFL F			\bigcirc
			1857	*			"*ERROR" A ZOP FAUL		LNOS.	[09DEC79]	
			1858	*		USE PRESERVES IND					0
			1859	*							~
			1860 1861	*			•				
			1862	FUSE	MACRO	<overflow>,<dup< td=""><td>PLICATE></td><td></td><td></td><td>[09DEC79]</td><td>0</td></dup<></overflow>	PLICATE>			[09DEC79]	0
			1863		IFE	"#1","*ERROR",2				[09DEC79]	
			1864		EAA	C\$FUSED	ERROR ON CSUSE LI	IST FULL		[09DEC79]	\circ
			1865 1866		I F E E A A	0,1,1 #1	RETURN ON C\$USE L	IST FIII I		[09DEC79] [09DEC79]	
			1867		IFE	"#2", ** ERROR		1101 1022		[09DEC79]	0
			1863		ORA	C\$FUSED, DL	ERROR ON DUPLICAT	TE ENTRY		[09DEC79]	
			1869 1870		IFE.	0,1,2 !#2!,!!				[09DEC79] [09DEC79]	
. 0			1871		I N E O R A	#2.DL	RETURN ON DUPLICA	ATE ENTRY		[09DEC79]	0
			1872		TSXO	C \$ F U S E	GO TO SUBROUTINE				•
			1873		ENDM	FUSE					\circ
			1874 1875	*							
			1876	^ *	D	USE IS A MACRO TO	DELETE THE ENTRY	REFERENCED BY INDEX REGIS	TER X		0
			1877	*	FROM T	HE C\$USE LIST.					
_			1878	*							_
0			1879 1880	* DUSE	MACRO						\circ
			1831	0002	TSXO	C\$DUSE	USE SUBROUTINE				
			1882		ENDM	DUSE					0
			1883	*	,						
			1884 1885	* *	I	NSC IS A MACRO TO) INSERT A NEW ENTR	RY INTO A CATALOG WHICH HA	S		C
			1886	*	BEEN R	EAD INTO CORE BY	THE CATS MACRO. C	ON CALLING THE MACRO INDEX			
			1887	*				OR THE CATALOG OPERATION.			
0			1888 1889	*				N FCB FOR THE FILE TO BE E THE NEW CATALOG ENTRY AND	NTERED.		C
			1890	^ *				TO THE CSUSE ENTRY FOR IT			
			1891	*		LE STATUS RETURNS	G (IN THE A REGISTE				\circ
			1892	*		B\$OK	SUCCESSFUL	A.T.I. E.D.			~
			1 8 9 3 1 8 9 4	*		B\$QUEX B\$NSTOR	ALOC/MAX CHECK FA	AILED ALL HEADER DA'S USED, O	R		0
0			1895	*		Sendion		IN THE CATALOG OR THE CSU			\bigcup
			1896	*		B\$UERR	BAD INFORMATION I	IN CATALOG			
0			1897 1898	* INSC	MACRO						\circ
			1070	INDC	FIACRU						•
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	С		CATALOG OPERATIONS MACR	30 S		
0	-			· 		\cap
\cup		899	TSXO C\$INSC			\bigcirc
		900	ENDM INSC			
		901 *				\circ
		902 * 903 *	BECBU 10 V WYUDU F	WHICH UPDATES INFORMATION IN THE CURRENT CATA	N OG	•
		904 *		EX T POINTS TO THE CONTROLLING LIST ELEMENT S		$\widehat{}$
		90.5 *		IS LIST ELEMENT IS LINKED IN TURN TO A FILE (\circ
		906 *		ALOG WHOSE ENTRY IS TO BE UPDATED. RECBC UPD		
		907 *	CODED DATES AND ALSO CS	\$N AND C\$CDA IF THE APPEND PERMISSION BIT IS	SET	\cap
		908 *		OCK. UPON RETURN THE C\$USE ENTRY FOR THE FIL		\bigcirc
		909 *		HE CATALOG ENTRY HAS BEEN MOVED. POSSIBLE ST	TATUS	
0		910 *	RETURNS IN CSCSTAT ARE	••••		0
		911 *	B\$OK SUCCESSE			•
_		912 * 913 *		R IN REPLACING ENTRY HAS BEEN DAMAGED		
0		914 *		TALOG IS FULL OR DA LIST OVERFLOWED		\circ
		915 *	STROUGH CONE CA			
		916 *				\sim
		917 RECBC	MACRO	REPLACE FCB MACRO		Ų
	1	918	TSXO C\$RFCBC	REPLACE FCB SUBROUTINE		
		919	ENDM RFCBC		,	
		920 ATACH	MACRO	ATTACH TO FILE		\bigcirc
		921	TSXO C\$ATTCH	USE THE SUBROUTINE		
		922	ENDM ATACH	MACDO TO CALL DOTAGE SUFFICIE		0
_		923 DTACH	MACRO	MACRO TO CALL DETACH SUBROUTINE		•
		924 925	TSXO C\$DTACH ENDM DTACH	USE DTACH SUBROUTINE		
		926 *	CNUM DIACH			
		927 *				
		928 *	THE GFCBC MACRO CO	OPIES THE CURRENT ENTRY IN THE CATALOG INTO A	\ FILE	0
		929 *		G THAT THE NECESSARY ACCESS AND CONFLICT CHEC		\circ
	1	930 *		X T POINTS TO THE CONTROLLING LIST ELEMENT.		
\cap		931 *		ONTAINS THE ACCESSES DESIRED ON THE FILE (UPF		\cap
		932 *		RED ON THE FILE (LOWER). IF ALL REQUIRED ACC		\smile
		933 *		CONTROL BLOCK FOR THE FILE WILL BE INSERTED 1		
0		934 *		BEHIND THE CONTROLLING LIST ELEMENT. AN ENT		0
		935 * 936 *		VE BEEN MADE FOR THE FILE SHOWING THE ATTACHM ILL POINT TO THIS ENTRY. POSSIBLE STATUS RET		
		937 *	IN THE A REGISTER ARE A		1 U K IV 5	
		938 *		JL A FILE CONTROL BLOCK WAS OBTAINED		O
		939 *		A REQUIRED ACCESS WAS BUSY		
0		940 *		NOLATION VIOLATION		\sim
	1	941 *		A REQUIRED ACCESS WAS NOT ALLOWED		\bigcirc
ļ.		942 *		IF CLIMB WITHOUT SEARCH		
0		943 *		LOG ALOC EXCEEDED TWICE ITS MAX AND C\$QUOTA W	VAS SET	0
		944 *	B\$NSTOR THE C\$USE	LIST IS FULL		_
_		945 *	MACDO	CET EILE CONTROL DIOCK COD CURRENT TOTAL		ر سند
\cup		946 GFCBC 947	MACRO TSXO C\$GFCB	GET FILE CONTROL BLOCK FOR CURRENT FILE TRANSFER TO SUBROUTINE		Q
		947	ENDM GFCBC	INDIGUEL TO SUDROUTINE		1
		949 *	Chon Of COC			
		950 *	•			U
	·					
\cap						

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0							0
	INSERT 06/18/81	06:56:28 DTS	SS EXECUTIVE (INSERT SEGMENT) 1	TSS TRADE SECRET	PAGE 61	
0	C	4054	CATALOG OPERATIONS MAC				0
		1951 * 1952 * 1953 *	RELC RELEASES A (AND STARTS THE NEXT CA	TALOG TASK.	BE WRITTEN OUT IF NECESSARY,	•	0
		1954 * 1955 REL 1956	.C MACRO TSXO C\$RELC	RELEASE CATALOG			
0		1957 1958 *	ENDM RELC				0
		1959 * 1960 * 1961 *	DELC DELETES THE	CURRENT ENTRY FROM THE	CURRENT CATALOG.		0
0		1962 * 1963 DEL 1964		CALL SUBROUTINE			0
0		1965	TSXO C\$DELC ENDM DELC	CALL SUBROUTINE			0
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	INSERT 06/18/8	06:56:28	DTSS EXECUTIV	E (INSERT SEGMENT	DTSS TRADE SECRET	PAGE 6	2	\circ
	C		MACRO	S				
0		1044	TTIC	MACDOC			[09DEC79]	\circ
		1966 1967	TTLS	MACROS			TOA05 (1.4.7)	
		1968	*					\bigcirc
		1969	*)
		1970 1971	*	GTIMLOADS TI	ME (TIMER UNITS) INTO A REG			$\overline{}$
		1972	*					\circ
İ		1973	GTIM MACRO	V # C T T 14	NO ARGUMENTS			
		1974 1975	T S X O E N D M	X \$ G T I M G T I M	RETURN TIMER UNITS IN A			0
		1976	*	- · · · · · · · · · · · · · · · · · · ·				
		1977			OPY FROM/TO PROTECTED AREAS			\circ
		1978 1979		CB-FROM,PTER-FROM L FCBS AND POINTE	<pre>,FCB-TO,PTER-TO,RETURN ADDRESS RS SEE BELOW</pre>			
		1980			WING POINTER-FROM			\bigcirc
		1981	*		DIST DET			
		1982 1983	OVCPY MACRO TSXO	FCBF,PTRF,FCBT OVCPY	PIRIPREI			
		1984	TRA	#5				O
		1985	ZERO	#1,#2				
		1986 1987	Z E R O E N D M	#3,#4 OVCPY				\circ
		1988	*	0 7 0 1 7				
		1989	*					0
		1990 1991	*		FREE			
		1992	*	•	TREE			\bigcirc
		1993	· · · - -		INE RELEASES A CHANNEL WHICH)
		1994 1995			ZE MACRO. REGISTERS WILL BE DESTROYED OT GUARANTEED TO BE IMMEDIATE.			
		1996	*	110 1110 1211 120 11	or somming to be 100 depth to			0
_		1997	FREE MACRO	*PUB *	HE ONLY EDGE OUDG			_
		1998 1999	INE ARGER. SET	"#1","PUB" ARGER.#1	WE ONLY FREE PUBS FLAG BAD ARGUMENTS			0
		2000	TSXO	I\$FREE			[18AUG76]	4
		2001 2002	ENDM *	FREE				\circ
		2002	<u>*</u> . ★					
		2004	*				[18AUG76]	0
		2005 2006			FIC CHANNEL. RETURNS TO CHANNEL		[18AUG76] [18AUG76]	
		2007			TAINS PUB INDEX		[18AUG76]	0
		2008			TAINS PUB INDEX OF RELEASED CHANNEL		[170CT76]	
		2009 2010	* * NOTE	THAT A WALTA LICT	ELEMENT POINTER MUST BE STORED IN		[18AUG76] [18AUG76]	
		2011			REE MACRO INVOKED UNDER THE CONTROL		[18AUG76]	0
		2012	* OF TH	AT LIST ELEMENT I	N ORDER TO RELEASE A CHANNEL SIEZED BY		[18AUG76]	
		2013		MACRO.			[18AUG76]	0
		2014 2015	*	ESTROY ANY REGIST	ER BUT XRT.		[18AUG76] [18AUG76]	
		2016	*		-		[18AUG76]	0
		2017	CHAN MACRO	(CHANNEL#)			[18AUG76]	

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	С		•	MACROS					-
\bigcirc	C			MACKUS					0
\circ		2018		EAA	#1			[18AUG76]	\mathcal{O}
		2019		TSXO	I \$ C H A N			[18AUG76]	
		2020		ENDM	CHAN			[18AUG76]	\circ
		2021	*					[18AUG76]	
_		2022 2023	*	DECH 2.	DECRA THES	E TWO MACROS AND THE CORRESPONDING		[170CT76] [170CT76]	
		2024	*			E FCB OF THE FILE REFERENCE NUMBER		[1700176]	0
		2025	*			HE FCB IN THE LIST ELEMENT POINTED		[170CT76]	
0		2026	*			LEMENT IS THEN DEALLOCATED. RFCB		[170CT76]	0
		2027	*			B; RFCBA REPLACES ALL BUT F\$ABORT		[1700776])
		2028	*	AND IS	CALLED AT THE C	ONCLUSION OF A COPY.		[1700776]	
0		2029	*	MAGGG				[170CT76]	\circ
		2030 2031	RFCB	MACRO TSXO	¢ D E C D	CALL THE SUBROUTINE		[170CT76] [170CT76]	
		2032		ENDM	\$RFCB RFCB	CALL THE SUBROUTINE		[170CT76]	$\overline{}$
\circ		2033	*	CNON	N 1 G 12			211001103	0
		2034	*						
		2035	*	FCBLIS	COPIES A FILE C	ONTROL BLOCK POINTED TO BY P TO A LIST ELEMENT.			\circ
		2036	*	IF P IS	S ZERO, THEN A C	ORE FCB IS COPIED IF #1 IS NULL AND A FCB FOR)
		2037	*	THE MF	D IS COPIED IF #	1 = MFD.			
Ó		2038	*						C
-		2039 2040	FCBLIS	MACRO	'#1','MFD',2				
<u></u>		2040		IFE TSXO	ESFCBLM	SUBROUTINE ENTRY FOR MFD COPY			
\bigcirc		2042		IFE	0.1	OTHERWISE			С
ı		2043		TSXO	E\$FCBLS	SUBROUTINE ENTRY FOR CORE FCB			•
		2044		ENDM	FCBLIS				
$\overline{}$		2045	*)
		2046	*						
\circ		2047	DEALOC		14 h n l n n n l	557 400 05 0007745			С
		2048 2049		L D A M T Q A	K\$DLC,DL	GET ADD OF ROUTINE QUEUE THE TASK			
		2050		LDX	T,T\$LINK,T	POP T			
0		2051		ENDM	DEALOC				С
		2052	*						
0		2053	*						\cap
		2054	SPEBLK	MACRO		CONDITIONALLY UNROADBLOCKS JOB			•
		2055		TSXO	E S E Q N C Q	WAKE JOB UP IF NECESSARY			_
		2056		ENDM	SPEBLK				С
1		2057 2058	*						
		2059	*	THE FOL	LOWING MACROS	ARE USED TO ADD OR DELETE JOBS FROM THE			С
0		5090	*			QUEUE. THE EACH TAKE AS THE FIRST ARGUMENT			
		2061	*			IN ADDITION, IF THE SECOND ARGUMENT TO EQJ			
0		2062	*		NULL, THE JOB W	ILL BE ADDED TO THE FRONT OF THE SPECIFIED			C
_		2063	*	QUEUE.					-
		2064	*	M A C D C	011 C11 CN AM C				
		2065 2066	EQJ	MACRO IFE	QUEUENAME '#2','',6				С
		2067		LDX	X,\$#1I	SET X TO INSERT JOB NUMBER			
		2068		STX	J.J\$CQ.X	STORE J IN THE END OF THE CHAIN			С
		2069		LDX	X.0.DU	SET LAST LINK			<u> </u>

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C C C C C C C C C C	-								
C	•	0							С
C 2070 STX X_JSEQ_J EQUAL TO ZERO DEL STX Y_JSEQ_J UPDATE INSERT POINTER TO J 2071 STX JAMII UPDATE INSERT POINTER TO J 2072 STX JAMII UPDATE INSERT POINTER TO J 2073 STX JAMII UPDATE INSERT POINTER TO J 2075 STX JAMII UPDATE INSERT POINTER IF QUEUE EMPTY C 2075 STX JAMII UPDATE INSERT POINTER IF QUEUE EMPTY C 2076 STX X_JSEQ_J LINK FORMEN JOB TO J 2077 STX JAMII UPDATE INSERT POINTER IF QUEUE EMPTY C 2076 STX X_JSEQ_J LINK FORMEN JOB TO J 2077 STX JAMII UPDATE INSERT POINTER IF QUEUE EMPTY C 2070 STX JAMII UPDATE INSERT POINTER IF QUEUE EMPTY C 2070 STX JAMII UPDATE INSERT POINTER IF QUEUE EMPTY C 2070 STX JAMII UPDATE INSERT POINTER IF QUEUE EMPTY C 2070 STX JAMII UPDATE INSERT POINTER IF QUEUE EMPTY C 2070 STX JAMII UPDATE INSERT POINTER IF QUEUE EMPTY C 2070 STX JAMII UPDATE INSERT POINTER IF QUEUE EMPTY C 2070 STX JAMII UPDATE INSERT POINTER IF QUEUE EMPTY C 2070 STX JAMII UPDATE INSERT POINTER IF QUEUE EMPTY C 2070 STX JAMII UPDATE INSERT POINTER UPDATE INSERT POINTER C 2070 STX JAMII UPDATE INSERT POINTER TO J		0	INSERT 06/18/81	06:56:28	DTSS EXECUTIVE	(INSERT SEGMENT)	DTSS TRADE SECRET	PAGE 64	C
C		\cap	c		MACROS				$\overline{}$
Description Color		0		2071		J,\$#1I			
O 2075 STX J. \$#11 UPDATE INSERT POINTER IP QUEUE EMPTY C 2077 STX J. \$#15 MAKE J FIRST C 2077 STX J. \$#15 MAKE J FIRST C 2079 ** C 2079 C		0		2073	LDX	X,\$#1F			Ĉ
O 2077 STX J_J#IF MARE J FIRST C C C C C C C C C		0		2075	STX	J,\$#1I	UPDATE INSERT POINTER IF QUEUE EMPTY		С
C 2079				2077	STX	J,\$#1F			
O 2081		0		2079	*	E A. J			С
2083		0		2081	DQJ MACRO				С
2086				2083	EAX	Y,\$#1BEG			
O 2088 TRA #6 EXIT IF J NOT ON THE QUEUE 2089 #5 LDX X.J\$CQ.J GET LOOKAHEAD POINTER 2090 STX X.J\$CQ.J UNLINK JOB 2091 TNZ #6 EXIT IF NOT LAST 2092 STX Y.\$#1] ELSE UPDATE THE INSERT POINTER O 2093 #6 NULL 2094 CRSM RESTORE 2095 ENDM DaJ O 2096 * 2097 * 2098 ENDM DAJ O 2099 CRSM SAVE.OFF 2099 CRSM SAVE.OFF 2100 INE #11'.1'.4 O 2101 IFE #1.12 O 2102 GETD #1 GET LIST ELEMENT FOR MLINK TASK O 2105 IFE 0.11 C 2106 ERROR ! 2107 CRSM RESTORE 2108 TSXO ESENOS QUEUE FOR JOB 2109 CRSM RESTORE C 2109 CRSM RESTORE C 2109 CRSM SAVE.OFF C 2100 INE #11'.1'.4 C 2101 IFE #1.72.'' C 2102 GETD #1 GET LIST ELEMENT FOR MLINK TASK C 2105 IFE 0.11 C 2106 ERROR ! 2107 LD4 #2.'' C 2108 TSXO ESENOS QUEUE FOR JOB 2109 CRSM RESTORE 2109 CRSM RESTORE 2109 CRSM RESTORE 2110 ENDM ENDJ		0		2085	TZE	#5	YES, GO UNLINK JOB		C
2088		\cap		2087		#4			C
C 2090 STX X,JSCQ,Y UNLINK JOB C 2091 TNZ #6 EXIT IF NOT LAST 2092 STX Y,S#11 ELSE UPDATE THE INSERT POINTER C 2093 #6 NULL 2095 ENDM DQJ C 2096 * 2097 *		0							
C STX Y,\$#11 ELSE UPDATE THE INSERT POINTER C 2093 #6 NULL CRSM RESTORE C 2095 ENDM DQJ CRSM C 2096 *		0		2090	STX	X,J\$CQ,Y	UNLINK JOB		С
CRSM RESTORE CRSM RESTORE CRSM DQJ				2092	STX				
C 2096 * 2097 * CRSM SAVE.OFF CRSM SESTORE CRSM RESTORE CRSM RESTORE CRSM RESTORE CRSM RESTORE CRSM RESTORE CRSM RESTORE CRSM SAVE.OFF CRSM SESTORE CRSM SAVE.OFF CRSM SAVE.OFF CRSM SESTORE CRSM SES		0				RESTORE			C
2097		·				DQJ			
O 2099 CRSM SAVE, OFF 2100 INE '#1','', 4 2101 IFE #1,1,2 C170CT76] 2102 GETD 1,NBUG 2103 IFE 0,1,1 2104 GETD #1 GET LIST ELEMENT FOR MLINK TASK O 2105 IFE '#2','' 2106 ERROR! 2107 LDQ #2,DL GET RESTART ADDRESS 2108 TSXO ESENGS QUEUE FOR JOB 2109 CRSM RESTORE 2110 ENDM ENQJ		\circ		2097	*	. 5.1.6.7.1			
The		\bigcirc		2099	CRSM	SAVE,OFF	C OR NULL		\subset
O 2102 GETD 1.NBUG [170CT76] C 2103 IFE 0.1.1 GET LIST ELEMENT FOR MLINK TASK O 2104 GETD #1 GET LIST ELEMENT FOR MLINK TASK C 2105 IFE '#2'.'' 2106 ERROR! 2107 LDQ #2.DL GET RESTART ADDRESS 2108 TSXO E\$ENQS QUEUE FOR JOB C 2109 CRSM RESTORE 2110 ENDM ENQJ									_
2104 GETD #1 GET LIST ELEMENT FOR MLINK TASK 2105 IFE '#2','' 2106 ERROR! 2107 LDQ #2,DL GET RESTART ADDRESS 2108 TSXO E\$ENQS QUEUE FOR JOB 2109 CRSM RESTORE 2110 ENDM ENQJ		0		2102	GETD	1.NBUG		[1700 T76]	C
2106 ERROR! 2107 LDQ #2,DL GET RESTART ADDRESS 2108 TSXO E\$ENQS QUEUE FOR JOB 2109 CRSM RESTORE 2110 ENDM ENQJ				2104	GETD	#1	GET LIST ELEMENT FOR MLINK TASK	[17601763	
2108 TSXO E\$ENQS QUEUE FOR JOB 2109 CRSM RESTORE 2110 ENDM ENQJ		0							С
2109 CRSM RESTORE 2110 ENDM ENQJ		\bigcap							
		0		2109	CRSM	RESTORE			
		0		2110	ENDM	E 14 44 7			C
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(c)	2111	MACROS				[00b56707	0
		2112 2113	E J E C T * *				[09DEC79]	0
		2114 2115 2116	* TO SEA	RCH THE JOB TREE F	CH CALLS A SUBROUTINE OF THE : OR JOBS RUNNING BELOW THE JOB FOUND A TSXO #1 IS EXECUTED, :	WITH NUMBER J.		0
		2117 2113 2119	* SUBROU * RETURN	TINE CAN BE INSERT ING BY A TRA O,O W	ED TO PERFORM ANY DESIRED FUNI ILL CONTINUE THE SEARCH THROUG LL CAUSE THE SUBTREE BELOW TH	CTION. GH THE JOB		
		2120 2121	* FOUND	TO BE IGNORED.	- CAUSE THE SUBTREE BELOW THE	. 309 3031		0
(2122 2123 2124	* TREE MACRO EAX	ADDRESS OF SUBR	OUTINE SUBROUTINE ADDRESS TO X			0
		2125 2126 2127	TSXO ENDM	E\$TREE TREE	GO TO TREE ROUTINE			0
		2128 2129	DECCT MACRO LCA	1,DL	DECREASE COUNT GET A MINUS ONE			0
(2130 2131 2132	A S A T M I E N D M		ADD TO APPROPRIATE COUNTER ERROR IF IT WENT NEGATIV			0
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0	c 2133		TABLE SIZE DEFINITIONS			0
0	2133 2134 2135 2136	* * * *	PAGE TABLE SIZE DEF	INTITIONS		0
0	2137 000004 2138 000300 2139	HEAD TLEN EQU PLEN EQU	K • X 4 192		[08AUG77]	0
0	2140 2141 2142	* * * DEFIN	NITION FOR STORAGE ALL	OCATION LIST FLEMENTS		0
	2143 2144	* HEAD	K			
0	2145 000001 2146 000002 2147 000003 2148	TABLE EQU PLACE EQU	1 2 3			Ö
	000003 2148 000004 2149 000005 2150 000005 2151	NDA EQU TYPE EQU RET EQU SIZE EQU	3 4 5 5		•	0
0	000006 2152 000007 2153	LOWER EQU UPPER EQU	6 7			0
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O INSE	ERT 06/18/81	06:56:28	DTSS	EXECUTIVE	(INSERT SEGMENT)	DTSS TRADE SECRET	PAGE 67	
•	K			PIO MA	CRO				
0		2154		TTLS	PIO MACRO			[21APR77]	0
		2155	*					[21APR77]	
		2156 2157	*	THE FO	LLOWING MACRO CA	LLS THE PHYSICAL	I/O ROUTINE X\$PIO	[21APR77] [21APR77]	\circ
		2158	PIO	MACRO	PDA*,DCW*,COMM	AND*,STATUS*,CPC/	MPC, TIMOUT TIME	[21APR77]	
		2159		REM	V # D * D			[21APR77]	\bigcirc
		2160 2161		T S X O A R G	X\$PIO #1	PTR TO PDA		[21 APR 77.] [21 APR 77.]	
0		2162		ARG	# 2	PTR TO DCW		[21APR77]	0
		2163		ARG	#3	PTR TO COMMAND		[21APR77]	\bigcirc
		2164 2165		ARG IFE	#4 *#5 *,**, 2	PTR TO STATUS P	AIR	[21APR77] [21APR77]	$\overline{}$
0		2166		ARG	1 , DU	ASSUME MPC CHAN	NEL	[21APR77]	0
		2167		IFE	0,1,7			[21APR77]	
\circ		2168 2169		I F E A R G	'#5*,'CPC',2 0,0U	SET CPC CHANNEL		[21APR77] [21APR77]	\circ
1		2170		IFE	0,1,4			[21APR77]	
0		2171		IFE	1#51, MPC1,2	057 408 604		[21APR77]	\circ
		2172 2173		ARG IFE	1,0U 0,1,1	SET MPC CHANNEL		[21APR77] [21APR77]	
0		2174		ARG	#5	POINT TO CHANNE	L TYPE	[21APR77]	0
		2175		IFE	1#61,11			[21APR77]	\cup
		2176 2177		ARG INE	10,DL '#6*,''	SEI DEFAULT 10	SECOND TIMEOUT TIME	[21APR77] [21APR77]	$\overline{}$
		2178		ARG	#6	SET TIMEOUT TIM	E	[21APR77]	0
		2179		ENDM	PIO			[21APR77]	
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		06:56:28	DTSS EX		(INSERT SEGMENT)	DTSS TRADE SECRET	PAGE 68	0
·	K			XLOG M	ACRO			
)	2180	ı	TTLS	XLOG MACRO		[21APR77]	0
)	2181 2182 2183	* * *	LOG MA	CRO SEE LOG RO	UTINE FOR CALLING SEQUENCE	[21APR77] [21APR77] [21APR77]	0
_		2184 2185	*	MACDO	(TEVT) ADC1.ADC	2 ADC 9	[21APR77] [21APR77]	
)	2186 2187	XLOG	MACRO TSXO CRSM	(TEXT),ARG1,ARG X\$LOG SAVE,ON	2//ARGO	[21APR77] [21APR77]	0
)	2188		PMC	SAVE, OFF	DISABLE MACRO LISTING		Ö
		2189 2190	LOGSET	Z E R O S E T	#61≥#62 *		[21APR77] [21APR77]	
)	2191 2192		INE UTEXT	'#1','' \#1\		[21APR77] [21APR77]	0
	\	2193 2194	#62	EQU CRSM	<pre>★-LOGSET SAVE,OFF</pre>		[21APR77] [21APR77]	\circ
	,	2195 2196		PMC INE	RESTORE '#2',''	ENABLE MACRO LISTING		\circ
)	2197		ARG	#2		[21APR77] [21APR77]	\circ
	,	2198 2199		I N E A R G	'#3 ','' #3		[21APR77] [21APR77]	\circ
)	2200		INE	*#4*,**		[21APR77]	0
	,	2 2 0 1 2 2 0 2		ARG INE	#4 *#5 *, **		[21APR77]	\circ
)	2203		ARG	#5		[21APR77] [21APR77]	0
	,	2204 2205		INE	*#6 *, **		[21APR77]	\circ
)	2206		ARG INE	#6 •#7• ,••		[21APR77] [21APR77]	0
	,	2207		ARG	#7		[21APR77]	\circ
	1	2208 2209		I N E A R G	*#8 *,** #8		[21APR77] [21APR77]	0
)	2210		INE	1#91,11		[21APR77]	\cup
	1	2211 2212		ARG CRSM	#9 RESTORE		[21APR77] [21APR77]	$\overline{}$
)	2213		PMC	SAVE, OFF	DISABLE MACRO LISTING		0
	N	2214 2215	#61	NULL PMC	RESTORE	ENABLE MACRO LISTING	[21APR77]	
)	2216		CRSM	RESTORE	CHADLE HACKO EISTING	[21APR77]	0
	1	2217		ENDM	XLOG		[21APR77]	
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		INSERT 06/18/81 06:56:28	DTSS EXECUTIVE (INSERT SEGMENT)	DTSS TRADE SECRET	PAGE 69	0
	0	K 2218 2219 2220 2221 2222 2223 2224	PIO INITIALIZATION COMM AREA TTLS PIO INITIALIZATION CO * * * THE FOLLOWING SYMBOLS DEFINE THIS COMM AREA SHOULD BE SET	MM AREA DEFINITIONS OFFSETS IN THE PIO INIT COMM AREA.	[21APR77] [21APR77] [21APR77] [21APR77] [21APR77] [21APR77]	0
	0	000000 2225 000001 2226 000002 2227 000003 2228 000004 2229 000004 2230	COMMBX EQU 0 MBX B EQU 1 MBX B EQU 2 MBX B EQU 3 MBX B COMIMW EQU 4 (UPPE	ASE/PORT NUMBER FOR IOM # 0 ASE/PORT NUMBER FOR IOM # 1 ASE/PORT NUMBER FOR IOM # 2 ASE/PORT NUMBER FOR IOM # 3 R) ADDRESS OF IMW AREA R) IOM NUMBER OF BOOT IOM	[21 APR77] [21 APR77] [21 APR77] [21 APR77] [21 APR77] [21 APR77]	0
	0	000005 2231 000006 2232 000007 2233 000010 2234 000011 2235 2236	PDARDR EQU 6 (UPPE PDATAP EQU 7 (UPPE PDAENV EQU 8 (UPPE	R) PDA FOR CONSOLE R) PDA FOR READER R) PDA FOR TAPE R) PDA FOR ENV DECK DEVICE H OF COMM AREA	[21APR77] [21APR77] [21APR77] [21APR77] [21APR77]	0
	0	2237 2238 2239 2240 2241	UPPER COMIMW,PDACON,PDARDR, LOWER COMIOM * *	PDATAP, PDAENV	[09DEC79] [09DEC79] [09DEC79]	0
	0	2242 2243 2244 2245	* END OF INSERT FILE * HEAD *		[09DEC79]	0
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		** PRO	DDUCT TRACKING AND (GENERAL INFO DEFINITIONS		
0	2246	TTLS	PRODUCT TRACK	ING AND GENERAL INFO DEFINITIONS		0
	2247 2248 2249	*	ENERAL INFORMATION 6	BLOCK		0
	2250 2251	 ★	W			0
	000000 2252 000001 2253	GIFLG EQU GIPUN EQU		CENERAL INFORMATION FLAGS PRODUCT TRACKING STARTING UNITS		
0	000002 2254 000003 2255 2256	GIPBT EQU GIPTK EQU	GIPUN+1	PRODUCT TRACKING STARTING BTIME PRODUCT TRACKING CONTROL AND USER INFO		0
0	000014 2257 2258	GIBKL EQU *	GIPTK+9	** LENGTH OF GENERAL INFORMATION BLOCK		<u> </u>
0	2259 2260 2261	* * * G	ENERAL INFORMATION	FLAG DEFINITIONS		O
	400000 2262 2263	GIFPT BOOL	400000	PRODUCT TRACKING IN PROGRESS		
	2264	*				
0	2265 2266 000001 2267	* PTBAS EQU	RODUCT TRACKING BLOO Q\$RUN+1	TK DEFINITION The starting location		0
0	000002 2268 000004 2269 000020 2270	PTUSR EQU PTGIF EQU PTEUN EQU	PTBAS+1 PTUSR+2	USER NUMBER (2 WORDS) GENERAL INFORMATION FROM GIF BLOCK ENDING UNITS		0
0	000021 2271 000022 2272 000023 2273	PTEBT EQU PTEWC EQU PTEDT EQU	PTEBT+1	FINAL B-TIMER FINAL WALL CLOCK DATE (2 WORDS)		
0	000025 2274 000034 2275 2276	PTFAC EQU PTCLN EQU *	PTEDT+2	STATE VECTOR CPFAC, IOFAC, SFAC, PID(3), UMPY CORE LENGTH AT END		0
0	000035 2277 000034 2278 2279	PTEND EQU PTBKL EQU *		LENGTH OF ENTIRE BLOCK ACTUAL PRODUCT TRACK INFO		0
0	2230 2231 000000 2282	* * THE END				0
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0	4000 10000	B AP B EX	630 629	633 633						0
0	1000 2000	B RD B WT	632 631	633 633						0
0	400000 200000 100000	B CAP B CFC B CFD	684 645 646	688 663 663						0
	40000	B CFR B CWT	647 685	663 688	689					0
	2 1 0000	B DFE B MDA	764 554	765 570						<u> </u>
0	40000	B OWN B SFE	627 763	633 765						0
0	10000	B CFCL B CFGA	650 649	663 663						0
	400 400000 200	B NTPD B NTPS B RSVD	673 671 674	675 675 675						
0	200000	B RSVS B SWAP	672 549	675 570						0
0	400	BC FR VM BS WREQ	654 555	663 570						0
	10	C CATR C CLEN	1620 467	1639 485						;
	6 11	C DALT C FLAG	479 1623	485 1640						0
0	11 22	C PERM C TACC	1622 1636	1639 1640						0
	6 10	C TYPE C USEP	480 1621	486 1640						\circ
	2 2	CCBITS CENTRY	1634 469	1635 486	1639					
0	5 22	CINDEX	468 1635	485 1639	4 (70					
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	4 17	COMINW COMIOM CPASLE	2230 1630	2238 1640						
	17	CPASPT F J	1629 528	1639						0
0	1 0	F FR F ACC	529 371	532 418						\circ
	0	F BIT F DFR	521 414	531 419						0
	1 6	F RET F SFR	376 413	419 414	418					
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_						CROSS	REFERENCE TABLE				_
) 1 3	I DEV I PUB	865 869	887 870	871	872	887				0
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. C	3	I PUBL I TYPE	870 866	888 867	888						0
	6	I URET IADEXT IDCWWD	874 876 881	876 888	877	887					
) 7 7 11	IMODEL IQUEWD	878 880	882 888 881							0
	_	IQWORD ISEKAD	873 872	874 873							0
	13	ISIDCW ISKDCW	882 883	833 884							0
	20	ISPRET M EIS	871 272	888 278							
	400	M NSA MCACHE	265 268	278 278							0
	200 7740	MEXMEM METVMK	269 262	278 277							0
	3	MOVRLP MPROCN MSER56	274 275 266	278 278 278							
C	10 40000	MSLMEM MTSOPT	273 264	278 278 278							0
	3	NPROS PDACON	87 2231	138 2237							0
C	10	PDAENV PDARDR	2234 2232	2237 2237							0
	0	PDATAP Q RUN	2233 835	2237 836	839	2267					,
C	777777 0 777777	Q BUSY Q LINK Q NPRI	1024 834 1023	1029 838 1028							0
C		S IC S BIT	320 340	321 341	367						0
	73 64	S FCB S PID	361 356	363 357							0
	45	S REG S TIO	317 337	318 338							
C) 10 31 35	S AREG S BARS S BUSY	318 321 328	319 322 329	367			•			0
C		S CATW S CLEN	333 346	334 347	307						0
	60 36	S FREE S FRUN	350 330	353 331	367						0
	5 <i>(</i> 47	S HOLE S INTP	348 339	350 340	366 366						
С) 50 42	S JMEM S SCRW	341 334	342 335							
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0	INJUNI	00	17107	7710701 00	00.50.20	710701 00.30.20 0133 2	CROSS REFERENCE TABLE			
0 0	63 56 36	9	S SFAC S SPEC S SWAP	S SPEC 347 S SWAP 329	S SPEC 347 348 S SWAP 329 330	S SPEC 347 348 S SWAP 329 330 366	S SPEC 347 348 S SWAP 329 330 366	S SPEC 347 348 S SWAP 329 330 366	S SPEC 347 348 S SWAP 329 330 366	S SPEC 347 348 S SWAP 329 330 366
0	44 67 54		S TCPU S UMPY SCORET	S TCPU 336 S UMPY 357 SCORET 345	S TCPU 336 337 S UMPY 357 358 SCORET 345 346	S TCPU 336 337 S UMPY 357 358 SCORET 345 346	S TCPU 336 337 S UMPY 357 358 SCORET 345 346	S TCPU 336 337 S UMPY 357 358 SCORET 345 346	S TCPU 336 337 S UMPY 357 358 SCORET 345 346	S TCPU 336 337 S UMPY 357 358 SCORET 345 346
0	61 35 53 62		SCPFAC SFTYPE SIOCHG SIOFAC	SFTYPE 327 SIOCHG 344	SFTYPE 327 328 SIOCHG 344 345	SFTYPE 327 328 366 SIOCHG 344 345	SFTYPE 327 328 366 SIOCHG 344 345	SFTYPE 327 328 366 SIOCHG 344 345	SFTYPE 327 328 366 SIOCHG 344 345	SFTYPE 327 328 366 SIOCHG 344 345
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0	37 52 51		SPILEN SQUANT SSTIME SSVMEM	SQUANT 331 SSTIME 343	SQUANT 331 332 SSTIME 343 344	SQUANT 331 332 SSTIME 343 344	SQUANT 331 332 SSTIME 343 344	SQUANT 331 332 SSTIME 343 344	SQUANT 331 332 SSTIME 343 344	SQUANT 331 332 SSTIME 343 344
0	32 46 33		STACES STCORE STIMER	STACES 322 STCORE 338 STIMER 324	STACES 322 323 STCORE 338 339 STIMER 324 325	STACES 322 323 366 STCORE 338 339 STIMER 324 325	STACES 322 323 366 STCORE 338 339 STIMER 324 325	STACES 322 323 366 STCORE 338 339 STIMER 324 325	STACES 322 323 366 STCORE 338 339 STIMER 324 325	STACES 322 323 366 STCORE 338 339 STIMER 324 325
0	34 77777 7 77 7777		SUTYPE T LEN T LINK	SUTYPE 325 T LEN 845 T LINK 844	SUTYPE 325 327 T LEN 845 848 T LINK 844 847	SUTYPE 325 327 366 T LEN 845 848 T LINK 844 847	SUTYPE 325 327 366 T LEN 845 848 T LINK 844 847	SUTYPE 325 327 366 T LEN 845 848 T LINK 844 847	SUTYPE 325 327 366 T LEN 845 848 T LINK 844 847	SUTYPE 325 327 366 T LEN 845 848 T LINK 844 847
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0 0	2340 14 0		VSISTK WGIBKL WGIFLG	VSISTK 140 WGIBKL 2257	VSISTK 140 921 WGIBKL 2257 2270	VSISTK 140 921 WGIBKL 2257 2270	VSISTK 140 921 WGIBKL 2257 2270	VSISTK 140 921 WGIBKL 2257 2270	VSISTK 140 921 WGIBKL 2257 2270	VSISTK 140 921 WGIBKL 2257 2270
	2 3 1		WGIPBT WGIPTK WGIPUN	WGIPBT 2254 WGIPTK 2255 WGIPUN 2253	WGIPBT 2254 2255 WGIPTK 2255 2257 WGIPUN 2253 2254	WGIPBT 2254 2255 WGIPTK 2255 2257 WGIPUN 2253 2254	WGIPBT 2254 2255 WGIPTK 2255 2257 WGIPUN 2253 2254	WGIPBT 2254 2255 WGIPTK 2255 2257 WGIPUN 2253 2254	WGIPBT 2254 2255 WGIPTK 2255 2257 WGIPUN 2253 2254	WGIPBT 2254 2255 WGIPTK 2255 2257 WGIPUN 2253 2254
0	1 34 21 23		WPTBAS WPTCLN WPTEBT WPTEDT	WPTCLN 2275 WPTEBT 2271	WPTCLN 2275 2277 WPTEBT 2271 2272	WPTCLN 2275 2277 WPTEBT 2271 2272	WPTCLN 2275 2277 WPTEBT 2271 2272	WPTCLN 2275 2277 WPTEBT 2271 2272	WPTCLN 2275 2277 WPTEBT 2271 2272	WPTCLN 2275 2277 WPTEBT 2271 2272
	35 20 22		WPTEND WPTEUN WPTEWC	WPTEND 2277 WPTEUN 2270 WPTEWC 2272	WPTEND 2277 2278 WPTEUN 2270 2271 WPTEWC 2272 2273	WPTEND 2277 2278 WPTEUN 2270 2271 WPTEWC 2272 2273	WPTEND 2277 2278 WPTEUN 2270 2271 WPTEWC 2272 2273	WPTEND 2277 2278 WPTEUN 2270 2271 WPTEWC 2272 2273	WPTEND 2277 2278 WPTEUN 2270 2271 WPTEWC 2272 2273	WPTEND 2277 2278 WPTEUN 2270 2271 WPTEWC 2272 2273
0	2 5 4 2		WPTFAC WPTGIF WPTUSR	WPTFAC 2274 WPTGIF 2269 WPTUSR 2268	WPTFAC 2274 2275 WPTGIF 2269 2270 WPTUSR 2268 2269	WPTFAC 2274 2275 WPTGIF 2269 2270 WPTUSR 2268 2269	WPTFAC 2274 2275 WPTGIF 2269 2270 WPTUSR 2268 2269	WPTFAC 2274 2275 WPTGIF 2269 2270 WPTUSR 2268 2269	WPTFAC 2274 2275 WPTGIF 2269 2270 WPTUSR 2268 2269	WPTFAC 2274 2275 WPTGIF 2269 2270 WPTUSR 2268 2269
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				MACRO CROSS REFERENCE TABLE			
0	0	ALARM 1	538				0
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0	0	BUGA 1 CATC 1	216 226 759				0
	0 0 0	CATL 1 CATN 1	782 813 834				0
0	0 0 0	CKPT 1	017 260 568				0
0	0 0 0	DABL 1 DEALOC 2	178 047 128				0
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0	0	DTACH 1 DUSE 1	923 880				0
	0 0 0	ENQ 1	184 310 098				
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0	0	GETBQ 1 GETD 1	458 424				
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0	0 0 0	INVERT 1 LOG 1	898 129 503				С
0	0 0 0	MTASK 1	521 373 338				С
0	0 0 0	MTQA 1 ORDER 1	347 556 982				С
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0	0	PTQ 1	1296	MACRO CROSS REFERENCE TABLE			0
0	0 0 0	QLOCK 1 QNLOCK 1	1687 169 1 1275			•	0
0	0 0 0	RELC 1	1467 1955 2030				0
0	0 0 0	RFCBC 1 SHRINK 1	917 474 2054				0
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	1	MLDA	1799	OPCODE CROSS REFERENCE TABLE			0
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